KATALOG

GM

TRGOVINA



2020

Podjetje G-M&M TRGOVINA se ponaša z več kot 40 –letno zgodovino uspešnega trženja blagovnih znamk mednarodne korporacije Black&Decker, kasneje, po združitvi s Stanley-em, preimenovano v SBD (StanleyBlack&Decker) na področju Slovenije in držav nekdanje Jugoslavije.

V tem obdobju nenehne rasti in razvoja je podjetje vzpostavilo mrežo pogodbenih servisnih centrov na celotnem tržišču s hitrim odzivom in kvalitetnimi popravili ter oskrbo z rezervnimi deli. To je omogočilo utrditev pozicije blagovnih znamk: DeWalt, STANLEY in BLACK+DECKER na tržiščih, ki jih pokrivamo.

V letu 2019 smo razširili prodajni program s kvalitetnimi proizvodi renomiranega poljskega proizvajalca PROFIX na področje ročnega orodja in pribora linije PROLINE ter visokokvalitetne linije zaščitnih oblek in zaščitne opreme LAHTI. Ti dve blagovni znamki predstavljata novost na trgih G-M&M-a. Prepričani smo, da bo G-M&M s tako razširjeno ponudbo še bolje zadovoljeval svoje kupce v široko razvejani prodajni mreži na več kot 700 prodajnih mestih na celotnem tržišču.

Že v tem trenutku razmišljamo še o nadaljnji širitvi ponudbe iz bogate palete produktov PROFIX-a v naslednjih letih s ciljem postopnega prevzemanja položaja No.1 na vseh tržiščih, ki jih G-M&M TRGOVINA oskrbuje. Pri tem se bomo usmerili na razvoj in širitev servisne mreže in vseh poprodajnih aktivnosti. G-M&M TRGOVINA se ponaša z ekselentno marketinško podporo, atraktivnimi postavitvami in opremo prodajnih mest.

G-M&M Trgovina Team



Poduzeće G-M&M TRGOVINA d.o.o. iza sebe ima više od 40 godina uspješog marketinškog djelovanja. U početku G-M&M je bio sastavni dio međunarodne korporacije Black & Decker, a kasnije dolazi do spajanja sa robnom markom STANLEY te poduzeće postaje dio Korporacije SBD (StanleyBlack & Decker) i djeluje na tržištu Slovenije i bivše Jugoslavije.

Tjekom ovog razdoblja kojeg karakterizira stalni rast i razvoj, poduzeće je uspostavilo mrežu ugovorenih servisnih centara na cijelom tržištu i postalo prepoznatljivo po brzim odgovorima / kvalitetnim popravcima alata koje vrše za to obučeni serviseri, te sa izuzetnom snadbijevenošću rezervnim dijelovima. Sve ovo je doprinjelo da robne marke DeWALT, STANLEY i BLACK + DECKER postanu lideri na tržištima koja pokrivaju.

U 2019. godini proširili smo asortiman kvalitetnim proizvodima poznatog poljskog proizvođača PROFIX na području ručnih alata i pribora PROLINE, kao i visokokvalitetnu liniju zaštitne radne opreme (obuće i odjeće) LAHTI. Ove dvije robne marke predstavljaju novost na G-M&M tržištima. Uvjereni smo da će sa tako proširenom ponudom G-M&M i dalje zadovoljavati svoje distributere u širokoj prodajnoj mreži koju čini više od 700 prodajnih mjesta na cijelom tržištu.

Trenutno razmišljamo kako bi u narednim godinama proširili asortiman novim kvalitetnim PROFIX proizvodima, s ciljem postepenog zauzimanja pozicije broj 1 na svim tržištima koja G-M&M TRGOVINA pokriva. Pritom će sva naša pažnja biti posvećena daljnjem razvoju i širenju servisne mreže i svim postprodajnim aktivnostima kako bismo potvrdili našu izuzetnu posvećenost stalnom usavršavanju i osmišljavanju nove, atraktivne marketinške podrške koja će doprinjeti daljnjoj kvaliteti našeg zaštitnog znaka.

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G-M&M Trgovina Team

PROLINE

MEHANIČNA ORODJA IN PRIBOR ZA DELAVNICE 24-119
PNEVMATSKA ORODJA IN PRIBOR 120-131
ORODJA ZA GRADNJO, DEKORACIJO
IN KLJUČAVNIČARSTVO 132-178
POVEZOVALNA ORODJA 179-193
IZDELKI ZA SKLADIŠČENJE ORODIJ 194-199
VRTNARSKA ORODJA 200-217
DODATNA OPREMA STROJNIH ORODIJ 218-268

LAHTI PRO

ZAŠČITA ZA TELO 271-330
ZAŠČITA ZA GLAVO IN UŠESA 331-338
ZAŠČITA OČI IN OBRAZA 339-348
ZAŠČITA DIHAL 349-352
DELO NA VIŠINI 353-355
ZAŠČITA ROK 356-377
ZAŠČITA NOG 378-401
TEHNIČNE INFORMACIJE 414-430

SEZNAM ARTIKLOV

SEZNAM ARTIKLOV 453-462

PROLINE

MEHANIČKI ALATI I PRIBOR ZA RADIONICE 24-119
PNEUMATSKI ALATI I PRIBOR..... 120-131
ALATI ZA GRADNJU, DEKORACIJU I BRAVARU..... 132-178
ALATI ZA SPAJANJE..... 179-193
PROIZVODI ZA SKLADIŠTENJE ALATA 194-199
ALATI ZA VRTLARENJE..... 200-217
DODATNA OPREMA ALATA NA STRUJU 218-268

LAHTI PRO

ZAŠTITA ZA TIJELO..... 271-330
ZAŠTITA ZA GLAVU I UŠI..... 331-338
ZAŠTITA ZA OČI I LICE..... 339-348
ZAŠTITA ZA DIŠNI SUSTAV 349-352
RAD NA VISINAMA 353-355
ZAŠTITA ZA RUKE..... 356-377
ZAŠTITA ZA NOGE..... 378-401
TEHNIČKE INFORMACIJE 431-447

SPISAK ARTIKALA

SPISAK ARTIKALA..... 453-462

PROLINE

MEHANIČKI ALATI I PRIBOR ZA RADIONICE 24-119
PNEUMATSKI ALATI I PRIBOR 120-131
ALATI ZA GRADNJU, DEKORACIJU I BRAVARIJU 132-178
ALATI ZA SPAJANJE 179-193
PROIZVODI ZA SKLADIŠTENJE ALATA 194-199
ALATI ZA VRTLARENJE 200-217
DODATNA OPREMA ALATA NA STRUJU 218-268

LAHTI PRO

ZAŠTITA ZA TIJELO 271-330
ZAŠTITA ZA GLAVU I UŠI 331-338
ZAŠTITA ZA OČI I LICE 339-348
ZAŠTITA ZA DISAJNI SISTEM 349-352
RAD NA VISINAMA 353-355
ZAŠTITA ZA RUKE 356-377
ZAŠTITA ZA NOGE 378-401
TEHNIČKE INFORMACIJE 448-464

SPISAK ARTIKALA

SPISAK ARTIKALA 453-462

Standardi, certifikati | Standardi, certifikati | Standardi, certifikati			
DIN 3113	Po DIN standardih z dano številko	Prema DIN standardima s danim brojem	Prema DIN standardima s danim brojem
IEC-Norm 454-3-1	Po normi z dano številko	Prema normi s danim brojem	Prema normi s danim brojem
I	Razred točnosti (I, II, III)	Klasa točnosti (I, II, III)	Klasa tačnosti (I, II, III)
CE	CE certifikat	CE certifikat	CE certifikat
A+	Hlapni organski spoj [VOC] emisijski razred (zelo nizka emisija)	Hlapljivi organski spoj [VOC] emisijski razred (vrlo niska emisija)	Nepostojani organski spoj [VOC] emisijski razred (vrlo niska emisija)
IP44	Stopnja zaščite	Razina zaštite	Nivo zaštite
Pakiranje | Pakiranje | Pakovanje			
	Kartica ali denarnica	Kartica ili novčanik	Kartica ili novčanik
BOX	Posamezni okvir	Pojedinačni okvir	Pojedinačni okvir
BOX	Plastična škatla z obešalnikom	Plastična kutija s vješalicom	Plastična kutija s vješalicom
	Škatla z obešalnikom	Kutija s vješalicom	Kutija s vješalicom
	Število škatel	Broj kutija	Broj kutija
Mere | Mjere | Mjere			
62mm	Dolžina rezila	Duljina oštrice	Dužina oštrice
0,65mm	Širina rezila	Širina oštrice	Širina oštrice
14x100mm	Velikost izdelka	Veličina proizvoda	Veličina proizvoda
300mm	Dolžina izdelka	Dužina proizvoda	Dužina proizvoda
13 mm	Širina traka	Širina trake	Širina trake
85mm	Širina orodja	Širina alata	Širina alata
max 38mm	Max. obseg	Maks. opseg	Maks. obim
8mm	Max. premer palice	Maks. promjer šipke	Maks. prečnik šipke
+/- 0,03 mm	Razred točnosti (I, II, III)	Klasa točnosti (I, II, III)	Klasa tačnosti (I, II, III)
SCALE/ SKALA mm/ inch	Meri se v cm / inčih	Mjere u cm / inčima	Mjere u cm / inčima
U 0-600 ⎓V	Merilno območje enosmerne napetosti	Mjerni raspon istosmjernog napona	Mjerni domet istosmjernog napona
U 0-600 ~V	Merilno območje izmenične napetosti	Mjerno područje izmjeničnog napona	Mjerno područje naizmjeničnog napona
I 0-10 ⎓A	Merilno območje toka	Mjerno područje struje	Mjerno područje struje
R 0-2 MΩ	Območje merjenja upora	Raspon mjerenja otpora	Domet mjerenja otpora
BUZZER	Zvučni signal	Zvučni signal	Zvučni signal
22x10,5x2mm	Velikost diska	Veličina diska	Veličina diska
300ml	Kapaciteta	Kapacitet	Kapacitet
225mm	Dolžina okvirja	Duljina okvira	Dužina okvira
-30°C — +130°C	Delovna temperatura	Radna temperatura	Radna temperatura
1/4"	Velikost v palcih	Veličina u inčima	Veličina u inčima
Ø max. 1,6mm	Max. premer	Maks. promjer	Maks. prečnik
Ø 120mm	Premer	Promjer	Prečnik
Ø 35-140 mm	Razpon premera	Raspon promjera	Domet prečnika
8mm	Premer vijaka	Promjer vijka	Prečnik vijka
Ø22mm	Premer izvrtine	Promjer provrta	Prečnik šupljine

	Premer izvrtine	Promjer provrta	Prečnik šupljine
	Premer cevi	Promjer cijevi	Prečnik cijevi
	Premer pipe	Promjer slavine	Prečnik slavine
	Razpon premera kabla	Raspon promjera kabela	Domet prečnika kabla
	Številka in debelina kabla	Broj i debljina kabela	Broj i debljina kabla
	Teža	Težina	Težina
	Kapaciteta	Kapacitet	Kapacitet
	Kapaciteta	Kapacitet	Kapacitet
	dolžina	dužina	Dužina
	Razpon področja	Raspon područja	Domet područja
	Max. debelina	Maks. debljina	Maks. debljina
	Max. debelina	Maks. debljina	Maks. debljina
	Temperatura	Temperatura	Temperatura
	Temperatura plamena	Temperatura plamena	Temperatura plamena
	Elektrika	Struja	Struja
	Uporaba plina	Korištenje plina	Korišćenje plina
	Dvižna kapaciteta v tonah kilogramov	Kapacitet dizanja u tonama kilograma	Kapacitet dizanja u tonama kilograma
	Zobniki po palcih	Zupci po inču	Zupci po inču
	Velikost klinov	Veličina klinova	Veličina klinova

	Razpon nastavitev	Raspon podešavanja	Domet podešavanja
	Velikost kabla	Veličina kabela	Veličina kabla
	Število in moč svetilk	Broj i snaga svjetiljki	Broj i snaga svjetiljki
	Velikost zakovice	Veličina zakovice	Veličina zakovice
	Število šob	Broj mlaznica	Broj mlaznica
	Število vtičnic	Broj utičnica	Broj utičnica
	Število LED-ic	Broj LED-ica	Broj LED-ica
	Premer vpenjalne glave	Promjer stezne glave	Prečnik stezne glave
	Število zobnikov	Broj zubaca	Broj zubaca
	Število merilnih lističev	Broj mjernih listića	Broj mjernih listića
	Vrsta konca meril-nega senzorja	Vrsta kraja mjernog senzora	Vrsta kraja mjernog senzora

Materiali | Materijali | Materijali

	Trdnost jekla	Čvrstoća čelika	Čvrstoća čelika
	Japonsko jeklo Sk5	Sk5 japanski čelik	Sk5 japanski čelik
	3Cr13 kromirano jeklo	3Cr13 kromirani čelik	3Cr13 hromirani čelik
	Hitro-rezalno jeklo	Brzorezni čelik	Brzorezni čelik
	Hitro-rezalno jeklo za stoje	Brzorezni čelik za strojeve	Brzorezni čelik za mašine
	Hitro-rezalno jeklo - prevlečeno s TiN	Brzorezni čelik - obložen TiN-om	Brzorezni čelik - obložen TiN-om
	Kobaltno hitro-rezno jeklo	Kobaltni brzorezni čelik	Kobaltni brzorezni čelik

CARBON	Ogljikovo jeklo	Ugljični čelik	Ugljični čelik
HCS	Ogljikovo jeklo	Ugljični čelik	Ugljični čelik
Al	Aluminij	Aluminij	Aluminijum
65 Mn	Magnezijevo jeklo	Magnanski čelik	Manganski čelik
Cr	Kromirano jeklo	Kromirani čelik	Hromirani čelik
CrV	Krom-vanadijsko jeklo	Krom-vanadijev čelik	Hrom-vanadijev čelik
CrV 6140	Posebno krom-vanadijevo jeklo 6140	Poseban krom-vanadijev čelik 6140	Poseban hrom-vanadijev čelik 6140
S2	Posebno krom-vanadijevo jeklo S2	Poseban krom-vanadijev čelik S2	Poseban hrom-vanadijev čelik S2
CrMo	Kromolibdensko jeklo	Kromolibdenski čelik	Hromolibdenski čelik
CrMo SCM-440	Krom-molibdensko jeklo SCM-440	Krom-molibdenski čelik SCM-440	Hrom-molibdenski čelik SCM-440
Cr-V-Mo	Krom-vanadij-molib-densko jeklo	Krom-vanadij-molib-denski čelik	Hrom-vanadij-molib-denski čelik
9Cr2	Kromirano jeklo 9Cr2	Kromirani čelik 9Cr2	Hromirani čelik 9Cr2
GR15	Jeklo GR15	Čelik GR15	Čelik GR15
STAINLESS	Nerjaveče jeklo	Nehrđajući čelik	Nehrđajući čelik
TCT	Volframov karbid	Volframov karbid	Volframov karbid
METAL	Kovinsko telo / vodilo	Metalno tijelo / vodilica	Metalno tijelo / vodilica
BI-METAL	Bimetalni material	Bimetalni materijal	Bimetalni materijal
Zn-Cu	Medenina	Mjed / Mesing	Mesing
Cu Fe	Z bakrom prevlečena jeklena žica	Bakrom presvučena čelična žica	Bakrom presvučena čelična žica

Al-Ti A380	Titanova zlitina	Titanova legura	Titanova legura
ASME	ASME standardno jeklo	ASME standardni čelik	ASME standardni čelik
	Suhi les	Suho drvo	Suho drvo
	Vezana plošča	Šperploča	Šperploča
	Laminat	Laminat	Laminat
	Jeklo	Čelik	Čelik
	Beton	Beton	Beton
GENUINE HICKORY	Hikori in ročka	Hikori ručka	Hikori ručka
GRP	Plastika, ojačana s steklenimi vlakni	Plastika ojačana staklenim vlaknima	Plastika pojačana staklenim vlaknima
FRP	Plastika, ojačana s steklenimi vlakni	Plastika ojačana staklenim vlaknima	Plastika pojačana staklenim vlaknima
PTFE	Politetrafluoroetilen	Politetrafluoroetilen	Politetrafluoroetilen
HDPE	Polietilen visoke gostote	Polietilen visoke gustoće	Polietilen visoke gustoće
PE	Polietilen	Polietilen	Polietilen
PET	Polietilen tereftalat	Polietilen tereftalat	Polietilen tereftalat
PP	polipropilen	polipropilen	Polipropilen
PCW	Polivinilklorid	Polivinil klorid	Polivinil hlorid
ABS PP	Izdelki iz ABS in PP	Proizvod od ABS-a i PP-a	Proizvod od ABS-a i PP-a
ABS	ABS plastika	ABS plastika	ABS plastika
RUBBER	Gumijasta površina	Gumena površina	Gumena površina

PES	Poliester	Poliester	Poliester
BEZ KLEJU	Brez lepila	Nema ljepila	Nema ljepila
SILIKON	Brez silikona	Nema silikona	Nema silikona

Funkcionalnost | Funkcionalnost | Funkcionalnost

HEAVY DUTY	Velika obremenitev	Veliko opterećenje	Veliko opterećenje
PRO DRIVE	Povečana čvrstost stenske vtičnice	Povećana čvrstoća zidne utičnice	Povećana čvrstoća zidne utičnice
360°	Rotacijski element	Rotacijski element	Rotacijski element
AUTO STOP	Funkcija AUTO STOP	AUTO STOP funkcija	AUTO STOP funkcija
LASER	Lasersko zavarjene diamantne žage	Laserski zavarene dijamantne pile	Laserski zavarene dijamantne pile
max 80kg	Max. obremenitev	Maks. opterećenje	Maks. opterećenje
60 kg/m²	Največja sprejemljiva obremenitev po površini	Maksimalno prihvatljivo opterećenje po površini	Maksimalno prihvatljivo opterećenje po površini
100 kg/m	Najvišja sprejemljiva vzdolžna obremenitev	Maksimalno prihvatljivo uzdužno opterećenje	Maksimalno prihvatljivo uzdužno opterećenje
max. 3 kg	Največja sprejemljiva navpična obremenitev	Maksimalno prihvatljivo okomito opterećenje	Maksimalno prihvatljivo okomito opterećenje
200kg	Sila razbijanja	Sila razbijanja	Sila razbijanja
max 500mm	Max. velikost delovnega predmeta	Maks. veličina radnog predmeta	Maks. veličina radnog predmeta
MAX 100/150/210mm	Max. velikost delovnega predmeta	Maks. veličina radnog predmeta	Maks. veličina radnog predmeta
min 89 mm	Min. višina sedla	Min. visina sedla	Min. visina sedla
-5°C	Uporabite razpon temperature	Koristite raspon temperature	Korisni domet temperature
8 YEARS	Velikost in obseg možne ohranitve trajnosti	Veličina i opseg mogućeg zadržavanja trajnosti	Veličina i obim mogućeg zadržavanja trajnosti
5 min	Možen čas vgradnje s pomočjo samolepilnega traka	Moguće vrijeme ugradnje pomoću samoljepljive trake	Moguće vrijeme ugradnje pomoću samoljepljive trake

PEX AL PEX	Naprava za vpenjanje spojev cevi PEX-AL-PEX	Uređaj za stezanje spojeva cijevi PEX-AL-PEX	Uređaj za stezanje spojeva cijevi PEX-AL-PEX
PE-RT AL PE-RT	Naprava za vpenjanje spojev cevi PE-RT-AL-PE-RT	Uređaj za stezanje spojeva cijevi PE-RT-AL-PE-RT	Uređaj za stezanje spojeva cijevi PE-RT-AL-PE-RT
6T 60kN	Sila vpenjanja	Sila stezanja	Sila stezanja
U Ø16	Matrični tip za vpenjalno napravo PEX-AL-PEX	Matrični tip za steznu napravu PEX-AL-PEX	Matrični tip za steznu napravu PEX-AL-PEX
0-2 h	Delovni čas	Radno vrijeme	Radno vrijeme
3-10cm	Priporočen razpon rezanja	Preporučeni raspon rezanja	Preporučeni domet rezanja
max 22cm	Priporočen razpon rezanja	Preporučeni raspon rezanja	Preporučeni domet rezanja
10-20cm	Priporočen razpon rezanja	Preporučeni raspon rezanja	Preporučeni domet rezanja
TURBO CUT	3 polirani ostri koti	3 ispolirana oštra kuta	3 ispolirana rezna ugla
	Rotacijsko rezilo	Rotacijska oštrica	Rotacijska oštrica
max 527 mm min 145 mm	Razpon Wordkinga	Raspon Wordkinga	Domet Wordkinga
	Izmenljivi zobniki - količina po palcu	Promjenjivi zupčanici - količina po inču	Promjenjivi zupčanici - količina po inču
135°	Kot točke vrtanja	Kut točke bušenja	Ugao tačke bušenja
	Spremenljivo rezilo	Promjenjiva oštrica	Promjenjiva oštrica
	Zobate čeljusti	Zupčaste čeljusti	Zupčaste čeljusti
x6	6 karbidnih rezil	6 karbidnih oštrica	6 karbidnih oštrica
x9	Število ključev v nizu	Broj ključeva u setu	Broj ključeva u kompletu
x 4	Spremenljivi deli	Promjenjivi djelovi	Promjenjivi dijelovi
	Mazanje je potrebno	Potrebno je podmazivanje	Potrebno je podmazivanje

	Pravokotni predel	Pravokutni odjeljak	Pravougaoni odjeljak
	Polkrožni del	Polu okrugli dio	Poluokrugli odjeljak
	Okrogli del	Okrugli dio	Okrugli odjeljak
	Tro-kvadratni odlomek	Odlomak od tri kvadrata	Odjeljak od tri kvadrata
	Kvadratni del	Kvadratni dio	Kvadratni odjeljak
	Velikost in predel	Veličina i odjeljak	Veličina i odjeljak
SOFT TOUCH	Ročka z mehkim dotikom	Ručka s mekim dodirom	Ručka s mekim dodirom
ERGO	Ergonomska zasnova	Ergonomski dizajn	Ergonomski dizajn
MICRO	Za natančno delo	Za precizan rad	Za precizan rad
	Zunanja klešča z obrobo brez obroča	Vanjska kliješta s obrubom bez prstena	Vanjska kliješta s obrubom bez prstena
	Notranja klešča z obrobo brez obroča	Unutarnja kliješta s obrubom bez prstena	Unutrašnja kliješta s obrubom bez prstena
DIAMOND	Diamantno obloženi segmenti	Dijamantom obloženi segmenti	Dijamantom obloženi segmenti
M14	Pritrditev z navojem M14	Pričvršćivanje navojem M14	Pričvršćivanje navojem M14
M14	Pritrditev z navojem M14	Pričvršćivanje navojem M14	Pričvršćivanje navojem M14
	Samolepilna	Samoljepljiva	Samoljepljiva
	Za kotno brusilko	Za kutnu brusilicu	Za ugaonu brusilicu
	Za vrtalnik	Za bušilicu	Za bušilicu
Al	Za rezanje aluminijskih kablov	Za rezanje aluminijskog kabela	Za rezanje aluminijskog kabla
Cu	Za rezanje bakrenega kabla	Za rezanje bakrenog kabela	Za rezanje bakrenog kabla

Al	Za aluminijaste zakovice	Za aluminijske zakovice	Za aluminijske zakovice
Cu	Za bakrene zakovice	Za bakrene zakovice	Za bakrene zakovice
STAINLESS STEEL	Za kovice iz nerjavnega jekla	Za zakovice od nehrđajućeg čelika	Za zakovice od nehrđajućeg čelika
Al	Za rezanje aluminijastih cevi	Za rezanje aluminijskih cijevi	Za rezanje aluminijskih cijevi
Cu	Za rezanje bakrenih cevi	Za rezanje bakrenih cijevi	Za rezanje bakrenih cijevi
PE	Za rezanje polietilenskih cevi	Za rezanje poietilenskih cijevi	Za rezanje poietilenskih cijevi
PP	Za rezanje poylpropylene cevi	Za rezanje poilipropilenskih cijevi	Za rezanje poilipropilenskih cijevi
PVC	Za rezanje PVC cevi	Za rezanje PVC cijevi	Za rezanje PVC cijevi
x20	Število žepov	Broj džepova	Broj džepova
RUBBER	Nepremočljiva gumijasta podlaga	Vodootporna gumena podloga	Vodootporna gumena podloga
	Izboljšano armirano jeklo	Pojačano armiranim čelikom	Pojačano armiranim čelikom
	Ojačan okvir	Pojačani okvir	Pojačani okvir
	Torba za orodje s kolesi	Torba za alat s kotačima	Torba za alat s točkovima
	Torba za orodje z zložljivo ročico	Torba za alat s preklopnom ručkom	Torba za alat s preklopnom ručkom
	Kovček	Kutija	Kutija
ALUMINIUM	Aluminijasta kovček	Aluminijska kutija	Aluminijska kutija
	Nastavljiva šoba	Podesiva mlaznica	Podesiva mlaznica
1m	Montažne luknje vsakih 1m	Rupe za montažu svakih 1m	Rupe za montažu svakih 1m
72	Število zobnikov	Broj zubaca	Broj zubaca

36T	Število zobnikov v omari	Broj zubaca u račnji	Broj zubaca u račvanju
	Kroglični ležaji	Kuglični ležajevi	Kuglični ležajevi
3:1	Razmerje	Omjer	Omjer
max 10000 /min	Max. rotacija	Maks. rotacija	Maks. rotacija
200 W	Elektrika	Struja	Struja
max 1356 Nm	Največji navor	Najveći okretni moment	Najveći obrtni momenat
6,3 bar	Maksimalni zračni tlak	Maksimalni tlak zraka	Maksimalni pritisak vazduha
144 l/min	Potreben pretok zraka	Potreban protok zraka	Potreban protok vazduha
1,80kg LIGHT WEIGHT	Mala teža naprave	Mala težina uređaja	Mala težina uređaja
TWIN HAMMER	Udarni mehanizem z dvojnim kladivom	Udarni mehanizam s dvostrukim čekićem	Udarni mehanizam s dvostrukim čekićem
141mm COMPACT SIZE	Kompaktna velikost naprave	Kompaktna veličina uređaja	Kompaktna veličina uređaja
n₀:7000/min	Hitrost vrtenja naprave	Brzina rotacije uređaja	Brzina rotacije uređaja
1/4"	Velikost priključka z navojem	Veličina priključka s navojem	Veličina priključka s navojem
440 mm	Dolžina cevi za črpanje	Duljina crijeva za pumpanje	Dužina crijeva za pumpanje
UNIVERSAL	Univerzalna ženska hitra spojka	Univerzalna ženska brza spojnica	Univerzalna ženska brza spojnica
EURO	Moška hitra spojka tipa EURO	Muška brza spojnica EURO tipa	Muška brza spojnica EURO tipa
CLICK	Sistem za hitro povezovanje spojke	Sustav za brzo spajanje spojke	Sistem za brzo spajanje spojke
11 W (80 W)	Delovna moč zagona	Radna snaga pokretanja	Radna snaga pokretanja
PIEZO	Piezo-električna moč	Piezo-električna snaga	Piezo-električna snaga

	Ploski izvijač	Plosnati odvijač	Pljosnati odvijač
	Križni izvijač	Križasti odvijač	Krstasti odvijač
	Ploski izvijač	Ravni odvijač	Ravni odvijač
	Torx varnostni izvijač	Sigurnosni Torx odvijač	Sigurnosni Torx odvijač
	Torx varnostni izvijač	Sigurnosni Torx odvijač	Sigurnosni Torx odvijač
	6-kotna vtičnica	Šestougaona utičnica	Šestougaona utičnica
	Šest-kotni ročaj	Šestokutna drška	Šestougaona drška
1/4"	1/4 "bit vtičnica	1/4 "bit utičnica	1/4" bit utičnica
	Držalo vtičnice	Držač utičnice	Držač utičnice
	Nož za rezanje kablov	Nož za rezanje kabela	Nož za rezanje kabla
	Razpon nastavitev	Raspon podešavanja	Domet podešavanja
	Klešče	Kliješta	Kliješta
	Vrh za razgradnjo	Vrh za razgradnju	Vrh za razgradnju
	Vrh za razgradnjo	Vrh za razgradnju	Vrh za razgradnju
	Magnet	Magnet	Magnet
R7S J118 mm	Vrsta vlaken	Tip vlakna	Tip vlakna
●100% ○50% ✷FLASH	Način dela	Način rada	Način rada
LED	LED zadnja osvetlitev	LED pozadinsko osvjetljenje	LED pozadinsko osvjetljenje
Ra ≥70	Indeks reprodukcije barv	Indeks reprodukcije boja	Indeks reprodukcije boja

	Energijski razred	Energijski razred	Energijski razred
	Svetloba	Svjetlost	Svjetlost
	Senzor gibanja	Senzor pokreta	Senzor pokreta
	Kot svtilnosti	Kut svjetlosti	Kut svjetlosti
	Moč svetlobe	Snaga svjetlosti	Snaga svjetlosti
	Kapaciteta in tip baterije	Kapacitet i snaga baterije	Kapacitet i snaga baterije
	Zoom funkcija	Zoom funkcija	Zoom funkcija
	SOS signal	Sos signal	SOS-Signal
	USB polnjenje	USB punjenje	USB punjenje
	Izdelek je narejen iz aluminijske zlitine, ki se uporablja v letalski industriji	Ovaj proizvod je izrađen od aluminijskih legura koji se koriste u zrakoplovnoj industriji	Ovaj proizvod je izrađen od aluminijskih legura koji se koriste u zrakoplovnoj industriji
	Svetloba	LED svjetlost	LED svjetlost
	Visoka svetilnost	Svjetlost visokog inteziteta	Svjetlost visokog inteziteta
	Število in tip baterije	Broj i tip baterije	Broj i tip baterije
	Delo pod kotom	Kutni rad	Kutni rad
	Dolžina	Dužina	Dužina
	connection points	Točka udruženja	Točka udruženja
	Premer šobe	Promjer mlaznice	Promjer mlaznice
	Visokotlačni	Visokotlačni	Visokotlačni

	Nizkotlačni	Niskotlačni	Niskotlačni
	Energijsko učinkovito, nizkotlačno	Energijsko učinkovito, niskotlačno	Energijsko učinkovito, niskotlačno
	Največja hitrost	Najveća brzina	Najveća brzina
	Rotiranje v desno/ levo	Rotacija u desno/ljevo	Rotacija u desno/ljevo
	Dolžina kabla	Dužina kabela	Dužina kabela
	Varovalo	Osigurač	Osigurač
	Regulator hitrosti	Regulator brzine	Regulator brzine
	Varnostno stikalo	Sigurnosni prekidač	Sigurnosni prekidač
	LCD zaslon	LCD zaslon	LCD zaslon
	LED	LED	LED
	Natančnost merjenja	Točnost mjerenja	Točnost mjerenja
	Delo pod različnimi koti	Rad u različitim kutovima	Rad u različitim kutovima
	Stojalo	Stalak	Stalak
	Rotirajoča glava	Okretna glava	Okretna glava
	5/8 navoj	5/8 navoj	5/8 navoj
	Varnostna očala	Zaštitne naočale	Zaštitne naočale
	Samoniveliranje	Samoniveliranje	Samoniveliranje
	Delovna dolžina	Radna dužina	Radna dužina
	Točkovnik	Pokazivač	Pokazivač
	Gumijasti ročaj	Gumijasta ručka	Gumijasta ručka

	Označevalec tct	Označivač tct	Označivač tct
	Označevalec tct	Označivač tct	Označivač tct
	Wolfram	Wolfram	Wolfram
	Zaponka	Kopča	Kopča
	Kaljena spona	Kaljena stezaljka	Kaljena stezaljka
	Število ključev	Broj ključeva	Broj ključeva
	Pozicija varjenja	Pozicija zavarivanja	Pozicija zavarivanja
	Hitri konektor	Brzi konektor	Brzi konektor
	Največji domet	Najveći raspon	Najveći raspon
	Kot	Kut	Kut
	Varovalo	Osigurač	Osigurač
	Največja napetost	Najveći napon	Najveći napon
	Največja obremenitev	Najveće opterećenje	Najveće opterećenje
	Certificirano na 1.000 v	Certificirano na 1.000 v	1000 v zertifiziert
	Najvišja napetost	Najveći napon	Najveći napon
	Največja moč	Največa snaga	Največa snaga
	Število rezalnih robov	Broj reznih rubova	Broj reznih rubova
	Največji premer	Najveći promjer	Najveći promjer
	Mini brusilnik	Mini brusilica	Mini brusilica
	Kriptonska žarnica	Kriptonska žarulja	Kriptonska žarulja

	MMA/TIG način varjenja	MMA/TIG način zavarivanja	MMA/TIG način zavarivanja
	TIG PULSE funkcija	TIG PULSE funkcija	TIG PULSE funkcija
	MMA varjenje	MMA zavarivanje	MMA zavarivanje
	ARC FORCE funkcija	ARC FORCE funkcija	ARC FORCE funkcija
	HOT AIR funkcija	AIR funkcija	HOT AIR funkcija
	ANTI STICK funkcija	ANTI STICK funkcija	ANTI STICK funkcija
	Funkcija prezračevanja	Funkcija prezračivanja	Funkcija prezračivanja
	MMA elektrode	MMA elektroda	MMA elektroda
	TIG elektrode	TIG elektroda	TIG elektroda
	Uporaba v notranjih prostorih	Unutranja upotreba	Unutranja upotreba
	Možna uporaba zunaj, odporno proti vlagi	Mogućnost vanjske upotrebe. otporno na vlagu	Mogućnost vanjske upotrebe. otporno na kišu i uv zrake
	Možna uporaba zunaj, odporno proti vlagi in uv žarkom	Mogućnost vanjske upotrebe. otporno na kišu i uv zrake	Kann im Freien verwendet werden, resistent gegen Feuchtigkeit und UV-Strahlung
	Uporaba v vseh vremenskih pogojih	Koristi se u svim vremenskim uvjetima	Koristi se u svim vremenskim uvjetima
	Za delo na dežju	Za rad na kiši	Za rad na kiši
	Samolepilno	Samoljepljivo	Samoljepljivo
	Svetilka s snopom	Svjetiljka	Svjetiljka
	Reflektor	Reflektor	Reflektor
	Dvonja svetilka	Dupla lampa	Dupla lampa
	Kljuka	Kuka	Kuka

Za oljne barve in lake	Za uljane boje i lakove	Za uljane boje i lakove
Za akrilne, vodne barve	Za akrilne, vodene boje	Za akrilne, vodene boje
Odstotek delov ščetke z največjo dolžino	Postotak dijeli četke s maksimalnom dužinom	Postotak dijeli četke s maksimalnom dužinom
Trajno črnilo	Trajna tinta	Trajna tinta
Majhen del	Mali dio	Mali dio
Pretvornik namenjen za polnjenje baterij različnih vozil	Pretvarač namijenjen punjenju baterija različitih vozila	Pretvarač namijenjen punjenju baterija različitih vozila
Razpon baterij Ah, za katerega je pretvornik namenjen	Raspon Ah baterija, za koje je pretvarač namijenjen	Domet Ah baterija, za koje je pretvarač namijenjen
Tok polnjenja	Struja punjenja	Struja punjenja
12V vtičnica	12V utičnica	12 V utičnica
Pomoč pri zagonu	Pomoć pri pokretanju	Pomoć pri pokretanju
Za različne površine, kot so suhi les, jeklo, beton	Za različite površine kao što su suho drvo, čelik, beton	Za različite površine kao što su suho drvo, čelik, beton
Garancija za pomanjkljivosti materiala	Jamstvo za materijalne nedostatke	Garancija za materijalne nedostatke
Ekološko proizveden brez topil in v največji meri iz organskih materialov	Ekološki proizvedeni bez otapala i uglavnom iz organskih materijala	Ekološki proizvedeni bez rastvarača i uglavnom iz organskih materijala
Nizka emisija hrupa med uporabo	Niska emisija buke tijekom uporabe	Niska emisija buke tokom korišćenja
Ne vsebuje topil	Ne sadrži otapala	Ne sadrži rastvarače
Prodano se v kolutih	Prodaje se na kalem	Prodaje se na kotur
Maksimalni tlak razprševanja	Maksimalni tlak raspršavanja	Maksimalni pritisak raspršavanja
Odpornost proti torziji	Otpornost na torziju	Otpornost na torziju

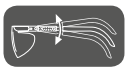
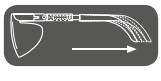
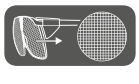
Odpornost na UV sevanje	Otpornost na UV zračenje	Otpornost na UV zračenje
Odpornost na kopičenje alg	Otpornost na nakupljanje algi	Otpornost na nakupljanje algi
Odpornost na visoke in nizke temperature	Otpornost na visoke i niske temperature	Otpornost na visoke i niske temperature
Ne vsebujejo kadmija, barija, svinca, ftalatov	Ne sadrže kadmij, barij, olovo, ftalate	Ne sadrže kadmij, barij, olovo, ftalate
Predvideni čas čakanja	Predviđeno vrijeme čekanja	Predviđeno vrijeme čekanja

Električna orodja | Električni alati | Električni alati

Napetost / frekvenca	Napon / frekvencija	Napon/frekvencija
Izolacijski razred II	Klasa izolacije II	Klasa izolacije II
Dolžina kabla	Dužina kabela	Dužina kabla
Ohišje	Kućište	Kućište
Nazivna napetost	Nazivni napon	Nazivni napon
vrtilni moment	moment vrtnje	Obrtni momenat
Rotacija levo / desno	Rotacije lijevo / desno	Rotacije lijevo/desno
Premer vrtalnika	Promjer bušilice	Prečnik zatezne glave za svrdla
Število stopenj spojke	Broj stupnjeva spojke	Broj stepeni spojnice
Rotacijska hitrost	Brzina vrtnje	Brzina okretanja
Vrsta in število baterij	Vrsta i broj baterija	Vrsta i broj baterija
Okvirni čas polnjenja baterije	Indikativno trajanje punjenja baterije	Indikativno trajanje punjenja baterije
Hitrost pretok zraka	Brzina strujanja zraka	Brzina strujanja vazduha
Delovna dolžina	Radna duljina	Radna dužina

	Razmik med zobniki	Razmak između zubaca	Razmak između zubaca
	Največja debelina rezanja lesa	Maksimalna debljina rezanja drva	Maksimalna debljina rezanja drva
	Največja debelina rezanja kovine	Maksimalna debljina rezanja metala	Maksimalna debljina rezanja metala
	Premer krožne žage	Promjer kružne pile	Prečnik kružne pile
	Laser	Laser	Laser
	Funkcija rezanja	Funkcija rezanja	Funkcija rezanja
	Vrsta nosilca rezila	Tip nosača oštrica	Tip nosača oštrica
	Razpon nastavitev nog	Raspon podešavanja nogu	Domet podešavanja nogu
	Navoj za disk-navoj M14	Navoj za disk-navoj M14	Navoj za montažu diska M14

Osebna varovalna oprema | Osobna zaštitna oprema | Lična zaštitna oprema

CERTYFIKAT CIOP PIB	Izdelek poseduje certifikat Centralnega inštituta za varstvo pri delu - Nacionalni raziskovalni inštitut	Proizvod certificiran od strane Središnjeg instituta za zaštitu rada - Nacionalni istraživački institut	Proizvod certificiran od strane Centralnog instituta za zaštitu na radu - Nacionalni istraživački institut
	Sestava materialov	Sastav materijala	Sastav materijala
	Mere izdelka	Mjere proizvoda	Mjere proizvoda
	Dolžina 130 cm z možnostjo zmanjšanja	Duljina 130cm s mogućnošću smanjenja	Dužina 130 cm s mogućnošću smanjenja
	Dvojni, nastavljivi pritrdilni trak	Dvostruka, podesiva traka za pričvršćivanje	Dvostruka, podesiva traka za pričvršćivanje
	Rokavice z notranjo oblogo iz gume	Rukavice s unutarnjom oblogom od gume	Rukavice s unutrašnjom oblogom od gume
	Prilagoditev navpičnega kota	Vertikalno podešavanje kuta	Vertikalno podešavanje ugla
	Horizontalna nastavitev dolžine	Horizontalno podešavanje duljine	Horizontalno podešavanje dužine
	z dvema obrazoma	s dva lica	Dvostrano
	Jeklena mreža namesto leče	Čelična mreža umjesto leća	Čelična mreža umjesto leća

	Nastavitev širine	Regulacija širine	Regulacija širine
	Prilagoditev širine	Podešavanje širine	Podešavanje širine
	Sistem za enostavna popravila	Sustav za jednostavne popravke	Sistem za jednostavne popravke
	Število prezračevalnih odprtin	Broj ventilacijskih otvora	Broj ventilacijskih otvora
	Filter v čeladi lahko odstranite	Filter u kacigi se može ukloniti	Filter u kacigi, koji se može zamijeniti
	Nastavitve občutljivosti in zakasnitve	Podešavanje osjetljivosti i odgode	Podešavanje osjetljivosti i odgode
	Nastavitev barvnega razpona	Podešavanje raspona boja	Podešavanje dometa boja
	Območje barv in velikost filtra	Raspon boja i veličina filtra	Domet boja i veličina filtra
	UV / IR zaščita	UV / IR zaštita	UV/IR zaštita
	Število svetlobnih senzorjev	Broj senzora svjetla	Broj senzora svjetla
	Testiranje filtra	Ispitivanje filtra	Ispitivanje filtra
	Samodejni vklop / izklop	Automatsko uključivanje / isključivanje	Automatsko uključivanje/ isključivanje
	Solarni akumulator	Solarni akumulator	Solarni akumulator
	Litijeva baterija	Litijska baterija	Litijska baterija
	Nastavitev pokrivala za glavo	Podešavanje pokrivala za glavu	Podešavanje pokrivača za glavu
	Optični razred	Optička klasa	Optička klasa
	Prilagoditev obsega barve	Podešavanje raspona boje	Podešavanje dometa boje
	Prilagajanje občutljivosti	Podešavanje osjetljivosti	Podešavanje osjetljivosti
	Nastavitev zakasnitve	Podešavanje odgode	Podešavanje odgode
	Višina zaščitnega stekla	Visina zaštitnog stakla	Visina zaštitnog stakla

Za delovanje pri nizkih temperaturah	Za rad pri niskim temperaturama	Za rad pri niskim temperaturama
Odsevni material	Reflektirajući materijal	Reflektirajući materijal
Ojačan na dlaneh in prstih	Ojačani na dlanu i prstima	Pojačani na dlanu i prstima
Ojačan na dlaneh in prstih	Ojačani na dlanu i prstima	Pojačani na dlanu i prstima
Nedrseča silikonska mreža	Neklizajuća silikonska mreža	Neklizajuća silikonska mreža
Mehka podlaga na dlani	Mekana podloga na dlanu	Mekana podloga na dlanu
Odsevni elementi	Reflektirajući elementi	Reflektirajući elementi
Material visoke vidljivosti	Materijal visoke vidljivosti	Materijal visoke vidljivosti
Rokavice z odprtinami na vrhu prstov	Rukavice s otvorenim vrhovima prstiju	Rukavice s otvorenim vrhovima prstiju
Antivibracijske rokavice	Antivibracijske rukavice	Antivibracijske rukavice
Antistatične rokavice	Antistatičke rukavice	Antistatičke rukavice
Maksimalna odpornost na ureznine z rezilom (odpornost na ravni 5)	Najveća otpornost na porezotine oštricom (otpornost na razini 5)	Najveća otpornost na posjekotine oštricom (otpornost na nivou 5)
Visoka vidljivost	Visoka vidljivost	Visoka vidljivost
Zaščita pred nizkimu temperaturami (do -50 ° C)	Zaštita od niske temperature (do -50 ° C)	Zaštita od niske temperature (do -50° C)
Prenos vlage	Prijenos vlage	Prenos vlage
Odsevni elementi	Reflektirajući elementi	Reflektirajući elementi
Raztezljivi vložki "4-smerna elastičnost" razteznost v 4 smereh	Rastezljivi umetci "4-smjerna elastičnost" rastezljivost u 4 smjera	Rastezljivi umetci "4-smjerna elastičnost" rastezljivost u 4 smjera
Anti-drsni trak v pasu	Anti-klizna traka u struku	Anti-klizna traka u struku

Prilagoditev širine v pasu s posebno konstrukcijo z elastičnim trakom	Podešavanje širine u struku pomoću posebne konstrukcije s elastičnom trakom	Podešavanje širine u struku pomoću posebne konstrukcije s elastičnom trakom
Elastični material z raztezanjem	Elastični materijal s rastezanjem	Elastični rastezljivi materijal
Elektromagnetna zaščita pred sevanjem	Zaštita od elektromagnetskog zračenja	Zaštita od elektromagnetnog zračenja
Število žepov	Broj džepova	Broj džepova
Žepi ščitnika za kolena	Džepovi štitnika za koljena	Džepovi štitnika za koljena
Anti-piling	Anti piling	Anti piling
Mehka udobnost	Mekana udobnost	Mekana udobnost
Prstenasto preden bombaž	Prstenasto ispredeni pamuk	Prstenasto ispredeni pamuk
Vodoodporen	Vodootporan	Vodootporan
zračen	prozračan	Prozračan
termalni	termalni	Termalni
Material, ki prenaša vlago	Materijal koji prenosi vlagu	Materijal koji prenosi vlagu
Vetrovka	Vjetrovka	Vjetrovka
Vodoodporni material	Materijal otporan na vodu	Materijal otporan na vodu
Material odporen na trganje	Materijal otporan na trganje	Materijal otporan na trganje
Lahki material	Lagani materijal	Lagani materijal
Izdelano iz polivinilklorida	Izrađeno od polivinil klorida	Izrađeno od polivinil hlorida
Izdelan iz lateksa	Izrađeno od lateksa	Izrađeno od lateksa
Izdelano iz nitrila	Izrađeno od nitrila	Izrađeno od nitrila

EVA LATEX TPR	Izdelano iz EVA, lateksa in TPR-ja	Izrađeno od EVA, lateksa i TPR-a	Izrađeno od EVA, lateksa i TPR-a
EVA LATEX	Izdelano iz EVA in lateksa	Izrađeno od EVA i lateksa	Izrađeno od EVA i lateksa
PU	Izdelan iz poliuretana	Izrađen od poliuretana	Izrađen od poliuretana
NON-SLIP SURFACE	Premazano s sredstvom proti drsenju	Premazano sredstvom protiv klizanja	Premazano sredstvom protiv klizanja
EXTRA THICK ACRYLIC PADDING	Zelo debela akrilna obloga	Vrlo debela akrilna podstava	Vrlo debela akrilna podstava
UV	UV filter	UV filtar	UV filter
267 g/m²	Teža na kvadratni meter	Težina po kvadratnom metru	Težina po kvadratnom metru
SPF SUN PROTECTIVE FACTOR	Zaščitni faktor pred soncem	Faktor zaštite od sunca	Faktor zaštite od sunca
F MECHANICAL RESISTANCE	Razred mehanske trajnosti	Klasa mehaničke trajnosti	Klasa mehaničke trajnosti
ANTI-SCRATCH	Odpornost na praske	Otpornost na ogrebotine	Otpornost na ogrebotine
ANTI-FOG	Odpornost na zameglitev	Otpornost na zamagljivanje	Otpornost na zamagljivanje
55°C -5°C EXTREME TEMPERATURE RESISTANCE	Zagotovljena mehanska odpornost od -5 ° C ± 2 ° C	Zajamčena mehanička otpornost od -5 ° C ± 2 ° C	Zagarantovana mehanička otpornost od -5° C ± 2° C
FFP1	Mehanska odpornost	Mehanička otpornost	Mehanička otpornost
CLASS 1	Razred vidljivosti	Klasa vidljivosti	Klasa vidljivosti
SNR: 28dB	Indeks blaženja hrupa	Indeks prigušenja buke	Indeks prigušenja buke
EN 388 2123x	Izdelek v skladu z normo EN 388	Proizvod u skladu s normom EN 388	Proizvod u skladu sa standardom EN 388
Kat. I Cat. I	Osebna zaščitna oprema Kat. I	Oprema za osobnu zaštitu Kat. I	Oprema za ličnu zaštitu Kat. I
C W H	H - višina, C - širina prsnega koša, W - širina pasu	H - Visina, C - Širina prsiju, W - Širina struka	"H- Visina C-Širina prsa W-Širina struka"
	Peta je prekrita	Peta je prekrivena	Prekrivena peta

	Antistatična obutev	Antistatička obuća	Antistatička obuća
	Absorpcija energije v območju pete	Apsorpcija energije u području pete	Apsorpcija energije u području pete
	Omejena propustnost in absorpcija vode	Ograničena propusnost i upijanje vode	Ograničena propusnost i upijanje vode
	Odpornost na vrtanje 1100N, trpežen podplat	Otpornost na bušenje 1100N, izdržljiv potplat	Otpornost na bušenje 1100N, izdržljiv đon
	Odpornost na vrtanje 1100N	Otpornost na bušenje od 1100N	Otpornost na bušenje od 1100N
	Odpornost na kurilno olje	Otpornost na loživo ulje	Otpornost na loživo ulje
SRA	Odpornost proti zdrsu na keramični površini	Otpornost na klizanje na keramičkoj površini	Otpornost na klizanje na keramičkoj površini
SRC	Odpornost proti zdrsu na jekleni in keramični površini	Otpornost na klizanje na čeličnoj i keramičkoj površini	Otpornost na klizanje na čeličnoj i keramičkoj površini
C	Kompozitni ščitnik za prste - ščiti pred udarom energije 200J	Kompozitna štitnik za prste - štiti od udara energije od 200J	Kompozitni štitnik za prste - štiti od udara energije od 200J
S	Jekleni ščitnik za prste - ščiti pred udarom energije 200J	Čelični štitnik za prste - štiti od udara energije od 200J	Čelični štitnik za prste - štiti od udara energije od 200J
NO TOE CAP	Brez ščitnika za palec	Nema štitnik za palac	Bez štitnika za palac
METAL FREE	Brez kovin	Bez metala	Bez metala
RUBBER	Gumijast podplat	Gumeni potplat	Gumeni đon
PU/PU	Dvojni poliuretanski podplat	Dvojni poliuretanski potplat	Dvojni poliuretanski đon
PU	Homogeni poliuretanski podplat	Homogeni poliuretanski potplat	Homogeni poliuretanski đon
HRO 300°C HEAT RESISTANCE	Odpornost na visoke temperature pri kratkotrajnem stiku (do 300 ° C / 1 min)	Otpornost na visoku temperaturu u kratkotrajnom kontaktu (do 300 ° C / 1min)	Otpornost na visoku temperaturu u kratkotrajnom kontaktu (do 300° C/1 min)
	Izdelano iz usnja	Kožna izrada	Kožna izrada

	Izdelano iz visoko kvalitetnega usnja	Izrađeno iz kože visoke kvalitete	Ozrađeno iz kože visoke kvalitete
	Polnilo in vložek iz usnja	Punjenje i uložak iz kože	Punjenje i uložak iz kože
	Antistatična obutev	Antistatička obuča	Antistatička obuča
	Ergonomska peta	Ergonomska peta	Ergonomska peta
	Odporno na olja	Otporno na ulje	Otporno na ulje
	Obutev iz plastike, vodoodporno	Obuća iz plastike, vodootporna	Obuća iz plastike, vodootporna
	Peta z varovalom	Osigurana peta	Osigurana peta
	Odporno proti zdrsom na keramičnih površinah	Otporno protiv klizenju na keramični površini	Otporno protiv klizenju na keramični površini
	Odporno proti zdrsom na keramičnih in kovinskih površinah	Replace with otporno protiv klizenju na keramični i metalni površini	Otporno protiv klizenju na keramični i metalni površini
	Dežni škornji	Kišne čizme	Kišne čizme
	Zunanji del izdelan iz visoko kvalitetne gume	Vanjski dio izrađen od visoko kvalitetne gume	Vanjski dio izrađen od visoko kvalitetne gume
	Najmanjša prodajna enota - 10 parov	Minimalna prodajna jedinica 10 pari	Minimalna prodajna jedinica 10 pari
	Najmanjša prodajna enota - 10 parov	Minimalna prodajna jedinica 10 pari	Minimalna prodajna jedinica 10 pari

PROLINE®









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Proline je najprepoznavnejši poljski proizvajalec ročnih orodij *. Celo 75% tistih, ki so glasovali za Proline na Laurel 2018 potrošniški nagradi, trdijo, da bi priporočili izdelke Proline svojim prijateljem. Zahvaljujoč tako dobremu mnenju kupcev, je Proline Tools prejel nagrado Silver Laurel za kategorijo ročnega orodja v letu 2018, drugo leto zapored. V letu 2019 je Proline prejel zlato plaketo Gold Consumer's Laurel v kategoriji ročnega orodja. Odlikujejo ga trajnost in zelo dobra profesionalna kakovost. Treba je omeniti, da so bila prva orodja blagovne znamke Proline prodana na Poljskem leta 1997. Prvi izdelki so bili soft-touch izvijači. V naslednjih dvajsetih letih se je ponudba Proline uspešno razširila. Danes obsega skoraj 5000 visoko kakovostnih izdelkov, ki razveseljujejo tako mojstre kot tudi tiste, ki se z orodjem srečujejo doma. Ni druge poljske znamke orodij, ki bi se lahko pohvalila s tako širokim spektrom izdelkov. Ob izbiri izdelka Proline končni uporabnik dobi izdelek najvišje kakovosti, kar pomeni, da se lahko vse vrste del opravijo hitreje in enostavneje. Lastniki trgovin imajo z izbiro asortimenta Proline dostop do široke palete izdelkov, lahko sodelujejo v posebnih akcijah za podporo pri prodaji s številnimi možnostmi usposabljanja ter se pridružijo edinstvenemu programu zvestobe Voyager.

* Po podatkih, zbranih v sklopu potrošniške nagrade Laurel za leto 2018.



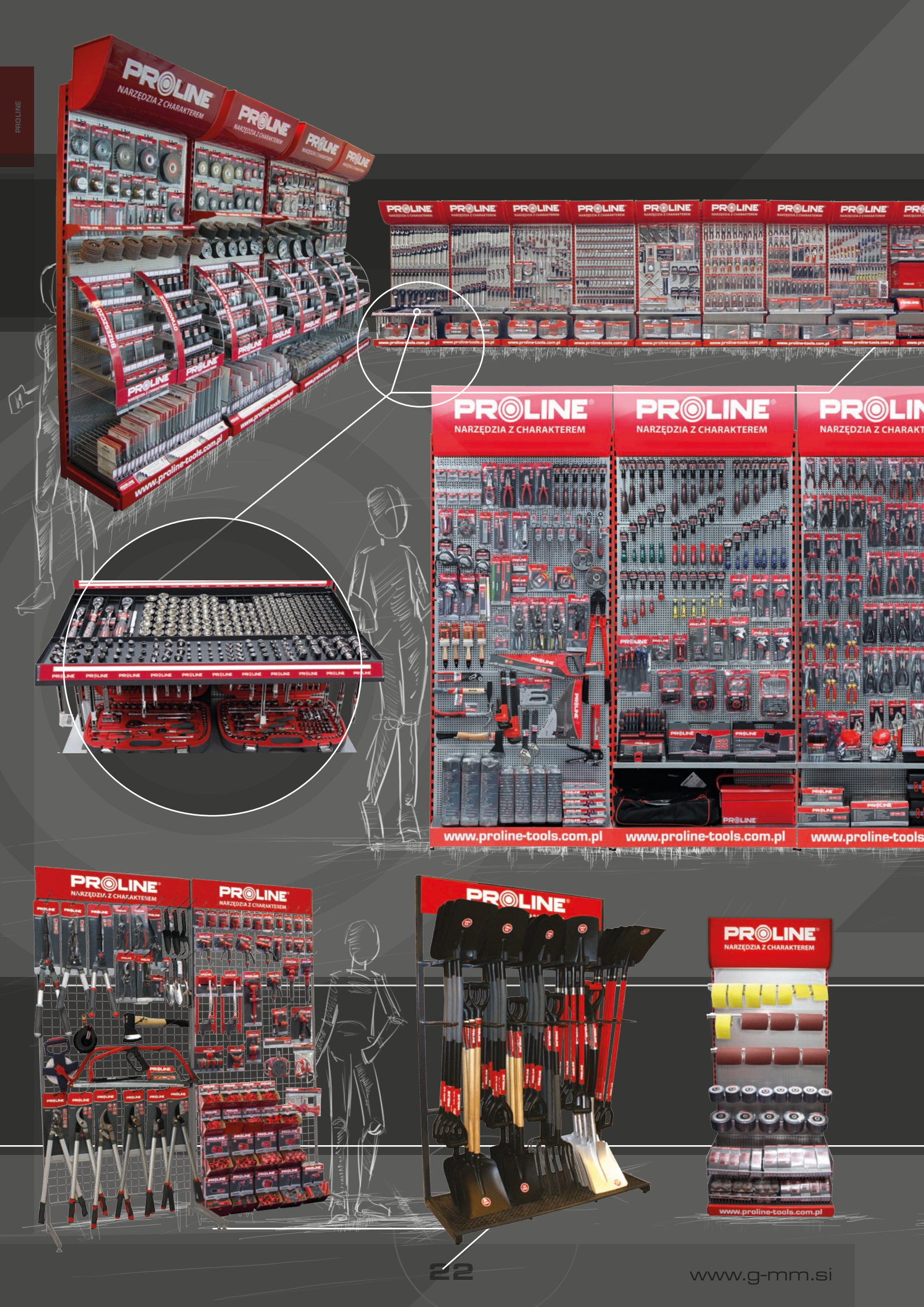
Proline je najprepoznatljiviji poljski proizvođač ručnog alata *. Čak 75 % onih koji su glasovali za Proline u Potrošačkoj Nagradi Laurel 2018 tvrde da bi preporučili Proline proizvode svojim prijateljima. Zahvaljujući tako dobrom mišljenju kupaca, Proline alati nagrađeni su Srebrnom Laurel nagradom u kategoriji ručnih alata u 2018., drugu godinu zaredom. U 2019. Godini Proline je dobio zlatnu plaketu Gold Customer's Laurel u kategoriji ručnog alata. Odlikuje ih njihova trajnost i vrlo dobra, profesionalna kvaliteta. Vrijedi spomenuti da su prvi proizvedeni alati pod brendom Proline pušteni u prodaju za poljske kupce još u 1997. godini. Prvi su proizvodi bili soft-touch odvijači. Tijekom slijedećih dvadeset godina, Proline ponuda je uspješno proširena. Danas broji gotovo 5000 proizvoda visoke kvalitete i uspješno zadovoljava potrebe profesionalaca kojima je potreban alat i potrebe svih onih koji samostalno obavljaju popravke i nadogradnje. Nema druge poljske marke alata koja se može pohvaliti tako širokim spektrom proizvoda. Pri odabiru Proline proizvoda, krajnji korisnik dobiva proizvod najviše kvalitete, što znači sve se vrste posla mogu obavljati brže i jednostavnije. Vlasnici trgovine odabirom Proline asortimana dobivaju pristup širokom rasponu proizvoda, mogu sudjelovati u posebne kampanjama podrške za prodaju s brojnim mogućnostima obuke, kao i pridružiti se jedinstvenom Voyager programu vjernosti.

* Prema podacima prikupljenim u sklopu Potrošačke Laurel Nagrade 2018. godine.

Proline je najprepoznatljiviji poljski proizvođač ručnog alata*. Čak 75 % onih koji su glasali za Proline u Potrošačkoj Nagradi Laurel 2018 tvrde da bi preporučili Proline proizvode svojim prijateljima. U 2019. Godini Proline je dobio zlatnu plaketu Gold Customer's Laurel u kategoriji ručnog alata. Ono što su krajnji korisnici izjavili potvrđuje da Proline proizvodi olakšavaju obavljanje posla različitih težina. Odlikuje ih njihova trajnost i vrlo dobar, profesionalni kvalitet. Vrijedi spomenuti da su prvi proizvedeni alati pod brendom Proline pušteni u prodaju za poljske kupce još 1997. godine. Prvi su proizvodi bili soft-touch odvijači. Tokom sljedećih dvadeset godina, Proline ponuda je uspješno proširena. Danas broji gotovo 5.000 proizvoda visokog kvaliteta i uspješno zadovoljava potrebe profesionalaca kojima je potreban alat i potrebe svih onih koji samostalno obavljaju popravke i nadogradnje. Nema druge poljske marke alata koja se može pohvaliti tako širokim spektrom proizvoda. Pri izboru Proline proizvoda, krajnji korisnik dobiva proizvod najvećeg kvaliteta, što znači sve se vrste posla mogu obavljati brže i jednostavnije. Vlasnici trgovine odabirom Proline asortimana dobivaju pristup širokom rasponu proizvoda, mogu sudjelovati u posebnim kampanjama podrške za prodaju s brojnim mogućnostima obuke, kao i pridružiti se jedinstvenom Voyager programu vjernosti.

* Prema podacima prikupljenim u sklopu Potrošačke Laurel Nagrade 2018. godine.


PRO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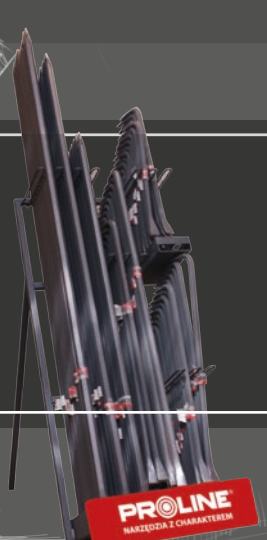
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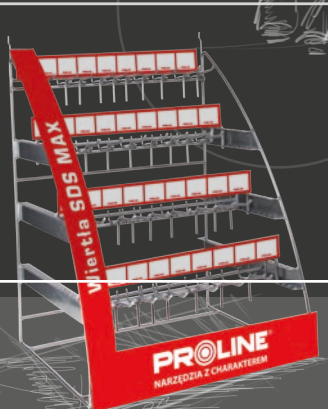

Wiertła SDS MAX
PROLINE
NARZĘDZIA Z CHARAKTEREM

MEHANIČNO ORODJE IN PRIBOR/ MEHANIČKI ALAT I PRIBOR





nastavki/bitovi

vozički/kolica za alat

predali/ladice

rezalniki/rezači

diagnostični seti/diagnostički komplet

dvigalke/dizalice

svetilke/svjetiljke

klešče/kliješta

odstranjevalci/ odstranjivači

raglje/račne

separatorji/separatori

izvijači/odvijači

nasadni ključi/nasadni ključevi

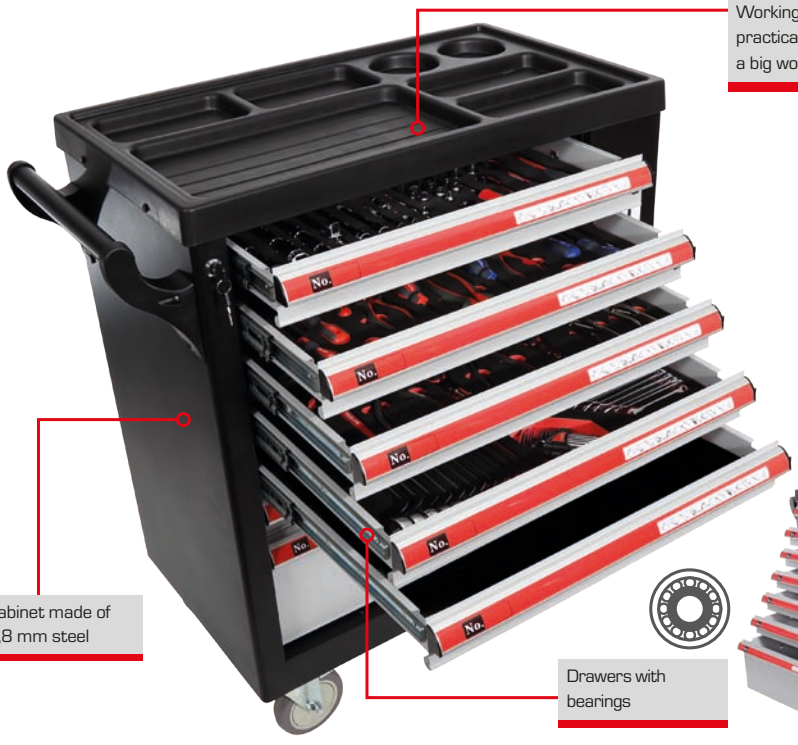
ključi/ključevi

set orodja/set alata

ostalo/ostalo

1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 250 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 250 KOM. ALATA • KOLICA ZA ALAT 7 LADICA 250 KOM. ALATA



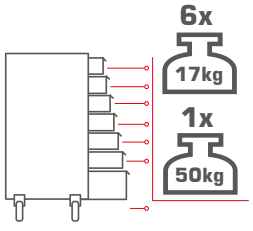

Central lock


Wheel brake


Drawer lock







DRAWER I


587192

• 1/4": (18104-18113) • 1/4" L=50 mm (18121), L=100 mm (18123) • 1/4" (18160) • 1/4" L=115 mm (18162) • (18161) • 1/4" L=145 mm (18178) • 3/8": (18306-18322) • 3/8"' L=150 mm (18343), L=250 mm (18344) • 3/8" (18350) • 1/2" 3/8" (18368) • 3/8" L=200 mm (18378) • 1/2": (18508-18532) • 1/2" 16 mm (18546), 21 mm (18547) • 3/8"' L=125 mm (18552), L=250 mm (18553) • 1/2" (18556) • 3/8" 1/2" (18568) • 1/2" L=250 mm (18578) • 1/2" L=250 mm (18582) • 1/2" (18610-18624) • 1/2" HEX (18644-18652) • 1/2" TORX (18657-18669)

DRAWER II


587194

• 6-32 mm (35606-35632) • 6x7mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32mm (36030) • 9 pcs. Torx spanner set Torx T10-T50 (48339)

DRAWER III


587196

• Screwdrivers: Phillips nr 000 L=63 mm (10080), nr 00 L=63 mm (10081), nr 0 L=75 mm (10161), nr 1 L=100 mm (10162), nr 2 L=100 mm (10163), nr 2 L=150 mm (10164), nr 3 L=150 mm (10165), nr 4 L=200 mm (10167), nr 2 L=38 mm (10168); Flat 6x38 mm (10150), 2.5x63 mm (10151), 3.2x75 mm (10152), 5x100 mm (10153), 5x150 mm (10154), 6x150 mm (10155), 8x150 mm (10156), 3.2x100 mm (10158); Torx with opening T10x100 mm (10190), T15x100 mm (10191), T20x100 mm (10192), T25x100 mm (10193), T27x100 mm (10194), T30x100 mm (10195); T40x100 mm (10196) • Pliers: Combination 160 mm (28750); Side-cutting 160 mm (28760), End-cutting 160 mm (28765), Snipe-nose 160 mm (28770), Flat-nose 160 mm (28772)

DRAWER IV


587198

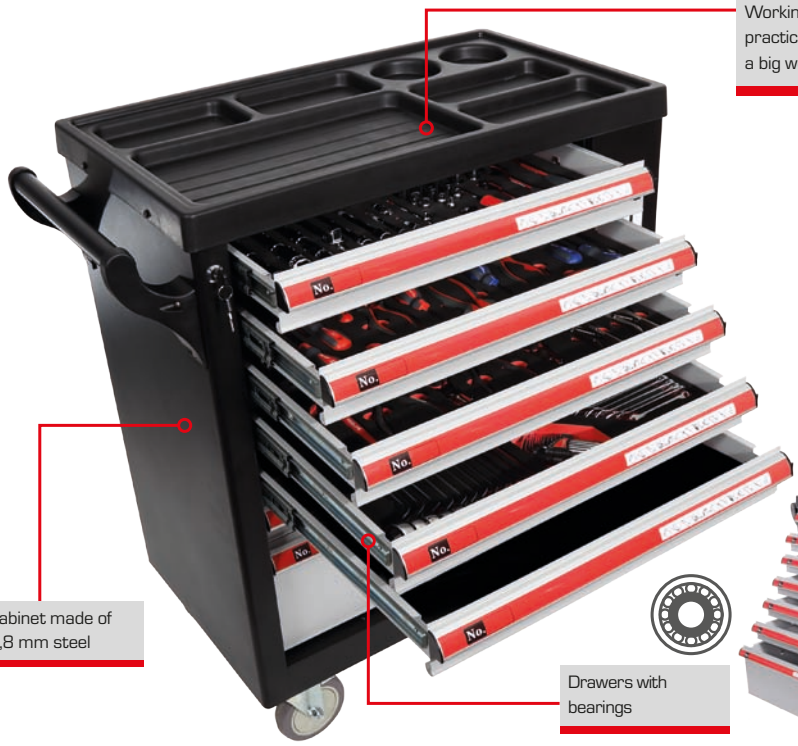
• Electrical probe (10544) • 1/4" L=50 mm • 1/4" 1/4" (10607), 3/8" 1/4" (10608), 1/2" 1/4" (10609) • 1/4" L=25 mm PH 0, 1, 2, 3; L=50 mm PH 1, 2, 3 L=25 mm PZ 0, 1, 2, 3, L=50 mm PZ 1, 2, 3 L=25 mm 4.5x0.5 mm, 5.5x0.8 mm, 6.5x1.2 mm, 8x1.6 mm TORX L=25 mm T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm Torx with opening T6, T7, T8, T9; T10, T15; T20, T25, T27, T30, T40 L=25 mm HEX 3, 4, 5, 6 mm; Two-sided - PH 1/2 L=50 mm; PH2/PZ2 L=50 mm; PZ 1/2 L=50 mm
• Blind rivet riveter (14007) • Curved-jaw locking pliers 180 mm (28214) • Straight-jaw locking pliers 180 mm (28240)
• Adjustable pipe pliers 250 mm (28580) • Pliers for circlips 150 mm: external-straight (28615), internal-straight (28625), external-bent (28635), internal bent(28645) • Pocket knife (30078) • Blades (31005) • Inspection probe set (46979)
• Hex wrench set 9 pcs. 1.5-10 mm (48309)

Code	Dimensions (mm)	Amount included (pcs.)	
33130	790X490X1010	cabinet with 250 pcs. PROLINE equipment	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 206 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA



Working top is a practical organizer with a big working space

Cabinet made of 0,8 mm steel

Drawers with bearings



Central lock



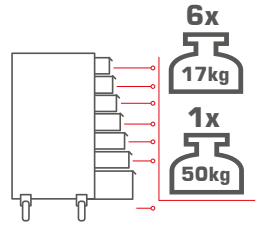
Wheel brake



Drawer lock

x2





DRAWER I



58782



58784



58724

58782 • 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

58784 • 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765



58780

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58780 • 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030) • Hex wrench set (48309)

DRAWER III



58733



58737



58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761



58763



58795

58761 • Pliers combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793



58727



58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

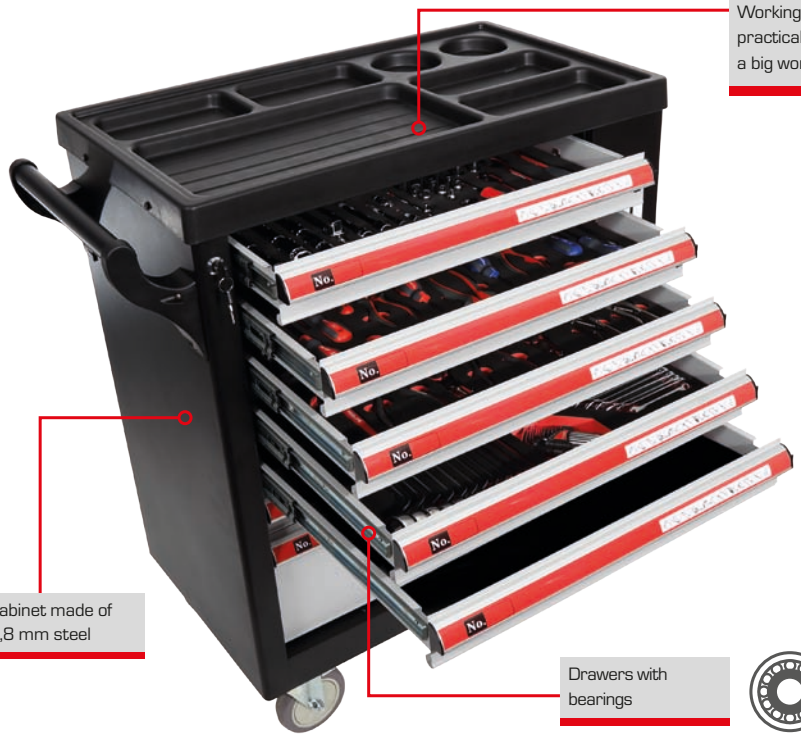
58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33129	790X490X1010	PROLINE HD cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 206 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA



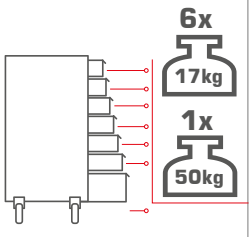



Central lock


Wheel brake


Drawer lock





DRAWER I


58781


58783


58724

58781 • 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58765


58779

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex wrench set (48309)

DRAWER III


58733


58737


58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV


58761


58763


58795

58761 • Pliers combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V


58793


58727


58797

58793 • File set (32265)

58727 • Machinist hammer 500 g (12605) • Rubber hammer 340 g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

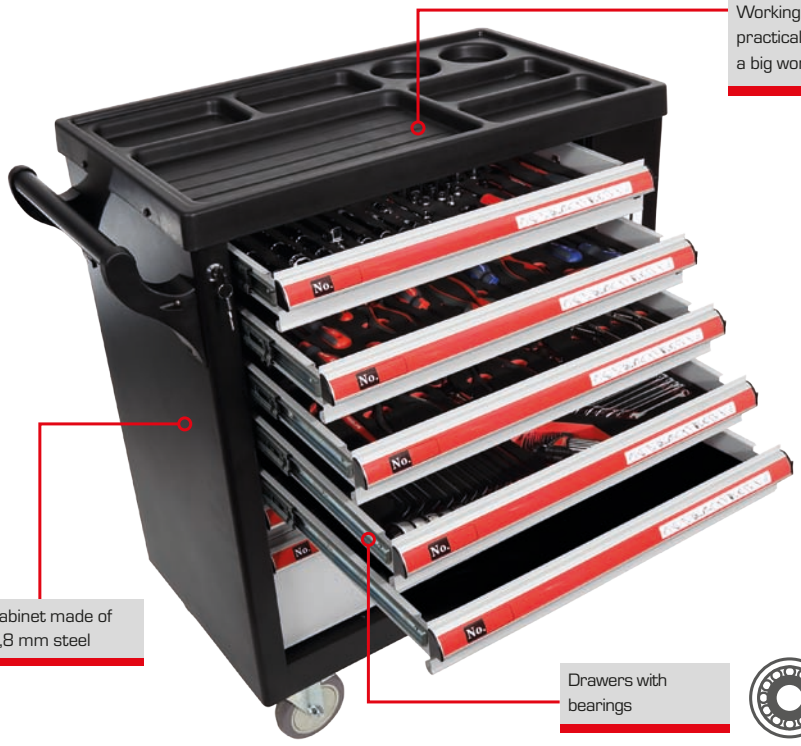
58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33128	790X490X1010	PROLINE cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 211 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 211 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 211 KOM. ALATA



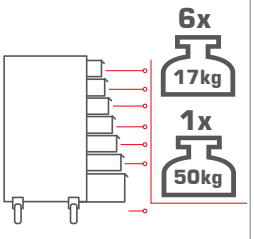



Central lock


Wheel brake


Drawer lock





DRAWER I


58765


58783


58724

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58733


58737


58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER III


58761


58763


58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER IV


58793


58727


58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Additional equipment:

35701 • Organiser
48308 • HEX wrench set 9 pcs.
48339 • Set of TORX wrenches 9 pcs.
30082 • Scissors
10582 • Electrical probe

Code	Dimensions (mm)	Amount included (pcs.)	
33131	790X490X1010	PROLINE cabinet with equipment, 211 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 250 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 250 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 250 KOM. ALATA

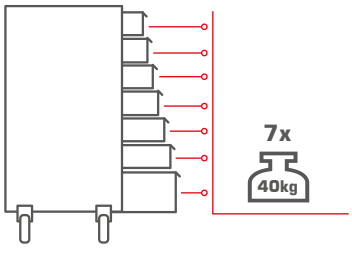



Central lock

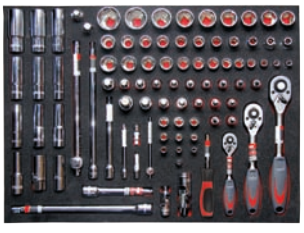

Wheel brake


Drawer lock

x2



DRAWER I


587192

• 1/4": (18104-18113) • 1/4" L=50 mm (18121), L=100 mm (18123) • 1/4" (18160) • 1/4" L=115 mm (18162) • (18161) • 1/4" L=145 mm (18178) • 3/8": (18306-18322) • 3/8"' L=150 mm (18343), L=250 mm (18344) • 3/8" (18350) • 1/2" 3/8" (18368) • 3/8" L=200 mm (18378) • 1/2": (18508-18532) • 1/2" 16 mm (18546), 21 mm (18547) • 3/8"' L=125 mm (18552), L=250 mm (18553) • 1/2" (18556) • 3/8" 1/2" (18568) • 1/2" L=250 mm (18578) • 1/2" L=250 mm (18582) • 1/2" (18610-18624) • 1/2" HEX (18644-18652) • 1/2" TORX (18657-18669)

DRAWER II


587194

• 6-32 mm (35606-35632) • 6x7mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32mm (36030) • 9 pcs. Torx spanner set Torx T10-T50 (48339)

DRAWER III


587196

• Screwdrivers: Phillips nr 000 L=63 mm (10080), nr 00 L=63 mm (10081), nr 0 L=75 mm (10161), nr 1 L=100 mm (10162), nr 2 L=100 mm (10163), nr 2 L=150 mm (10164), nr 3 L=150 mm (10165), nr 4 L=200 mm (10167), nr 2 L=38 mm (10168); Flat 6x38 mm (10150), 2.5x63 mm (10151), 3.2x75 mm (10152), 5x100 mm (10153), 5x150 mm (10154), 6x150 mm (10155), 8x150 mm (10156), 3.2x100 mm (10158); Torx with opening T10x100 mm (10190), T15x100 mm (10191), T20x100 mm (10192), T25x100 mm (10193), T27x100 mm (10194), T30x100 mm (10195); T40x100 mm (10196) • Pliers: Combination 160 mm (28750); Side-cutting 160 mm (28760), End-cutting 160 mm (28765), Snipe-nose 160 mm (28770), Flat-nose 160 mm (28772)

DRAWER IV


587198

• Electrical probe (10544) • 1/4" L=50 mm • 1/4" 1/4" (10607), 3/8" 1/4" (10608), 1/2" 1/4" (10609) • 1/4" L=25 mm PH 0, 1, 2, 3; L=50 mm PH 1, 2, 3 L=25 mm PZ 0, 1, 2, 3, L=50 mm PZ 1, 2, 3 L=25 mm 4.5x0.5 mm, 5.5x0.8 mm, 6.5x1.2 mm, 8x1.6 mm TORX L=25 mm T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm Torx with opening T6, T7, T8, T9; T10, T15; T20, T25, T27, T30, T40 L=25 mm HEX 3, 4, 5, 6 mm; Two-sided - PH 1/2 L=50 mm; PH2/PZ2 L=50 mm; PZ 1/2 L=50 mm
• Blind rivet riveter (14007) • Curved-jaw locking pliers 180 mm (28214) • Straight-jaw locking pliers 180 mm (28240) • Adjustable pipe pliers 250 mm (28580) • Pliers for circlips 150 mm: external-straight (28615), internal-straight (28625), external-bent (28635), internal bent(28645) • Pocket knife (30078) • Blades (31005) • Inspection probe set (46979)
• Hex wrench set 9 pcs. 1.5-10 mm (48309)

Code	Dimensions (mm)	Amount included (pcs.)	
33119	706 x 450 x 950	cabinet with 250 pcs. PROLINE equipment	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

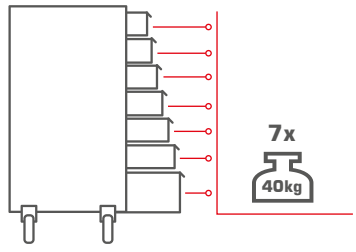
1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 206 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA





x2



DRAWER I



58782 58784 58724

58782 • 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

58784 • 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765 58780

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58780 • 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030) • Hex wrench set (48309)

DRAWER III



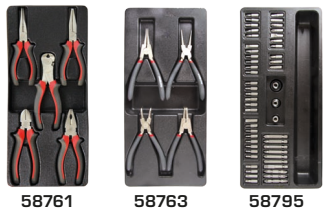
58733 58737 58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761 58763 58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793 58727 58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33114	706 x 450 x 950	PROLINE HD cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

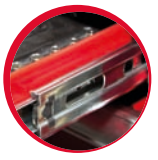
1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 206 KOS ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 206 KOM. ALATA

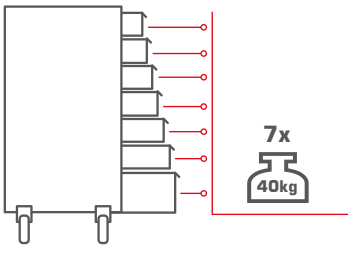



Central lock


Wheel brake


Drawer lock





DRAWER I


58781


58783


58724

58781 • 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58765


58779

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex wrench set (48309)

DRAWER III


58733


58737


58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV


58761


58763


58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V


58793


58727


58797

58793 • File set (32265)

58727 • Machinist hammer 500 g (12605) • Rubber hammer 340 g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33113	706 x 450 x 950	PROLINE cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

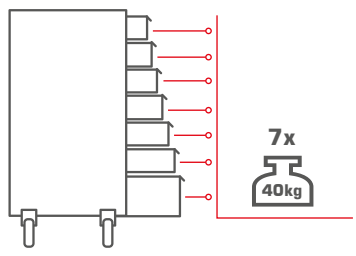
1 VOZIČEK ZA ORODJE, 7 PREDALOV Z 211 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 7 LADICA SA 211 KOM. ALATA • KOLICA ZA ALAT 7 LADICA SA 211 KOM. ALATA





x2



DRAWER I


58765


58783


58724

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58733


58737


58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER III


58761


58763


58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER IV


58793


58727


58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Additional equipment:

35701 • Organiser
48309 • HEX wrench set 9 pcs.
48339 • Set of TORX wrenches 9 pcs.
30082 • Scissors
10582 • Electrical probe

Code	Dimensions (mm)	Amount included (pcs.)	
33115	706 x 450 x 950	PROLINE HD cabinet with equipment, 211 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 5 PREDALOV Z 193 KOSI ROČNEGA ORODJA

• KOLICA ZA ALAT 5 LADICA SA 193 KOM. ALATA • KOLICA ZA ALAT 5 LADICA SA 193 KOM. ALATA

33117
(6 DRAWERS)

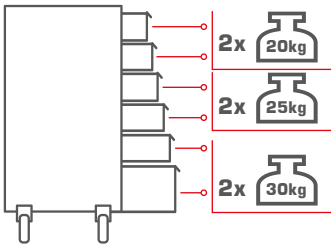



Central lock

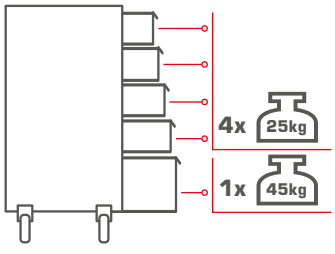

Wheel brake

x2

33117



33116



DRAWER I


58763


58765


58724

58763 • Circlip pliers: • External curved 150 mm (28635) • Internal curved 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58765 • 1/4" 145 mm (18181) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18168) • Knife (00078) • Blades (31005)

58724 • 1/2" L=245 mm (18281) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58727


58729


58731

58727 • Machinist's hammer 500g (12605) • Rubber mallet 340g (12022) • Diamond needle files, set of 5 (32015) • Marking-off scriber (31382)

58729 • Pliers: All-purpose 160mm (28700) • Diagonal side 160mm (28710) • Snipe nose 160mm (28720) • Flat nose 160mm (28722) • Automatic wire stripper (28486)

58731 • Screwdrivers: 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • PH1x100 mm (10162) • PH2x100 mm (10163) • PH3x150 mm (10165) • PZ1x100 mm (10172) • PZ2x100 mm (10176)

DRAWER III


58783


58779

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex spanner set (48309)

DRAWER IV


58787


58795


58797

58787 • HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652) • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) • Flashlight (51019)

58795 • 1/4", 3/8", 1/2" • • 25mm 4.5, 5.5, 6.5, 8.0 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm Torx T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm Torx Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 • PH 50 mm 1, 2, 3 50 mm PZ 1, 2, 3 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

58797 • Parallel punch set (31361)

Code	Dimensions (mm)	Number of drawers	Amount included (pcs.)	
33116	688 x 458 x 735	5	cabinet with equipment PROLINE 193 pcs.	1
33117	688 x 458 x 735	6	cabinet with equipment PROLINE 193 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 VOZIČEK ZA ORODJE, 7 PREDALOV

• KOLICA ZA ALAT 7 LADICA BEZ ALATA • KOLICA ZA ALAT 7 LADICA BEZ ALATA

- Cabinet made of sheet steel 0.8 mm thick
- Seven versatile drawers allow the necessary tools and accessories to be stored in an orderly manner.
- Practical side storage locker with a key can hold larger accessories, tools, power tools.
- Wheels mounted on ball bearings mean moving a completely loaded cabinet trouble-free, while a steerable pair of wheels makes maneuvering easier.
- The parking brake eliminates the possibility of the cabinet moving without user intervention, allows it to be stably immobilised
- Ball-bearing guides used for the drawers facilitate their opening
- The central lock allows all drawers to be closed with a turn of the key
- Maximum load of drawers: 6 x 17 kg; 1 x 50 kg
- To increase comfort of use, each drawer offers protection against self-opening
- The worktop is made of high quality plastic and has the form of a practical organiser with a large working surface. The contoured spaces for containers holding operating fluids are very practical.



Central lock



Wheel brake



Drawer lock

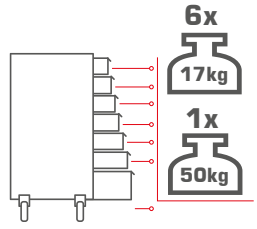












- 6 drawers with dimensions of 53 x 40 cm and a depth of 5.5 cm
- 1 drawer with dimensions of 53 x 40 cm and a depth of 20 cm
- Storage with dimensions: 12.5 x 32 and a height of 70 cm with a practical shelf mounted at half height

Code	Dimensions (mm)	Number of drawers	
33127	790 x 490 x 1010	7	1

1 VOZIČEK ZA ORODJE, 7 PREDALOV

• KOLICA ZA ALAT 7 LADICA BEZ ALATA • KOLICA ZA ALAT 7 LADICA BEZ ALATA

Seven universal drawers helps to store your tools and accessories in an orderly fashion

- Wheels on ball bearings make it easy to move even fully loaded cabinet and the pair of turning wheels facilitates maneuvers
- Cabinet wheels can be locked with two brakes
- Ball slides which the drawers move on facilitate their opening
- Additionally, the central lock in a side wall enables to lock all drawers with a single key turning
- Maximum drawer load is 40 kg thanks to which you can store many tools and accessories in your cabinet
- To improve comfort of use, each drawer is protected from spontaneous opening
- Worktop is covered with a rubber lining and the tools situated on it do not displace spontaneously during transport
- The lining protects the cabinet from damage - the same is done by the corners protected with rubber TPR panels



- 5 drawers with dimensions of 53 x 40 cm and a depth of 8 cm
- 2 drawers with dimensions of 53 x 40 cm and a depth of 14 cm

Code	Dimensions (mm)	Number of drawers	
33107	706 x 450 x 950	7	1

1 VOZIČEK ZA ORODJE

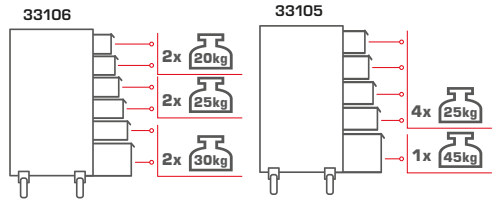
• KOLICA ZA ALAT • KOLICA ZA ALAT




Central lock


Wheel brake

x2

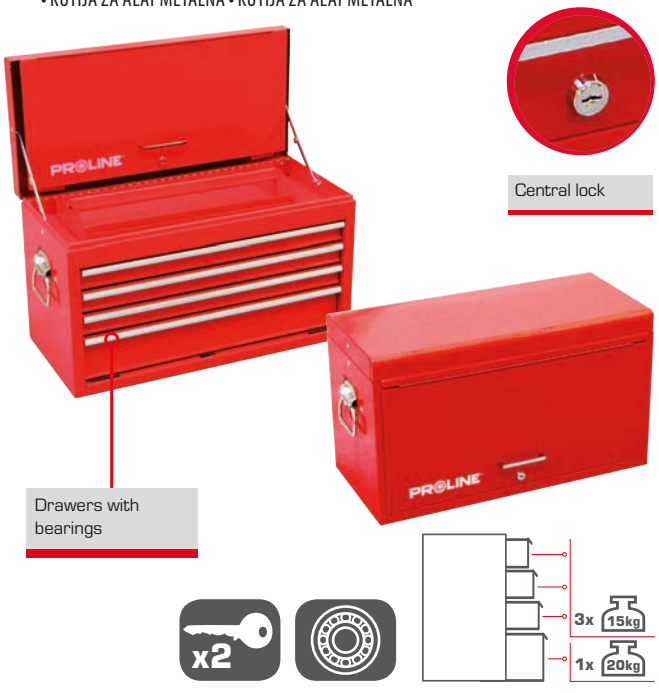


- Universal drawers help to store your tools and accessories in an orderly fashion • Wheels on ball bearings make it easy to move even fully loaded cabinet and the pair of turning wheels facilitates maneuvers • Cabinet location can be secured with two brakes • Ball slides which the drawers move on facilitate their opening • Additionally, the central lock in a front wall enables to lock all drawers with a single key turning
- **33105**: 5 drawers (dimensions 58 x 41 cm; depth 1 x 20 cm, 4 x 10 cm)
- **33106**: 6 drawers (dimensions 58 x 41 cm; depth 2 x 3 cm, 2 x 8cm a 2 x 14 cm)

Code	Dimensions (mm)	Number of drawers	
33105	688 x 458 x 735	5	1
33106	688 x 458 x 735	6	1

2 OMARA ZA ORODJE

• KUTIJA ZA ALAT METALNA • KUTIJA ZA ALAT METALNA



- Universal drawers help to store your tools and accessories in an orderly fashion • Ball slides which the drawers move on facilitate their opening • Additionally, the central lock in a front wall enables to lock all drawers with a single key turning • 5 drawers (dimensions 58 x 28cm, depth 3 x 4 cm i 1 x 9.5 cm)

Code	Dimensions (mm)	Number of drawers	
33204	688 x 316 x 386	4	1

3 VOZIČEK ZA ORODJE

• KOLICA ZA ALAT • KOLICA ZA ALAT



200kg

- Maximum capacity of 200 kg • Material - steel, 2 mm thick (Side-cutting angle bars), 1.2 mm thick (shelves) • 3 shelves with rubber mats • 2 steerable wheels • Brake • Side handle

Code	Dimensions (mm)	
33205	730 x 380 x 755	1

1 PREDAL ORODJA ZA KOMBINIRANE KLJUČE SET 12 KOM.

• UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE • UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE



x12 | 395x180 mm | DIN 3113 | CrV 6140 | HRC 47±2

• 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

Code	Items included	
58714	empty tray	1
58784	combination spanners 12 pcs. PROLINE HD	1

3 PREDAL ORODJA ZA KOMBINIRANE KLJUČE SET 5 KOM.

• UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE • UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE



x5 | 395x180 mm | DIN 3113 | CrV 6140 | HRC 47±2

• 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

Code	Items included	
58713	empty tray	1
58782	combination spanners 5 pcs. PROLINE HD	1

2 PREDAL ORODJA ZA KOMBINIRANE KLJUČE SET 12 KOM.

• UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE 12 KOM. • UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE 12 KOM.



x12 | 395x180 mm | DIN 3113 | CrV

• 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

Code	Items included	
58714	empty tray	1
58783	combination spanners 12 pcs.	1

4 PREDAL ORODJA ZA KOMBINIRANE KLJUČE SET 5 KOM.

• UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE 5 KOM. • UMETAK ZA LADICE ZA KOMBINIRANE KLJUČEVE 5 KOM.



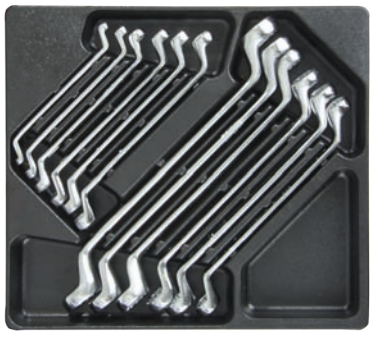
x5 | 395x180 mm | DIN 3113 | CrV

• 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

Code	Items included	
58713	empty tray	1
58781	combination spanners 5 pcs.	1

1 PREDAL ORODJA ZA OBROČASTE KLJUČE SET 12 KOM.

• LADICA ALATA ZA OKASTE KLJUČEVE 12KOM. • UMETAK ZA LADICE ZA OKASTE KLJUČEVE 12 KOM.





x12 | 395x360 mm | DIN 838 | CrV

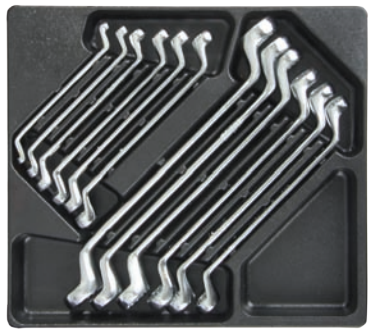
• 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590)

Code	Items included	
58711	empty tray	1
58779	ring spanners 12 pcs.	1

2 PREDAL ORODJA ZA OBROČASTE KLJUČE SET 12 KOM.

• UMETAK ZA LADICE ZA OKASTE KLJUČEVE 12 KOM. • UMETAK ZA LADICE ZA OKASTE KLJUČEVE 12 KOM.

PROLINE HD





x12 | 395x360 mm | DIN 838 | CrV 6140 | HRC 47±2

• 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030)

Code	Items included	
58711	empty tray	1
58780	ring spanners 12 pcs. PROLINE HD	1

3 PREDAL ORODJA NASADNIH KLJUČEV Z RAGLJO 1/2" SET 20 KOM.

• UMETAK ZA LADICE SA 20 DJELNIM NASADNIM KLJUČEVIMA • UMETAK ZA LADICE SA 20 DJELNIM NASADNIM KLJUČEVIMA





x20 | 395x180 mm | 72 | 1/2" | CrV | PRO DRIVE

• 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

Code	Items included	
58723	empty tray	1
58724	socket set 1/2" 20 pcs.	1

4 PREDAL ORODJA NASADNIH KLJUČEV Z RAGLJO 1/2" SET 52 KOM.

• UMETAK ZA LADICE SA 54 DJELNIM BIT NASTAVCIMA • UMETAK ZA LADICE SA 54 DJELNIM BIT NASTAVCIMA





x52 | 395x180 mm | 50mm | 25mm | CrV | 1/4" | HRC 58±2

• 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 - 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

Code	Items included	
58795	socket set with 1/2" drive 52 pcs.	1

1 PREDAL ORODJA NASADNIH KLJUČEV Z RAGLJO 1/4" SET 27 KOM.

• UMETAK ZA LADICE SA 27 DJELNOM GARNITUROM NASADNIH KLJUČEVA 1/4" • UMETAK ZA LADICE SA 27 DJELNOM GARNITUROM NASADNIH KLJUČEVA 1/4"





x27 | 395x180 mm | 72 | 1/4" | CrV | PRO DRIVE

- 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123)
- (18161) • Knife (30078) • Blades (31005)

Code	Items included	
58703	empty tray	1
58765	socket set 1/4" 16 pcs.	1

2 PREDAL ORODJA ZA KOMBINIRANE IZVIJAČE SET 8 KOM

• UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA • UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA





x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156)
- 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

Code	Items included	
58733	slot screwdrivers 8 pcs.	1

3 PREDAL ORODJA ZA NASADNE KLJUČE SET 19 KOM

• UMETAK ZA LADICE SA 19 DJELNOM GARNITUROM NASADNIH KLJUČEVA BIT • UMETAK ZA LADICE SA 19 DJELNOM GARNITUROM NASADNIH KLJUČEVA BIT





x19 | 395x180 mm | 1/2" | CrV

- TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

Code	Items included	
58787	Hex and Torx socket bits 19 pcs.	1

4 PREDAL ORODJA ZA KOMBINIRANE IZVIJAČE SET 8 KOM

• UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA • UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA





x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • PH1x100 mm (10162) • PH2x100 mm (10163)
- PH3x150 mm (10165) • PZ1x100 mm (10172) • PZ2x100 mm (10176)

Code	Items included	
58730	empty tray	1
58731	slot and phillips screwdrivers 8 pcs.	1

5 PREDAL ORODJA ZA KOMBINIRANE IZVIJAČE SET 8 KOM

• UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA • UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ODVIJAČA





x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

Code	Items included	
58736	empty tray	1
58737	Philips screwdrivers 8 pcs.	1

1 PREDAL ORODJA ZA KLEŠČE SET 5 KOM

• UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM KLIJEŠTA • UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM KLIJEŠTA




x5 | 395x180 mm

• **Pliers:** • Universal 160mm (28750) • Side-cutting 160mm (28760)
• Half-round 160 mm (28770) • End-cutting (28765) • Flat-nose 160 mm (28772)

Code	Items included	
58701	empty tray	1
58761	pliers 5 pcs.	1

2 PREDAL ORODJA S KLEŠČAMI SET 5 KOM

• UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM KLIJEŠTA
• UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM KLIJEŠTA




x5 | 395x180 mm | CrV

• **Pliers:** • All-purpose 160mm (28700) • Diagonal side 160mm (28710)
• Snipe nose 160mm (28720) • Flat nose 160mm (28722) • Automatic wire stripper (28486)

Code	Items included	
58728	empty tray	1
58729	pliers 1000V, 5 pcs.	1

3 PREDAL ZA ORODJE S KONIČASTIMI KLEŠČAMI SET 4 KOM

• UMETAK ZA LADICE SA 4 DJELNOM GARNITUROM SEGER KLIJEŠTA • 4 KOM. LADICA ALATA ZA KONUSNA KLIJEŠTA




395x180 mm | CrV | HRC 44±2 | x4

• **Circlip pliers:** • External curved 150 mm (28635) • Internal curved 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

Code	Items included	
58702	empty tray	1
58763	circlip pliers 4 pcs.	1

4 PREDAL ORODJA ZA KLADIVA SET 8 KOM

• UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ČEKIĆA I CRTAĆE IGLE • UMETAK ZA LADICE SA 8 DJELNOM GARNITUROM ČEKIĆA I CRTAĆE IGLE





x8 | 395x180 mm | 12605 DIN 1041 | HRC 54±2

• Machinist's hammer 500g (12605) • Rubber mallet 340g (12022)
• Diamond needle files, set of 5 (32015) • Marking-off scriber (31382)

Code	Items included	
58726	empty tray	1
58727	hammers 8 pcs.	1

5 PREDAL ORODJA S PILAMI ZA KOVINO SET 5 KOM

• UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM TURPIJA • UMETAK ZA LADICE SA 5 DJELNOM GARNITUROM TURPIJA




x5 | 395x180 mm | 200 mm | HRC 62±2

• File set (32265) • High-quality tool steel • Cut no. 2 • Two-composite, non-slip TPR handle

Code	Items included	
58718	empty tray	1
58793	engineering files 5 pcs.	1

6 PREDAL ORODJA S PILAMI SET 12 KOM

• UMETAK ZA LADICE SA 12 DJELNOM GARNITUROM IZBIJAČA, SJEKAČA I TOČKALA
• UMETAK ZA LADICE SA 12 DJELNOM GARNITUROM IZBIJAČA, SJEKAČA I TOČKALA



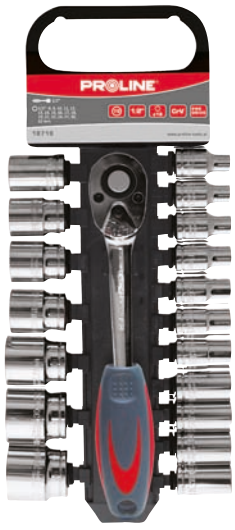

x12 | 395x180 mm | CrV | HRC 55±2

• Set (31361)
• The set contains:
- Center punch: 100 mm x 6 mm, 115 mm x 8 mm
- Taper pin punch 140 mm x 2 mm
- Chisels: 140 mm x 10 mm, 150 mm x 12 mm, 170 mm x 16 mm
- Parallel punches: 150 mm x 8 mm, 150 mm x 6 mm, 150 mm x 5 mm, 150 mm x 4 mm, 150 mm x 3 mm, 150 mm x 1.5 mm

Code	Items included	
58722	empty tray	1
58797	chisels and punches 12 pcs.	1

1 NASADNI KLJUČI Z RAGLJO 1/2", 8-32 MM SET 19 KOM

- 19 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM
- 19 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM



36 | 1/2" | CrV | PRO DRIVE

- 1/2" 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm • 1/2" 36 T • CRV material, chromium-plated and polished

Code	Amount included (pcs.)	
18719	19	10

2 NASADNI KLJUČI Z RAGLJO 1/4", 4-14 MM SET 43 KOM

- 43 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 4-14 MM
- 43 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 4-14 MM



72 | 1/4" | CrV | PRO DRIVE

- 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 72 T • 1/4" 50, 150 mm • 1/4" • 1/4" • 3/8" 1/4" • 1/4" 145 mm • 1/4" PH 1, 2, 3 PZ 1, 2, 3 4, 5.5, 6.5 mm TORX T8, T9, T10, T15, T20, T25, T27, T30, T40 HEX 3, 4, 5, 6, 8 mm • Made from CrV, chromium-plated and polished, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58743	43	10

3 NASADNI KLJUČI Z RAGLJO 1/4", 4-14 MM SET 43 KOM

- 43 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 4-14 MM
- 43 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 4-14 MM



72 | 1/4" | CrV | PRO DRIVE

- 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 72 T • 1/4" 50, 150 mm • 1/4" • 1/4" • 3/8" 1/4" • 1/4" 145 mm • 1/4" PH 1, 2, 3 PZ 1, 2, 3 4, 5.5, 6.5 mm TORX T8, T9, T10, T15, T20, T25, T27, T30, T40 HEX 3, 4, 5, 6, 8 mm • Made from CrV, satin, knurled sockets, delivered in a plastic case metal hinge, metal clamps

Code	Amount included (pcs.)	
58843	43	10



1 NASADNI KLJUČI Z RAGLJO 1/2", 8-32 MM SET 25 KOM

• 25 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM • 25 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm
- 1/2" 72 T • 1/2" • 1/2" • 1/2" 125, 250mm
- 1/2" 16, 21 mm • Made from CrV, chromium-plated, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58725	25	5



2 NASADNI KLJUČI Z RAGLJO 1/2", 8-32 MM SET 25 KOM

• 25 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM
• 25 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm • 1/2" 72 T • 1/2" • 1/2"
- 1/2" 125, 250mm • 1/2" 16, 21 mm • Stal CrV,
- Satin • Knurled sockets • Delivered in a plastic case • Metal hinge, metal clamps

Code	Amount included (pcs.)	
58825	25	4

3 NASADNI KLJUČI Z RAGLJO 1/2", 8-32 MM SET 56 KOM

• 56 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM
• 56 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/2", 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 22, 24, 27, 30, 32 mm
- 1/2" 72 T • 1/2" 16, 21 mm • 3/8" 1/2"
- 1/2" 125, 250 mm • 1/2" 10 mm • 1/2" TP T50, T55, T60 PZ 1, 2, 3, 4 • 10 mm PH 1, 2, 3, 4 6.5, 8, 10, 12 mm TORX T10, T15, T20, T25, T27, T30 TP T10, T15, T20, T25, T27, T30, T40, T45 HEX 4, 5, 6, 8, 10 mm • Made from CrV • Satin • Knurled sockets • Delivered in a plastic case
- Metal hinge, metal clamps

Code	Amount included (pcs.)	
58856	56	4

1 NASADNI KLJUČI Z RAGLJO 1/4", 1/2" 4-32 MM SET 94 KOM

• 94 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 1/2" 4-32 MM
• 94 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 1/2" 4-32 MM





72 | 1/4" | 1/2" | CrV | PRO DRIVE

• 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm • 1/2" 14, 15, 17, 19 mm • 1/2" 16, 21 mm
• 1/2" 72 T • 1/2" 125, 250 mm • 1/2" • 1/2" • 1/2" 5/16" • 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" PH1, 2 PZ1, 2 4, 5.5, 7 mm TORX T8, T10, T15, T20, T25, T30 HEX 3, 4, 5, 6 mm • 5/16" PH1, 2 PZ1, 2 8, 10, 12 mm TORX T40, T45, T50, T55 HEX 8, 10, 12, 14 mm • 1/4" 72 T
• 1/4" 50, 100 mm 1/4" 150 mm • 1/4" • 1/4" • 1/4" • 1/4" • 1.5, 2, 2.5 mm • Made from CrV, chromium-plated and polished, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58794	94	2

2 NASADNI KLJUČI Z RAGLJO SET 94 KOM

• 94 KOM. SET NASADNIH KLJUČEVA S RAČNOM • 94 KOM. SET NASADNIH KLJUČEVA S RAČNOM



1/4" | 1/2" | CrV | PRO DRIVE | x94

• 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm
• 1/2" 14, 15, 17, 19 mm • 1/2" 16, 21 mm • 1/2" 250 mm
• 1/2" 125 mm • 250 mm • 1/2"
• 1/2" - 5/16" • 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 • 1/4" 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" PH 1, 2 PZ 1, 2 4, 5.5, 7 mm TORX T8, T10, T15, T20, T25, T30 HEX 3, 4, 5, 6 mm • 1/4" PH 3, 4 PZ 3, 4 8, 10, 12 mm TORX T40, T45, T50, T55 HEX 8, 10, 12, 14 mm • 1/4"
• 1/4" • 1/4" 125 mm • 1/4" 50, 100 mm • 1/4" 150 mm • 1/4" • 1/4"
• 1.5, 2, 2.5

Code	Amount included (pcs.)	
48794	94	3



1 NASADNI KLJUČI Z RAGLJO 1/4", 3/8", 1/2" 4-32 MM SET 150 KOM

• 150 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 3/8", 1/2" 4-32 MM • 217 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 3/8", 1/2" 4-32 MM





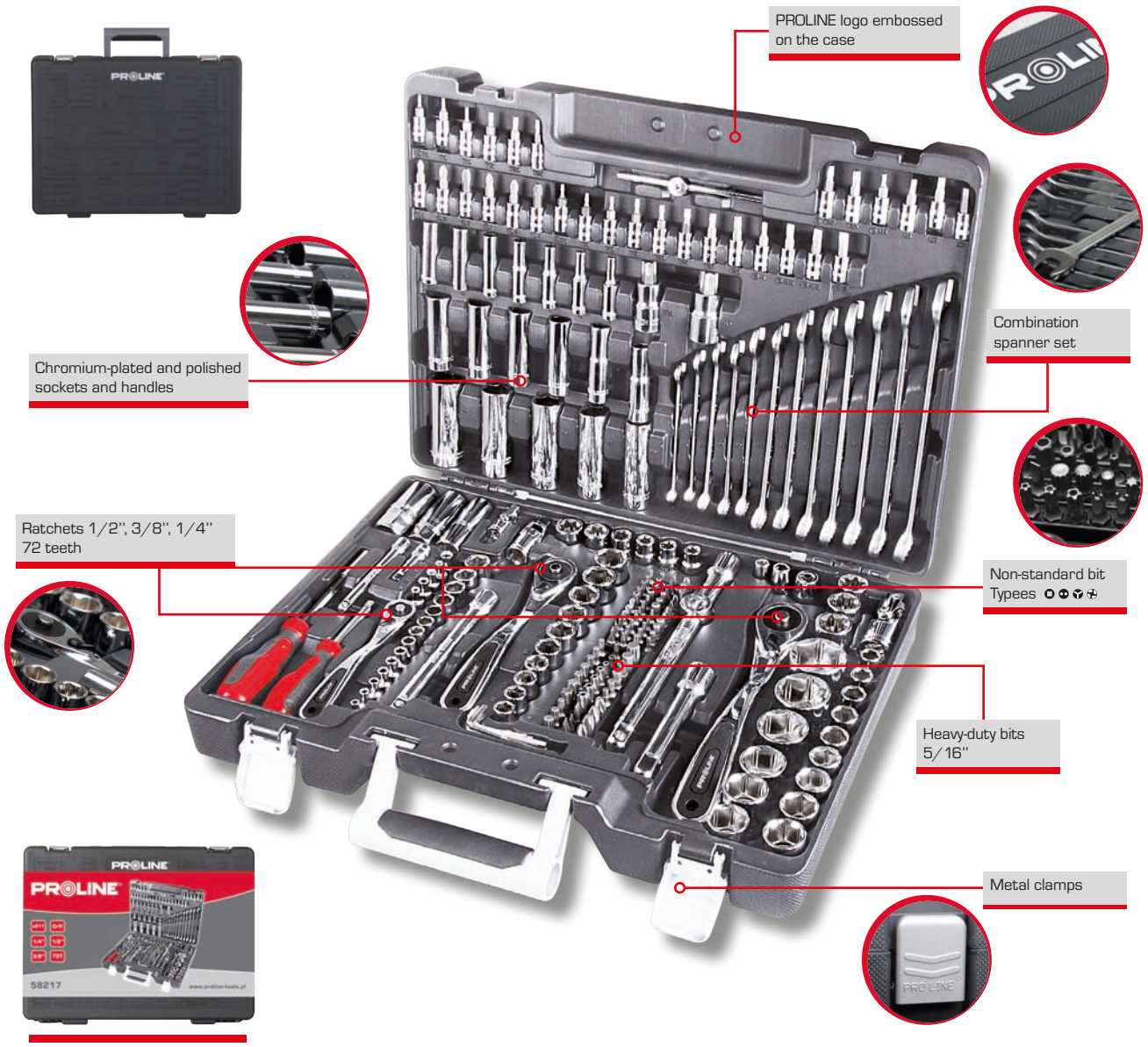
72 | 1/4" | 3/8" | 1/2" | CrV | PRO DRIVE

- 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 4, 5, 6, 7, 8, 9, 10 mm • 1/4" TORX E4, E5, E6, E7, E8 • 1/4" 72 T • 1/4"
- 1/4" • 1/4" 50, 100 mm • 1/4" • 1/4" PH 0, 1, 2 PZ 0, 1, 2 4, 5.5, 6.5, 7 mm TORX T8, T9, T10, T15 T20, T25, T27, T30 TP T8, T9, T10, T15, T20, T25, T27, T30 HEX 3, 4, 5, 6 mm
- 3/8" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm • 3/8" 10, 11, 12, 13, 14, 15 mm • 3/8" TORX E10, E11, E12, E14, E16, E18 • 3/8" 72 T • 3/8"
- 3/8" 125 mm • 3/8" 5/16" • 3/8" 18 mm • 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32 mm • 1/2" 16, 17, 18, 19, 22 mm • 1/2" TORX E20, E24 • 1/2" 72 T • 1/2" 125, 250 mm • 1/2" • 1/2" 16, 21 mm • 3/8" 1/2"
- 1/2" 5/16" • 1.27, 1.5, 2, 2.5, 3, 4, 5 mm
- 5/16" PH 3, 4 PZ 3, 4 8, 10, 12 mm TORX T40, T45, T50, T55, T60, T70 TP T40, T45, T50, T55, T60, T70 HEX 7, 8, 10, 12, 14 mm • Stal CrV
- Satin • Knurled sockets • Delivered in a plastic case
- Metal hinge, metal clamps

Code	Amount included (pcs.)	
588150	150	2

1 NASADNI KLJUČI Z RAGLJO 1/4", 3/8", 1/2" 3,5-32 MM SET 217 KOM

• 217 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 3/8", 1/2" 3,5-32 MM • 217 KOM. SET NASADNIH KLJUČEVA S RAČNOM 1/4", 3/8", 1/2" 3,5-32 MM



- 1/2" 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 22, 24, 27, 30, 32 mm
- 1/2" 16, 17, 18, 19, 22 mm
- 1/2" TORX E20, E22, E24
- 1/2" 16, 21 mm
- 1/2" 72 T
- 1/2" 125, 250 mm
- 1/2"
- 1/2"
- 1/2" T55, T60
- 1/2" 5/16" 3/8" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
- 3/8" 10, 11, 12, 13, 14, 15 mm
- 3/8" TORX E10, E11, E12, E14, E16, E18 mm
- 3/8" 18 mm
- 3/8" 72 T
- 3/8" 125 mm
- 3/8"
- 3/8" 5/16"
- 1/4" 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- 1/4" 4, 5, 6, 7, 8, 9, 10 mm
- 1/4" TORX E4, E5, E6, E7, E8 mm
- 1/4" 72 T
- 1/4" 50, 100 mm
- 1/4"
- 1/4"
- 1/4" 5/16"
- 1/4"
- 1/4" 1/4"
- 1/4"

- 1/4" PH 1, 2, 3 PZ 1, 2, 3 4, 5.5, 6.5, 7 mm TORX T8, T9, T10, T15, T20, T25, T27, T30 T8, T9, T10, T15, T20, T25, T27, T30 HEX 3, 4, 5, 6 mm
- 1/4" PH 0, 1, 2 PZ 1, 2 4, 5, 5.5, 6.5 mm TORX T8, T10, T15, T20, T25 T8, T10, T15, T20, T25 TS10, TS15, TS20, TS25, TS30 HEX 3, 4, 5, 6 mm M5, M6, M8 3, 4, 5, 6 mm 1, 2 4, 6, 8 mm 1, 2, 3 6, 8, 10
- 1.27, 1.5, 2, 2.5, 3, 4, 5 mm
- 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
- 5/16" PH 3, 4 PZ 3, 4 6, 7, 8 mm TORX T25, T27, T30, T35, T40, T45, T50 T25, T27, T30, T35, T40, T45, T50 HEX 4, 5, 6, 7, 8 mm M5, M6, M8, M10
- Made from CrV
- Chromium-plated and polished
- Delivered in a plastic case
- Metal clamps
- The set includes combination spanners
- Three socket sizes 1/4",3/8" and 1/2"
- Three ratchets 1/2", 3/8", 1/4"

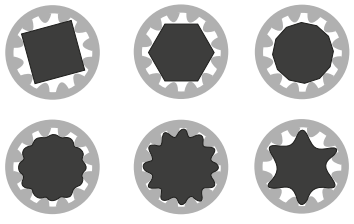
x12 | 72 | 1/4" | 3/8" | 1/2" | CrV

Code	Amount included (pcs.)	
58217	217	2

1 GO - THRU KLJUČI SET 17 KOM SET

• 17 KOM. SET GO - THRU KLJUČ • 17 KOM. SET GO - THRU NASADNIH KLJUČEVA







x17 CrV

- Universal shape, enabling to work with hex metric and unified-thread, TORX and SPLINE nuts and bolts
- Makes it possible to work with long bolts in places difficult to reach with standard sockets

Code	Amount included (pcs.)	
58717	17	10



2 TORX NASADNI KLJUČI Z RAGLJO 1/4", 3/8", 1/2" E4-E20 SET 11 KOM SET

• 11 KOM. SET TORX NASADNIH KLJUČEVA 1/4", 3/8", 1/2" E4-E20
• 11 KOM. SET TORX NASADNIH KLJUČEVA S POGONOM 1/4", 3/8", 1/2" E4-E20



1/4" 3/8" 1/2" CrV

- 1/2" TORX E14, E18, E20 • 3/8" TORX E7, E8, E10, E11, E12 • 1/4" TORX E4, E5, E6 • Delivered in a metal case

Code	Amount included (pcs.)	
18711	11	20

3 TORX NASADNI KLJUČI 1/4", 3/8", 1/2", T8-T60 SET 12 KOM SET

• 12 KOM. SET TORX NASADNIH KLJUČEVA 1/4", 3/8", 1/2", POGON T8-T60 • 12 KOM. SET TORX NASADNIH KLJUČEVA 1/4", 3/8", 1/2", POGON T8-T60



1/4" 3/8" 1/2" CrV

- 1/2" TORX T40, T45, T50, T55, T60
- 3/8" TORX T20, T25, T27, T30
- 1/4" TORX T8, T10, T15
- Delivered in a metal case

Code	Amount included (pcs.)	
18712	12	20

4 NASADNI KLJUČI Z RAGLJO 3/4", 19-50 MM SET 21 KOM SET

• 21 KOM. SET NASADNIH KLJUČEVA 3/4", 19-50 MM
• 21 KOM. SET NASADNIH KLJUČEVA 3/4", 19-50 MM



24 3/4" CrV PRO DRIVE

- 3/4" 19, 21, 22, 23, 24, 26, 27, 29, 30, 32, 35, 36, 38, 41, 46, 50 mm • 3/4" 24 T • 3/4" 100, 200, 400 mm • 3/4" • Delivered in a metal case

Code	Amount included (pcs.)	
18811	21	1

5 NASADNI KLJUČI Z RAGLJO 3/4", 22-50 MM SET 14 KOM SET

• 14 KOM. SET NASADNIH KLJUČEVA 3/4", 22-50 MM
• 14 KOM. SET NASADNIH KLJUČEVA 3/4", 22-50 MM



24 3/4" CrV PRO DRIVE

- 3/4" 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm • 3/4" 24 T • 3/4" 100, 200 mm • 3/4"
- Delivered in a metal case

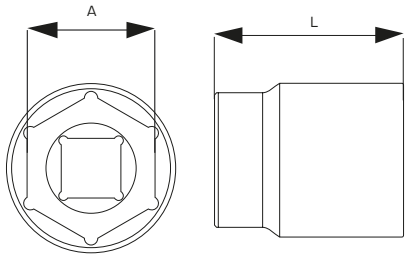
Code	Amount included (pcs.)	
18804	14	1

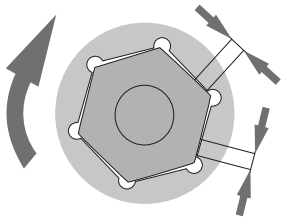
1 NASADNI KLJUČ 6 KOTNI

• 6KT NASADNI KLJUČ • 6KT NASADNI KLJUČ

PRODRIVE HEX SOCKETS PROLINE

- Standard and extended hex sockets are offered in a wide range of sizes • The sockets exceed strength requirements of the DIN 3124 and PN-ISO 1711 standards • Forged chrome vanadium steel sockets, subjected to a precise hardening and tempering process that guarantees proper hardness and durability
- Chrome-plated and polished • PROLINE sockets have specially profiled edges between the working planes - PRO-DRIVE system for mitigating excessive point loads and to protect against excessive „wearing out" of the screw head and surfaces of the socket • Supplied in a cardboard box or on the suspension







PRO DRIVE

1/4" 3/8" 1/2" 3/4" CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18104	ZR18104	4	25	50/600
18104P	ZR18104P	4.5	25	50/600
18105	ZR18105	5	25	50/500
18105P	ZR18105P	5.5	25	50/500
18106	ZR18106	6	25	50/500
18107	ZR18107	7	25	50/500
18108	ZR18108	8	25	50/500
18109	ZR18109	9	25	50/500
18110	ZR18110	10	25	50/500
18111	ZR18111	11	25	50/500
18112	ZR18112	12	25	50/500
18113	ZR18113	13	25	50/500
3/8"				
18306	ZR18306	6	28	24/288
18307	ZR18307	7	28	24/288
18308	ZR18308	8	28	24/288
18310	ZR18310	10	28	12/288
18312	ZR18312	12	28	24/288
18313	ZR18313	13	28	12/288
18314	ZR18314	14	28	18/288
18315	ZR18315	15	28	24/288
18316	ZR18316	16	28	24/288
18317	ZR18317	17	28	12/192
18319	ZR18319	19	28	24/192
18320	ZR18320	20	28	24/192
18321	ZR18321	21	28	24/192
18322	ZR18322	22	28	24/192
18324	ZR18324	24	28	24/192
1/2"				
18508	ZR18508	8	38	50/300
18509	ZR18509	9	38	50/300
18510	ZR18510	10	38	50/300
18511	ZR18511	11	38	50/300
18512	ZR18512	12	38	50/300
18513	ZR18513	13	38	50/300
18514	ZR18514	14	38	50/300
18515	ZR18515	15	38	50/300
18516	ZR18516	16	38	50/250
18517	ZR18517	17	38	50/250
18518	ZR18518	18	38	50/250
18519	ZR18519	19	38	50/250
18520	ZR18520	20	38	50/250
18521	ZR18521	21	38	50/200
18522	ZR18522	22	38	50/200
18523	ZR18523	23	38	50/200
18524	ZR18524	24	38	50/200
18525	ZR18525	25	42	12/144
18527	ZR18527	27	42	50/100
18528	ZR18528	28	42	50/100
18529	ZR18529	29	42	50/100
18530	ZR18530	30	42	50/100
18532	ZR18532	32	42	50/100
3/4"				
18819	ZR18819	19	50	10/80
18821	ZR18821	21	50	10/80
18822	ZR18822	22	50	10/80
18824	ZR18824	24	51	10/80
18826	ZR18826	26	51	10/80
18827	ZR18827	27	52	10/80
18830	ZR18830	30	53	10/80
18832	ZR18832	32	54	10/80
18835	ZR18835	35	58	10/40
18836	ZR18836	36	58	10/40
18838	ZR18838	38	60	10/40
18841	ZR18841	41	64	10/20
18846	ZR18846	46	68	10/20
18850	ZR18850	50	72	10/20

2 NASADNI KLJUČ 6 KOTNI

• 6KT NASADNI KLJUČ DUGI • 6KT NASADNI KLJUČ DUGI



1/4" 3/8" 1/2" CrV PRO DRIVE

- Delivered in carton box or on the suspensions

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18163	ZR18163	4	50	50/400
18165	ZR18165	4.5	50	50/400
18166	ZR18166	5	50	50/400
18167	ZR18167	5.5	50	50/400
18169	ZR18169	6	50	50/400
18176	ZR18176	7	50	50/400
18179	ZR18179	8	50	50/500
18182	ZR18182	9	50	50/400
18183	ZR18183	10	50	50/500
18184	ZR18184	11	50	50/400
18185	ZR18185	12	50	50/200
18186	ZR18186	13	50	50/250
3/8"				
18360	ZR18360	7	63	50/300
18361	ZR18361	8	63	50/300
18362	ZR18362	9	63	50/300
18363	ZR18363	10	63	50/300
18364	ZR18364	11	63	50/300
18365	ZR18365	12	63	50/300
18367	ZR18367	13	63	50/200
18369	ZR18369	14	63	50/150
18382	ZR18382	15	63	50/150
18383	ZR18383	16	63	50/150
18384	ZR18384	17	63	50/150
18385	ZR18385	18	63	50/150
18386	ZR18386	19	63	50/150
1/2"				
18610	ZR18610	10	77	10/160
18611	ZR18611	11	77	10/160
18612	ZR18612	12	77	10/160
18613	ZR18613	13	77	10/160
18614	ZR18614	14	77	10/160
18615	ZR18615	15	77	10/160
18616	ZR18616	16	77	10/160
18617	ZR18617	17	77	10/160
18618	ZR18618	18	77	10/140
18619	ZR18619	19	77	10/140
18620	ZR18620	20	77	10/110
18621	ZR18621	21	77	10/110
18622	ZR18622	22	77	10/110
18624	ZR18624	24	77	10/90
18627	ZR18627	27	77	10/90
18630	ZR18630	30	77	8/64
18632	ZR18632	32	77	6/30

1 NASADNI KLJUČ, 1/2 " 12 KOTNI

• NASADNI KLJUČ 12KT, POGON 1/2" • NASADNI KLJUČ 12KT, 1/2"



1/2" CrV

Code	Code on the suspension	A (mm)	L (mm)	
18559	ZR18559	8	38	12/240
18560	ZR18560	9	38	12/240
18561	ZR18561	10	38	12/240
18562	ZR18562	11	38	12/240
18563	ZR18563	12	38	12/240
18564	ZR18564	13	38	12/240
18565	ZR18565	14	38	12/240
18566	ZR18566	15	38	12/240
18567	ZR18567	16	38	12/240
18569	ZR18569	17	38	12/240
18570	ZR18570	18	38	12/240
18571	ZR18571	19	38	12/240
18575	ZR18575	20	38	12/240
18583	ZR18583	21	38	12/144
18587	ZR18587	22	38	12/144
18588	ZR18588	23	38	12/144
18589	ZR18589	24	40	12/144
18590	ZR18590	25	42	12/144
18591	ZR18591	27	42	12/144
18592	ZR18592	28	42	12/96
18593	ZR18593	29	42	12/96
18594	ZR18594	30	45	12/96
18595	ZR18595	32	45	12/96

2 NASADNI KLJUČ, 1/2 " 12 KOTNI

• NASADNI KLJUČ 12KT DUGI, 1/2" • NASADNI KLJUČ 12KT DUGI, 1/2"



1/2" CrV

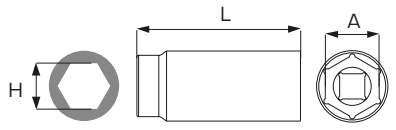
Code	Code on the suspension	A (mm)	L (mm)	
18608	ZR18608	8	77	20/160
18609	ZR18609	9	77	20/160
18623	ZR18623	10	77	20/160
18625	ZR18625	11	77	20/160
18626	ZR18626	12	77	20/160
18628	ZR18628	13	77	15/120
18629	ZR18629	14	77	15/120
18631	ZR18631	15	77	15/120
18633	ZR18633	16	77	15/120
18634	ZR18634	17	77	15/120
18635	ZR18635	18	77	15/120
18636	ZR18636	19	77	15/120
18637	ZR18637	20	77	10/80
18638	ZR18638	21	77	10/80
18639	ZR18639	22	77	10/80
18640	ZR18640	24	77	10/80
18641	ZR18641	27	77	5/50
18642	ZR18642	30	77	5/50
18643	ZR18643	32	77	5/50

3 NASADNI KLJUČ ZA SVEČKO

• NASADNI KLJUČ ZA SVJEĆICE • NASADNI KLJUČ ZA SVJEĆICE



18547 18546



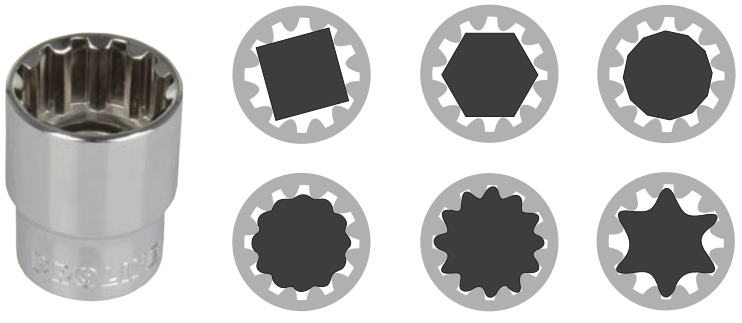
1/2" CrV PRO DRIVE

• With a rubber insert, protecting the plug from falling out and the ceramic fixture from damage • The sockets with eyelets are available for special order

Code	Code on the suspension	A (mm)	L (mm)	H (mm)	
18546	ZR18546	16	64	-	20/160
18547	ZR18547	21	64	23.6	20/100

4 NASADNI KLJUČ, 1/2 " RIBA

• KLINASTI NASADNI KLJUČ" 1/2" • KLINASTI NASADNI KLJUČ 1/2""



1/2" CrV

• Universal shape enables to use for hex nuts and bolts with metric and inch sizes, square, TORX and SPLINE

Code	Code on the suspension	A (mm)	Hex bolt size (mm)	L (mm)	
18500	ZR18500	M8	8	38	10/240
18501	ZR18501	M9	9	38	10/240
18502	ZR18502	M10	10	38	10/240
18503	ZR18503	M11	11	38	10/240
18504	ZR18504	M12	12	38	50/300
18505	ZR18505	M13	13	38	50/300
18506	ZR18506	M14	14	38	10/240
18507	ZR18507	M15	15	38	10/240
18526	ZR18526	M16	16	38	10/240
18531	ZR18531	M17	17	38	10/240
18533	ZR18533	M18	18	38	50/250
18534	ZR18534	M19	19	38	10/240
18535	ZR18535	M20	20	38	10/240
18536	ZR18536	M21	21	38	10/240
18537	ZR18537	M22	22	38	10/100
18538	ZR18538	M24	24	38	10/100
18539	ZR18539	M27	27	42	10/100
18540	ZR18540	M30	30	42	10/80
18541	ZR18541	M32	32	42	10/80

5 NASADNI KLJUČ Z NOTRANJIM TX PROFILOM

• NASADNI KLJUČ TORX ŽENSKI • NASADNI KLJUČ TORX ŽENSKI



1/2" 1/4" S2 3/8" CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18150	ZR18150	E4	25	50/300
18151	ZR18151	E5	25	50/300
18152	ZR18152	E6	25	50/300
18153	ZR18153	E7	25	50/300
18154	ZR18154	E8	25	50/300
18155	ZR18155	E10	25	50/300
3/8"				
18355	ZR18355	E10	28	50/300
18356	ZR18356	E11	28	50/300
18357	ZR18357	E12	28	50/300
18358	ZR18358	E14	28	50/300
18359	ZR18359	E16	28	50/300
1/2"				
18542	ZR18542	E8	38	50/300
18543	ZR18543	E10	38	50/300
18544	ZR18544	E11	38	50/300
18545	ZR18545	E12	38	50/300
18548	ZR18548	E14	38	50/250
18549	ZR18549	E16	38	50/200
18558	ZR18558	E18	38	50/250
18550	ZR18550	E20	38	50/250
18554	ZR18554	E22	38	50/200
18557	ZR18557	E24	38	20/240

1 VIJAČNI NASTAVEK PHILIPS 1/4 “

• NASADNI KLJUČ PHILIPS 1/4“ • NASADNI KLJUČ PHILIPS 1/4“



1/4” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58135	ZR58135	PH1	37	50/300
58136	ZR58136	PH2	37	50/300
58137	ZR58137	PH3	37	50/300

2 VIJAČNI NASTAVEK POZIDRIV 1/4 “

• NASADNI KLJUČ POZIDRIV 1/4“ • NASADNI KLJUČ POZIDRIV 1/4“



1/4” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58138	ZR58138	PZ1	37	50/300
58139	ZR58139	PZ2	37	50/300
58140	ZR58140	PZ3	37	50/300

3 VIJAČNI NASTAVEK HEX

• NASADNI KLJUČ HEX • NASADNI KLJUČ HEX



1/2” · S2 · 1/4” · CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4”				
58120	ZR58120	3	37	50/300
58121	ZR58121	4	37	50/300
58122	ZR58122	5	37	50/300
58123	ZR58123	6	37	50/500
58124	ZR58124	7	37	50/300
58125	ZR58125	8	37	50/500
1/2”				
58500	ZR58500	3	55	50/300
18644	ZR18644	4	55	10/120
18645	ZR18645	5	55	10/120
18646	ZR18646	6	55	50/250
18647	ZR18647	7	55	50/250
18648	ZR18648	8	55	50/250
58501	ZR58501	9	55	50/300
18649	ZR18649	10	55	50/300
18650	ZR18650	12	55	50/300
18651	ZR18651	14	55	50/200
18652	ZR18652	17	55	50/100
58502	ZR58502	19	55	50/100

4 VIJAČNI NASTAVEK HEX 1/2 “

• NASADNI KLJUČ HEX 1/2“ • NASADNI KLJUČ HEX 1/2“



1/2” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58503	ZR58503	4	100	50/200
58504	ZR58504	5	100	50/200
58505	ZR58505	6	100	50/250
58506	ZR58506	7	100	50/150
58507	ZR58507	8	100	50/250
58508	ZR58508	10	100	50/150
58509	ZR58509	12	100	50/150
58510	ZR58510	14	100	50/100
58511	ZR58511	17	100	50/100

5 VIJAČNI NASTAVEK HEX 1/2 “

• NASADNI KLJUČ HEX 1/2“ • NASADNI KLJUČ HEX 1/2“



1/2” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58512	ZR58512	5	140	50/150
58513	ZR58513	6	140	50/200
58514	ZR58514	7	140	50/150
58515	ZR58515	8	140	50/150
58516	ZR58516	10	140	50/150
58517	ZR58517	12	140	50/100
58518	ZR58518	14	140	50/100

6 VIJAČNI NASTAVEK HEX Z OKROGLIM KONCEM 1/2”

• HEX NASADNI KLJUČ S KUGLASTIM ZAVRŠETKOM 1/2“
• HEX NASADNI KLJUČ S KUGLASTIM ZAVRŠETKOM 1/2“



1/2” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58519	ZR58519	5	140	50/100
58520	ZR58520	6	140	50/100
58521	ZR58521	7	140	50/100
58522	ZR58522	8	140	50/100
58523	ZR58523	10	140	50/100

7 VIJAČNI NASTAVEK TORX

• NASADNI KLJUČ TORX • NASADNI KLJUČ TORX



1/2” · 1/4” · S2 · 3/8” · CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4”				
58126	ZR58126	T8	37	50/500
58127	ZR58127	T9	37	50/300
58128	ZR58128	T10	37	50/300
58129	ZR58129	T15	37	50/300
58130	ZR58130	T20	37	50/300
58131	ZR58131	T25	37	50/300
58132	ZR58132	T27	37	50/300
58133	ZR58133	T30	37	50/300
58134	ZR58134	T40	37	50/300
3/8”				
58300	ZR58300	T8	48	50/300
58301	ZR58301	T9	48	50/300
58302	ZR58302	T10	48	50/300
58303	ZR58303	T15	48	50/300
58304	ZR58304	T20	48	50/300
58305	ZR58305	T25	48	50/300
58306	ZR58306	T27	48	50/300
58307	ZR58307	T30	48	50/500
58308	ZR58308	T40	48	50/300
58309	ZR58309	T50	48	50/500
58310	ZR58310	T55	48	50/300
1/2”				
18657	ZR18657	T20	55	10/120
18658	ZR18658	T25	55	10/120
18659	ZR18659	T27	55	10/120
18660	ZR18660	T30	55	50/250
18661	ZR18661	T40	55	50/200
18662	ZR18662	T45	55	50/200
18663	ZR18663	T50	55	50/200
18664	ZR18664	T55	55	50/200
18665	ZR18665	T60	55	50/200
18669	ZR18669	T70	55	10/120

8 VIJAČNI NASTAVEK TORX 1/2”

• NASADNI KLJUČ TORX 1/2“ • NASADNI KLJUČ TORX 1/2“



1/2” · S2 · CrV

Code	Code on the suspension	A (mm)	L (mm)	
58533	ZR58533	T20	100	50/200
58534	ZR58534	T25	100	50/200
58535	ZR58535	T27	100	50/150
58536	ZR58536	T30	100	50/250
58537	ZR58537	T40	100	50/150
58538	ZR58538	T45	100	50/150
58539	ZR58539	T50	100	50/250
58540	ZR58540	T55	100	50/150
58541	ZR58541	T60	100	50/150
58542	ZR58542	T70	100	50/100

1 VIJAČNI NASTAVEK TORX 1/2"

• NASADNI KLJUČ TORX 1/2" • NASADNI KLJUČ TORX 1/2"



1/2" S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58547	ZR58547	T40	120	50/150
58548	ZR58548	T50	120	50/150
58543	ZR58543	T50	140	50/150
58544	ZR58544	T55	140	50/150
58545	ZR58545	T60	140	50/100
58546	ZR58546	T70	140	50/100

2 VIJAČNI NASTAVEK RIBE 1/2"

• NASADNI KLJUČ RIBE 1/2" •NASADNI KLJUČ RIBE 1/2"



1/2" S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58524	ZR58524	R7	55	50/300
58525	ZR58525	R9	55	50/300
58526	ZR58526	R10	55	50/300
58527	ZR58527	R12	55	50/200
58528	ZR58528	R14	55	50/150
58529	ZR58529	R16	55	50/150

3 VIJAČNI NASTAVEK RIBE 1/2"

• NASADNI KLJUČ RIBE 1/2" • NASADNI KLJUČ RIBE 1/2"



1/2" S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58530	ZR58530	R12	100	50/100
58531	ZR58531	R14	100	50/100
58532	ZR58532	R16	100	50/100

4 VIJAČNI NASTAVEK SPLINE 1/2"

• NASADNI KLJUČ SPLINE 1/2"
• NASADNI KLJUČ SPLINE 1/2"



1/2" S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
18666	ZR18666	M5	55	10/120
18653	ZR18653	M6	55	10/120
18654	ZR18654	M8	55	10/120
18655	ZR18655	M10	55	10/120
18656	ZR18656	M12	55	10/120
18667	ZR18667	M14	55	10/120
18668	ZR18668	M16	55	10/120

5 VIJAČNI NASTAVEK SPLINE 1/2"

• NASADNI KLJUČ SPLINE 1/2"
• NASADNI KLJUČ SPLINE 1/2"



1/2" S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58549	ZR58549	M6	100	50/150
58550	ZR58550	M8	100	50/250
58551	ZR58551	M10	100	50/150
58552	ZR58552	M12	100	50/150
58553	ZR58553	M14	100	50/150
58554	ZR58554	M16	100	50/100



6 DRŽALO ZA NASADNE KLJUČE IN VIJAČNI NASTAVKI 1/4", 3/8", 1/2"

• DRŽAČ ZA NASADNE KLJUČEVE I POGONSKA SVRDLA 1/4", 3/8", 1/2" • NASADNI KLJUČEVI I POGONSKA SVRDLA 1/4", 3/8", 1/2"





Code	Type	L (mm)	Amount (pcs)		
18199	1/4", 6 clips	120	2	x	200
18399	3/8", 6 clips	280	2	x	200
18599	1/2", 6 clips	280	2	x	200

1 RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



108 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Handle with plastic insert • Pitch 3.33° • Reduced head dimensions

Code	Square	L (mm)		
18191	1/4"	133	x	25/100
18391	3/8"	192	x	12/48
18691	1/2"	260	x	6/24

2 RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



72 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Swan-neck ratchet with a socket made from two-component material, with rubber components cast-in

Code	Code on the suspension	Square	L (mm)	
18172	**ZR18172**	1/4"	145	25/100
18372	**ZR18372**	3/8"	200	12/48
18572	**ZR18572**	1/2"	250	6/24

3 RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



72 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Push button

Code	Square	L (mm)		
18194	1/4"	157	x	12/96
18394	3/8"	201	x	12/48
18694	1/2"	258	x	6/24

4 KOMPOZITNA DVOSMERNA RAGLJA

• KOMPOZITNE REVERZIBILNA RAČNA • KOMPOZITNE REVERZIBILNE RAČNA



72 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Push button • Two-component handle TPR/PP

Code	Square	L (mm)		
18195	1/4"	144	x	25/100
18295	3/8"	202	x	12/48
18695	1/2"	257	x	6/24

5 RAGLJA PREGIBNA

• REVERZIBILNA RAČNA S FLEKSIBILNOM GLAVOM • REVERZIBILNA RAČNA S OKRETNOM GLAVOM



36 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Ring switch • Moving head

Code	Square	L (mm)		
18192	1/4"	178	x	12/96
18392	3/8"	257	x	12/48
18692	1/2"	305	x	6/24

6 RAGLJA PODALJŠANA PREGIBNA

• TELESKOPSKA RAČNA SA OKRETNOM GLAVOM
• TELESKOPSKA RAČNA SA OKRETNOM GLAVOM



36 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Ring switch • Moving head

Code	Square	L (mm)		
18193	1/4"	197-245	x	12/72
18393	3/8"	273-375	x	6/36
18693	1/2"	368-508	x	5/20

1 DVOSMERNA RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



72 | 1/4" | 3/8" | 1/2" | CrV

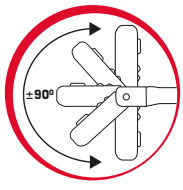
• Push button • Two-component material handle

Code	Code on the suspension	Square	L (mm)	
18178	ZR18178	1/4"	145	50/150
18378	ZR18378	3/8"	200	30/60
18578	ZR18578	1/2"	250	15/30

2 RAGLJA PREGIBNA

• REVERZIBILNA RAČNA S ZGLOBNOM GLAVOM • REVERZIBILNA RAČNA S ZGLOBNOM GLAVOM





72 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Ratchet with a socket made from two-component material, with rubber components cast-in • Moveable head

Code	Code on the suspension	Square	L (mm)	
18180	ZR18180	1/4"	164	25/100
18580	ZR18580	1/2"	285	6/24

3 RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



24 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Two-component material handle

Code	Square	L (mm)		
18196	1/4"	145	x	50/150
18396	3/8"	200	x	30/60
18696	1/2"	250	x	15/30

4 DVOSMERNA RAGLJA

• DVOSMJERNA RAČNA • DVOSMJERNA RAČNA



72 | 3/8" | 1/2" | CrV

• Push button • Two-component material handle

Code	Square	L (mm)	
18579	1/2" x 3/8"	135	20/80

5 DVOSMERNA RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



24 | 1/4" | 3/8" | 1/2" | CrV

• Rotary switch • Polished

Code	Code on the suspension	Square	L (mm)	
18175	ZR18175	1/4"	145	25/100
18375	ZR18375	3/8"	200	15/60
18576	ZR18576	1/2"	250	15/30

6 DVOSMERNA RAGLJA

• REVERZIBILNA RAČNA • REVERZIBILNA RAČNA



24 | 3/4" | CrV

• Push button • Knurled handle

Code	Code on the suspension	Square	L (mm)	
18860	ZR18860	3/4"	510	5/10

7 ROČICA UPOGNJENA

• RUČKA ZA NASADNE KLJUČEVE • RUČKA ZA NASADNE KLJUČEVE



1/2" | 3/4" | CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18581	ZR18581	1/2"	200	15/60
18865	ZR18865	3/4"	450	10

8 PREGIBNA ROČKA

• RUČKA ZA NASADNE KLJUČEVE • RUČKA ZA NASADNE KLJUČEVA



1/4" | 3/8" | 1/2" | 3/4" | CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18164	ZR18164	1/4"	150	36/144
18354	ZR18354	3/8"	200	24/96
18584	ZR18584	1/2"	250	15/60
18585	ZR18585	1/2"	375	20
18586	ZR18586	1/2"	450	20
18864	ZR18864	3/4"	510	10

1 DRSNA T ROČKA

• T- RUČKA ZA NASADNE KLJUČEVE • T- RUČKA ZA NASADNE KLJUČEVE



1/4" 3/8" 1/2" 3/4" CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18162	ZR18162	1/4"	115	24/384
18352	ZR18352	3/8"	165	12/144
18582	ZR18582	1/2"	250	15/60
18863	ZR18863	3/4"	460	10

2 DRŽALO ZA NASTAVKE 1/4"

• DRŠKA ZA NASTAVAK 1/4" • DRŠKA ZA NASTAVAK 1/4"



1/4" CrV

• Two-component handle

Code	Square	L (mm)		
18161	1/4"	150	x	30/60

3 DRŽALO ZA NASTAVKE 1/4"

• DRŠKA ZA NASTAVAK 1/4" • DRŠKA ZA NASTAVAK 1/4"



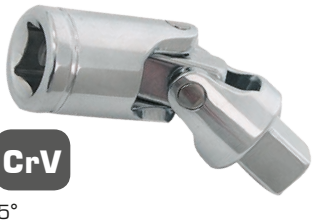
1/4" CrV

• Two-component handle

Code	Square	L (mm)		
18171	1/4"	150	x	30/60

4 ZGLOB KARDANSKI

• KARDANSKI ZGLOB • KARDANSKI ZGLOB



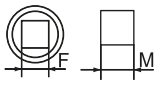
1/4" 3/8" 1/2" 3/4" CrV

• Enables to apply torque from 0° to 75°

Code	Code on the suspension	Square	L (mm)	
18160	ZR18160	1/4"	35	48/384
18350	ZR18350	3/8"	50	24/288
18556	ZR18556	1/2"	70	12/144
18858	ZR18858	3/4"	100	10/20

5 ADAPTER

• ADAPTER • ADAPTERI





3/8" 1/2" 3/4" CrV

• Enables cooperation of ratchets, sockets and other accessories with different dimensions of the socket and pivot

Code	Code on the suspension	Socket (F)	Foot (M)	
18368	ZR18368	1/2"	3/8"	25/300
18568	ZR18568	3/8"	1/2"	25/300
18867	ZR18867	3/4"	1/2"	12/96
18868	ZR18868	1/2"	3/4"	25/150

6 PODALJŠEK ZA NASADNE KLJUČE

• PRODUŽETAK • PRODUŽETAK



1/4" 3/8" 1/2" 3/4" CrV

• Enables work in places difficult to reach • With a locking ball securing the attachment during use • Extensions have a square socket on one end and a rounded square pin on the other end to help work at angles

Code	Code on the suspension	Square	L (mm)	
18121	ZR18121	1/4"	50	48/576
18122	ZR18122	1/4"	75	32/576
18123	ZR18123	1/4"	100	24/384
18124	ZR18124	1/4"	150	24/288
18341	ZR18341	3/8"	75	24/288
18342	ZR18342	3/8"	125	24/144
18343	ZR18343	3/8"	150	12/144
18344	ZR18344	3/8"	250	50/100
18551	ZR18551	1/2"	75	50/150
18552	ZR18552	1/2"	125	50/100
18553	ZR18553	1/2"	250	50
18871	ZR18871	3/4"	100	50
18872	ZR18872	3/4"	200	25
18874	ZR18874	3/4"	400	10

7 PODALJŠKI ZA NASADNE KLJUČE

• SET PRODUŽETAKA ZA NASADNE KLJUČEVE • SET PRODUŽETAKA ZA NASADNE KLJUČEVE



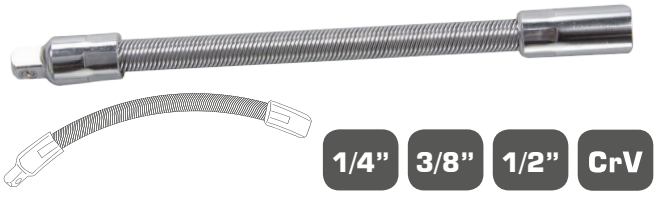
1/4" 3/8" 1/2" CrV

• Enables work in places difficult to reach • With a locking ball securing the attachment during use • Extensions have a square socket on one end and a rounded square pin on the other end to help work at angles

Code	Code on the suspension	Square	L (mm)	
18126	ZR18126	1/4"	50	50/300
18127	ZR18127	1/4"	100	50/300
18128	ZR18128	1/4"	150	50/150
18129	ZR18129	1/4"	250	50/150
18346	ZR18346	3/8"	50	50/300
18347	ZR18347	3/8"	100	50/150
18348	ZR18348	3/8"	150	50/150
18349	ZR18349	3/8"	250	50/100
18671	ZR18671	1/2"	75	50/150
18672	ZR18672	1/2"	125	50/100
18673	ZR18673	1/2"	200	50
18674	ZR18674	1/2"	250	50

8 FLEKSIBILNI PODALJŠEK

• FLEKSIBILNI PRODUŽETAK • FLEKSIBILNI PRODUŽETAK



1/4" 3/8" 1/2" CrV

Code	Code on the suspension	Square	L (mm)	
18125	ZR18125	1/4"	145	12/300
18345	ZR18345	3/8"	200	10/150
18555	ZR18555	1/2"	200	10/60

1 UDARNI NASADNI KLJUČ

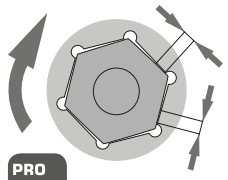
• 6KT UDARNI NASADNI KLJUČEVI • 6KT UDARNI NASADNI KLJUČEVI

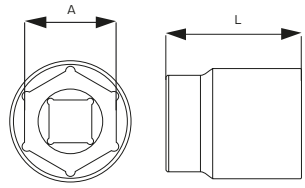


1/2" 3/4" CrMo SCM-440 PRO DRIVE

- Standard-length and elongated PROLINE hex impact sockets are offered in a wide selection of sizes • Cooperate with pneumatic devices, dedicated to difficult working conditions and changeable loads • Made from strong CrMo steel thanks to which they have longer working lifecycle, twice higher tensile strength and three times higher yield point than the ordinary sockets from chromium and vanadium tool steel • PROLINE sockets have special, profiled, rounded open angles between the work planes - PRO-DRIVE system - to level spot overloads, accumulating in the internal edges of the socket. PRO-DRIVE system ensures increased torque without the socket wall break, improved socket lifecycle and protects the edges of the bolt head
- Square sockets are compatible with most locking mechanisms in renowned pneumatic devices • Delivered in a cardboard box or on a suspension

	Code	Code on the suspension	A (mm)	L (mm)	
1/2"	18410	ZR18410	10	39	60/240
	18411	ZR18411	11	39	60/240
	18412	ZR18412	12	39	60/240
	18413	ZR18413	13	39	60/240
	18414	ZR18414	14	39	60/240
	18415	ZR18415	15	39	40/160
	18416	ZR18416	16	39	40/160
	18417	ZR18417	17	39	40/160
	18418	ZR18418	18	39	40/160
	18419	ZR18419	19	39	40/160
	18420	ZR18420	20	39	40/160
	18421	ZR18421	21	39	40/160
	18422	ZR18422	22	39	30/120
	18423	ZR18423	23	39	30/120
	18424	ZR18424	24	43	30/120
	18425	ZR18425	25	43	30/120
	18426	ZR18426	26	43	24/96
	18427	ZR18427	27	43	24/96
	18428	ZR18428	28	48	24/96
	18429	ZR18429	29	48	22/88
	18430	ZR18430	30	48	24/96
	18432	ZR18432	32	48	20/80
3/4"	18919	ZR18919	19	50	16/64
	18921	ZR18921	21	50	16/64
	18922	ZR18922	22	50	16/64
	18923	ZR18923	23	50	16/64
	18924	ZR18924	24	50	16/64
	18925	ZR18925	25	50	16/64
	18926	ZR18926	26	50	16/64
	18927	ZR18927	27	53	16/64
	18928	ZR18928	28	53	16/64
	18929	ZR18929	29	53	12/48
	18930	ZR18930	30	53	12/48
	18932	ZR18932	32	56	12/48
	18933	ZR18933	33	56	8/32
	18934	ZR18934	34	56	8/32
	18935	ZR18935	35	56	6/24
	18936	ZR18936	36	56	6/24
	18938	ZR18938	38	57	6/24
	18941	ZR18941	41	57	5/20
	18942	ZR18942	42	57	4/16
	18943	ZR18943	43	57	4/16
	18946	ZR18946	46	62	3/12
	18948	ZR18948	48	67	3/12
	18950	ZR18950	50	72	3/12
	18952	ZR18952	52	72	2/8
	18955	ZR18955	55	74	2/4
	18960	ZR18960	60	74	2/4





2 UDARNI GLOBOKI NASADNI KLJUČ

• 6KT UDARNI NASADNI KLJUČEVI DUGI • 6KT UDARNI NASADNI KLJUČEVI DUGI



1/2" 3/4" CrMo SCM-440 PRO DRIVE

- Delivered in a cardboard box or on a suspension

	Code	Code on the suspension	A (mm)	L (mm)	
1/2"	18440	ZR18440	10	78	30/120
	18441	ZR18441	11	78	30/120
	18442	ZR18442	12	78	30/120
	18443	ZR18443	13	78	30/120
	18444	ZR18444	14	78	30/120
	18445	ZR18445	15	78	30/120
	18446	ZR18446	16	78	30/120
	18447	ZR18447	17	78	25/100
	18448	ZR18448	18	78	24/96
	18449	ZR18449	19	78	24/96
	18450	ZR18450	20	78	20/80
	18451	ZR18451	21	78	20/80
	18452	ZR18452	22	78	18/72
	18453	ZR18453	23	78	15/60
	18454	ZR18454	24	78	15/60
	18455	ZR18455	25	78	15/60
	18456	ZR18456	26	78	12/48
	18457	ZR18457	27	78	12/48
	18458	ZR18458	28	78	12/48
	18459	ZR18459	29	78	10/40
	18460	ZR18460	30	78	10/40
	18462	ZR18462	32	78	10/40
3/4"	18969	ZR18969	19	90	9/36
	18971	ZR18971	21	90	9/36
	18972	ZR18972	22	90	9/36
	18973	ZR18973	23	90	9/36
	18974	ZR18974	24	90	9/36
	18975	ZR18975	25	90	9/36
	18976	ZR18976	26	90	9/36
	18977	ZR18977	27	90	9/36
	18978	ZR18978	28	90	8/32
	18979	ZR18979	29	90	8/32
	18980	ZR18980	30	90	7/28
	18982	ZR18982	32	90	7/28
	18983	ZR18983	33	90	6/24
	18984	ZR18984	34	90	6/24
	18985	ZR18985	35	90	6/24
	18986	ZR18986	36	90	6/24
	18988	ZR18988	38	90	6/24
	18991	ZR18991	41	90	5/20
	18992	ZR18992	42	90	4/16
	18993	ZR18993	43	90	3/12
	18996	ZR18996	46	90	2/12
	18998	ZR18998	48	90	2/8
	18999	ZR18999	50	90	2/8

1 UDARNI HEX NASTAVEK 1/2”

• UDARNI HEX NASTAVCI 1/2“ • UDARNI HEX NASTAVCI 1/2“



1/2” CrMo SCM-440

- Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size (mm)	L (mm)	
18400	ZR18400	5	60	100/200
18401	ZR18401	6	60	100/200
18402	ZR18402	7	60	100/200
18403	ZR18403	8	60	100/200
18404	ZR18404	10	60	80/160
18405	ZR18405	12	60	80/160
18406	ZR18406	14	60	80/160
18407	ZR18407	17	60	50/100
18408	ZR18408	19	60	50/100
18409	ZR18409	5	78	100/200
18431	ZR18431	6	78	100/200
18433	ZR18433	7	78	80/160
18434	ZR18434	8	78	80/160
18435	ZR18435	10	78	80/160
18436	ZR18436	12	78	50/100
18437	ZR18437	14	78	50/100
18438	ZR18438	17	78	50/100
18439	ZR18439	19	78	40/80

2 UDARNI TORX NASTAVEK 1/2”

• UDARNI TORX NASTAVEK 1/2“ • UDARNI TORX NASTAVEK 1/2“



1/2” CrMo SCM-440

- Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size	L (mm)	
18461	ZR18461	T30	60	100/200
18463	ZR18463	T40	60	100/200
18464	ZR18464	T45	60	100/200
18465	ZR18465	T50	60	100/200
18466	ZR18466	T55	60	80/160
18467	ZR18467	T60	60	80/160
18496	ZR18496	T70	60	80/160
18497	ZR18497	T80	60	80/160
18468	ZR18468	T30	78	100/200
18469	ZR18469	T40	78	100/200
18470	ZR18470	T45	78	80/160
18474	ZR18474	T50	78	80/160
18475	ZR18475	T55	78	50/100
18476	ZR18476	T60	78	50/100

3 UDARNI TORX NASTAVEK 1/2”

• UDARNI TORX NASTAVAK 1/2“ • UDARNI TORX NASTAVAK 1/2“



1/2” CrMo SCM-440

- Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size (mm)	L (mm)	
18477	ZR18477	E10	60	90/180
18479	ZR18479	E11	60	90/180
18480	ZR18480	E12	60	90/180
18485	ZR18485	E14	60	90/180
18486	ZR18486	E16	60	90/180
18487	ZR18487	E18	60	90/180
18488	ZR18488	E20	60	75/150

4 HEX NASTAVEK 1/2” SET 8 KOM

• 8 KOM. UDARNI HEX NASTAVCI 1/2“
• 8 KOM. UDARNI HEX NASTAVCI 1/2“



1/2” CrMo SCM-440

- Made of Cr-Mo steel, adapted to operate the hammer

Code	Size (mm)	Package	
18489	5, 6, 8, 10, 12, 14, 17, 19	rail/ cardboard	20
18491	5, 6, 8, 10, 12, 14, 17, 19	plastic box	10

5 UDARNI TORX NASTAVEK 1/2” SET 8 KOM

• 8 SETI UDARNIH TORX NASTAVAKA 1/2“ • 8 SETI UDARNIH TORX NASTAVAKA 1/2“



1/2” CrMo SCM-440

- Made of Cr-Mo steel, adapted to operate the hammer

Code	Type	Package type	
18492	T30, T40, T45, T50, T55, T60, T70, T80	rail/ cardboard	20
18493	T30, T40, T45, T50, T55, T60, T70, T80	plastic box	10

6 UDARNI PODALJŠEK

• UDARNI PRODUŽETAK • UDARNI PRODUŽETAK



1/2” 3/4” CrMo SCM-440

- Enable work in places difficult to access
- Made from strong CrMo steel thanks to which they do not break during impact work

Code	Code on the suspension	Socket	L (mm)	
1/2”				
18471	ZR18471	1/2”	75	40/160
18472	ZR18472	1/2”	125	28/112
18473	ZR18473	1/2”	250	30/60
3/4”				
18901	ZR18901	3/4”	100	5/20
18902	ZR18902	3/4”	175	8/16
18903	ZR18903	3/4”	250	6/12
18904	ZR18904	3/4”	330	5/20

7 ZGLOB UDARNI KARDANSKI

• UDARNI KARDANSKI ZGLOB • UDARNI KARDANSKI ZGLOB



1/2” 3/4” CrMo SCM-440

- Enable to work at 0 to 25 degrees

Code	Code on the suspension	Socket	L (mm)	
18478	ZR18478	1/2”	63	25/100
18906	ZR18906	3/4”	102	4/32

8 UDARNI ADAPTER

• UDARNI ADAPTERI • UDARNI ADAPTERI



1/2” 3/4” CrMo SCM-440

- Enable cooperation of ratchets, sockets and other accessories with different dimensions

Code	Code on the suspension	Socket (F)	Foot (M)	
18481	ZR18481	1/2”	3/8”	60/240
18482	ZR18482	1/2”	3/4”	40/160
18484	ZR18484	3/4”	1/2”	12/48
18907	ZR18907	3/4”	1”	12/48

1 UDARNI NASTAVKI - SET

• SET UDARNIH NASADNIH KLJUČEVA • SET UDARNIH NASADNIH KLJUČEVA



1/2" 3/4" CrMo SCM-440 PRO DRIVE

• **18490** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 22 (L = 39) • **18908** - 3/4" - 22, 24, 27, 30, 31 (L = 52) • 41 (L = 62)
• Delivered in metal boxes

Code	Square	Range (mm)	Quantity (pcs)	
18490	1/2"	10 - 22	10	12
18908	3/4"	22 - 41	8	4

2 UDARNI GLOBOKI NASTAVKI - SET

• SET UDARNIH NASADNIH KLJUČEVA DUGIH • SET UDARNIH NASADNIH KLJUČEVA DUGIH



1/2" 3/4" CrMo SCM-440 PRO DRIVE

• **18494** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 23, 24 (L = 78) • **18495** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm (L = 78) • **18909** - 3/4" - 22, 24, 27, 30, 32, 36 • (L = 90) • 38, 41 mm (L = 92) • Delivered in metal boxes

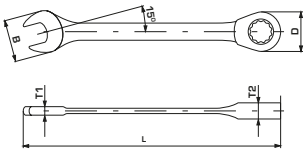
Code	Square	Range (mm)	Quantity (pcs)	
18494	1/2"	10 - 24	11	8
18495	1/2"	10 - 32	15	4
18909	3/4"	22 - 41	8	3

1 KLJUČ KOMBINIRANI RAGLJA

PROLINE HD

• KOMBINIRANI KLJUČ SA RAČNOM • KOMBINIRANI KLJUČ SA RAČNOM









10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 47±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T 1 (mm)	T2 (mm)	BOX	
35468	8	134.4	16.7	17.1	4.7	7.4	x	10/100
35469	9	158.5	21.0	21.0	5.5	7.4	x	10/100
35470	10	158.5	21.0	21.0	5.5	7.4	x	10/100
35471	11	164.6	23.0	22.6	6.0	8.7	x	10/100
35472	12	167.7	25.0	23.8	6.2	8.7	x	10/100
35473	13	177.4	27.5	24.9	6.0	8.7	x	10/100
35474	14	189.5	29.0	27.0	7.0	8.7	x	10/100
35475	15	198.4	31.5	28.1	7.2	10.3	x	10/100
35476	16	205.4	33.0	29.9	7.5	10.3	x	10/100
35477	17	224.4	34.9	31.9	8.0	10.3	x	10/100
35478	18	235.4	36.5	33.4	8.6	10.6	x	10/100
35479	19	246.4	38.9	34.4	8.8	10.6	x	8/80

2 KLJUČ KOMBINIRANI RAGLJA - SET

PROLINE HD

• SET KOMBINIRANIH KLJUČEVA SA RAČNOM
• SET KOMBINIRANIH KLJUČEVA SA RAČNOM





10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 47±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°
• **7 pcs.:** 8, 10, 12, 13, 14, 17, 19 mm

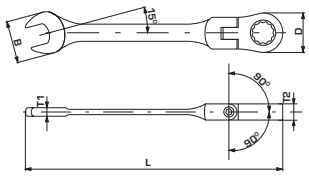
Code	Quantity (pcs)	Range (mm)	BOX	
35487	7	8 - 19	x	20

3 KLJUČ KOMBINIRANI PREGIBNI RAGLJA

PROLINE HD

• KOMBINIRANI KLJUČ SA RAČNOM ZGLOBNI
• KOMBINIRANI KLJUČ SA RAČNOM ZGLOBNI









10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 47±2

• Forged • Chromium-plated • Satin • Joint range of motion: ±90°
• Minimum work angle: 15°

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	BOX	
35448	8	135	17.0	17.4	4.9	7.4	x	10/100
35449	9	158	20.8	20.9	5.8	7.4	x	10/100
35450	10	160	20.8	20.9	5.8	7.4	x	10/100
35451	11	175	25.1	23.4	6.2	8.7	x	10/100
35452	12	175	25.1	23.4	6.2	8.7	x	10/100
35453	13	185	27.2	24.9	6.4	8.7	x	10/100
35454	14	193	29.3	27.4	7.0	8.7	x	10/100
35455	15	220	33.0	30.4	7.4	10.3	x	10/100
35456	16	213	33.0	30.4	7.4	10.3	x	10/100
35457	17	230	35.2	31.9	8.2	10.3	x	10/100
35458	18	249	39.4	34.5	9.0	10.5	x	10/80
35459	19	250	39.4	34.5	9.0	10.5	x	10/80

4 KLJUČ KOMBINIRANI PREGIBNI RAGLJA - SET

PROLINE HD

• SET KOMBINIRANIH KLJUČEVA SA RAČNOM ZGLOBNI
• SET KOMBINIRANIH KLJUČEVA SA RAČNOM ZGLOBNI





10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 47±2

• Forged • Chromium-plated • Satin • Joint range of motion: ±90°
• Minimum work angle: 5° • **7 pcs.:** 8, 10, 12, 13, 14, 17, 19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35497	7	8 - 19	x	20

1 KLJUČ KOMBINIRANI Z RAGLJO ZAKRIVLJEN

PROLINE HD

• KOMBINIRANI KLJUČ SA RAČNOM
• KOMBINIRANI KLJUČ SA RAČNOM



10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°
• Ratchet mechanism reversible by a switch

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
35688	8	135	18.5	17.7	7.7	5.1	3.0	8.3	x	10/100
35689	9	142	20.5	19.1	7.7	5.3	3.3	9.2	x	10/100
35690	10	158	22.5	21.2	8.2	5.8	3.6	9.8	x	10/100
35691	11	167	25.0	22.6	8.2	5.9	3.9	11.2	x	10/100
35692	12	173	26.9	23.8	8.8	6.1	4.1	11.9	x	10/100
35693	13	179	29.0	25.9	8.9	6.6	4.4	12.5	x	10/100
35694	14	189	31.5	27.7	9.3	7.5	4.8	13.1	x	10/100
35695	15	199	34.0	29.2	9.4	7.9	5.0	14.5	x	10/100
35696	16	215	35.7	31.8	9.9	7.9	5.2	15.1	x	10/100
35697	17	232	38.3	34.1	10.6	8.0	5.4	15.7	x	10/50
35698	18	238	40.1	34.0	11.0	8.5	5.5	16.0	x	10/50
35699	19	247	42.0	35.1	11.2	8.9	6.0	17.7	x	10/50

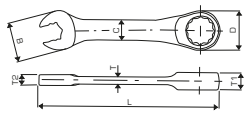
2 KLJUČ KOMBINIRANI Z RAGLJO

PROLINE HD

• KOMBINIRANI KLJUČ SA RAČNOM
• KOMBINIRANI KLJUČ SA RAČNOM







10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	D (mm)	B (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
35378	8	88	17.5	18	7.0	5.1	3.2	8.6	x	20/100
35380	10	96	21	21.3	7.7	5.5	4	10.6	x	20/100
35381	11	100	22.7	23.7	8.3	5.9	4.3	11.5	x	20/100
35382	12	104	24	25.4	8.7	6.1	4.5	12.2	x	20/100
35383	13	108	26	26.8	9.3	6.3	4.7	12.8	x	20/100
35384	14	114	27.7	29.8	9.4	6.7	5.2	14.2	x	20/100
35385	15	118	29.1	31.6	10.0	7.1	5.3	14.8	x	20/100
35386	16	122	30.7	33.8	10.6	7.9	5.4	15.4	x	20/100
35387	17	128	32.6	36.2	10.9	7.8	5.6	16.0	x	20/100
35389	19	138	34.8	40	11.5	8.5	6.3	17.4	x	20/100

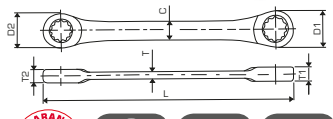
3 KLJUČ OBROČNI Z RAGLJO

PROLINE HD

• OKASTI KLJUČ SA RAČNOM • OKASTI KLJUČ SA RAČNOM







10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
36658	8 x 9	128	21.0	17.5	7.7	7.0	4.0	10.6	x	20/100
36659	8 x 10	128	21.0	17.5	7.7	7.0	4.0	10.6	x	20/100
36660	10 x 13	160	26.0	21.0	9.3	7.7	4.7	12.8	x	20/100
36662	12 x 13	170	26.0	24.0	9.3	8.7	4.7	12.8	x	20/100
36664	14 x 15	190	30.7	27.7	10.0	9.4	5.4	15.4	x	20/100
36666	16 x 18	230	34.8	32.6	11.2	10.6	6.3	17.4	x	20/100
36667	17 x 19	230	34.8	32.6	11.5	10.9	6.3	17.4	x	20/100
36670	20 x 24	290	47.5	42.0	14.5	13.0	7.0	20.6	x	10/50
36672	22 x 24	290	47.5	42.0	14.5	13.0	7.0	20.6	x	10/50

4 KLJUČI OBROČNI Z RAGLJO - SET

PROLINE HD

• OKASTI KLJUČ SA RAČNOM SET • OKASTI KLJUČ SA RAČNOM SET





10 lat GWARANCJI 10 YEAR WARRANTY | 72 | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°
• **5 pcs.:** 8x10, 12x13, 14x15, 16x18, 17x19 mm

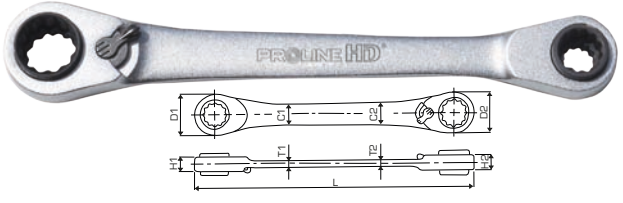
Code	Quantity (pcs)	Range (mm)	BOX	
36650	5	8 - 19	x	10

5 KLJUČ OBROČNI 4 V 1

PROLINE HD

• OKASTI KLJUČ 4U1 • OKASTI KLJUČ 4U1





10 lat GWARANCJI 10 YEAR WARRANTY | 4in1 | 72 | CrV 6140 | HRC 44±2

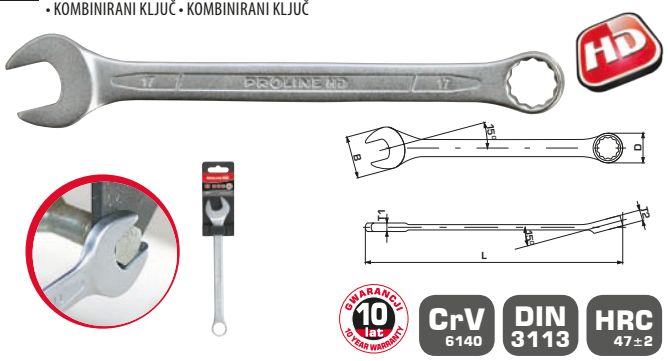
• Forged • Chromium-plated • Satin • Minimum work angle: 5° • Four dimensions in a single spanner with a mechanism reversible by a switch

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	H1 (mm)	H2 (mm)	C1 (mm)	C2 (mm)	T1 (mm)	T2 (mm)		
36811	8 x 10 x 12 x 13	160	21.5	26.5	8.9	9.8	10.1	12.8	3.4	4.0	x	10/100
36812	10 x 13 x 17 x 19	210	26.5	35.6	9.8	12.2	15.3	18.0	4.0	5.8	x	5/50
36813	16 x 17 x 18 x 19	230	34.5	35.6	11.7	12.2	16.0	18.0	5.2	5.8	x	5/50

1 KLJUČ KOMBINIRANI

PROLINE HD

• KOMBINIRANI KLJUČ • KOMBINIRANI KLJUČ



GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 3113 | HRC 47±2

• Forged • Chromium-plated • Satin • Meet the dimension-related requirements of German DIN 3113 standard • The maximum torque is 60% higher than in German DIN 899 and in US ANSI standard

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)		
35606	6	109	14.5	10.2	3.5	5.3	x	15/90
35607	7	110	16.3	11.2	3.6	5.3	x	15/90
35608	8	120	18.7	12.7	4.0	5.8	x	15/90
35609	9	130	20.8	14.0	4.1	6.6	x	15/90
35610	10	140	22.7	15.1	4.6	7.0	x	15/90
35611	11	159	24.7	16.7	5.0	7.5	x	15/90
35612	12	160	27.2	17.9	5.1	8.1	x	15/90
35613	13	170	28.8	19.7	5.8	8.7	x	15/90
35614	14	180	31.4	20.6	6.0	9.0	x	15/90
35615	15	199	33.3	22.2	6.4	9.3	x	15/90
35616	16	200	35.1	23.7	6.6	10.0	x	15/60
35617	17	210	37.6	24.9	6.8	11.0	x	15/60
35618	18	220	39.6	26.5	7.6	11.5	x	15/60
35619	19	230	41.4	27.9	7.8	12.2	x	15/60
35620	20	240	44.2	29.7	8.1	12.5	x	15/60
35621	21	250	46.2	30.7	8.4	12.8	x	10/40
35622	22	260	48.3	32.1	8.8	13.2	x	10/40
35623	23	270	49.9	33.5	9.0	13.5	x	10/40
35624	24	280	51.5	34.2	9.4	13.5	x	10/40
35625	25	290	54.7	36.7	9.6	14.3	x	10/40
35626	26	300	56.4	37.2	9.8	15.0	x	10/40
35627	27	310	58.8	39.5	10.2	16.5	x	10/40
35628	28	320	59.5	40.6	10.6	17.0	x	10/40
35629	29	339	61.0	41.6	10.8	17.5	x	5/20
35630	30	340	63.1	43.2	11.1	18.5	x	5/20
35632	32	360	67.4	44.7	11.6	19.5	x	5/20
35634	34	470	69.8	48.7	12.6	19.5	x	2/8
35636	36	510	73.8	52.7	13.6	20.5	x	2/8
35638	38	439	73.8	52.7	13.6	20.5	x	2/8
35641	41	550	83.8	60.7	15.6	21.5	x	3/6
35646	46	549	93.5	69.5	17.2	22.5	x	3/6
35650	50	549	98.8	73.7	17.5	22.5	x	3/6

2 KLJUČI KOMBINIRANI - SET

PROLINE HD

• SET KOMBINIRANIH KLJUČEVA
• SET KOMBINIRANIH KLJUČEVA







GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 3113 | HRC 47±2

• Forged • Chromium-plated • Satin • Meet the dimension-related requirements of German DIN 3113 standard • The maximum torque is 60% higher than in German DIN 899 and in US ANSI standard
• **12 pcs.:** 6, 8, 9, 10, 12, 13, 14, 15, 17, 18, 19, 22 mm • **24 pcs.:** 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm

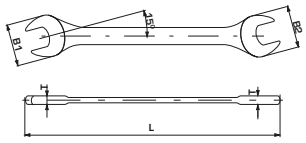
Code	Quantity (pcs)	Range (mm)	BOX	
35662	12	6 - 22	x	10
35664	24	6 - 32	x	8

3 KLJUČ VILIČASTI

PROLINE HD

• VILJUŠKASTI KLJUČ SA OTVORENIM KRAJEM
• VILJUŠKASTI KLJUČ SA OTVORENIM KRAJEM









GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 3110 | HRC 47±2

• Forged • Chromium-plated • Satin • Meet the dimension-related requirements of German DIN 3110 standard • The maximum torque is 60% higher than in German DIN 899 and in US ANSI standard

Code	Size (mm)	L (mm)	B1 (mm)	B2 (mm)	T (mm)		
34006	6 x 7	123	14.2	17.4	3.4	x	10/60
34008	8 x 9	140	18.1	21.3	3.7	x	10/60
34009	8 x 10	145	18.1	21.3	4.2	x	10/60
34010	10 x 11	156	22.1	25.6	4.7	x	10/60
34012	12 x 13	172	27.6	30.1	5.2	x	10/60
34013	10 x 13	174	26.5	30.1	5.2	x	10/60
34014	14 x 15	190	31.6	33.6	5.7	x	10/60
34016	16 x 17	204	36.1	38.1	6.2	x	10/40
34019	17 x 19	223	40.1	42.1	6.7	x	10/40
34018	18 x 19	221	40.1	42.1	6.8	x	10/40
34022	19 x 22	236	44.1	48.1	7.5	x	10/40
34020	20 x 22	237	44.1	48.1	7.5	x	10/40
34021	21 x 23	246	44.1	50.1	7.7	x	10/40
34024	24 x 27	263	53.1	57.6	8.4	x	10/40
34025	25 x 28	267	53.1	57.6	8.4	x	10/40
34027	27 x 32	294	62.1	68.1	9.4	x	10/40
34030	30 x 32	294	64.1	68.1	9.4	x	10/40

4 KLJUČI VILIČASTI - SET

PROLINE HD

• VILJUŠKASTI KLJUČEVI SET • VILJUSŠKAST KLJUČEVI SET





• Forged • Chromium-plated
• Satin • Meet the dimension-related requirements of German DIN 3110 standard • The maximum torque is 60% higher than in German DIN 899 and in US ANSI standard • **6 pcs.:** 6x7, 8x9, 10x11, 12x13, 14x15, 16x17 mm
• **8 pcs.:** 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm



GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 3110 | HRC 47±2

Code	Quantity (pcs)	Range (mm)	BOX	
34036	6	6x7 - 16x17	x	30
34038	8	6x7 - 20x22	x	20

1 KLJUČ VILIČASTI ZA NATANČNA DELA

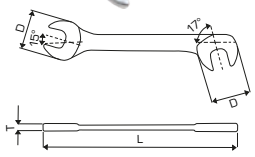
PROLINE HD

• KLJUČ VILJUŠKASTI ZA PRECIZNE RADOVE
• KLJUČ VILJUŠKASTI ZA PRECIZNE RADOVE









GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | HRC 46±2

• Forged • Chromium-plated • Satin • Heads of the same size tilted 75° and 15° and a short, thin handle enable to work in places difficult to reach

Code	Size (mm)	L (mm)	D (mm)	T (mm)		
34054	4	70	10.0	2.4	x	20/200
34055	5	75	13.0	2.4	x	20/200
34056	6	80	15.0	2.7	x	20/200
34057	7	80	15.0	2.7	x	20/200
34058	8	90	18.5	3.0	x	20/200
34059	9	90	18.5	3.0	x	20/200
34060	10	100	22.0	3.0	x	20/200
34061	11	100	22.0	3.0	x	20/200
34062	12	120	27.0	3.5	x	20/200
34063	13	120	27.0	3.5	x	20/200
34064	14	120	27.0	3.5	x	20/100
34065	15	139.4	32.5	4.8	x	20/100
34066	16	139.4	32.5	4.8	x	10/100
34067	17	139.4	32.5	4.8	x	10/100

2 RAVNI OBROČASTI KLJUČ

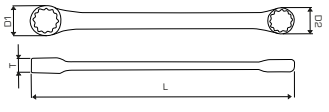
PROLINE HD

• RAVNI OKASTI KLJUČ • RAVNI OKASTI KLJUČ









GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 837 | HRC 46±2

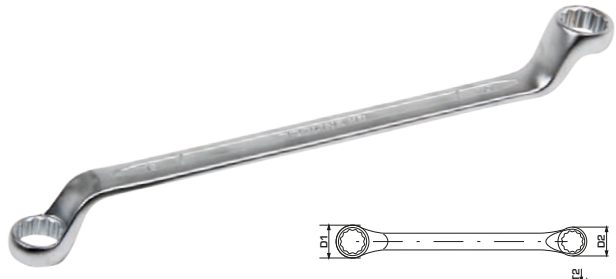
• Forged • Chromium-plated • Satin

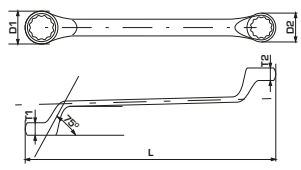
Code	Size (mm)	L (mm)	C (mm)	B (mm)	C' (mm)		
36606	6 x 7	120	12.0	10.8	5.5	x	20/200
36608	8 x 9	135	16.5	13.2	6.5	x	20/200
36610	10 x 11	150	19.8	16.5	7.5	x	20/200
36612	12 x 13	165	22.0	19.8	8.5	x	20/100
36614	14 x 15	185	25.0	22.0	8.5	x	20/100
36616	16 x 17	210	26.5	25.0	9.5	x	20/100
36618	18 x 19	225	28.6	27.6	10.5	x	10/50
36620	20 x 22	240	33.6	30.5	12.5	x	5/50
36621	21 x 23	255	35.2	32.0	12.5	x	5/50
36624	24 x 26	270	39.2	36.5	12.5	x	5/40
36625	25 x 28	285	41.4	37.8	13.5	x	5/40
36630	30 x 32	335	48.0	45	14.5	x	5/20

3 OBROČASTI KLJUČ

PROLINE HD

• KLJUČ OKASTI • KLJUČ OKASTI









GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 838 | HRC 47±2

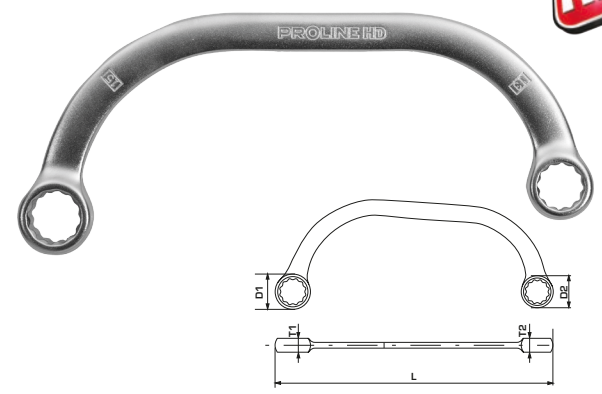
• Forged • Chromium-plated • Satin • Meet the dimension-related requirements of German DIN 3110 standard • The maximum torque is 60% higher than in German DIN 899 and in US ANSI standard

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36006	6 x 7	167	12.0	10.5	6.0	5.3	x	5/30
36008	8 x 9	182	15.0	13.5	7.0	6.3	x	5/30
36010	10 x 11	198	18.0	16.5	8.5	7.3	x	5/30
36012	12 x 13	217	21.0	19.5	9.0	8.7	x	5/20
36014	14 x 15	239	23.5	22.0	9.5	9.0	x	5/20
36016	16 x 17	204	26.5	25.5	11.0	10.5	x	5/20
36018	18 x 19	290	29.5	27.3	12.0	11.0	x	5/20
36020	20 x 22	316	34.5	31.5	13.0	12.0	x	5/20
36021	21 x 23	316	35.0	32.0	13.0	12.0	x	5/20
36024	24 x 27	345	41.2	37.2	14.1	12.5	x	2/8
36025	25 x 28	345	43.0	39.5	14.5	13.5	x	2/8
36030	30 x 32	360	48.5	45.3	16.5	15.0	x	2/8



1 KLJUČ ZA ZAGANJAČ

• KLJUČ TIP C • KLJUČ TIP C





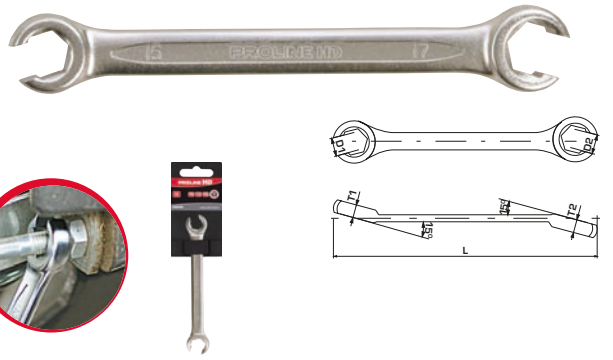
GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | HRC 46±2

• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36068	8 x 10	137	14.3	15.6	6.5	6.2	x	10/200
36070	10 x 12	141	18.2	15.6	6.6	6.5	x	10/200
36071	11 x 13	166	21.0	18.2	8.2	8.0	x	10/100
36073	13 x 15	190	25.0	22.0	9.2	8.2	x	10/100
36074	14 x 17	190	25.0	22.0	9.2	8.2	x	10/100
36079	19 x 22	256	32.5	28.6	11.1	10.1	x	6/60

2 KLJUČ ZA MATICE

• KLJUČ ZA KOČNICE
• KLJUČ ZA KOČNICE



GWARANCJI 10 lat 10 YEAR WARRANTY | CrV 6140 | DIN 3118 | HRC 46±2

• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T 1 (mm)	T2 (mm)		
36046	6 x 8	126	4.5	6.0	6.6	8.2	x	10/200
36048	8 x 9	145	6.0	6.5	7.0	8.5	x	10/200
36049	9 x 11	152	6.5	8.5	8.5	9.0	x	10/200
36050	10 x 12	152	7.0	9.0	8.5	9.0	x	10/200
36052	12 x13	165	9.0	10.0	9.0	10.5	x	10/200
36053	13 x 14	178	10.0	11.0	9.5	11.0	x	10/100
36055	15 x 17	196	12.0	14.0	11.0	12.0	x	10/100
36059	19 x 21	233	15.0	16.0	14.0	16.0	x	10/60
36062	22 x 24	252	17.0	18.0	16.0	17.0	x	10/80



1 KLJUČ OBROČASTI TORX

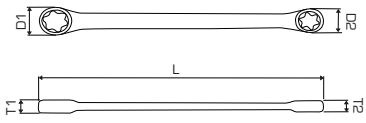
• OKASTI KLJUČ TORX • OKASTI KLJUČ TORX

PROLINE HD









10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 46±2

• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36686	E6 x E8	113	11.2	9.2	5.6	4.6	x	20/200
36690	E10 x E12	142	16.7	14.4	7.8	6.5	x	20/200
36694	E14 x E18	182	21.2	17.2	9.8	82	x	20/200
36695	E20 x E24	224	28.7	24.8	13.0	11.0	x	10/100

2 KLJUČ OBROČASTI TORX - SET

• OKASTI KLJUČ TORX SET • OKASTI KLJUČ TORX SET

PROLINE HD







• Forged • Chromium-plated • Satin
• **4 pcs.**: E6xE8, E10xE12, E14xE18, E20xE24 mm

10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 46±2

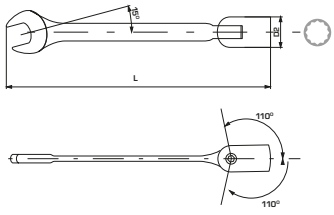
Code	Quantity (pcs)	Range (mm)	BOX	
36680	4	E6 x E8 - E20 x E24	x	10

3 KLJUČ NASADNI PREGIBNI KOMBINIRAN

• KOMBINIRANI ZGLOBNI KLJUČ S NASADNIM KLJUČEM • KOMBINOVANI ZGLOBNI KLJUČ S NASADNIM KLJUČEM

PROLINE HD









10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Ground heads
• Socket: 50BV30 • Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	D2 (mm)		
36090	10	180	15	x	30/120
36093	13	210	19	x	25/100
36097	17	235	24	x	25/50
36099	19	235	26	x	25/50

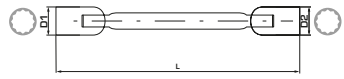
4 KLJUČ NASADNI

• ZGLOBNI NASADNI KLJUČ • ZGLOBNI NASADNI KLJUČ

PROLINE HD









10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Ground heads • Socket: 50BV30
• Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)		
36136	6 x 7	180	9.5	10.9	x	25/100
36138	8 x 9	180	13.0	14.0	x	25/100
36140	10 x 11	200	15.0	16.0	x	25/100
36142	12 x 13	220	18.0	19.0	x	30/120
36144	14 x 15	242	20.0	22.0	x	25/100
36146	16 x 17	254	24.0	24.0	x	25/50
36147	17 x 19	260	24.0	26.0	x	30/60
36148	18 x 19	275	26.0	26.0	x	25/50
36150	20 x 22	305	28.0	30.5	x	12/24
36151	21 x 23	305	29.8	33.0	x	12/24
36154	24 x 27	335	33.0	37.0	x	12/24
36160	30 x 32	350	40.0	42.0	x	6/12

5 KLJUČ NASADNI PREGIBNI - SET

• SET ZGLOBNIH NASADNIH KLJUČEVA
• SET ZGLOBNIH NASADNIH KLJUČEVA

PROLINE HD







• Forged • Chromium-plated • Satin
• Ground heads • Socket: 50BV30
• Head range of motion: 220° ±5°
• **6 pcs.**: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19 mm

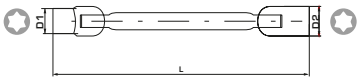
10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

Code	Quantity (pcs)	Range (mm)	BOX	
36166	6	8x9 - 18x19	x	12

1 KLJUČ NASADNI PREGIBNI TORX (ŽENSKI) PROLINE HD

• ZGLOBNI TORX NASADNI KLJUČ
• ZGLOBNI TORX NASADNI KLJUČ











10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Socket: 50BV30 • Head range of motion: 220° ±5°

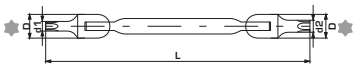
Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)		
36116	E6 x E8	182	8.3	9.9	x	25/100
36120	E10 x E12	200	12.0	15.0	x	25/100
36124	E14 x E16	220	16.3	19.0	x	25/100
36128	E18 x E20	240	20.5	22.0	x	25/50
36132	E22 x E24	258	25.0	26.0	x	25/50

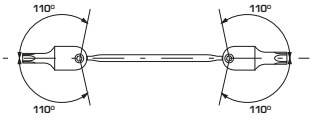
2 KLJUČ PREGIBNI TORX

PROLINE HD

• ZGLOBNI TORX KLJUČ • ZGLOBNI TORX KLJUČ











10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • TORX: 8660V
• Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	d1 (mm)	d2 (mm)	D (mm)		
36106	T15 x T20	220	3.26	3.8	15	x	25/100
36107	T25 x T27	220	4.40	5.0	15	x	25/100
36108	T30 x T40	220	5.48	6.6	15	x	25/100
36109	T45 x T50	240	7.70	8.8	18	x	25/50
36110	T55 x T60	240	11.17	13.2	18	x	25/50



3 KLJUČ NASADNI PREGIBNI TORX - SET

PROLINE HD

• SET FLEKSIBILNIH TORX NASADNIH KLJUČEVA
• SET FLEKSIBILNIH TORX NASADNIH KLJUČEVA







10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Head range of motion: 220° ±5° • The maximum torque is 30% higher than in German DIN 896 standard
• **5 pcs.**: T15xT20, T25xT27, T30xT40, T45xT50, T55xT60

Code	Quantity (pcs)	Range (mm)	BOX	
36105	5	T15xT20 - T55xT60	x	12

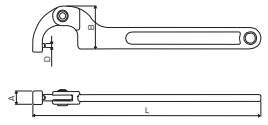
1 KLJUČ "PIN" S FLEKSIBILNIM PODALJŠKOM

PROLINE HD

- „PIN" KLJUČ S FLEKSIBILNIM PRODUŽETKOM
- „PIN" KLJUČ S FLEKSIBILNIM PRODUŽETKOM







10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140

• Forged • Chromium-plated • Satin

Code	Range (mm)	L (mm)	A (mm)	B (mm)	Ø D (mm)	
36805	15-35	168	9.8	31	2.8	10/100
36806	35-50	202	10.7	39	3.8	10/50
36807	50-80	280	14.0	55	4.8	10/50
36808	80-120	345	17.2	75	5.8	10/20
36809	120-180	465	19.2	110	7.8	10

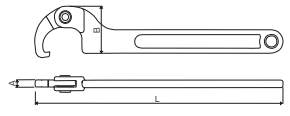
2 KLJUČ "CLAW" S FLEKSIBILNIM PODALJŠKOM

PROLINE HD

- „PIN" KLJUČ S FLEKSIBILNIM PRODUŽETKOM
- „PIN" KLJUČ S FLEKSIBILNIM PRODUŽETKOM







10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140

• Forged • Chromium-plated • Satin

Code	Range (mm)	L (mm)	A (mm)	B (mm)	
36800	15-35	168	5.2	31	10/100
36801	35-50	202	5.9	39	10/100
36802	50-80	280	7.5	55	10/50
36803	80-120	345	8.2	75	10/20
36804	120-180	465	10.8	110	10

3 KLJUČ NASADNI, DVOSTRANSKI, UPOGNJEN "L"

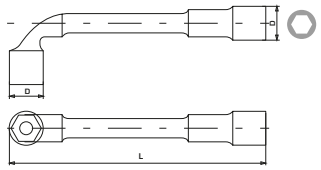
PROLINE HD

- OKASTI KLJUČ UDARNI „L" • SAVIJENI CJEVASTI KLJUČ „L"









10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | HRC 46±2

• Forged • Chromium-plated • Satin • With one-side opening

Code	Size (mm)	L (mm)	D (mm)		
36168	8	114	12.5	x	10/100
36170	10	129	15.0	x	10/100
36172	12	144	18.0	x	10/100
36173	13	152	19.5	x	10/100
36174	14	160	21.0	x	10/100
36175	15	169	22.5	x	10/60
36177	17	187	25.5	x	10/40
36179	19	204	28.0	x	10/40
36182	22	230	32.0	x	10/20
36184	24	250	34.5	x	10/20
36187	27	280	38.0	x	5/10
36190	30	310	42.0	x	5/10
36192	32	330	44.5	x	5/10

4 KLJUČ CEVASTI

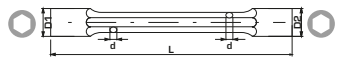
PROLINE HD

• CJEVASTI KLJUČ • CJEVASTI KLJUČ









10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | DIN 896 | HRC 42±2

• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	d (mm)	D1 (mm)	D2 (mm)		
36216	6 x 7	105	3	10	11	x	20/400
36218	8 x 9	110	3	13	14	x	10/300
36220	10 x 11	120	5	15	16	x	10/300
36222	12 x 13	140	6	18	19	x	10/120
36224	14 x 15	145	6	20	22	x	10/120
36226	16 x 17	155	7	23	24	x	12/120
36228	18 x 19	165	8	25	26	x	10/100
36230	20 x 22	170	8	28	30	x	10/100
36234	24 x 26	190	12	33	35	x	5/40
36237	27 x 29	210	12	37	39	x	5/40
36240	30 x 32	210	13	40	42	x	5/30

5 KLJUČ CEVASTI - SET

PROLINE HD

• SET CJEVASTIH KLJUČEVA • SET CJEVASTIH KLJUČEVA





- Forged • Chromium-plated • Satin
- **5 pcs.**: 8x9, 10x11, 12x13, 14x15, 16x17mm



10 lat GWARANCJI 10 YEAR WARRANTY | CrV 6140 | DIN 896 | HRC 42±2

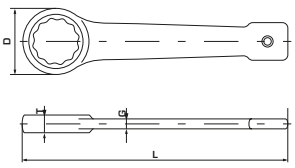
Code	Quantity (pcs)	Range (mm)	BOX	
36215	5	8x9 - 16x17	x	10

1 KLJUČ OBROČNI

• KRUŽNI KLJUČ • KRUŽNI KLJUČ







10 lat GWARANCJI 10 YEAR WARRANTY | CrMo | DIN 7444 *

• Forged • Phosphated • Reinforced slogging head • Made from CrMo steel

* not applicable to: 36922, 36924, 36938

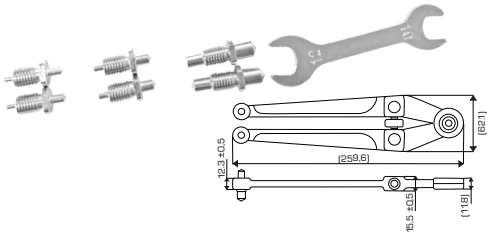
	Code	Size (mm)	L (mm)	D (mm)	T (mm)	G (mm)	
HRC 38±2	36922	22	160	42.0	15.5	8.0	5/50
	36924	24	162	42.0	15.5	8.0	5/50
	36927	27	178	45.5	16.5	9.5	5/50
	36930	30	187	51.5	17.0	9.5	5/50
	36932	32	190	51.5	17.5	9.5	5/50
	36936	36	203	57.0	18.0	10.5	5/40
	36938	38	204	57.0	18.0	10.5	5/40
	36941	41	230	66.0	21.0	12.0	5/20
	36946	46	237	73.0	22.0	13.5	5/20
HRC 34±2	36950	50	253	79.5	24.5	15.5	2/16
	36955	55	270	88.0	25.5	16.5	2/12
	36960	60	280	93.0	27.5	18.0	2/12
	36965	65	280	101.0	28.5	17.5	2/12

2 KLJUČ ZA OKROGLE MATICE

• KLJUČ ZA PRSTENASTE MATICE S PREDNJIM OTVORIMA • KLJUČ ZA PRSTENASTE MATICE S PREDNJIM OTVORIMA









10 lat GWARANCJI 10 YEAR WARRANTY | 18-100 mm | x4 | CrV 6140

• Forged • Chromium-plated • Satin • Designed for unscrewing and tightening nuts with frontal openings • Adjusted with a knob
• Adjustment range from 18 to 100 mm • The box contains 4 pairs of replaceable, round and two-sided pins of different sizes and a spanner

Code	Pins' size (mm)	Range (mm)	
36810	2.5, 3, 4, 5, 6, 7, 8, 9	18-100	20

Spanners PROLINE HD

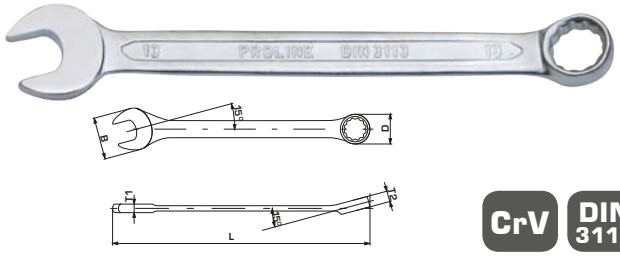


Forged, chromium-plated, satin

From high quality CrMo steel 6140

1 KLJUČ KOMBINIRANI

• KOMBINIRANI KLJUČ • KOMBINIRANI KLJUČ



CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)		
35406	6	100	15.0	9.5	3.4	5.2	x	20/600
35407	7	110	17.5	10.5	3.6	5.7	x	20/600
35408	8	120	19.5	12.0	3.8	6.2	x	20/600
35409	9	129	21.5	13.5	4.0	6.7	x	20/400
35410	10	139	22.5	15.0	4.2	7.2	x	20/320
35411	11	149	24.0	16.5	4.5	7.7	x	20/320
35412	12	159	27.0	18.0	4.8	8.2	x	20/240
35413	13	169	29.0	19.5	5.0	8.7	x	20/240
35414	14	179	31.0	21.0	5.2	9.2	x	20/180
35415	15	189	33.0	22.5	6.0	9.7	x	20/180
35416	16	199	33.3	24.0	6.3	10.2	x	20/120
35417	17	209	37.0	25.5	6.7	10.7	x	20/120
35418	18	219	37.3	27.0	7.0	11.2	x	10/120
35419	19	228	39.0	28.5	7.4	11.5	x	10/100
35420	20	238	40.8	30.0	7.8	12.0	x	10/100
35421	21	248	43.0	31.5	8.5	12.5	x	10/80
35422	22	259	47.0	33.0	8.8	13.0	x	10/80
35423	23	269	47.5	34.5	8.7	13.5	x	10/60
35424	24	278	49.0	36.0	8.6	14.0	x	10/60
35427	27	309	57.0	40.5	8.8	15.5	x	10/40
35430	30	338	62.0	43.0	9.2	17.0	x	5/40
35432	32	348	65.0	46.0	9.5	18.0	x	5/40

2 KLJUČ KOMBINIRANI - SET

• SET KOMBINIRANIIH KLJUČEVA • SET KOMBINIRANIH KLJUČEVA



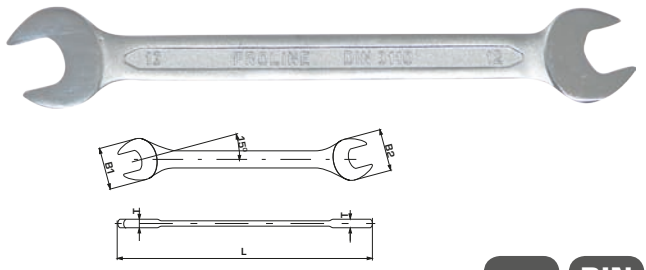
CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated
• **6 pcs.**: 8, 10, 12, 13, 14, 17 mm
• **8 pcs.**: 6, 8, 10, 12, 13, 14, 17, 19 mm
• **12 pcs.**: 6, 8, 9, 10, 12, 13, 14, 15, 17, 18, 19, 22 mm

Code	Quantity (pcs)	Range (mm)	
35306	6	8 - 17	4/32
35308	8	6 - 19	4/24
35312	12	6 - 22	2/16

3 KLJUČ VILIČASTI

• KLJUČ VILJUŠKASTI • KLJUČ VILJUŠKASTI



CrV DIN 3110

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	B1 (mm)	B2 (mm)	T (mm)		
34306	6 x 7	123	17.3	15.5	3.5	x	20/600
34308	8 x 9	139	21.2	19.5	3.8	x	20/400
34309	8 x 10	138	21.2	19.2	3.8	x	20/400
34310	10 x 11	155	24.8	21.8	4.5	x	20/320
34312	12 x 13	170	28.0	26.8	5.0	x	20/240
34313	10 x 13	171	28.0	22.3	5.3	x	20/240
34314	14 x 15	188	31,8	30,5	5,3	x	20/160
34316	16 x 17	203	36.8	34.5	6.5	x	20/160
34317	13 x 17	203	36.8	30.5	6.2	x	20/160
34318	18 x 19	222	40.4	38.5	6.3	x	20/120
34319	17 x 19	223	40.4	38.5	6.3	x	20/120
34320	20 x 22	233	44.5	40.5	7.2	x	10/80
34321	21 x 23	251	47.5	43.9	8.2	x	10/80
34322	19 x 22	234	44.8	40.8	7.5	x	10/80
34324	24 x 27	264	55.7	51.0	8.5	x	10/60
34325	25 x 28	280	57.5	52.0	8.5	x	10/40
34327	27 x 32	301	64.5	55.0	9.5	x	10/40
34330	30 x 32	301	64.5	60.5	9.5	x	10/40

4 KLJUČ KOMBINIRANI - SET

• SET KOMBINIRANIH KLJUČEVA • SET KOMBINOVANIH KLJUČEVA





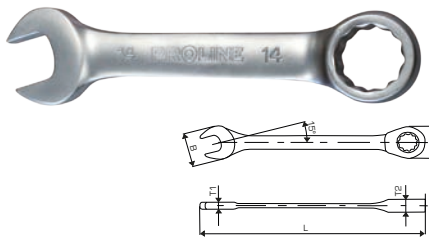
CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated
• **24 pcs.**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35324	24	6 - 32	x	4

1 KLJUČ KOMBINIRANI STUBBY

• KOMBINIRANI KLJUČ STUBBY • KOMBINOVANI KLJUČ STUBBY



CrV

• Forged cold • Chromium-plated

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)		
35348	8	88	17.6	14.2	4.6	6.7	x	10/120
35349	9	92	19.4	15.5	4.7	7	x	10/120
35350	10	101	21.3	16.5	5	7.5	x	10/120
35351	11	106	23.2	18.9	5.6	8	x	10/120
35352	12	109	25	19.8	5.9	8.5	x	10/120
35353	13	115	26.9	20.9	6.2	9	x	10/120
35354	14	118	29.4	22.8	6.4	9.5	x	10/120
35355	15	123	30.2	24.8	6.6	10	x	10/120
35356	16	127	33.4	25.8	6.8	10.5	x	10/120
35357	17	134	35.5	27.2	7.1	11	x	10/120
35358	18	138	37.5	28.7	7.5	11.5	x	10/120
35359	19	140	38	30.2	7.8	12	x	10/120

2 KLJUČ KOMBINIRANI STUBBY - SET

• SET KOMBINIRANIH KLJUČEVA STUBBY
• SET KOMBINOVANIH KLJUČEVA STUBBY



CrV

• Forged cold • Chromium-plated
• **6 pcs.**: 10, 12, 13, 14, 15, 17 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35340	6	10 - 17	x	40

3 KLJUČ VILIČASTI - SET

• SET VILJUŠKASTIH KLJUČEVA • SET METRIČNIH KLJUČEVA S OTVORENIM KRAJEM



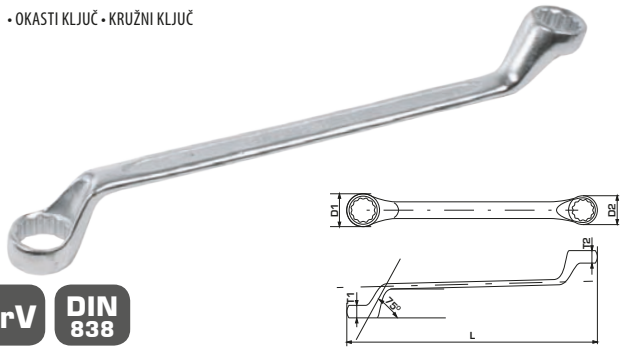
CrV DIN 3110

• Cold forged • Ground heads
• Chromium-plated
• **6 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17 mm
• **8 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm
• **12 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Code	Quantity (pcs)	Range (mm)	
34406	6	6x7 – 16x17	4/32
34408	8	6x7 – 20x22	4/16
34412	12	6x7 – 30x32	2/8

4 KLJUČ OBROČNI

• OKASTI KLJUČ • KRUŽNI KLJUČ



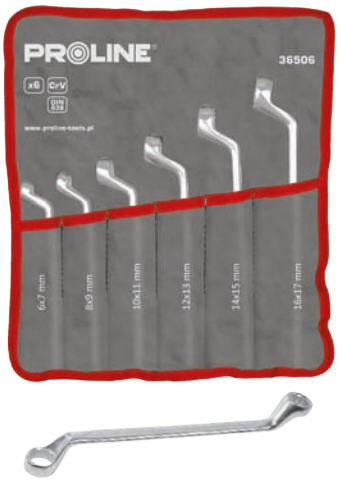
CrV DIN 838

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36566	6 x 7	175	12.1	10.4	6.2	5.2	x	20/320
36568	8 x 9	182	14.7	13.4	7.2	6.3	x	20/300
36570	10 x 11	195	17.6	16.2	9.2	8.1	x	10/200
36572	12 x 13	222	20.5	19.2	10.0	9.9	x	10/160
36574	14 x 15	223	23.2	22.0	10.8	10.5	x	10/120
36576	16 x 17	244	26.4	25.2	12.1	11.6	x	10/80
36578	18 x 19	278	29.5	27.5	12.6	12.5	x	10/80
36580	20 x 22	287	33.5	30.5	14.5	13.4	x	10/60
36581	21 x 23	307	34.0	31.2	14.3	12.8	x	5/40
36584	24 x 27	330	40.8	37.5	15.5	14.5	x	5/40
36585	25 x 28	345	42.5	38.2	15.5	14.5	x	5/40
36590	30 x 32	370	47.5	44.3	16.5	16.3	x	5/30

5 KLJUČ OBROČNI - SET

• SET OKASTIH KLJUČEVA • SET PRSTENASTIH KLJUČEVA





CrV DIN 838

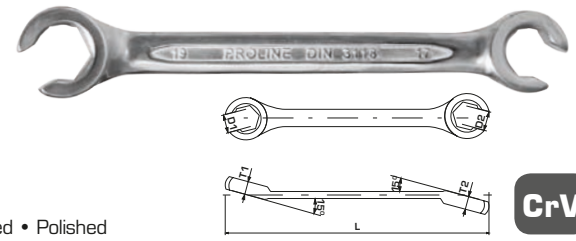
• Cold forged • Ground heads • Chromium-plated
• **6 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17 mm
• **8 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm
• **12 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36506	6	6x7 - 16x17	x	20
36508	8	6x7 - 20x22	x	12
36512	12	6x7 - 30x32	x	4



1 KLJUČ ZA MATICE

• KLJUČ ZA KOČNICE • KLJUČ ZA MATICE



• Forged • Polished

CrV

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36408	8 x 9	140	6.5	5.3	6.1	5.4	x	10/300
36410	10 x 11	152	8.7	7.2	7.7	7.0	x	10/300
36412	12 x 13	160	10.3	9.2	9.7	8.6	x	10/200
36413	13 x 14	170	11.2	10.2	10.3	9.3	x	10/200
36415	15 x 17	195	14.3	12.3	11.3	10.5	x	10/100
36417	17 x 19	209	15.3	14.3	12.8	12.2	x	10/80
36419	19 x 21	229	17.3	15.2	14.2	12.6	x	10/80

2 KLJUČ ZA MATICE - SET

• SET KLJUČEVA ZA KOČNICE • SET KLJUČEVA ZA KOČNICE





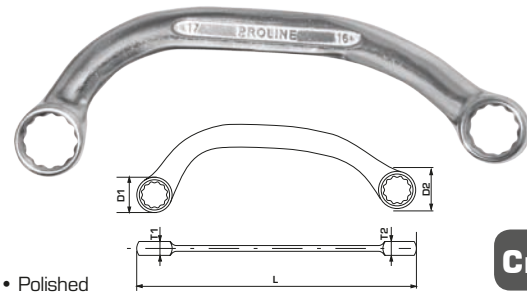
CrV

• Forged • Polished
• **5 pcs.**: 10x11, 12x13, 13x14, 15x17, 17x19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36445	5	10x11 - 17x19	x	20

3 KLJUČ ZA ZAGANJAČ TIP C

• KLJUČ OKASTI TIP C • KLJUČ OKASTI TIP C



• Forged • Polished

CrV

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36428	8 x 9	150	15.5	15.1	6.7	6.1	x	10/300
36430	10 x 11	150	17.7	17.0	6.7	6.3	x	10/300
36432	12 x 13	150	20.5	18.0	7.0	6.0	x	10/200
36434	14 x 15	185	23.5	22.2	8.0	7.6	x	10/160
36436	16 x 17	186	26.2	25.3	8.0	7.8	x	10/100
36437	17 x 19	185	28.2	26.5	9.8	8.3	x	10/100
36439	19 x 21	221	34.8	33.8	12.7	12.2	x	10/80

4 KLJUČ ZA ZAGANJAČ TIP C - SET

• SET OKASTIH KLJUČEVA TIP C • SET KLJUČEVA TIP C







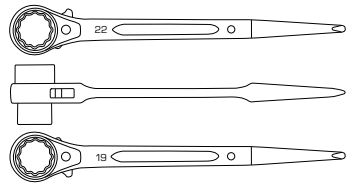
CrV

• Forged • Polished
• **5 pcs.**: 10x11, 12x13, 14x15, 16x17, 17x19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36455	5	10x11 - 17x19	x	20

5 KLJUČ RAGLJA

• RAČNA PROLAZNA SA POLUGOM • RAČNA PROLAZNA SA POLUGOM









32 CrV

• Forged • Designed especially for works related to scaffolding assembly and dismounting • Chromium-plated • Satin • A long and profiled handle facilitates scaffolding levering and extending • The opening in the handle facilitating spanner fixing and securing during works at height

Code	Size (mm)		
36722	19x22	x	10/40

1 SET FLEKSIBILNIH ZGLOBOV IN VTIČNIC ZA SVEČKE

• SET ZGLOBNIH KLJUČEVA ZA SVJEĆICE • SET ZGLOBNIH KLJUČEVA ZA SVJEĆICE



3/8" CrV

- Spanners for mounting and dismounting glow plugs • Articulated
- **6 pcs.**: 8, 9, 10, 12, 14, 16

Code	Range (mm)	Square	
46841	8-16	3/8"	10

2 SET ODPRTIH OBROČASTIH KLJUČEV

• SET OTVORENIH PRSTENASTIH KLJUČEVA
• SET OTVORENIH PRSTENASTIH KLJUČEVA



1/2" CrMo SCM-440

- For driving screws and bolts in and out in places hard to reach
- Easy access when removing cables or sensors
- **6 pcs.**: 12, 14, 16, 17, 18, 19 mm

Code	Range (mm)	
46842	12-19	10

3 KLJUČ NASADNI T-TIP

• NASADNI KLJUČ T RUČKA • NASADNI KLJUČ T RUČKA



CrV 300 mm

Code	Size (mm)	
29083	8	25/100
29084	9	25/100
29085	10	25/100
29086	11	25/100
29087	12	25/100
29088	13	25/100
29089	14	25/100
29090	15	20/80
29092	17	20/80

4 KLJUČ NASADNI, KRIŽNI

• KRIŽNI KLJUČ • KRIŽNI KLJUČ



CrV

- Made from high quality CrV steel • Wide working range • For professional applications

Code	Size (mm)	Square	L (mm)		
29020	17 x 19 x 21	1/2"	400	x	5/10
29021	24 x 27 x 32	3/4"	600	-	1/6

5 KLJUČ TELESKOPSKI TIP L

• KLJUČ ZA KOTAČE SA POLUGOM • KLJUČ ZA KOTAČE SA POLUGOM



CrV

- Made from high quality CrV steel • Wide working range • For professional applications • The set includes 2 sockets sized 17 x 19 mm and 21 x 23 mm

Code	Size (mm)	Square	L (mm)	
29023	17 x 19 21 x 23	1/2"	350 - 530	6/12

1 KLJUČ NASADNI, KRIŽNI

• KLJUČ KRIŽNI ZA KOTAČE • KRSTASTI KLJUČ



CrV

- Made from high quality CrV steel
- Wide working range • For professional applications

Code	Size (mm)	L (mm)		
29019	17 x 19 x 21 x 22	400	x	5/10

2 KLJUČ NASADNI T-TIP

• KLJUČ ZA KOTAČE SA PRODUŽETKOM „T" • KLJUČ T TIP



CrV

- Made from high quality CrV steel • Wide working range • For professional applications • The set includes 2 sockets sized 17 x 19 mm and 21 x 23 mm • Case

Code	Size (mm)	Square	L (mm)	
29022	17 x 19 21 x 23	1/2"	400	10

3 KLJUČ NASADNI T-TIP SPARK

• NASADNI KLJUČ T TIP SPARK • NASADNI KLJUČ T TIP SPARK



285 mm CrV

- Brass insert protecting the plug

Code	Hexagon (mm)	
29116	16	20/40
29121	21	20/40



1 KLJUČ MOMENT

• MOMENT KLJUČ • MOMENT KLJUČ



48 | CrV 6140

• Calibration certificate inside • Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66800	1/4"	5-25	300	6
66801	3/8"	20-100	381	6
66802	1/2"	20-100	381	6
66803	1/2"	40-200	481	6
66804	1/2"	60-340	584	4
66805	3/4"	150-750	1210	1

2 KLJUČ MOMENT Z RAZLIČNIMI NASTAVKI

• MOMENT KLJUČ S PROMJENJIVIM NASTAVCIMA • MOMENT KLJUČ S PROMJENJIVIM NASTAVCIMA



x12 | 48 | CrV 6140

• Calibration certificate inside • Delivered in plastic box
• 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm

Code	Square	Range (Nm)	Length (mm)	
66812	1/2"	40-200	472	4

3 DIGITALNI MOMENT KLJUČ

• DIGITALNI MOMENT KLJUČ • DIGITALNI MOMENT KLJUČ



36 | CrV | 3 x AAA 3 x 1,5 V d.c. | CE

• Calibration certificate inside • Allows angles to be measured • Additional functions (storing results, setting an angle, tracking torque, backlighting for the result, light and sound signaling)
• Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66813	1/2"	40-200	530	3/6

4 MOMENT IZVIJAČ

• MOMENT ODVIJAČ • MOMENT ŠARAFCIGER

CrV



• Calibration certificate inside

Code	Hex	Range (Nm)	Length (mm)	
66814	1/4"	1-6	195	30

5 MOMENT KLJUČ

• MOMENT KLJUČ • MOMENT KLJUČ



CrV

• Calibration certificate inside • Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66700	3/8"	20-110	404	12
66701	1/2"	40 - 210	460	12
66702	1/2"	50 - 350	553	12

6 OJAČEVALEC MOMENTA

• MULTIPLIKATOR MOMENTA SA KLJUČEVIMA
• MULTIPLIKATOR MOMENTA SA KLJUČEVIMA



MAX 4800 Nm | 1:64 | 32 mm 33 mm | CrV

• Delivered in plastic box

Code	Square	Length (mm)	
46861	1"	315	3

7 OJAČEVALEC MOMENTA

• MULTIPLIKATOR MOMENTA SA KLJUČEVIMA
• MULTIPLIKATOR MOMENTA SA KLJUČEVIMA



MAX 6800 Nm | 1:64 | 27 mm 30 mm 32 mm 33 mm | CrV

• Delivered in plastic box

Code	Square	Length (mm)	
46862	1"	345	3

8 KOTNI PROFIL ZA NASTAVITEV NAVORA

• ZA PODEŠAVANJE OKRETNOG MOMENTA
• ZA PODEŠAVANJE OKRETNOG MOMENTA



1/2" | 360°

Code	Size (mm)	Range		
66510	1/2"	360°	x	12/48

1 SET NASTAVKOV ZA VIJAČANJE DIZELSKIH ŠOB

• SET DIZELSKIH MLAZNICA
• SET DIZELSKIH MLAZNICA



x6 | 1/2" | CrV

- The set includes 12-angle bits:
  - 1/2" x 27 mm x 78 mm
  - 1/2" x 22 mm x 78 mm
  - 1/2" x 28 mm x 78 mm
  - 1/2" x 21mm x 90 mm

  The set includes 6-angle bits:
  - 1/2" x 22 mm x 110 mm
  - 1/2" x 28 mm x 83 mm

Code	Quantity (pcs)	
46843	6	12

3 SET NASTAVKOV ZA VIJAČENJE DIZELSKIH ŠOB TOOTHMED

• SET DIZELSKIH MLAZNICA TOOTHMED • SET DIZELSKIH MLAZNICA TOOTHMED



x4 | 1/2" | H32 | CrV

- The set includes:
  - 1/2" x 72 mm x 4 teeth
  - 1/2" x 120 mm x 3 teeth
  - H32 x 70 mm x 4 teeth (M14 x 1.5 mm)
  - H32 x 120 mm x 4 teeth

Code	Quantity (pcs)	
46845	4	20

2 SET NASTAVKOV ZA SENZOR ZA KISIK IN INJEKTOR

• SET OSJETNIKA ZA KISIK I NASTAVAK ZA UBRIZGAVAČE GORIVA
• SET OSJETNIKA ZA KISIK I NASTAVAK ZA UBRIZGAVAČE GORIVA



x7 | 1/2" | 3/8" | CrV | CrMo SCM-440

- The set includes 12-angle bits:
  - 1/2" x 27 mm x 78 mm

  The set includes 6-angle bits:
  - 1/2" x 29 mm x 90 mm
  - 1/2" x 22 mm x 50 mm
  - 3/8" x 22 mm x 90 mm
  - 3/8" x 22 mm x 80 mm
  - 3/8" x 27 mm x 74 mm
  - 3/8" x 22 mm x 30 mm

Code	Quantity (pcs)	
46844	7	10

4 SET NASTAVKOV SENZORJA ZA KISIK

• SET NASTAVAK OSJETNIKA ZA KISIK • SET UTIČNICA OSJETNIKA ZA KISIK



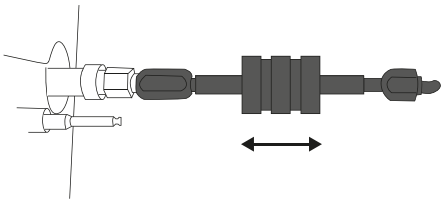
x3 | 1/2" | 3/8" | CrV | CrMo SCM-440

- The set includes 6-angle bits:
  - 3/8" x 22mm x 80 mm
  - 1/2" x 22mm x 50 mm
  - 3/8" x 22mm x 30 mm

Code	Quantity (pcs)	
46846	3	20

1 ORODJE ZA ODSTRANJEVANJE INJEKTORJA Z DRSNIM KLADIVOM

• IZVLAKAČ
• IZVLAKAČ





M8 M12 M14 CrV

• For installing injectors by BOSCH and LUCAS in Diesel engines • The set includes adapters M8, M12, M14

Code	Length (mm)	
46847	220	20

2 GLOBOKI NASADNI KLJUČ ZA LITA PLATIŠČA

• DUBOKI NASADNI KLJUČ ZA ALU FELGE
• DUBOKI NASADNI KLJUČ ZA ALU FELGE





x3 1/2" CrMo SCM-440 PRO DRIVE

• 17 - Ø outer 26 mm • 19 - Ø outer 29 mm
• 21 - Ø outer 31 mm • Delivered in plastic box

Code	Square	Range (mm)	Quantity (pcs)	
29080	1/2"	17 - 21	3	20

3 GLOBOKI NASADNI KLJUČ ZA LITA PLATIŠČA

• NASADNI KLJUČ ZA SKIDANJE ALU FELGI
• NASADNI KLJUČ ZA SKIDANJE ALU FELGI





1/2" CrMo SCM-440 PRO DRIVE

• 17 - Ø ext. 26 mm • 19 - Ø ext. 28 mm
• 21 - Ø ext. 30 mm • 22 - Ø ext. 32 mm

Code	Range (mm)	Square	
29095	17	1/2"	25/50
29096	19	1/2"	25/50
29097	21	1/2"	25/50
29098	22	1/2"	25/50



4 PIŠTOLA ZA MAST

• RUČNA MAZALICA • RUČNA MAZALICA



300 mm max 70MPa 500 cm³

• Aluminium head • Structure enabling to load grease in two ways • Work pressure 31 MPa • Two dispensers: flexible (300 mm) and rigid (160 mm) • 4-jaw grease gun tips

Code	Capacity (cm³)	
42506	500	10

5 ROČNA PIŠTOLA ZA MAST

• RUČNA DRUK MAZALICA • RUČNA DRUK MAZALICA



220 mm 100 cm³

• Useful for gardening, recreational equipment, cars, motorcycles etc.

Code	Capacity (cm³)	
42500	100	12/36

6 PIŠTOLA ZA SESANJE OLJA

• PIŠTOLJ ZA USISAVANJE ULJA • PIŠTOLJ ZA USISAVANJE ULJA



300 mm 500 cm³

• Flexible dispenser Ø10 mm (260 mm)

Code	Capacity (cm³)	
42507	500	20

1 MAGNETNA POSODA

• MAGNETNA POSODA • MAGNETNA POSODA



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Diameter (mm)		
46939	108		50

2 MAGNETNA POSODA

• MAGNETNA POSODA • MAGNETNA POSODA



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Diameter (mm)		
46949	150	x	12/36

3 MAGNETNA POSODA

• MAGNETNA POSODA • MAGNETNA POSODA



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Size (mm)		
46959	240 x 140	x	6/24

4 TELESKOPSKI MAGNETNI POBIRALEC

• MAGNET NA TELESKOPU ZA HVATANJE SITNIH DJELOVA
• MAGNET NA TELESKOPU ZA HVATANJE SITNIH DJELOVA

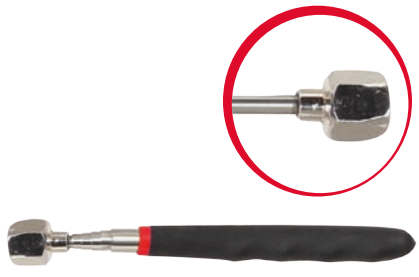


max 22kg

Code	Length (mm)		
46971	590 - 990	x	12/24

5 TELESKOPSKI MAGNETNI POBIRALEC

• TELESKOPSKI NASTAVAK ZA HVATANJE SITNIH DJELOVA
• TELESKOPSKI NASTAVAK ZA HVATANJE SITNIH DJELOVA



max 6.8kg

Code	Length (mm)		
46972	180 - 770	x	20/120

6 LED TELESKOPSKI MAGNETNI POBIRALEC

• TELESKOPSKI LED NASTAVAK ZA HVATANJE SITNIH DJELOVA
• TELESKOPSKI LED NASTAVAK ZA HVATANJE SITNIH DJELOVA



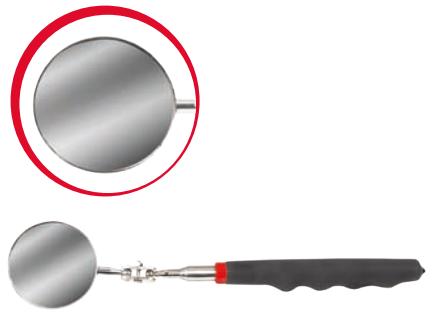
max 3.6kg LED CE

• Powered by three LR44 batteries

Code	Length (mm)		
46973	190 - 800	x	25/100

7 TELESKOPSKO INŠPEKCIJSKO OGLEDALO

• TELESKOPSKO INSPEKCIJSKO OGLEDALO
• TELESKOPSKO INSPEKCIJSKO OGLEDALO



Ø 50mm

Code	Length (mm)		
46974	245 - 710	x	25/100

8 LED TELESKOPSKO INŠPEKCIJSKO OGLEDALO

• LED TELESKOPSKO INSPEKCIJSKO OGLEDALO
• LED TELESKOPSKO INSPEKCIJSKO OGLEDALO



50x80 mm LED CE

• Powered by two LR44 batteries

Code	Length (mm)		
46975	285 - 875	x	10/100

9 TELESKOPSKI MAGNETNI POBIRALEC IN OGLEDALO

• TELESKOPSKI MAGNETNI NASTAVAK I INSPEKCIJSKO OGLEDALO
• TELESKOPSKI MAGNETNI NASTAVAK I INSPEKCIJSKO OGLEDALO



• Telescopic structure offers the adjustable length of devices: pick-up tool 160 - 645 mm; mirror 250 - 925 mm, diameter 57 mm • Foldable plastic case

Code	Quantity (pcs)		
46979	4	x	10/40

1 MAGNETNO DRŽALO ORODJA

• MAGNETNI NOSAČ ALATA • MAGNETNI NOSAČ ALATA



Code	Length (mm)		
46969	500	x	12/24

2 RAVNA PINCETA

• RAVNA PINCETA • RAVNA PINCETA



STAINLESS

HRC 42±2

• Anti-static and acid-resistant coating

Code	Length (mm)		
46981	140	x	40/800

3 UKRIVLJENA PINCETA

• SAVIJENA PINCETA • SAVIJENA PINCETA



STAINLESS

HRC 42±2

• Anti-static and acid-resistant coating

Code	Length (mm)		
46982	115	x	40/800

4 ODSTRANJEVALEC TESNIL

• ODSTRANJIVAČ BRTVI • ODSTRANJIVAČ BRTVI





65mm

• For dismounting inner rubber and metal seals Ø 65 mm

Code	Diameter (mm)		
46850	65	x	12/48

5 KLJUČ ZA OLJNI FILTER

• KLJUČ ZA FILTER ULJA • KLJUČ ZA FILTER ULJA





• For oil filter replacement • Moveable handle

Code	Diameter (mm)		
46882	60 - 73	x	12/48
46883	73 - 85	x	12/48
46884	85 - 95	x	12/48
46885	95 - 111	x	12/48

6 SET KLJUČEV ZA ODVIJANJE OLJNEGA FILTRA

• SET KLJUČEVA ZA SKIDANJE FILTERA ULJA • SET KLJUČEVA ZA SKIDANJE FILTERA ULJA



x30 1/2" 3/8"

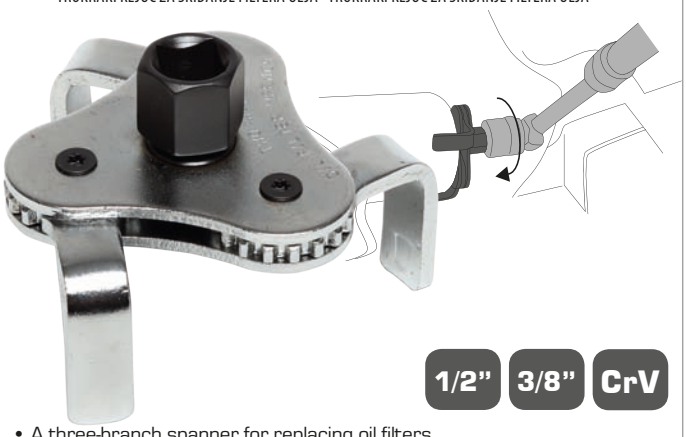
• Set of spigot spanners made from Cr-Mb steel • Designed for replacement of metal oil filters in passenger and delivery vehicles • The set includes a three-branch spanner and an adapter 3/8"-1/2"

Code	Square	Quantity (pcs)	
46887	3/8"	30	3

PROLINE

1 TROJNI FRANCOSKI KLJUČI ZA ODVIJANJE OLJNEGA FILTRA

• TROKRAKI KLJUČ ZA SKIDANJE FILTERA ULJA • TROKRAKI KLJUČ ZA SKIDANJE FILTERA ULJA



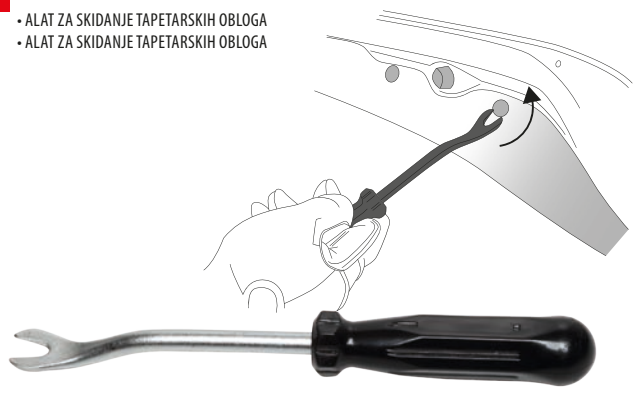
1/2" 3/8" CrV

• A three-branch spanner for replacing oil filters

Code	Range (mm)	
46886	65 - 114	5/20

2 ORODJE ZA ODSTRANJEVANJE TAPETARSKIH OBLOG

• ALAT ZA SKIDANJE TAPETARSKIH OBLOGA
• ALAT ZA SKIDANJE TAPETARSKIH OBLOGA

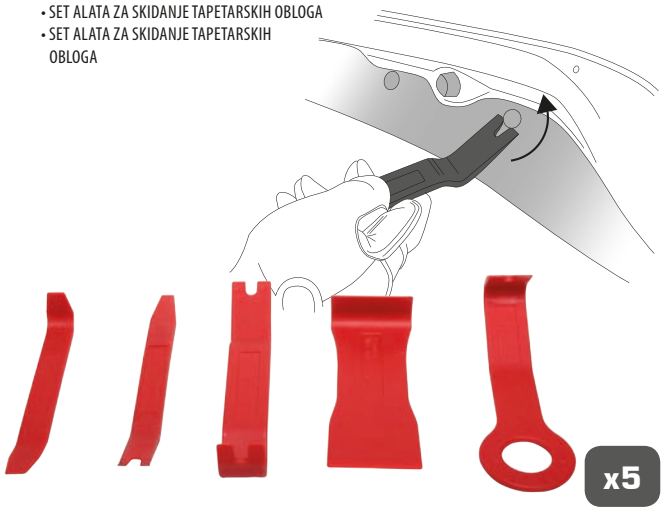


• A tool facilitating dismounting internal components of vehicles
• Designed for dismounting strips, clips and upholstery in vehicles

Code	Length (mm)	
46893	205	10/40

3 SET ORODIJ ZA ODSTRANJEVANJE TAPETARSKIH OBLOG

• SET ALATA ZA SKIDANJE TAPETARSKIH OBLOGA
• SET ALATA ZA SKIDANJE TAPETARSKIH OBLOGA



x5

• Tools facilitating installation of vehicle interior components • Designed for dismounting profiles, clips and upholstery in vehicles • Made from a hardened nylon, making them highly durable and flexible

Code	Quantity (pcs)	
46894	5	6/24

4 NAPRAVA ZA LOČEVANJE LEŽAJEV 30-50 MM

• UREĐAJ ZA RAZDVAJANJE LEŽAJEVA 30-50 MM • UREĐAJ ZA RAZDVAJANJE LEŽAJEVA 30-50 MM



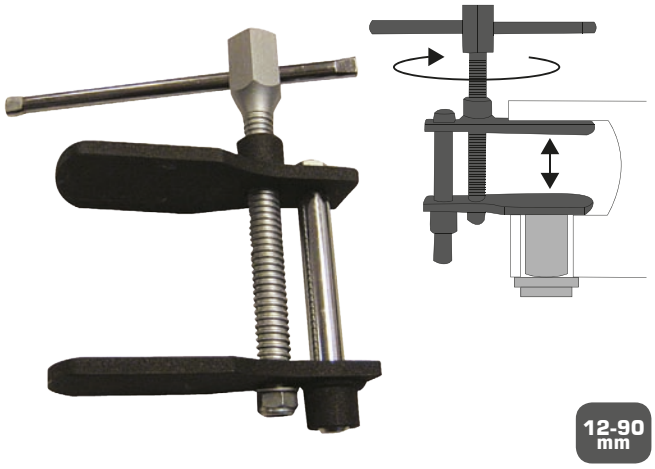
CrV

• For removing bearings, gears and other tight-fitting components

Code	Range (mm)	
46851	30 - 50	20

5 LOČEVALNIK KOLUTNIH ZAVOR

• RAZDJELNIK DISK KOČNICA • RAZDJELNIK DISK KOČNICA



12-90 mm

Code	Range (mm)	BOX	
46874	12 - 90	x	20

6 KOMPRESOR ZA ZAVORE SPEEDY

• PIŠTOLJ ZA ISPITVANJE KOČNICA SPEEDY • PIŠTOLJ ZA ISPITVANJE KOČNICA SPEEDY



• Designed for quick pushing of brake pistons

Code	Range (mm)	
46879	15-90	16

1 ORODJE ZA VZMETI

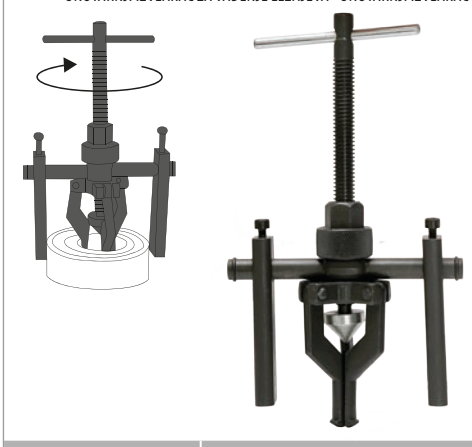
• ALAT ZA SKIDANJE OPRUGA AMORTIZERA • ALAT ZA SKIDANJE OPRUGA AMORTIZERA



Code	Length (mm)	
46892	300	10

2 ORODJE ZA ODSTRANJEVANJE NOTRANJIH ZOBNIKOV

• UNUTARNJI IZVLAKAČ ZA VAĐENJE LEŽAJEVA • UNUTARNJI IZVLAKAČ ZA VAĐENJE LEŽAJEVA



Code	Range (mm)	
46866	14 - 38	20

3 ORODJE ZA ODSTRANJEVANJE ZUNANJIH ZOBNIKOV

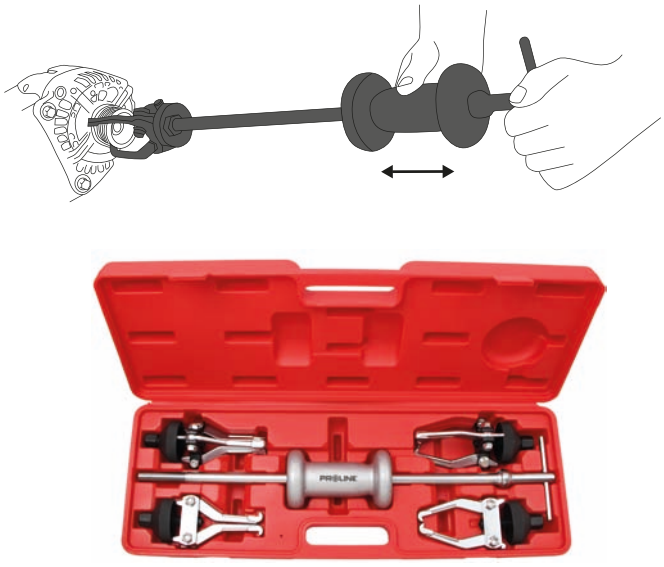
• ALAT ZA VAĐENJE VANJSKIH ZUPČANIKA • ALAT ZA VAĐENJE VANJSKIH ZUPČANIKA



Code	Range (mm)	
46867	24-55	6/24

4 SET ZA ODVIJANJE ZUNANJIH IN NOTRANJIH LEŽAJEV

• UNUTARNJI I VANJSKI SET IZVLAKAČA LEŽAJEVA
• UNUTARNJI I VANJSKI SET IZVLAKAČA LEŽAJEVA



• A specialist tool for dismounting bearings • The set includes an impact puller and four replaceable tips (2 inner removers, 2 outer removers) - inner, two-branched

Code	Quantity (pcs)	
46868	5	2

5 SET ZA ODSTRANJEVANJE KOLESNIH LEŽAJEV

• SET ZA ODSTRANJIVANJE LEŽAJEVA KOTAČA • SET ZA ODSTRANJIVANJE LEŽAJEVA TOČKOVA



• A specialist tool for dismounting hubs
• The set includes an impact puller and two changeable heads

Code	Quantity (pcs)	
46869	26	2

1 LOČEVALNIK KROGLIČNEGA ZGLOBA

• RAZDJELNIK KUGLASTOG ZGLOBA • RAZDJELNIK KUGLASTOG ZGLOBA

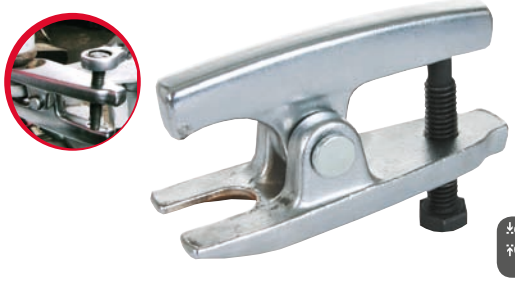


• For disassembly of ball pins

Code	Diameter (mm)	
46876	17	20

2 LOČEVALNIK KROGLIČNEGA ZGLOBA

• RAZDJELNIK KUGLASTOG LEŽAJA • RAZDJELNIK KUGLASTOG LEŽAJA

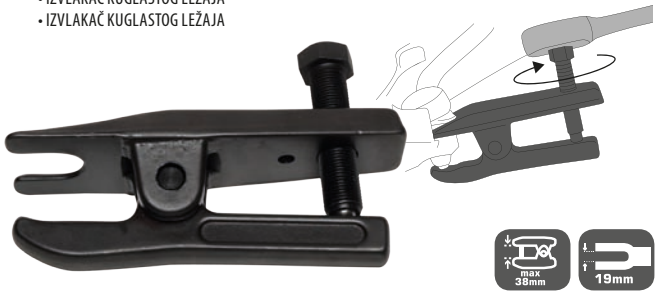


• For removing ball pins

Code	Diameter (mm)	BOX	
46871	19	x	20

3 LOČEVALNIK KROGLIČNEGA ZGLOBA

• IZVLAKAČ KUGLASTOG LEŽAJA
• IZVLAKAČ KUGLASTOG LEŽAJA



• For removal of ball pins

Code	Diameter (mm)	
46877	19	20

4 DVOFAZNI LOČEVALNIK KROGLIČNEGA ZGLOBA

• DVOFAZNI RAZDJELNIK KUGLASTOG ZGLOBA • DVOFAZNI RAZDJELNIK KUGLASTOG ZGLOBA

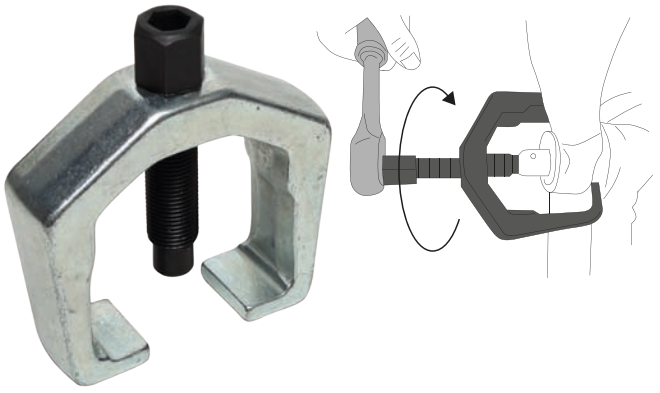


• For removing ball pins

Code	Diameter (mm)	BOX	
46870	22	x	20

5 LOČEVALNIK KROGLIČNEGA ZGLOBA

• IZVLAKAČ ZA KUGLASTI LEŽAJ • IZVLAKAČ ZA KUGLASTI LEŽAJ



• For removal of joints

Code	Diameter (mm)	
46878	33	20

6 KOMPRESOR BATNIH OBROČEV

• ALAT ZA VAĐENJE KLIPNIH PRSTENOVA • ALAT ZA VAĐENJE KLIPNIH PRSTENOVA

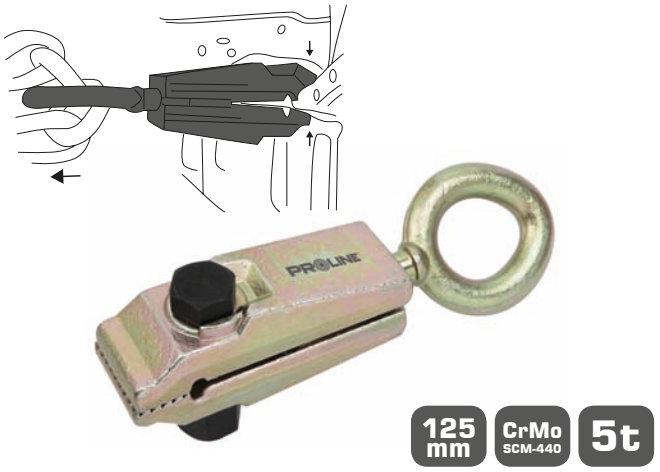


• For removing pistons in the engine body

Code	Diameter (mm)	Height (mm)	BOX	
46863	53 - 125	75	x	30/60
46864	90 - 175	100	x	30/60
46865	90 - 175	150	x	20/40

7 NATEZNA SPONKA Z MALO ODPRTINO

• AUTOLIMARSKA STEZALJKA ZA IZVLAČENJE LIMA • AUTOLIMARSKA STEZALJKA ZA IZVLAČENJE LIMA



• Forged • Self-clamping • Clamping force 5 tonnes • Notched jaws ensuring stronger gripping force • Designation: specialist tinsmithing service

Code	Pressure value (t)	
46895	5	6

1 REZALO ZA IZPUŠNE CEVI

• REZAČ ZA ISPUŠNE CIJEVI • REZAČ ZA ISPUŠNE CIJEVI



• For cutting exhaust pipes in places difficult to reach

Code	Range (mm)	
46849	20-75	6/36

2 SET 4 KOS. EKSTRAKTOR VIJAKA Z UTOROM

• SET OD 4 KOM. EKSTRAKTORA VIJAKA S UTOROM • SET OD 4 KOM. EKSTRAKTORA VIJAKA S USJEKOM





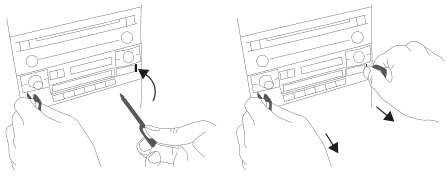
x4 1/2" CrV

• For unscrewing pins or broken bolts

Code	Size	BOX	
46888	M6, M8, M10, M12	x	20

3 SET ZA ODSTRANJEVANJE RADIA

• SET ZA VAĐENJE AUTO RADIJA • SET ZA VAĐENJE AUTO RADIJA





x52

• For removal of car radio receivers both OEM and universal (such as SONY, BLAUPUNKT, PANASONIC, KENWOOD) • Set in a case with the purpose of every element embossed on it

Code	Quantity (pcs)	
46854	52	5

4 SPECIALNI DVOJNI IZVLEKAČ IN RAZDELILNIK

• SPECIJALNI DVOSTRUKI IZVLAKAČ I RAZDJELNIK • SPECIJALNI DVOSTRUKI IZVLAKAČ I RAZDJELNIK





x12

• For removing bearings, gears

Code	Separator (mm)	Puller (mm)	
46858	10 - 30	10 - 60	30

5 SET 3 KOS IZVLEKAČOV Z DVOJNIM OPRIJEMOM

• SET OD 3 IZVLAKAČA S DVOSTRUKIM PRIJANJANJEM
• SET OD 3 IZVLAKAČA S DVOSTRUKIM PRIANJANJEM





98 212 267 MM | Ø 35-135 mm | CrV

• For removing bearings, gears

Code	Diameter (mm)	Length (mm)	
46859	35 - 135	120 - 280	4

6 SET 5 KOSOV LOČEVALNIKA KROGLIČNEGA ZGLOBA

• SET OD 5 KOM. RAZDJELNIKA KUGLASTOG ZGLOBA • SET OD 5 KOM. RAZDJELNIKA KUGLASTOG ZGLOBA





x5 | 8mm | 24mm 123mm | CrV

• For removing steering rods • Replaceable handles for slogging with a hammer or air wrenches

Code	Separator (mm)	
46860	11/16", 15/16", 1 1/8"	10

1 ZAVORNI BAT SET ORODIJ

• SET ALATA ZA VRAĆANJE KOČIONOG KLIPA
• SET ALATA ZA VRAĆANJE KOČIONOG KLIPA





x12

• Universal set for various vehicle types

Code	Quantity (pcs)	
46880	12	10

2 ZAVORNI BAT SET ORODIJ

• SET ALATA ZA VRAĆANJE KOČIONOG KLIPA • SET ALATA ZA VRAĆANJE KOČIONOG KLIPA





x18

• Universal set for various types of cars

Code	Quantity (pcs)	
46881	18	10

3 SET ZA TESTIRANJE OLJNEGA TLAKA

• SET ZA ISPITIVANJE TLAKA ULJA • SET ZA ISPITIVANJE PRITISKA ULJA



x18 3/8" CrV

• 3/8" • 3/8" ⌀ 8, 9, 10, 12, 14, 17 mm • 3/8" ⌀ 7, 8, 10, 11, 12, 13, 14 mm, 5/16", 3/8" • 3/8" ⌀ 10 mm
• 3/8" ⌀ 10 mm

Code	Quantity (pcs)	
46875	18	15

4 SET ORODIJ ZA ODSTRANJEVANJE VETROBRANSKEGA STEKLA NA AVTOMOBILU

• SET ALATA ZA UKLANJANJE VJETROBRANSKOG STAKLA NA AUTOMOBILU
• SET ALATA ZA UKLANJANJE VJETROBRANSKOG STAKLA NA AUTOMOBILU



x7

• For cutting damaged glued vehicle panes • The set includes: pane cutting rope, rope handles, tool for rope pulling, clip remover, pane knife, seal knife

Code	Quantity (pcs)	
46853	7	5/10

5 SET ZA POPRAVILO KARTERJA OLJA

• SET ZA POPRAVAK KARTERA ULJA • SET ZA POPRAVAK KARTERA ULJA





M13 x 1	M13 x 5	13 mm x 10	M13
M15 x 1	M15 x 5	15 mm x 10	M15 M17
M17 x 1	M17 x 5	17 mm x 10	
M20 x 1	M20 x 5	20 mm x 10	M20 x64

• For repairing leaky oil drains • Includes 4 sizes: M13, M15, M17, and M20 • For each size, there is 1 screw tap, 5 plugs, and 10 washers in the set

Code	Quantity (pcs)	
46889	64	5

1 SET JERMENIC ALTERNATORJA

• SET ZA ZAMJENU REMENICE NA ALTERNATORU • SET ZA ZAMJENU REMENICE NA ALTERNATORU



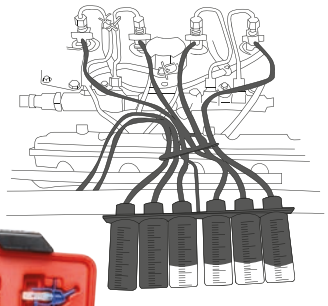
x13 | CrV | HRC 55±2

- Spanners for dismounting alternators by Magnetti Marelli and Bosch in such vehicles as VAG, PSA, BMW, FIAT, FORD, MERCEDES, VOLVO and many others.
- 1/2" SPLINE M10
- 1/2" TORX T50
- HEX H10 TORX T40, T50
- HEX H10 SPLINE M8, M10
- HEX H10 HEX H8, H10
- HEX H15 33T
- HEX H22 33T
- HEX H22 HEX H22
- HEX H17 Ø 35
- 1/2" HEX H10

Code	Quantity (pcs)	
46848	13	10

2 SET ADAPTERJEV PRETOKA DIZELSKEGA GORIVA

• SET ADAPTERA PROTOKA DIZELSKOG GORIVA
• SET ADAPTERA PROTOKA DIZELSKOG GORIVA





x31

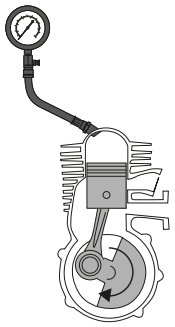
- For Diesel engine injection diagnosis (COMMON RAIL) using the overflow method • Diagnose up to 6 injectors simultaneously • For the following brands of injectors: BOSCH, SIEMENS, DENSO, and DELPHI

Code	Quantity (pcs)	
46852	31	6

3 SET ZA TESTIRANJE TLAKA DIZELSKEGA MOTORJA

• SET ZA ISPITIVANJE TLAKA DIZELSKOG MOTORA • SET ZA ISPITIVANJE PRITISKA DIZELSKOG MOTORA





x16 | 0-70 bar | 0-1000 psi

- For measuring Diesel engine compression • Includes adapters for glow plug or injector slots

Code	Pressure (bar)	
46897	0-70	5

4 SET ZA TESTIRANJE OLJNEGA TLAKA

• SET ZA ISPITIVANJE TLAKA ULJA • SET ZA ISPITIVANJE PRITISKA ULJA



x12 | 0-35 bar | 0-500 psi

- For most types of engines both in cars and light commercial vehicles
- Clear, double scale (0–35 bar / 0–500 psi) • 1650 mm hose

Code	Pressure (bar)	
46898	0-35	10

5 TESTER GORIVA BENCINSKEGA MOTORJA

• ISPITIVAČ GORIVA BENZINSKOG MOTORA • ISPITIVAČ GORIVA BENZINSKOG MOTORA





x9 | 0-70 cmHg | 0-0,7 bar | 0-10 psig

- For measuring positive and negative pressure in car and motorcycle engines • For diagnosing problems with fuel pumps, valves, and ignition
- Manometer 0-10 psig (0-0.7 bar) • Vacuum gauge 0-70 cmHg
- Includes a 14/18 mm adapter and a 600 mm hose

Code	Pressure (bar)	
46899	0-0,7	10

1 HIDRAVLIČNA DVIGALKA

• HIDRAULIČNA AUTO DIZALICA • HIDRAULIČNA AUTO DIZALICA







CE

Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46802	2	181 - 345	2.5	6
46803	3	194 - 374	3.2	6
46805	5	216 - 413	4.3	4
46808	8	230 - 457	5.5	4
46810	10	230 - 460	6.2	4
46812	12	230 - 465	7.2	3
46815	15	230 - 462	8.1	2
46820	20	242 - 452	10.5	2

2 HIDRAVLIČNA TALNA DVIGALKA

• HIDRAULIČNA AUTODIZALICA KROKODILKA • HIDRAULIČNA AUTODIZALICA KROKODILKA





2t | kg 9,8 | max 350 mm / min 130 mm | 495 mm x 220 mm x 135 mm | CE

Code	Size (mm)	Load-carrying capacity (t)	
46922	495 x 220 x 135	2	1

3 HIDRAVLIČNA DVIGALKA NIZEK PROFIL

• HIDRAULIČNA AUTODIZALICA KROKODILKA NISKI PROFIL • HIDRAULIČNA AUTODIZALICA KROKODILKA NISKI PROFIL





2t | kg 14,1 | max 359 mm / min 89 mm | 556 mm x 234 mm x 153 mm | min 89 mm | 360° | CE

• Its low profile makes it possible to lift also low-slung vehicles, sports cars etc.

Code	Size (mm)	Load-carrying capacity (t)	
46921	556 x 234 x 153	2	1

4 HIDRAVLIČNA DVIGALKA HITRO DVIGANJE

• HIDRAULIČNA DIZALICA BRZO PODIZANJE • HIDRAULIČNA DIZALICA BRZO PODIZANJE





2.5t | kg 19,6 | max 435 mm / min 150 mm | max 530 mm / min 245 mm | 632 mm x 242 mm x 150 mm | CE

• Lifting range: without extension: 157 - 427 mm, with extension: 250 - 520 mm
• Fast-lifting function

Code	Size (mm)	Load-carrying capacity (t)	
46923	632 x 242 x 150	2.5	1

5 HIDRAVLIČNA DVIGALKA NIZEK PROFIL

• HIDRAULIČNA DIZALICA NISKI PROFIL • HIDRAULIČNA DIZALICA NISKI PROFIL





2.5t | kg 34,8 | max 457 mm / min 89 mm | 640 mm x 346 mm x 180 mm | min 89 mm | CE

• Its low profile makes it possible to lift also low-slung vehicles, sports cars etc.

Code	Size (mm)	Load-carrying capacity (t)	
46926	640 x 346 x 180	2.5	1

1 HIDRAVLIČNA DVIGALKA HITRO DVIGANJE

• HIDRAULIČNA DIZALICA BRZO PODIZANJE • HIDRAULIČNA DIZALICA BRZO PODIZANJE



3t | 37,2 kg | max 500 mm / min 145 mm | 685 mm x 346 mm x 180 mm

• Fast-lifting function

Code	Size (mm)	Load-carrying capacity (t)	
46927	685 x 346 x 180	3	1

2 HIDRAVLIČNA TALNA DVIGALKA

• HIDRAULIČNA DIZALICA • HIDRAULIČNA DIZALICA



3t | 36,5 kg | max 520 mm / min 140 mm | 675 mm x 346 mm x 185 mm

Code	Size (mm)	Load-carrying capacity (t)	
46925	675 x 346 x 185	3	1

3 HIDRAVLIČNA DVIGALKA ZA MOTORJE

• HIDRAULIČNA DIZALICA ZA MOTORE • HIDRAULIČNA DIZALICA ZA MOTORE



400kg | 34,2 kg | max 420 mm / min 140 mm | 864 mm x 396 mm x 140 mm

Code	Size (mm)	Loadcarrying capacity (kg)	
46950	864 x 396 x 140	400	1

4 HIDRAVLIČNA DVIGALKA - ŠKARJE

• ŠKARASATA AUTODIZALICA
• ŠKARASATA AUTODIZALICA



Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46911	1	88 - 370	2.3	5
46915	1.5	95 - 390	3.2	5

5 PAR PODSTAVKOV

• PAR PODNOŽAKA • PAR PODNOŽAKA



• 10-step height adjustment

Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46912	2	265 - 418	5.5 (2szt.)	1
46913	3	280 - 420	7.8 (2szt)	1
46914	6	382 - 600	13.1 (2szt)	1



6 SET ZA HIDRAVLIČNA POPRAVILA

• SET ZA HIDRAULIČNE POPRAVKE • SET ZA HIDRAULIČNE POPRAVKE



Code	Expansion force (t)	Range (mm)	Net weight (kg)	
46928	4	270 - 390	16.5	1
46929	10	380 - 530	30.5	1

1 MEHANIČNI VOZIČEK

• MEHANIČARSKA LEŽALICA • MEHANIČARSKA LEŽALICA



kg 6,0 | 930mm x 440mm x 105mm | 360° x6

• Steel structure • Upholstered

Code	Size (mm)	Net weight (kg)	
46938	930 x 440 x 105	6	1

2 MEHANIČNI VOZIČEK

• MEHANIČARSKA LEŽALJKA • MEHANIČARSKA LEŽALJKA



max 90kg | kg 5,8 | 1010mm x 475mm x 130mm | 360° x6

• Upholstered head rest

Code	Size (mm)	Net weight (kg)	
46936	1010 x 475 x 130	5.8	1

3 MEHANIČNI VOZIČEK Z MAGNETNIMI POSODAMI

• MEHANIČARSKA LEŽALJKA SA MAGNETIMA • MEHANIČARSKA LEŽALJKA SA MAGNETIMA



max 90kg | kg 5,5 | 1010mm x 475mm x 130mm | 360° x6 | magnetic

• Upholstered head rest • 2 magnetic trays

Code	Size (mm)	Weight netto (kg)	
46937	1010 x 475 x 130	5.5	1

4 PNEVMATSKI STOL ZA DELAVNICO

• PNEUMATSKA STOLICA ZA RADIONICU
• PNEUMATSKA STOLICA ZA RADIONICU



max 90kg | 380mm x 380mm x 575mm | 360° x4

• Upholstered • Pneumatic height control

Code	Size (mm)	Net weight (kg)	
46940	380 x 380 x 575	5.7	1

5 STOL ZA DELAVNICO

• STOLICA ZA RADIONICU • STOLICA ZA RADIONICU



max 90kg | 360mm x 400mm x 340mm | 360° x4

• Upholstered • Retractable drawer

Code	Size (mm)	Net weight (kg)	
46941	360 x 400 x 340	5	1

6 VŽIGALNI KABLI

• KABLOVI ZA PALJENJE • KABLOVI ZA PALJENJE



Code	Wire cross-section (mm^2)	Length (m)	Nominal start-up current (A)	BAG	
24750	8	2.5	200	x	10
24751	16	3.0	220	x	10
24752	25	3.5	350	x	6
24753	35	4.5	480	x	4

7 NAPRAVA ZA NAVIJANJE KABLA

• RUČNO VITLO SA SAJLOM • RUČNO VITLO SA SAJLOM



Code	Load-carrying capacity (daN)	Rope length (m)	Rope diameter (mm)	Weight (kg)	
46710	1000	3	5	2.5	6
46713	1300	3	5	3.9	6
46715	1500	3	6	7.6	6



1 POLNILEC

• PUNJAČ PRETVARAČA • PUNJAČ PRETVARAČA





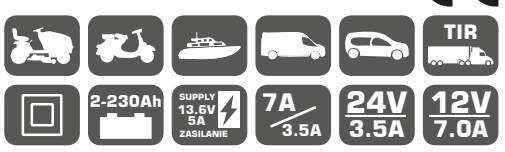
- Smart inverter-rectifier designed for charging all types of 12 V batteries with capacities from 2 to 60 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46830	2A/1A	12V	x	16

3 POLNILEC

• PUNJAČ PRETVARAČA • PUNJAČ PRETVARAČA





- Smart inverter-rectifier designed for charging all types of 12/24 V batteries with capacities from 2 to 230 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46832	7A/3.5A	12/24V	x	8

2 POLNILEC

• PUNJAČ PRETVARAČA • PUNJAČ PRETVARAČA





- Smart inverter-rectifier designed for charging all types of 12 V batteries with capacities from 2 to 120 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46831	3,5A/1A	12V	x	10

4 POLNILEC S FUNKCIJO AKTIVIRANJA V NUJNIH PRIMERIH

• PUNJAČ / STARTER • PUNJAČ / STARTER





- Smart inverter-rectifier with a Boost function, designed for charging all types of 12 V batteries with capacities from 2 to 60 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Additional 12 V DC power socket • Charging current (A) • Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46833	2A/6A/10A/15A	12V	x	8

1 LED REFLEKTOR

• LED REFLEKTOR • LED REFLEKTOR



220-240V 50/60Hz | Ra ≥80 | ENERGY CLASS A+ | 110° | IP65 | -20°C +45°C | [h] 20000

• LED Floodlight 10W/ 30W/ 50W • Power supply: 220-240 V/AC
• IP65 • Modern look housing made of aluminium and PVC • Very effective heat dissipation in line with high efficiency • Compact size

Code	Power (W)	Light sources	Luminous flux (lm)	
66181	10	15 (SMD)	800	50
66183	30	45 (SMD)	2400	10
66185	50	75 (SMD)	4000	10

2 LED REFLEKTOR

• LED REFLEKTOR • LED REFLEKTOR



220-240V 50/60Hz | Ra ≥80 | ENERGY CLASS A+ | 110° | IP44 | -20°C +45°C | [h] 20000

• LED Floodlight 10W/ 30W • IP44 • Power supply: 220-240 V/AC
• Modern look housing made of aluminium and PVC • Very effective heat dissipation in line with high efficiency • Compact size • Motion sensor (6m) • Adjustable working time after motion detection (3 to 300 sec.)

Code	Power (W)	Light sources	Luminous flux (lm)	
66182	10	15 (SMD)	800	40
66184	30	45 (SMD)	2400	10

3 PRENOSNA LED SVETILKA

• PRIJENOSNA LED SVJETILJKA • PRENOSIVA LED SVJETILJKA



45 SMD LED | 30 W | IP65 | ON/OFF 2000 | 194,4 x141,4 x 32,5 mm | [h] 30000 | 115° | Ra >70 | Lm 2550 | 4000K | Ta≠25°C | WARM-UP ≤1s

• Compact LED lamp with a stand and carrying handle • Power supply: 220-240 V • Power frequency: 50-60 Hz • Light source: SMD LEDs (45 pcs) • Light sources • Luminous flux

Code	Power (W)	Light sources	Luminous flux (lm)	
66188	30	45 (SMD)	2550	15

4 PRENOSNA LED SVETILKA

• PRIJENOSNA LED SVJETILJKA • PRENOSIVA LED SVJETILJKA



Ra ≥70 | ENERGY CLASS A+ | IP54 | 4000K | +1°C +45°C | 8.4V d.c.

• LED rechargable lamp 10W/ 20W • IP44 • Modern design housing
• Very compact - 360 degrees regualtion • Two sets of light intensity (50% i 100%) • Carger included

Code	Power (W)	Light sources	Luminous flux (lm)	Battery (mAh)	
66186	10	20 (SMD)	600	2600	5
66187	20	36 (SMD)	1200	5200	5

1 NOSILEC HALOGENE ŽARNICE Z DVOJNIMI ZATIČI

• DVOSTRUKI NOSAČ SA HALOGENIM LAMPAMA
• DVOSTRUKI NOSAČ SA HALOGENIM LAMPAMA



3 m | R7S J118 mm | IP44 | 230 V 50 Hz | MAX. 2x500 W

- Double lamp with adjustable stand 2x500W
- Power supply: 220 ~ 240V/AC IP44 • Power frequency: 50-60Hz • High-pressure cast aluminium body • Powder-coated body and stand • High-quality aluminium reflector
- Tempered glass • Black / red • Halogen light source 2 x • Max: 500W 118 mm R7x • Stand adjustable in the range of: 85-182cm • Carrying handle • Can be mounted on the stand and directly on the ground • Adjustable light angle
- 3m electrical cord with a plug

Code	Power (W)	
66158	2 x 500	2

2 LED SVETILKA

• LED SVJETILJKA VISOKE SNAGE • LED SVJETILJKA VISOKE SNAGE



3 x AAA 3 x 1,5 Vd.c. | HIGH POWER | LED 3 W | AL | 100% 50% FLASH | 97 g

- Designed for use in various weather conditions

Code	Length (mm)	Operating mode		
51019	120	100%, 50%, flash	x	20/60

3 POLNILNA USB LED SVETILKA

• PUNJIVA USB LED SVJETILJKA
• PUNJIVA USB LED SVJETILJKA



300 LUMEN | CREE XPG LED | 3.7V d.c. | Li-Ion 2200 mAh | 1x 18650 | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Efficient CREE XPG high-power (300 lm) LED • ZOOM function
- Built-in USB port for charging
- LED indicating the battery's status during charging (red - charging, green - full battery)
- Replaceable battery, 18650 type (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Rubber seals for protection against water
- Included: USB cable, battery

Code	Operating mode	
51034	100%, 50%, FLASH	6/48

4 POLNILNA USB LED SVETILKA

• PUNJIVA USB LED SVJETILJKA
• PUNJIVA USB LED SVJETILJKA



800 LUMEN | CREE U2 LED | 3.7V d.c. | Li-Ion 6000 mAh | 2x 26650 | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Efficient CREE U2 high-power (800 lm) LED • ZOOM function
- Built-in USB port for charging
- LED indicating the battery's status during charging (red - charging, green - full battery)
- Two replaceable batteries, 26650 type (each with a capacity of 3000 mAh) • Three operating modes (100%, 50%, FLASH) • Rubber seals for protection against water • Included: USB cable, batteries

Code	Operating mode	
51035	100%, 50%, FLASH	6/36

5 POLNILNA USB LED SVETILKA

• PUNJIVA USB LED SVJETILJKA
• PUNJIVA USB LED SVJETILJKA



1500 LUMEN | 3XCREE T6 LED | 3.7V d.c. | Li-Ion 6000 mAh | 2x 26650 | USB RECHARGEABLE LADOWANIE | 100% 50% 25% FLASH | SOS SIGNAL | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Three efficient CREE T6 high-power (1500 lm) LEDs • Built-in USB port for charging • LED indicating the battery's status during charging (red - charging, green - full battery) • Two replaceable batteries, 26650 type (each with a capacity of 3000 mAh) • Five operating modes (100%, 50%, 25%, FLASH, SOS) • Rubber seals for protection against water • Included: charger, USB cable, torch case, batteries

Code	Operating mode	
51036	100%, 50%, 25%, FLASH, SOS	24

6 POLNILNA USB LED SVETILKA

• PUNJIVA USB LED SVJETILJKA
• PUNJIVA USB LED SVJETILJKA



2700 LUMEN | 3XCREE U2 LED | 3.7V d.c. | Li-Ion 6600 mAh | 3x 18650 | USB RECHARGEABLE LADOWANIE | 100% 50% 25% FLASH | SOS SIGNAL | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Three efficient CREE U2 high-power (2700 lm) LEDs • Built-in USB port for charging • LED indicating the battery's status during charging (red - charging, green - full battery) • Three replaceable batteries, 18650 type (each with a capacity of 3000 mAh) • Five operating modes (100%, 50%, 25%, FLASH, SOS) • Rubber seals for protection against water • Included: charger, USB cable, torch case, batteries

Code	Operating mode	
51037	100%, 50%, 25%, FLASH, SOS	24

1 LED DELOVNA SVETILKA

• RADIONIČKA LED LAMPA • RADIONIČKA LED LAMPA



51029 x12 | LED 3 W | 180 LUMEN | 3 x AAA 3 x 1,5 V d.c. | AL

- Compact, pen-shaped torch • Made of aluminum • Equipped with a long-lasting COB LED with a luminous flux of 180 lm
- Has a hanging clip and built-in magnet
- 3xAAA power supply (not included) • Sold in a display box with 12 pieces (51029 refers to one piece)

Code	Length (mm)	Operating mode	
51029	165	100%	24/48

2 PRENOSNA USB LED SVETILKA

• PRIJENOSNA USB LED SVJETILJKA
• PRENOSNA USB LED SVJETILJKA





LED 3 W | XTE LED | 3.7V d.c. | Li-Ion 600 mAh | 160 LUMEN | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | SOS SIGNAL | ZOOM | AL

- Compact, aluminum torch • Equipped with a long-lasting XTE LED with a luminous flux of 160 lm • Has a Li-Ion battery with 600 mAh capacity with a fixed USB socket assuring access to numerous power supply sources equipped with a USB port (for example powerbanks and USB sockets in cars, laptops, phone chargers) • ZOOM function
- Operating modes: 100%, 50%, FLASH, SOS (button held) • Includes a convenient wrist strap

Code	Length (mm)	Operating mode		
51030	95	100%, 50%, FLASH, SOS	x	8/32

3 POLNILNA ČELNA SVETILKA

• NAGLAVNA LAMPA PUNJIVA • NAGLAVNA LAMPA PUNJIVA



150 LUMEN | CREE XPE LED | 1x 18650 | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Battery-powered headlamp ideal for field work • Adjustable head (up-down) • ZOOM function
- High quality CREE XPE LED with a luminous flux of 150 lm • Equipped with additional red light in the back, which increased the user's visibility and safety • Built-in USB port for charging the torch
- Replaceable 18650 battery (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Included: USB cable, charger, battery

Code	Operating mode	
51032	100%, 50%, FLASH	36

4 ČELNA SVETILKA

• NAGLAVNA SVJETILJKA • NAGLAVNA SVJETILJKA



135 LUMEN | 3 x AAA 3 x 1,5 V d.c. | CREE XPE LED | 100% 50% FLASH | SOS SIGNAL | ZOOM | HIGH POWER | 2in1 | AL AIRCRAFT GRADE

- Battery-powered headlamp ideal for field work • Adjustable head (up-down) • ZOOM function
- High quality CREE XPE LED with a luminous flux of 150 lm • Equipped with additional red light in the back, which increased the user's visibility and safety • Built-in USB port for charging the torch
- Replaceable 18650 battery (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Included: USB cable, charger, battery

Code	Operating mode	
51031	100%, 50%, FLASH	48

1 TORX KLJUČ S T-ROČAJEM

• TORX KLJUČ S T-DRŠKOM • TORX KLJUČ S T-DRŠKOM

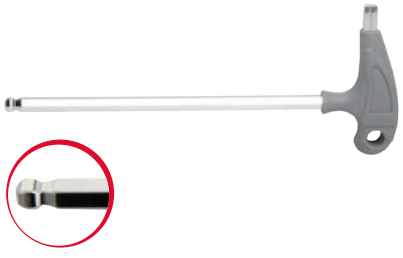


S2 HRC 58±2

Code	(mm)		
48520	2.5	x	24/144
48521	3	x	24/144
48522	4	x	24/96
48523	5	x	24/96
48524	6	x	24/96
48525	8	x	12/72
48526	10	x	12/72

2 IMBUS KLJUČ Z OKROGLO GLAVO IN T-ROČAJEM

• IMBUS KLJUČ S KUGLASTOM GLAVOM I T-DRŠKOM
• IMBUS KLJUČ S KUGLASTOM GLAVOM I T-DRŠKOM



S2 HRC 58±2

Code	(mm)		
48527	2.5	x	24/144
48528	3	x	24/144
48529	4	x	24/96
48530	5	x	24/96
48531	6	x	24/96
48532	8	x	12/72
48533	10	x	12/72

3 TORX KLJUČ S T-ROČAJEM

• TORX KLJUČ SA RUPOM • TORX KLJUČ SA RUPOM



S2 HRC 58±2

Code	Type		
48534	T6	x	24/144
48535	T7	x	24/144
48536	T8	x	24/144
48537	T9	x	24/144
48538	T10	x	24/144
48539	T15	x	24/96
48540	T20	x	24/96
48541	T25	x	24/96
48542	T27	x	24/96
48543	T30	x	12/72
48544	T40	x	12/72
48545	T45	x	12/72
48546	T50	x	12/72

4 TORX KLJUČ S T-ROČAJEM

• TORX KLJUČ S T-DRŠKOM • TORX KLJUČ S T-DRŠKOM



S2 HRC 58±2

Code	Type		
48547	T6	x	24/144
48548	T7	x	24/144
48549	T8	x	24/144
48550	T9	x	24/144
48551	T10	x	24/144
48552	T15	x	24/96
48553	T20	x	24/96
48554	T25	x	24/96
48555	T27	x	24/96
48556	T30	x	12/72
48557	T40	x	12/72
48558	T45	x	12/72
48559	T50	x	12/72

5 IMBUS KLJUČ

• IMBUS KLJUČ • IMBUS KLJUČ



CrV HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48441	1.5	42	13	100/600
48442	2	60	20	60/360
48442P	2.5	64	20	60/360
48443	3	68	20	50/300
48444	4	75	25	50/300
48445	5	82	28	150/900
48446	6	95	32	100/600
48447	7	100	34	80/480
48448	8	105	36	60/360
48449	9	115	48	50/300
48450	10	120	40	40/240
48452	12	125	44	20/120
48454	14	140	50	10/60
48457	17	160	53	4/24
48459	19	180	56	3/18
LONG WRENCHES				
48402	2	84	20	60/360
48402P	2.5	92	20	50/300
48403	3	98	20	50/300
48404	4	109	25	50/300
48405	5	120	28	150/900
48406	6	134	32	100/600
48407	7	142	34	60/360
48408	8	149	36	50/300
48409	9	160	38	40/240
48410	10	170	40	25/150
48412	12	195	44	20/120
48414	14	220	49	10/60
48417	17	250	53	4/24
48419	19	300	56	3/18

6 PODALJŠANI IMBUS KLJUČ

• PRODUŽENI IMBUS KLJUČ
• PRODUŽENI IMBUS KLJUČ



CrV HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
48460	2	102	18	10/1000/2000
48461	2,5	114.5	20.5	10/500
48462	3	129	23	10/1000/4000
48463	4	144	29	200/1200
48464	5	165	33	10/250
48465	6	186	38	10/200
48466	7	197	41	10/200
48467	8	208	44	10/100/200
48468	9	219	47	35/140
48469	10	234	50	25/100
48470	12	262	57	10/40
48471	14	294	70	30
48472	17	350	70	15/30
48473	19	390	77	2/20

7 IMBUS KLJUČ S KROGLIČNO GLAVO

• IMBUS KLJUČ S KUGLASTOM GLAVOM • IMBUS KLJUČ S KUGLASTOM GLAVOM



CrV HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48474	2	52	18	300/1800
48475	2,5	58.5	20.5	300/1800
48476	3	66	23	300/1800
48477	4	74	29	200/1200
48478	5	85	33	150/900
48479	6	90	38	100/400
48480	7	102	41	10/500
48481	8	108	44	64/320
48482	9	114	47	10/250
48483	10	122	50	10/100
LONG WRENCHES				
48565	2	84	20	200/1200
48566	2,5	92	20	200/1200
48567	3	98	20	200/1200
48568	4	109	25	150/900
48569	5	120	28	150/900
48570	6	134	32	100/600
48571	7	142	34	60/360
48572	8	149	36	50/300
48573	9	160	38	30/180
48574	10	170	40	25/150
EXTRA LONG WRENCHES				
48484	2	102	18	10/120/240
48485	2,5	114.5	20.5	200/1200
48486	3	129	23	200/1200
48487	4	144	29	200/1200
48488	5	165	33	150/600
48489	6	186	38	100/400
48490	7	197	41	60/240
48491	8	208	44	50/200
48492	9	219	47	35/140
48493	10	234	50	50/100
48494	12	262	57	15/60
48495	14	294	70	12/48
48496	17	340	75	6/24

1 TORX KLJUČ

• TORX KLJUČ • TORX KLJUČ



CrV HRC 58±2

• Quenched and tempered - polished chromium

Code	Type	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48497	T6	42	15	10/500/1000
48498	T7	44	15	10/500/1000
48499	T8	46	15	20/200
48500	T9	48	15	10/500/1000
48501	T10	48	17	10/500/1000
48502	T15	53	18	200/1200
48503	T20	58	19	200/1200
48504	T25	65	20	200/1200
48505	T27	72	21	150/900
48506	T30	80	24	150/900
48507	T40	90	26	100/600
48508	T45	102	28	70/420
48509	T50	115	32	50/300
LONG WRENCHES				
48510	T9	80	15	10/500/2000
48511	T10	90	17	10/500/1000
48512	T15	100	18	200/1200
48513	T20	110	19	200/1200
48514	T25	126	20	150/900
48515	T27	140	24	100/600
48516	T30	160	28	125/500
48517	T40	176	32	10/200
48518	T45	195	36	10/100
48519	T50	217	40	10/150

2 TORX VARNOSTNI KLJUČ

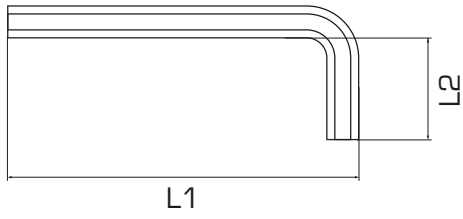
• TORX SIGURNOSNI KLJUČ • TORX SIGURNOSNI KLJUČ



CrV HRC 58±2

• Quenched and tempered - polished chromium

Code	Type	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48578	T9	48	15	300/1800
48579	T10	48	17	300/1800
48580	T15	53	18	200/1200
48581	T20	58	19	200/1200
48582	T25	65	20	200/1200
48583	T27	72	21	150/900
48584	T30	80	24	150/900
48585	T40	90	26	100/600
48586	T45	105	28	70/420
48587	T50	115	32	50/300
LONG WRENCHES				
48588	T9	80	15	200/1200
48589	T10	90	17	200/1200
48590	T15	100	18	200/1200
48591	T20	110	19	200/1200
48592	T25	126	20	150/900
48593	T27	140	24	100/600
48594	T30	160	28	100/600
48595	T40	176	32	60/360
48596	T45	195	36	40/240
48597	T50	217	40	30/180





1 SET IMBUS KLJUČEV

• SET IMBUS KLJUČEVA
• SET IMBUS KLJUČEVA



CrV HRC 58±2

- Highly resistant to abrasion and twisting steel
- Metal ferrule covered with soft plastic
- **48367** - 2, 3, 4, 5, 6, 8, 10 mm • **48368** - 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm

Code	Quantity (pcs)	Range (mm)		
48367	7	2.0 – 10.0	x	12/48
48368	8	1.5 – 8.0	x	12/48

2 SET IMBUS KLJUČEV / IMBUS KLJUČI S KROGLASTO GLAVO

• SET IMBUS KLJUČEVA/IMBUS KLJUČEVA S KUGLASTOM GLAVOM
• SET IMBUS KLJUČEVA/IMBUS KLJUČEVA S KUGLASTOM GLAVOM



x8 CrV HRC 58±2

- Highly resistant to abrasion and twisting steel
- Metal ferrule covered with soft plastic
- Enable to use a wrench at the angle of up to 30° to the bolt axis • **8 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm

Code	Range (mm)		
48378	1.5 – 8.0	x	12/96

3 SET TORX KLJUČEV

• SET TORX KLJUČEVA • SET TORX KLJUČEVA



x8 CrV HRC 58±2

- Highly resistant to abrasion and twisting steel • Metal ferrule covered with soft plastic • **8 pcs.:** T9, T10, T15, T20, T25, T27, T30, T40

Code	Range		
48388	T9 - T40	x	12/96

4 SET IMBUS KLJUČEV

• SET IMBUS KLJUČEVA
• SET IMBUS KLJUČEVA



x9 CrV HRC 58±2

- Wrenches with a standard length
- **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48309	1.5 - 10	x	6/36

6 SET PODALJŠANIH IMBUS KLJUČEV

• SET PRODUŽENIH IMBUS KLJUČEVA
• SET PRODUŽENIH IMBUS KLJUČEVA



x9 CrV HRC 58±2

- Long wrenches
- **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48319	1.5 - 10	x	6/36

5 SET IMBUS KLJUČEV / IMBUS KLJUČI S KROGLASTO GLAVO

• SET IMBUS KLJUČEVA/IMBUS KLJUČEVA S KUGLASTOM GLAVOM
• SET IMBUS KLJUČEVA/IMBUS KLJUČEVA S KUGLASTOM GLAVOM



x9 CrV HRC 58±2

- Long wrenches • Ball ends enable to use a wrench at the angle of up to 30° to the bolt axis • **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48329	1.5 - 10	x	6/36

7 SET TORX KLJUČEV

• SET TORX KLJUČEVA
• SET TORX KLJUČEVA



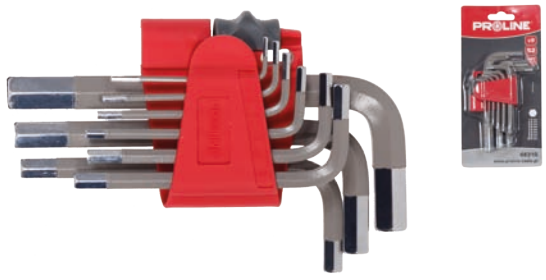
x9 CrV HRC 58±2

- Wrenches with a standard length • **9 pcs.:** T10, T15, T20, T25, T27, T30, T40, T45, T50

Code	Range		
48339	T10 - T50	x	6/36

1 SET IMBUS KLJUČEV

• SET IMBUS KLJUČEVA • SET IMBUS KLJUČEVA



x9 | S2 | HRC 58-62

• Standard lenght wrenches • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm • Covered handle

Code	
48310	6/36

2 SET PODALJŠANIH IMBUS KLJUČEV

• SET PRODUŽENIH IMBUS KLJUČEVA
• SET PRODUŽENIH IMBUS KLJUČEVA



x9 | S2 | HRC 58-62

• Long wrenches • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm
• Covered handle

Code	
48320	6/36

3 SET IMBUS KLJUČEV Z OKROGLO GLAVO

• SET IMBUS KLJUČEVA S KUGLASTOM GLAVOM
• SET IMBUS KLJUČEVA S KUGLASTOM GLAVOM



x9 | S2 | HRC 58-62

• Long wrenches • Ball ends enable to use wrenches at the angle of up to 30° to the bolt axis • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm
• Covered handle

Code	
48330	6/36

4 SET TORX IMBUS KLJUČEV

• SET IMBUS KLJUČEVA • SET IMBUS TORX KLJUČEVA



x9 | S2 | HRC 58-62

• Standard lenght wrenches • T10, T15, T20, T25, T27, T30, T40, T45, T50 • Covered handle

Code	
48340	6/36



PROLINE VIJAČNI NASTAVKI

Vijačni nastavki so nastavki, ki v kombinaciji z ročnim ali električnim držalom služijo, kot orodje za vijačenje. Trdnost za vijačenje različnih tipov vijakov in matic, je pridobljena s pomočjo krom-vanadijevega jekla ali molibdenovega jekla visoke trdnosti in s toplotno obdelavo doseže trdoto do 56-60 HRC.

Izbira vrste nastavkov se začne z določitvijo oblike nastavka za vijačenje. Nato se morajo določiti delovni pogoji nastavkov, t.j. katera orodja ali naprave uporabiti in za katere materiale. Prav tako je treba določiti njihov namen - ali ga uporabiti za serijsko ali posamezna dela.

Za mehke materiale, kot je les, uporabite trše nastavke za kovine uporabite pa torzijske nastavke. Uporaba nastavkov z ustreznimi lastnostmi materiala ima pomemben vpliv na to, kako se v nadaljevanju obnaša nastavek. Z uporabo podaljška odstranite nevarnost loma in brušenja ter uničenja vtičnice izvijača.

VRSTA NASTAVKA GLEDE NA OBLIKE DELOVNEGA DELA

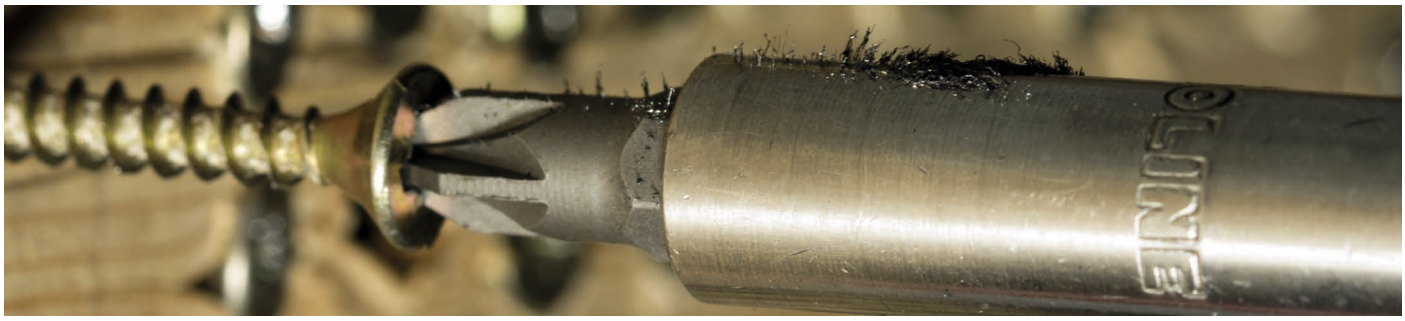
Bit nastavki	Slika	Opis
		Ravni
		Križni (PH)
		Križni (PZ)
		TORX
		TORX varnostni
		Šesterokotni
		Spanner
		Tri-Wing
		Spline
		Ribe

VRSTE NASTAVKOV GLEDE NA DOLŽINO

Bit nastavki	Slika	Opis	Dolžina
		Kratki nastavki	25 mm
		Dolgi nastavki	50-150 mm
		Obojestranski nastavki	50 mm

VRSTE BIT NASTAVKOV GLEDE NA DIMENZIJO VPETJA

1/4" = 6,35 mm	3/8" = 10 mm	5/16" = 8 mm



PROLINE NASTAVCI ODVIJAČA

Bit nastavci su alat koji u kombinaciji sa 1/4" HEX prihvatom na alatu stvara jednu cjelinu spremnu za rad. Tvrdoća za odvijanje različitih vijaka i matica je dobivena pomoću krom-vanadium čelika ili kaljenog čelika visoke kvalitete koja dostiže tvrdoću do 56-60 HRC.

Izbor bit nastavka počinje sa pravilnim odabirom vijaka odnosno koji alat koristiti za koje materijale. Također treba odrediti njihovu namjenu te ga upotrebiti za serijsku ili jednokratnu seriju.

Za mekane materijale kao što je drvo upotrebljavajte nastavke sa torzionim tijelom. Upotreba nastavaka sa elakstičnijim materijalom ima dosjed kako se glava vijka nebi oštetila. Za dugotrajnije korištenje odstranite mogućnost loma nastavka te brušenje i uništavanje nastavka.

VRSTE NASTAVAKA OVISNO OD OBLIKA RADNOG DIJELA

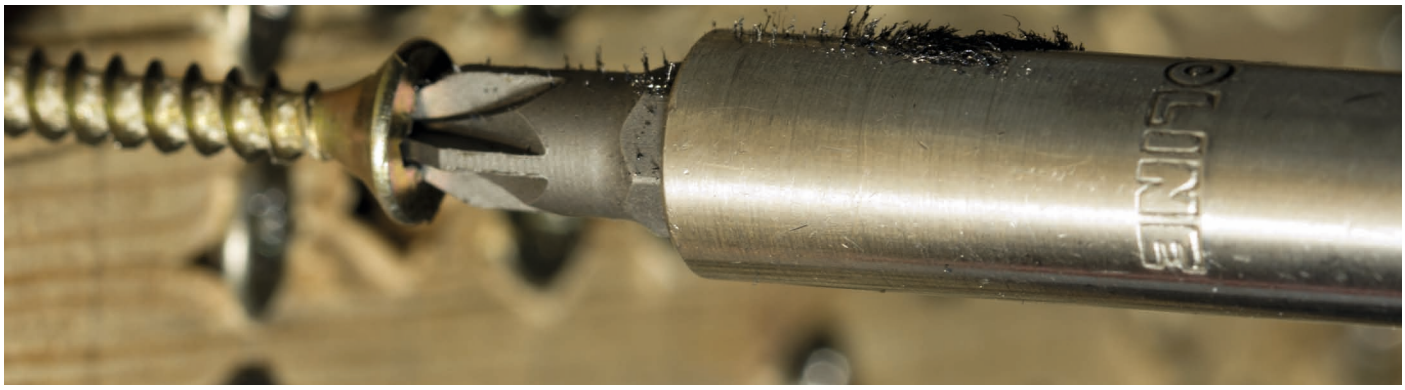
Bit nastavci	Slika	Opis
		Plosnati
		Križni
		Pozidrive (PZ)
		TORX
		TORX sa rupom
		Šesterokutni
		Ključ za matice
		Tri-Wing
		Zvjezda
		Riba

VRSTE NASTAVAKA S BIT NASTAVCI OBZIROM NA DUŽINU

Bit nastavci	Slika	Opis	Duljina
		Standard bitovi	25 mm
		Dugi bitovi	50-150 mm
		Dvostrani bit nastavci	50 mm

VRSTE BIT NASTAVAKA OVISNO O PRIKLJUČKU

1/4" = 6,35 mm	3/8" = 10 mm	5/16" = 8 mm



PROLINE NASTAVCI ODVIJAČA

Bit Nastavci odvijača su alati koji, u kombinaciji s 1/4" heks nasadnim ključem ili s držačem za električni odvijač, čine jedan alat spremnim za rad. Dobijena čvrstina zavijanja različitih tipova vijaka i matica ostvarena je pomoću hrom-vanadijevog čelika ili molibdenskog čelika visoke čvrstine i toplotne obrade do tvrdoće od 56 - 60 HRC.

Izbor vrste nastavaka počinje s određivanjem vrste utičnice, koja će se koristiti za vijak. Zatim se moraju utvrditi radni uslovi nastavaka, tj. pomoću kojih će se alata ili uređaja koristiti, te za koji materijal. Potrebno je odrediti i njegovu namjenu - hoće li se koristiti za serijski ili pojedinačni rad.

Za mekane materijale, kao što je drvo, koristite vrlo tvrde dijelove, a za metale koristite nastavke s torzijskom zonom. Korišćenje nastavaka s odgovarajućim svojstvima materijala ima značajan uticaj na način na koji se nastavak ponaša u priključku odvijača. Korišćenje pravog nastavka eliminira rizik od lomljenja i brušenja i uništavanja priključka odvijača.

VRSTE BIT NASTAVAKA ZAVISNO OD OBLIKA RADNOG DIJELA

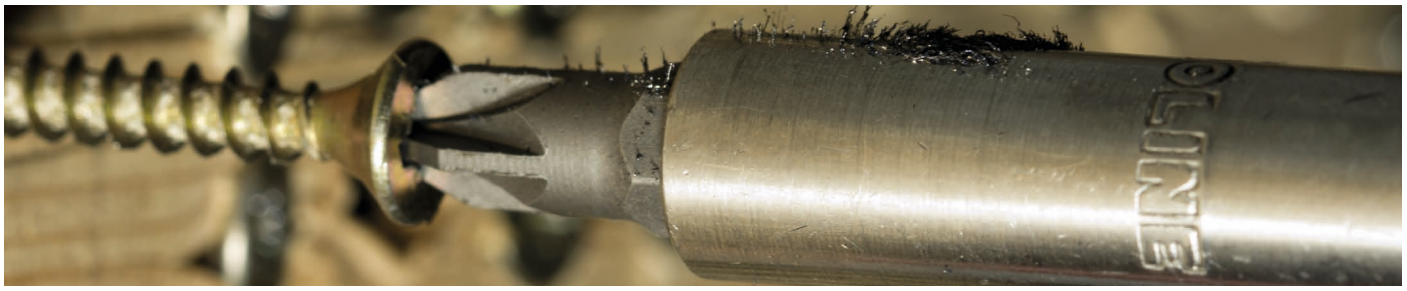
Bit nastavci	Slika	Opis
		Obični
		Krstasti (PH)
		Pozidrive (PZ)
		TORX
		TORX sigurnosni
		Šestougaoni
		Ključ za matice
		Tri-Wing
		Dugački
		Ribe

VRSTE BIT NASTAVAKA ZAVISNO OD DUŽINE

Bit nastavci	Slika	Opis	Dužina
		Standard bitovi	25 mm
		Dugi bitovi	50-150 mm
		Reverzibilni bitov	50 mm

VRSTE BIT NASTAVAKA ZAVISNO OD PRIKLJUČKA

1/4" = 6,35 mm	3/8" = 10 mm	5/16" = 8 mm



1 NASTAVEK RAVNI 1/4" 25MM

• NASTAVCI PLOSNATI 1/4" 25MM
• NASTAVCI PLOSNATI 1/4" 25MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)	BOX	
10614	4.5 x 0.5	10	x	50/100
10615	5.5 x 0.8	10	x	50/100
10616	6.5 x 1.2	10	x	50/100
10618	8.0 x 1.6	10	x	50/100

2 NASTAVEK PH 1/4 "25 MM

• BIT NASTAVCI PH 1/4" 25 MM
• BIT NASTAVCI PH 1/4" 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10620	PH 0	25	x	40/80
10621	PH 1	25	x	40/80
10622	PH 2	25	x	40/80
10623	PH 3	25	x	40/80

3 BIT NASTAVEK PH 1/4 "50 MM

• BIT NASTAVCI PH 1/4" 50 MM
• BIT NASTAVCI PH 1/4" 50 MM



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10626	PH 1	10	x	50/100
10627	PH 2	10	x	50/100
10628	PH 3	10	x	50/100

4 ŠESTEROKOTNI NASTAVEK 1/4 "25MM

• ŠESTEROKUTNI BIT NASTAVCI 1/4" 25MM
• ŠESTOUGAONI BIT NASTAVCI 1/4" 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)	BOX	
10603	3	10	x	30/60
10604	4	10	x	50/100
10605	5	10	x	50/100
10606	6	10	x	50/100

5 NASTAVEK TORX 1/4 "25MM

• BIT NASTAVCI TORX 1/4" 25MM • BIT NASTAVCI TORX 1/4" 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10652	T6	10	x	30/60
10653	T7	10	x	30/60
10654	T8	10	x	30/60
10655	T9	10	x	30/60
10656	T10	10	x	30/60
10657	T15	10	x	50/100
10658	T20	10	x	50/100
10659	T25	10	x	50/100
10660	T27	10	x	30/60
10661	T30	10	x	30/60
10662	T40	10	x	30/60

6 VARNOSTNI BIT NASTAVEK TORX 1/4 "25 MM

• SIGURNOSNI BIT NASTAVCI TORX 1/4" 25 MM
• SIGURNOSNI BIT NASTAVCI TORX 1/4" 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10672	T6	10	x	30/60
10673	T7	10	x	30/60
10674	T8	10	x	30/60
10675	T9	10	x	30/60
10676	T10	10	x	30/60
10677	T15	10	x	30/60
10678	T20	10	x	30/60
10679	T25	10	x	30/60
10680	T27	10	x	30/60
10681	T30	10	x	30/60
10682	T40	10	x	30/60

7 BIT NASTAVEK PZ 1/4 "25 MM

• BIT NASTAVCI PZ 1/4" 25 MM • BIT NASTAVCI PZ 1/4" 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10630	PZ 0	25	x	40/80
10631	PZ 1	25	x	40/80
10632	PZ 2	25	x	40/80
10633	PZ 3	25	x	40/80

8 NASTAVEK PZ 1/4 "50 MM

• BIT NASTAVCI PZ 1/4" 50 MM • BIT NASTAVCI PZ 1/4" 50 MM



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10636	PZ 1	10	x	50/100
10637	PZ 2	10	x	50/100
10638	PZ 3	10	x	50/100

9 OBOJESTRANSKI NASTAVEK 1/4 "50 MM

• OBOSTRANI BIT NASTAVCI • OBOSTRANI BIT NASTAVCI



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10641	PH 1 x PH 2	10	x	50/100
10642	PH 2 x PZ 2	10	x	50/100
10643	PZ 1 x PZ 2	10	x	50/100

1 ŠESTKOTNI NASTAVEK 1/4", 25 MM

- ŠESTEROKUTNI NASTAVCI 1/4", 25 MM
- ŠESTOUGAONI NASTAVCI 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)		
10610	3	2	x	30/240
10611	4	2	x	30/240

2 BIT NASTAVEK PH 1/4 "

- BIT NASTAVCI PH 1/4" • BIT NASTAVCI PH 1/4"



1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10644	PH1	25	2	x	30/240
10645	PH2	25	2	x	30/240
10646	PH3	25	2	x	30/240
10647	PH1	50	2	x	25/200
10648	PH2	50	2	x	25/200
10649	PH3	50	2	x	25/200

3 BIT NASTAVEK PZ 1/4 "

- BIT NASTAVCI PZ 1/4" • BIT NASTAVCI PZ 1/4"



1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10663	PZ1	25	2	x	30/240
10664	PZ2	25	2	x	30/240
10665	PZ3	25	2	x	30/240
10666	PZ1	50	2	x	25/200
10667	PZ2	50	2	x	25/200
10668	PZ3	50	2	x	25/200

4 RAVNI BIT NASTAVEK 1/4", 25 MM

- RAVNI BIT NASTAVCI 1/4", 25 MM • RAVNI BIT NASTAVCI 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)		
10669	4.5	2	x	30/240
10670	5.5	2	x	30/240
10671	6.5	2	x	30/240

5 SUHOMONTAŽNI BIT NASTAVEK 1/4"

- SUHOMONTAŽNI BIT NASTAVAK 1,4"
- SUHOMONTAŽNI BIT NASTAVAK 1,4"



GK | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)	
10822	PH2	25	10	40/80
10823	PZ2	25	10	40/80

6 NASTAVEK SPANNER 1/4", 25 MM

- NASTAVCI ZA KLJUČEVE ZA MATICE 1/4", 25 MM
- NASTAVCI ZA KLJUČEVE ZA MATICE 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10870	4	25	2	x	30/240
10871	6	25	2	x	30/240
10872	8	25	2	x	30/240
10873	10	25	2	x	30/240

7 NASTAVEK SPANNER 1/4", 150 MM

- NASTAVCI ZA KLJUČEVE ZA MATICE 1/4", 150 MM
- NASTAVCI ZA KLJUČEVE ZA MATICE 1/4", 150 MM



150mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10874	4	150	2	x	25/200
10875	6	150	2	x	25/200
10876	8	150	2	x	25/200
10877	10	150	2	x	25/200

8 TRI-WING NASTAVEK 1/4", 25 MM

- TROKRILNI NASTAVCI 1/4", 25 MM
- TROKRILNI NASTAVCI 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10878	1	25	2	x	30/240
10879	2	25	2	x	30/240
10880	3	25	2	x	30/240

9 TRI-WING NASTAVEK 1/4", 150 MM

- TROKRILNI NASTAVCI 1/4", 150 MM
- TROKRILNI NASTAVCI 1/4", 150 MM



150mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10881	1	150	2	x	25/200
10882	2	150	2	x	25/200
10883	3	150	2	x	25/200

1 PH NASTAVEK 1/4“, 100 MM

• PH NASTAVAK 1/4“, 100 MM • PH NASTAVAK 1/4", 100 MM



100mm | 1/4” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10800	PH 0	100	2	x	25/200
10801	PH 1	100	2	x	25/200
10802	PH 2	100	2	x	25/200
10803	PH 3	100	2	x	25/200

2 PZ NASTAVEK 1/4“, 100MM

• PZ NASTAVAK 1/4“, 100 MM • PZ NASTAVAK 1/4", 100 MM



100mm | 1/4” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10804	PZ1	100	2	x	25/200
10805	PZ2	100	2	x	25/200
10806	PZ3	100	2	x	25/200

3 TORX NASTAVEK 1/4“, 100 MM

• TORX NASTAVAK 1/4“, 100 MM • TORX NASTAVAK 1/4", 100 MM



100mm | 1/4” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10807	T6	100	2	x	25/200
10808	T7	100	2	x	25/200
10809	T8	100	2	x	25/200
10810	T10	100	2	x	25/200
10811	T15	100	2	x	25/200
10812	T20	100	2	x	25/200
10813	T25	100	2	x	25/200
10814	T27	100	2	x	25/200
10815	T30	100	2	x	25/200
10816	T40	100	2	x	25/200

4 ŠESTKOTNI NASTAVEK 1/4“, 100MM

• ŠESTEROKUTNI NASTAVAK 1/4“, 100 MM
• ŠESTOUGAONI NASTAVAK 1/4", 100 MM



100mm | 1/4” | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10817	H2	100	2	x	25/200
10818	H3	100	2	x	25/200
10819	H4	100	2	x	25/200
10820	H5	100	2	x	25/200
10821	H6	100	2	x	25/200

5 TORX NASTAVEK 3/8” (10 MM), 30 MM

• TORX NASTAVAK 3/8” (10 MM), 30 MM • TORX NASTAVAK 3/8" (10 MM), 30 MM



30mm | 3/8” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10847	T20	30	2	x	36/216
10848	T25	30	2	x	36/216
10849	T27	30	2	x	36/216
10850	T30	30	2	x	36/216
10851	T40	30	2	x	36/216
10852	T45	30	2	x	36/216
10853	T50	30	2	x	36/216
10854	T55	30	2	x	36/216

6 TORX NASTAVEK 3/8” (10 MM), 75 MM

• TORX NASTAVAK 3/8” (10 MM), 75 MM • TORX NASTAVAK 3/8” (10 MM), 75 MM



75mm | 3/8” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10824	T20	75	2	x	24/144
10825	T25	75	2	x	24/144
10826	T27	75	2	x	24/144
10827	T30	75	2	x	24/144
10828	T40	75	2	x	24/144
10829	T45	75	2	x	24/144
10830	T50	75	2	x	24/144
10831	T55	75	2	x	24/144

7 ŠESTKOTNI NASTAVEK 3/8” (10 MM), 30 MM

• ŠESTEROKUTNI NASTAVAK 3/8” (10 MM), 30 MM • ŠESTOUGAONI NASTAVAK 3/8” (10 MM), 30 MM



30mm | 3/8” | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10855	H4	30	2	x	36/216
10856	H5	30	2	x	36/216
10857	H6	30	2	x	36/216
10858	H7	30	2	x	36/216
10859	H8	30	2	x	36/216
10860	H9	30	2	x	36/216
10861	H10	30	2	x	36/216
10862	H12	30	2	x	36/216

8 ŠESTKOTNI NASTAVEK 3/8" (3/8” (10 MM), 75 MM

• ŠESTEROKUTNI NASTAVAK 3/8” (10 MM), 75 MM
• ŠESTOUGAONI NASTAVAK 3/8” (10 MM), 75 MM



75mm | 3/8” | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10832	H4	75	2	x	24/144
10833	H5	75	2	x	24/144
10834	H6	75	2	x	24/144
10835	H7	75	2	x	24/144
10836	H8	75	2	x	24/144
10837	H9	75	2	x	24/144
10838	H10	75	2	x	24/144
10839	H12	75	2	x	24/144

9 NASTAVEK SPLINE 3/8” (10 MM), 30 MM

• BIT NASTAVAK ZVIJEZDA
• BIT NASTAVAK ZVIJEZDA



30mm | 3/8” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10863	M5	30	2	x	36/216
10864	M6	30	2	x	36/216
10865	M7	30	2	x	36/216
10866	M8	30	2	x	36/216
10867	M9	30	2	x	36/216
10868	M10	30	2	x	36/216
10869	M12	30	2	x	36/216

10 NASTAVEK SPLINE 3/8” (10 MM), 75 MM

• BIT NASTAVAK ZVIJEZDA
• BIT NASTAVAK ZVIJEZDA



75mm | 3/8” | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10840	M5	75	2	x	24/144
10841	M6	75	2	x	24/144
10842	M7	75	2	x	24/144
10843	M8	75	2	x	24/144
10844	M9	75	2	x	24/144
10845	M10	75	2	x	24/144
10846	M12	75	2	x	24/144

1 DRŽALO NASTAVKOV 1/4"

• DRŽAČ BIT NASTAVKA • DRŽAČ BIT NASTAVKA



SOFT TOUCH | 1/4"

• Two-component handle made from hard and soft non-slip material

Code	End (Type x Length mm)		
10900	1/4" x 75	x	12/120

2 MAGNETNO DRŽALO BIT NASTAVKA 1/4"

• MAGNETSKI DRŽAČ BIT NASTAVKA 1/4" • MAGNETNI DRŽAČ BIT NASTAVKA 1/4"



60mm | 1/4" | CrV | HRC 58±3

Code	Length (mm)	Quantity (pcs)	BOX	
10601	60	5	x	50/100

3 MAGNETNO DRŽALO BIT NASTAVKA 1/4"

• MAGNETSKI DRŽAČ BIT NASTAVKA 1/4" • MAGNETNI DRŽAČ BIT NASTAVKA 1/4"





1/4" | CrV

Code	End (Type x Length mm)		
10708	1/4" x 75	x	24/288
10709	1/4" x 100	x	24/288
10710	1/4" x 150	x	24/288

4 DRŽALO NASTAVKOV 1/4" QUICK RELEASE

• DRŽAČ BIT NASTAVKA 1/4" S BRZIM OTPUŠTANJEM
• DRŽAČ BIT NASTAVKA 1/4" S BRZIM OTPUŠTANJEM



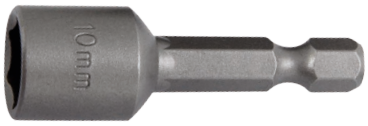


QUICK RELEASE | 1/4" | CrV

Code	End (Type x Length mm)		
10712	1/4" x 100	x	18/216
10713	1/4" x 150	x	18/216

5 NATIČNI NASTAVEK 1/4 "

• NASADNI KLJUČ 1,4" • NASADNI KLJUČ 1,4"



x5 | CrV | HRC 58±2

Code	Size (mm)	BOX	
10690	6	x	30/60
10691	8	x	30/60
10692	10	x	30/60
10693	12	x	30/60
10694	13	x	30/60

6 ADAPTER 1/4 "

• ADAPTER 1/4" • ADAPTER 1/4"



50mm | 1/4" | CrV | HRC 58±2

Code	Quantity (pcs)	BOX	
10602	5	x	30/60

7 ADAPTERJI 1/4 ", 3/8", 1/2 ", HEX 1/4"

• ADAPTERI 1/4", 3/8", 1/2", HEX 1/4" • ADAPTERI 1/4", 3/8", 1/2", HEX 1/4"



1/2" | 3/8" | 1/4" | HRC 50±2

• Handle length 65 mm for 1/4" and 3/8" and 72 mm for 1/2" respectively enabling problem-free work

Code	Quantity (pcs)		
31395	3	x	30/60

1 7 KOM. SET HEX NASTAVKOV H4-H12

- 7 KOM. SET HEX BIT NASTAVKA H4-H12
- 7 KOM. SET HEX BIT NASTAVKA H4-H12



x7 | 10 mm | 1/2" | S2

- The set includes: • HEX H4, H5, H6, H8, H10, H12 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10750	7	24/48

2 15 KOM. SET HEX NASTAVKOV H4-H12

- 15 KOM. SET HEX BIT NASTAVKA H4-H12
- 15 KOM. SET HEX BIT NASTAVKA H4-H12



x15 | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- H4, H5, H6, H7, H8, H10, H12 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10743	15	25

3 7 KOM. SET TORX "SECURITY" NASTAVKOV T20-T55

- 7 KOM. SET TORX "SECURITY" NASTAVKA T20-T55
- 7 KOM. SET TORX "SECURITY" NASTAVKA T20-T55



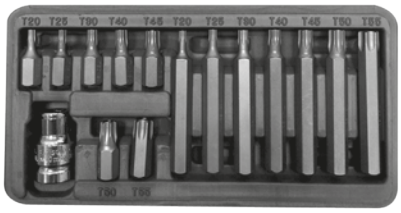
x7 | 10 mm | 1/2" | S2

- The set includes: • TORX SECURITY T20, T30, T40, T45, T50, T55 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10752	7	24/48

4 15 KOM. SET TORX "SECURITY" NASTAVKOV T20-T55

- 15 KOM. SET TORX "SECURITY" NASTAVKA T20-T55
- 15 KOM. SET TORX "SECURITY" NASTAVKA T20-T55



x15 | | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- T20, T25, T30, T40, T45, T50, T55, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10745	15	25

5 7 KOM. SET NASTAVKOV TORX T25-T55

- 7 KOM. SET NASTAVAKA TORX T25-T55 • 7 KOM. SET NASTAVAKA TORX T25-T55



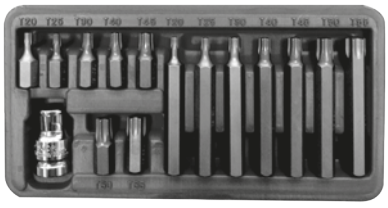
x7 | 10 mm | 1/2" | S2

- The set includes: • TORX T25, T30, T40, T45, T50, T55 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10749	7	24/48

6 15 KOM. SET NASTAVKOV TORX 10MM T20-T55

- 15 KOM. SET NASTAVAKA TORX T20-T55
- 15 KOM. SET NASTAVAKA TORXT20-T55



x15 | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- T20, T25, T30, T40, T45, T50, T55, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10741	15	25

7 8 KOM. SET NASTAVKOV RIBE M5-M14

- 8 KOM. SET BIT NASTAVKA RIBE M5-M14
- 8 KOM. SET BIT NASTAVKA RIBE M5-M14



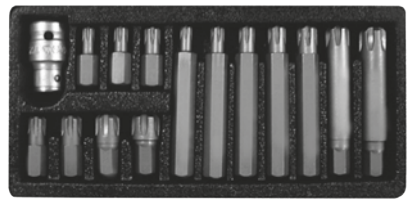
x8 | 10 mm | 1/2" | S2

- The set includes: • RIBE M5, M6, M7, M8, M10, M12, M14 L=30 mm
- 10 mm 1/2"

Code	Quantity (pcs)	
10753	8	24/48

8 15 KOM. SET NASTAVKOV RIBE M6-M14

- 15 KOM. SET BIT NASTAVKA RIBE M6-M14
- 15 KOM. SET BIT NASTAVKA RIBE M6-M14



x15 | | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- M6, M7, M8, M9, M10, M12, M14, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10746	15	25

9 6 KOM. SET NASTAVKOV, M5-M12

- 6 KOM. SET BIT NASTAVKA, M5-M12
- 6 KOM. KSET UTIČNIH NASTAVAKA, M5-M12



x6 | 10 mm | 1/2" | S2

- The set includes: • SPLINE M5, M6, M8, M10, M12 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10751	6	24/48

1 11 KOM. NASTAVKI SPLINE M5-M12

- 11 KOM. BIT NASTAVAKA SPLINE M5-M12
- 11 KOM BIT NASTAVAKA SPLINE M5-M12



x11 | 10 mm | 1/2'' | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- M5, M6, M8, M10, M12, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10744	11	25

3 42 KOM. SET NASTAVKOV RIBE / TORX, T20-T70

- 42 KOM. SET NASTAVAKA RIBE / TORX. T20-T70
- 42 KOM. SET NASTAVAKA RIBE / TORX, T20-T70



x42 | | | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2", 10 mm
- M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14 T20, T25, T30, T40, T45, T50, T55, T60, T70, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10747	42	10

5 SET 40 KOS. NASTAVKOV XZN, TORX, HEX

- SET OD 40 KOM. BIT NASTAVAKA XZN, TORX, HEX
- SET OD 40 KOM. BIT NASTAVAKA XZN, TORX, HEX



x40 | 3/8" | 1/2" | S2 | HRC 60±2

- The set includes: • 3/8" 10 mm • 1/2" 10 mm • 10 mm TORX T20, T25, T30, T40, T45, T50, T55 po 1 pcs. 30 and 75 mm XZN M5, M6, M8, M10, M12, 30 and 75 mm HEX 4, 5, 6, 7, 8, 10, 12 mm, 30 and 75 mm one item each

Code	Quantity (pcs)	
10748	40	10

2 SET 30 KOM. NATANČNIH NASTAVKOV

- SET OD 30 KOM. PRECIZNIH BIT NASTAVAKA
- SET OD 30 KOM. PRECIZNIH UTIČNIH NASTAVAKA





x30 | 5/32" | CrMo | HRC 58±2 | magnet

- The set includes: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, PH000, PH00, PH0, PH1 PZ0, PZ1 T4, T5, T6, T7, T8, T9, T10, T15, T20 H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H4.0
- Made of S2 high quality steel

Code	Quantity (pcs)		
10228	30	X	12/72

4 SET 27 KOM. BIT NASTAVKOV IN DRŽAL 1/4"

- SET OD 27 KOM. BIT DRŽAČA • SET OD 27 KOM. UTIČNIH DRŽAČA





x27 | 1/4" | 60 | S2 | CrV | HRC 58±2 | magnet

- The set includes: 4.0, 5.0, 6.0, PH1,PH2, PH3 PZ1, PZ2, PZ3 T10, T15, T20, T25, T30 H3, H4, H5, H6, 1/4", 1/4" 60T. • Made of S2 high quality steel

Code	Quantity (pcs)		
10701	27	X	20

6 SET 27 KOM. BIT NASTAVKOV IN DRŽAL 1/4"

- SET OD 27 KOM. DRŽAČA • SET OD 27 KOM. DRŽAČA





x27 | 1/4" | 60 | S2 | CrV | HRC 58±2 | magnet

- The set includes: 4.0, 5.0, 6.0, PH2, PH3 PZ2, PZ3 T10, T15, T20, T25, T30 H3, H4, H5, H6, 5, 6, 7, 8, 9, 10, 11, 13mm, 1/4", 1/4" 60T.
- Made of S2 high quality steel

Code	Quantity (pcs)		
10702	27	X	20

1 SET 32 KOM. NASTAVKOV 1/4”

• SET 32 KOM. BIT NASTAVAKA 1/4"
• SET 32 KOM. BIT NASTAVAKA 1/4"





x32 | 1/4” | S2 | CrV | HRC 58±2

• The set includes: ⊖ SL 3, 4, 5, 6 ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 O 0, 1, 2, 3 ◉ H 3, 4, 5, 6 ◎ TS 10, 15, 20, 25, 27, 30, 40 ✹ SPLINE 4, 5, 6, 8 1/4’ 60 mm • Made of S2 high quality steel

Code	Quantity (pcs)		
10705	32	X	20

3 SET KOM. NASTAVKOV 1/4”

• SET 71 KOM. BIT NASTAVAKA 1/4"
• SET 71 KOM. BIT NASTAVAKA 1/4"





x71 | 1/4” | S2 | CrV | HRC 58±2

• The set includes: ⊖ 4, 5, 6 ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 O 0, 1, 2, 3 ◉ H 4, 5, 6 ⦿ T 10, 15, 20, 25, 27, 30 ◓ SPANNER 4, 6, 8, 10 ◎ TORQ 6, 8, 10 ◐ CLUTCH 1, 2, 3 ◉ RIBE 4, 5, 6, 7 ✹ SPLINE 4, 5, 6, 8 ◒ SPLINE 4, 5, 6, 8 ⊜ TRIWING 1, 2, 3, 4 1/4“ 60 mm 1/4’ 60 mm
• Made of S2 high quality steel

Code	Quantity (pcs)		
10703	71	X	20

4 SET 22 KOS. NASTAVKOV IN NASADNIH KLJUČEV

• SET OD 22 KOM. BIT NASTAVAKA I NASADNIH KLJUČEVA
• SET OD 22 KOM. BIT NASTAVAKA I NASADNIH KLJUČEVA



x22 | CrV | HRC 52±2

• The set includes: • 1/4” • 1/4” • 1/4” O 6, 8, 10, 13 mm • 1/4” ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 ⊖ 4, 5, 6 mm ◉ TORX T10, T15 ◉ HEX 3, 4, 5, 6 mm • 1/4”

Code	Quantity (pcs)	
10022	22	6/24

5 KOTNI ADAPTER

• KUTNI ADAPTER • UGAONI ADAPTER



100mm | 1/4'' | 90°

• Made from high quality materials • The handle has snaps to attach the bits securely
• Reinforced (quenched) handles and arm
• Protected with a plastic housing, ensuring reliable screwdriver grip

Code	Length (mm)		
31384	100	x	20/120

2 SET 15 KOM NASTAVKOV 1/4”

• SET 15 KOM. NASTAVAKA1/4" • SET 15 KOM. NASTAVAKA 1/4"





x15 | 1/4” | S2 | CrV | HRC 58±2

• The set includes: ⊖ 4, 5, 6, ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 ⦿ T 10, 15, 20, 25, 30 1/4“
• Made of S2 high quality steel

Code	Quantity (pcs)		
10704	15	X	12/24



1 SET 10 KOS. NASTAVKOV 1/4 “

• SET OD 10 KOM. BIT NASTAVAKA 1/4“
• SET 10 KOM. BIT NASTAVAKA 1/4“



x10 | 1/4” | CrV | HRC 58±2

• The set includes: ⊕ PH1 - 1 pcs., PH2 - 3 pcs. ⊕ PZ1 - 1pcs., PZ2 - 3 pcs. ◉ 6 mm - 1 pcs., 1/4” ▭ 10700: ⊕ PH1, PH2, PH3 ⊕ PZ1, PZ2, PZ3 ⊖ 5, 6 mm ◉ 4 mm, 1/4” ▭

Code	Quantity (pcs)		
10699	10	x	12/72
10700	10	x	12/72

2 SET 23 KOM. NASTAVKOV/ NASADNIH KLJUČEV

• SET 23 KOM. BIT NASTAVAKA / NASADNIH KLJUČEVA
• SET 23 KOM. BIT NASTAVAKA / NASADNIH KLJUČEVA



x23 | CrV

• The set includes: • 1/4” ▭ • ▭ • ▭ ◎ 60 mm • 1/4” ▭ ⊖ 3, 4, 5, 6 mm ⊕ PH 0, 1, 2, 3 • 1/4” ▭ • 1/4” 5, 6, 7, 8, 9, 10, 11, 12, 13 mm • ▭ • Packed in a plastic box and cardboard packaging

Code	Quantity (pcs)	
10008	23	20

3 HITRO VPENJALNA GLAVA 1/4 "

• BRZOSTEZNA GLAVA 1/4" • BRZOSTEZNA GLAVA 1/4"



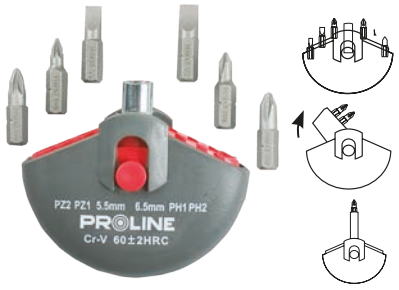
max 1500 RPM | L P | ⌀ 0.5-6.0mm | 1/4”

• Made from high quality materials • Hex socket handle 1/4”

Code	Size (mm)		
31394	0.5-6.0	x	12/48

4 7 KOM. SET NASTAVKOV 1/4 "

• 7 KOM. SET BIT NASTAVAKA 1/4" • 7 KOM. SET BIT NASTAVAKA 1/4"



x7 | 1/4” | CrV | HRC 58±2

• The set includes: ⊕ PH1, PH2 ⊕ PZ1, PZ2 ⊖ 5.5, 6.5 mm ▭ 1/4” • Can be used as a screwdriver

Code	Quantity (pcs)	
10697	7	24/144

5 RAGLJASTI IZVIJAČ Z 12 NASTAVKI

• 12-DJELNA RAČNA-ODVIJAČ • 12-DJELNA RAČNA-ODVIJAČ



x12 | CrV S2

• Handle with a 3-position ratchet, 6 double blades hidded in the handle: PH1 - flat 4 mm, PH2 - flat 5 mm, PZ1 - H 4 mm, PZ2 - H 5 mm , T10 - T15, T20 - T25

Code	Quantity (pcs)		
10028	6 x 2	x	24/96

6 ADAPTER S KOTOM 90° Z NASTAVKI

• KUTNI NASTAVAK ZA UVIJANJE I BUŠENJE • KUTNI NASTAVAK ZA UVIJANJE I BUŠENJE



R/L | max 400 RPM | max 13Nm | 1/4”

Code	Length (mm)		
31380	158	x	6/36

7 ADAPTER ZA NASTAVKE 1/4 "

• SPOJNICE ZA BITNE NASTAVKE 1/4" • SPOJNICE ZA BITNE NASTAVKE 1/4"



1/2” | 3/8” | 1/4” | CrV

Code	Square	Length (mm)	
10607	1/4”	25	50/600
10608	3/8”	30	25/400
10609	1/2”	38	25/200

8 UDARNI IZVIJAČ

• UDARNI DRŽAČ SA BIT NASTAVCIMA • UDARNI DRŽAČ SA BIT NASTAVCIMA



5/16” | 1/2” | CrV | S2

• Works in both directions: counterclockwise and clockwise • Screwdriver made from high quality CrV steel, bits made from S2 steel • PH1, 2, 3, PŁ 5, 6, 8, 10, 12, 14 • Stored in a plastic box with a foam insert

Code	Quantity (pcs)	
10016	9	15



1 "SOFT-TOUCH" IZVIJAČ

• "SOFT-TOUCH" ODVIJAČI • "SOFT-TOUCH" ŠARAFCIGERI

SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material
- Colour-coded handle:



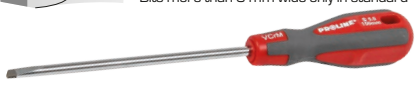
Slot



- Bits 5 mm wide only in parallel



- Bits more than 6 mm wide only in standard



Code	Code on the suspension	Tip width (mm)	Length (mm)	
10151	ZR10151	2.5	63	12/600
10152	ZR10152	3.2	75	12/600
10158	ZR10158	3.2	100	12/600
10100	ZR10100	3.2	150	12/300
10153	ZR10153	5.0	100	12/240
10154	ZR10154	5.0	150	12/240
10103	ZR10103	5.0	200	12/240
10104	ZR10104	5.0	250	12/240
10150	ZR10150	6.0	38	12/300
10106	ZR10106	6.0	100	12/240
10155	ZR10155	6.0	150	12/240
10108	ZR10108	6.0	200	12/96
10109	ZR10109	6.0	250	12/96
10156	ZR10156	8.0	150	6/120
10112	ZR10112	9.5	200	6/96

Phillips (PH)



Code	Code on the suspension	Tip type	Length (mm)	
10080	ZR10080	PH 000	63	12/600
10081	ZR10081	PH 00	63	12/600
10161	ZR10161	PH 0	75	12/600
10083	ZR10083	PH 0	100	12/600
10084	ZR10084	PH 0	150	12/300
10162	ZR10162	PH 1	100	12/240
10086	ZR10086	PH 1	150	12/240
10087	ZR10087	PH 1	200	12/240
10088	ZR10088	PH 1	250	12/240
10168	ZR10168	PH 2	38	12/300
10163	ZR10163	PH 2	100	12/240
10164	ZR10164	PH 2	150	12/240
10092	ZR10092	PH 2	200	12/96
10093	ZR10093	PH 2	250	12/96
10165	ZR10165	PH 3	150	6/120
10167	ZR10167	PH 4	200	6/120

Pozidrive (PZ)



Code	Code on the suspension	Tip type	Length (mm)	
10171	ZR10171	PZ 0	75	12/600
10172	ZR10172	PZ 1	100	12/240
10173	ZR10173	PZ 2	38	12/300
10176	ZR10176	PZ 2	100	12/240
10174	ZR10174	PZ 2	150	12/240
10175	ZR10175	PZ 3	150	6/120

TORX T6-T9

TORX - Security T10-T40 - with an opening



Code	Code on the suspension	Tip type	Length (mm)	
10182	ZR10182	T6	75	12/240
10183	ZR10183	T7	75	12/240
10184	ZR10184	T8	75	12/300
10185	ZR10185	T9	75	12/300
		SECURITY		
10190	ZR10190	T10	100	12/240
10191	ZR10191	T15	100	12/300
10192	ZR10192	T20	100	12/300
10193	ZR10193	T25	100	12/144
10194	ZR10194	T27	100	12/144
10195	ZR10195	T30	100	12/144
10196	ZR10196	T40	100	12/144

2 5 KOM. SET "SOFT - TOUCH" IZVIJAČEV

• 5 KOM. SET "SOFT - TOUCH" ODVIJAČA
• 5 KOM. SET "SOFT - TOUCH" ŠARAFCIGERA



x5 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material
- The set includes:
  - ⊖ 3.2 x 75, 5 x 100, 6 x 150 mm
  - ⊕ PH 1 x 75, 2 x 100 mm

Code	Quantity (pcs)		
10208	5	x	6/36



3 SET 68 KOM. "SOFT-TOUCH" IZVIJAČEV

• SET OD 68 KOM. "SOFT-TOUCH" ODVIJAČA
• SET OD 68 KOM. "SOFT-TOUCH" ŠARAFCIGERA



x68 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Display set • Stand with 68 screwdrivers, with two-component handle made from hard and soft, non-slip material • The set includes:
  - ⊖ 2.5 x 63 - 6 pcs., 3.2 x 75 - 6 pcs., 5 x 100 - 4 pcs., 5 x 150 - 4 pcs., 6 x 150 - 4 pcs., 8 x 150 - 4 pcs.
  - ⊕ PH 0 x 75 - 6 pcs., 1 x 100 - 4 pcs., 2 x 100 - 4 pcs., 2 x 150 - 4 pcs., 3 x 150 - 4 pcs.
  - ⊕ PZ 0 x 75 - 6 pcs., 1 x 100 - 4 pcs., 2 x 100 - 4 pcs., 3 x 150 - 4 pcs.

Code	Quantity (pcs)	
10211	68	2

4 SET 6 KOM. "SOFT - TOUCH" IZVIJAČEV

• SET OD 6 KOM. "SOFT - TOUCH" ODVIJAČA
• SET OD 6 KOM. "SOFT - TOUCH" ŠARAFCIGERA



x6 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material • Shelf hung on the wall
- The set includes:
  - ⊖ 3.2 x 75, 5 x 100, 6 x 150 mm
  - ⊕ PH 0 x 75, 1 x 75, 2 x 100 mm

Code	Quantity (pcs)		
10207	6	x	6/36

1 IZVIJAČ

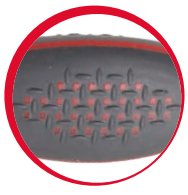
• ODVIJAČI • ŠARAFCIGERI











SOFT TOUCH | S2 | HRC 58±2

• Works in both directions: counterclockwise and clockwise • Screwdriver made from quality CrV steel, bits made from S2 steel • PH1, 2, 3, PŁ 5, 6, 8, 10, 12, 14 • Stored in a plastic box with a foam insert

Slot



Code on the suspension	Tip width (mm)	Length (mm)	
10901	2.5	65	12/240
10902	3.0	75	12/240
10903	5.0	100	12/240
10904	6.0	38	12/120
10905	6.0	100	12/120
10906	8.0	150	6/60

Phillips (PH)



Code on the suspension	Tip type	Length (mm)	
10915	PH0	75	12/240
10916	PH1	100	12/120
10917	PH2	38	12/240
10918	PH2	100	12/120
10919	PH3	150	6/60

Pozidrive (PZ)



Code on the suspension	Tip type	Length (mm)	
10925	PZ0	75	12/240
10926	PZ1	100	12/120
10927	PZ2	38	12/240
10928	PZ2	100	12/120
10929	PZ3	150	6/60

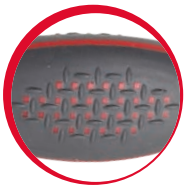
2 SET IZVIJAČEV IN NASTAVKOV

• SET ODVIJAČA I BIT NASTAVAKA • SET ŠARAFCIGERA I BIT NASTAVAKA











x37 | SOFT TOUCH | S2 | HRC 58±2

• ⊖ 6x38, 5x75, 6x100, 8x150 ⊕ PH1x75, 2x38, 2x100, 3x150 ◉ Bit Holder 1/4"x75 mm • ⊖ 2.5x50, 3.0x50 ⊕ PH00x50, PH0x50 ◉ T5x50, 6x50, 7x50, 8x50 • ◉ T10, 15, 20, 25, 30, 40 ◉ H3, 4, 5, 6 ⊖ 4, 5, 6 ⊕ PH1, 2, 3 ⊕ PZ0, 1, 2, 3

• Two-component handle made of hard and soft anti-slip plastic • Magnetic, high-quality S2 steel bits • Wall mounting holes

Code	Quantity (pcs)	
10937	37	6/12



PROLINE

1 IZVIJAČ GO THROUGH

• ODVIJAČ GO THROUGH • ŠARAFCIGER GO THROUGH



SOFT TOUCH | CrV | HRC 52±2

• Two-component handle

Code	Tip width (mm)	Length (mm)		
10114	6	100	x	6/120
10115	6	150	x	6/120
10116	6	200	x	6/120
10117	6	250	x	6/120

Code	Tip width (mm)	Length (mm)		
10144	PH2	100	x	6/120
10145	PH2	150	x	6/120
10146	PH3	150	x	6/60
10147	PH3	200	x	6/60
10148	PH3	250	x	6/60

2 ELEKTRIČARSKI IZVIJAČ 1000 V

• ELEKTRIČNI ODVIJAČ 1000 V • ELEKTRIČNI ŠARAFCIGER 1000 V



1000V | Cr-V-Mo | HRC 58±2

• Handle made from non-slip material, ensuring safe grip

Code	Code on the suspension	Tip width (mm)	L (mm)	
10511	ZR10511	3.0	100	30/120
10513	ZR10513	4.0	100	25/100
10514	ZR10514	5.5	125	20/80
10515	ZR10515	6.5	150	15/60

Code	Code on the suspension	Tip type	L (mm)	
10516	ZR10516	PZ 0	100	30/120
10517	ZR10517	PZ 1	80	25/100
10518	ZR10518	PZ 2	100	20/80

3 6 KOM. SET ELEKTRIČARSKIH IZVIJAČEV 1000 V

• 6 KOM. SET ELEKTRIČNIH ODVIJAČA 1000 V
• 6 KOM. SET ELEKTRIČNIH ŠARAFCIGERA 1000 V



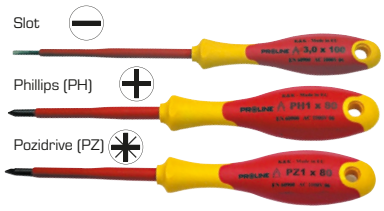
x6 | 1000V | Cr-V-Mo | HRC 58±2

• Handle made from non-slip material, ensuring safe grip
• The set includes:
- ⊖ 5.5 x 125, 4 x 100, 3 x 100 mm
- ⊕ PH 1 x 80, 2 x 100 mm
• Voltage indicator 200 - 250 V, 140 mm
• Delivered in plastic box

Code	Quantity (pcs)		
10510	6	x	10

4 ELEKTRIČARSKI IZVIJAČ 1000 V

• ELEKTRIČNI ODVIJAČ 1000 V • ELEKTRIČNI ŠARAFCIGER 1000 V



1000V | Cr-V-Mo | HRC 58±2

• Two-component non-slip handle

Code	Tip width (mm)/ Type	L (mm)	
10573	2.5	75	80/320
10574	3.0	100	60/240
10575	3.5	100	50/200
10576	4.0	100	50/200
10577	4.5	125	40/160
10578	5.5	125	30/120
10579	6.5	150	25/100

Code	Tip width (mm)/ Type	L (mm)	
10592	PH 0	60	80/320
10593	PH 1	80	40/160
10594	PH 2	100	30/120
10595	PZ 0	60	80/320
10596	PZ 1	80	40/160
10597	PZ 2	100	30/120

5 DIGITALNI MERILNIK NAPETOSTI

• DIGITALNI ISPITIVAČ NAPONA • DIGITALNI ISPITIVAČ NAPONA



LCD DISPLAY | 50-60 Hz | 12-250V | CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10542	12-250	125	x	20/500

6 DIGITALNI MERILNIK NAPETOSTI

• DIGITALNI ISPITIVAČ NAPONA • DIGITALNI ISPITIVAČ NAPONA



LCD DISPLAY | 50-60 Hz | 12-250V | CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10543	12-250	125	x	20/500

7 DIGITALNI MERILNIK NAPETOSTI

• DIGITALNI ISPITIVAČ NAPONA • DIGITALNI ISPITIVAČ NAPONA



LCD DISPLAY | 50-60 Hz | 12-250V | CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10544	12-250	160	x	6/120

8 SET NATANČNIH IZVIJAČEV

• SET PRECIZNIH ODVIJAČA • SET PRECIZNIH ŠARAFCIGERA



x6 | Ni-Cr-Mo

• Handle made from soft plastic, non-slip, ensuring additional rotational torque when screwing • Box structure ensures easy and convenient access to screwdrivers
• Perfect set for watchmakers, jewellers, electronic engineers and other specialists dealing with precision components and structures
• The set includes:
• **10226** - ⊖ 1.4 , 2.0, 2.4 mm - ⊕ PH00, PH0, PH1
• **10225** - ◉ TORX T4, T5, T6, T7, T9, T10

Code	Quantity (pcs)		
10225	6	x	25/100
10226	6	x	25/100

9 SET NATANČNIH IZVIJAČEV

• SET PRECIZNIH ODVIJAČA • SET PRECIZNIH ŠARAFCIGERA



x6 | Ni-Cr-Mo

• Bits: special Ni-Cr-Mo steel, quenched
• Handy and non-slip handle • Perfect set for watchmakers, jewellers, electronic engineers and other specialists dealing with precision components and structures
• The set includes: **10226** - ⊖ 1.4 , 2.0, 2.4 mm - ⊕ PH00, PH0, PH1

Code	Quantity (pcs)		
10229	6	x	20/100

1 KLEŠČE KOMBINIRANE

• KOMBINIRANA KLIJEŠTA • KOMBINOVANA KLIJEŠTA



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Jaws for conductor cutting and shaping • Two-composite, non-slip TPR handle

Code	Size (mm)		
28703	160	x	6/36
28704	180	x	6/36
28705	200	x	6/36

2 KLEŠČE STRANSKE ŠČIPALNE

• KLIJEŠTA SJEKAČA • KLIJEŠTA SJEKAČA



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Jaws with high cutting power
• Two-composite, non-slip TPR handle

Code	Size (mm)		
28708	160	x	6/36
28709	180	x	6/36

3 KLEŠČE ŠČIPALNE ČELNE

• KLIJEŠTA ČEONA • KLIJEŠTA ČEONA



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Jaws with high cutting power and strength • Two-composite, non-slip TPR handle

Code	Size (mm)		
28713	160	x	6/36

4 KLEŠČE KONIČASTE

• KLIJEŠTA ŠPICANGE • KLIJEŠTA ŠPICANGE



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Semi-circular jaws, with furrows, for shaping conductors, with lateral cutting edge • Two-composite, non-slip TPR handle

Code	Size (mm)		
28706	160	x	6/36
28707	200	x	6/36

5 KLEŠČE UKRIVLJENE

• KLIJEŠTA ŠPICANGE ZAKRIVLJENE • KLIJEŠTA ŠPICANGE ZAKRIVLJENE



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Semi-circular jaws, with furrows, curved for shaping conductors, with lateral cutting edge
• Two-composite, non-slip TPR handle

Code	Size (mm)		
28714	160	x	6/36
28715	200	x	6/36

6 PLOŠČATE KLEŠČE

• PLOSNATA KLIJEŠTA • PLJOSNATA KLIJEŠTA



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Flat jaws, with furrows, for shaping conductors • Two-composite, non-slip TPR handle

Code	Size (mm)		
28716	160	x	6/36

7 KLEŠČE KOMBINIRANE

• KOMBINIRANA KLIJEŠTA • KOMBINOVANA KLIJEŠTA



CrV HRC 54±2

• Forged, quenched, made from high-grade tool steel • Flat jaws, with furrows, for shaping conductors • Two-composite, non-slip TPR handle

Code	Size (mm)		
28470	160	x	12/72
28471	180	x	12/72
28472	200	x	12/72

8 KLEŠČE STRANSKE ŠČIPALNE

• KLIJEŠTA SJEKAČA • KLIJEŠTA SJEKAČA



CrV HRC 54±2

• Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28480	160	x	12/72
28481	180	x	12/72

9 KLEŠČE TANKE KONIČASTE

• KLIJEŠTA S VRLO TANKIM VRHOM
• KLIJEŠTA S VRLO TANKIM VRHOM



CrV HRC 54±2

• Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28473	160	x	12/72
28475	200	x	12/72

1 KLEŠČE TANKE UKRIVLJENE

• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM



CrV | HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28477	160	x	12/72
28479	200	x	12/72

4 KLEŠČE STRANSKE ŠČIPALNE

• KLIJEŠTA SJEKAČA - 1000 V
• KLIJEŠTA SJEKAČA - 1000 V



1000V | CrV | HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28526	160	x	12/72
28528	180	x	12/72

7 KLEŠČE ZA ODSTRANJEVANJE IZOLACIJE 1000V

• KLIJEŠTA ZA SKIDANJE IZOLACIJE 1000V
• KLIJEŠTA ZA SKIDANJE IZOLACIJE 1000V



160 mm | 1000V | 0,5-5 mm² | CrV | HRC 40±2

- From chromium and vanadium steel
- Two-composite, non-slip TPR handle

Code	Wire cross-section (mm²)		
28519	0.5 - 5	x	12/72

7 KLEŠČE ZA ODSTRANJEVANJE IZOLACIJE

• KLIJEŠTA ZA SKIDANJE IZOLACIJE
• KLIJEŠTA ZA SKIDANJE IZOLACIJE



160 mm | 0,5-5 mm² | CrV | HRC 40±2

- From chromium and vanadium steel • Two-composite, non-slip TPR handle

Code	Wire cross-section (mm²)		
28486	0.5 - 5	x	12/72

5 KLEŠČE KONIČASTE - 1000 V

• KLIJEŠTA S VRLO TANKIM VRHOM - 1000 V
• KLIJEŠTA S VRLO TANKIM VRHOM - 1000 V



1000V | CrV | HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28513	160	x	12/72
28515	200	x	12/72

8 KLEŠČE KOMBINIRANE

• KOMBINIRANA KLIJEŠTA • KOMBINOVANA KLIJEŠTA



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28750	160	x	6/60
28751	180	x	6/60
28752	200	x	6/60

3 KLEŠČE KOMBINIRANE – 1000 V

• KOMBINIRANA KLIJEŠTA - 1000 V
• KOMBINOVANA KLIJEŠTA 1000 V



1000V | CrV | HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28521	160	x	12/72
28522	180	x	12/72
28523	200	x	12/72

6 KLEŠČE TANKE UKRIVLJENE Z ZAVITIM VRHOM, 1000 V

• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM, 1000 V
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM, 1000 V



1000V | CrV | HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28516	160	x	12/72
28518	200	x	12/72

9 KLEŠČE STRANSKE ŠČIPALNE

• KLIJEŠTA SJEKAČA • KLIJEŠTA SJEKAČA



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28760	160	x	6/60

1 KLEŠČE STRANSKE ŠČIPALNE
• KLIJEŠTA ČEONA • KLIJEŠTA ČEONA



- Forged, made from high-grade tool steel
- High cutting power • Strong blades • Satin
- Ergonomic handles from high-grade material

Code	Size (mm)		
28765	160	x	6/60

2 KLEŠČE KONIČASTE
• KLIJEŠTA S VRLO TANKIM VRHOM
• KLIJEŠTA S VRLO TANKIM VRHOM



- Semi-circular jaws with furrows • Side cutting edge • Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28770	160	x	6/60

3 KLEŠČE TANKE UKRIVLJENE
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM



- Forged, made from high-grade tool steel
- Semi-circular jaws with furrows • Side cutting edge • Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28771	160	x	6/60

4 KLEŠČE PLOŠČATE
• PLOSNATA KLIJEŠTA • PLJOSNATA KLIJEŠTA



- Forged, made from high-grade tool steel
- Short, flat jaws with furrows • Satin
- Ergonomic handles from high-grade material

Code	Size (mm)		
28772	160	x	6/60

5 KLEŠČE KONIČASTE OKROGLE
• OKRUGLA KLIJEŠTA • OKRUGLA KLJEŠTA



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28773	160	x	6/60

6 KLEŠČE KOMBINIRANE
• KOMBINIRANA KLIJEŠTA • KOMBINOVANA KLIJEŠTA



- Forged, made from high-grade tool steel
- Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28700	160	x	6/60
28701	180	x	6/60
28702	200	x	6/60

7 KLEŠČE DIAGONALNE REZALNE
• KLIJEŠTA SJEKAČA
• KLIJEŠTA SJEKAČA



- Forged, made from high-grade tool steel
- Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28710	160	x	6/60
28711	180	x	6/60
28712	200	x	6/60

8 KLEŠČE KONIČASTE
• KLIJEŠTA POLUOKRUGLA • KLIJEŠTA POLUOKRUGLA



- Forged, made from high-grade tool steel
- Semi-circular, elongated jaws with furrows
- Side cutting edge • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28720	160	x	6/60

9 KLEŠČE UKRIVLJENE
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM
• KLIJEŠTA S VRLO TANKIM SAVIJENIM VRHOM



- Forged, made from high-grade tool steel
- Semi-circular, elongated jaws with furrows
- Side cutting edge • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28721	160	x	6/60

10 KLEŠČE PLOŠČATE
• PLOSNATA KLIJEŠTA • PLJOSNATA KLIJEŠTA

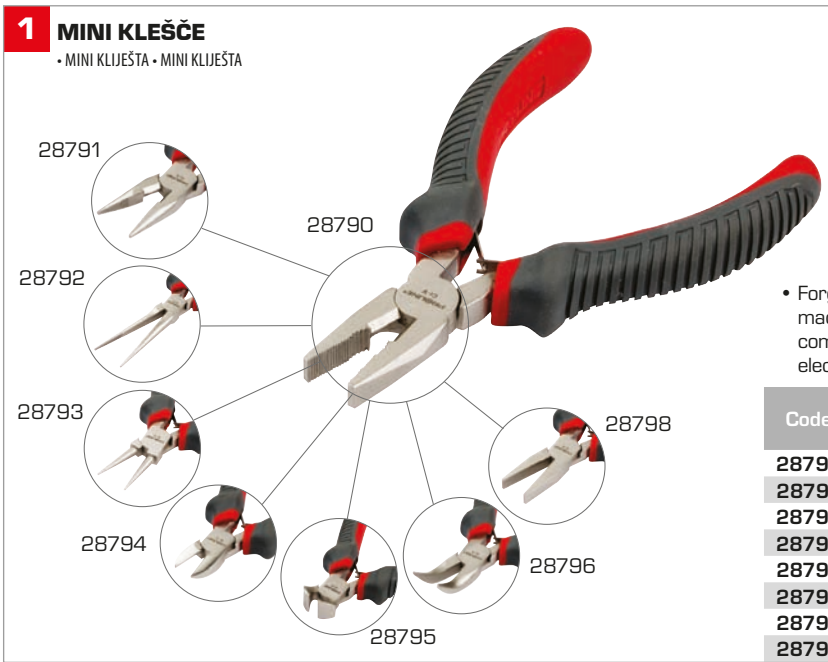


- Forged, made from high-grade tool steel
- Short, flat jaws with furrows • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28722	160	x	6/60

1 MINI KLEŠČE

• MINI KLIJEŠTA • MINI KLIJEŠTA





HRC 60±5

MICRO

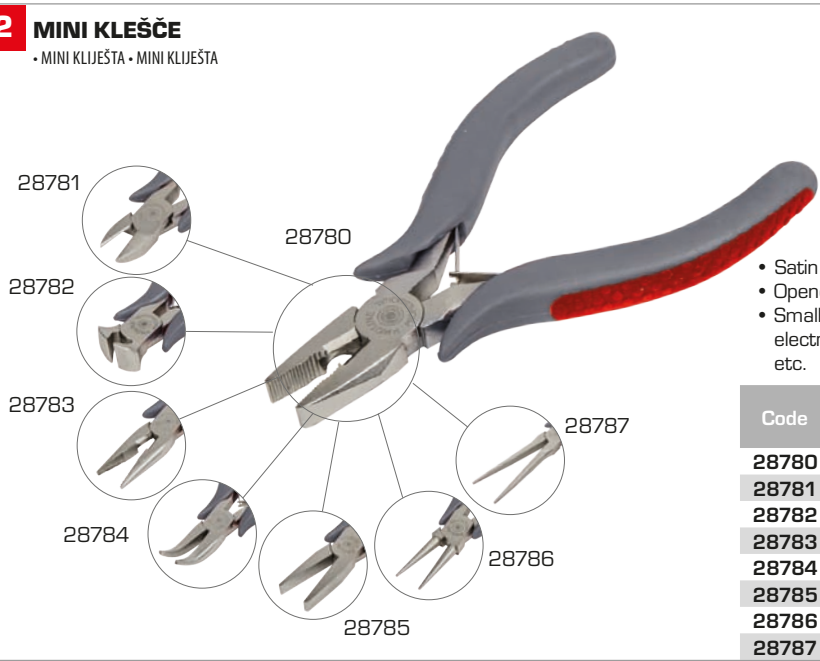
CrV

• Forged, quenched, made from high-grade tool steel • Precise machining of jaws and edges • Opened by return spring • Two-composite, non-slip TPR handle • Designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28790	combination	120	x	6/36
28791	snipe nose	125	x	6/36
28792	elongated nose	150	x	6/36
28793	round nose	125	x	6/36
28794	diagonal side	115	x	6/36
28795	end cutting	105	x	6/36
28796	snipe nos, bent	125	x	6/36
28798	flat nose	125	x	6/36

2 MINI KLEŠČE

• MINI KLIJEŠTA • MINI KLIJEŠTA





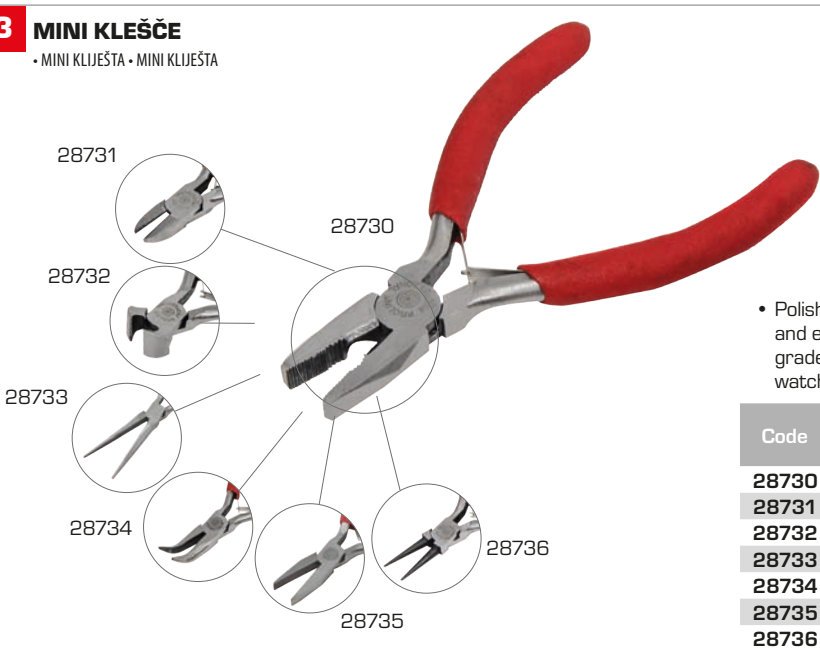
MICRO

• Satin • Delivered on a card • Precise machining of jaws and edges
• Opened by return spring • Two-composite, non-slip TPR handle
• Small pliers from high-grade steel, designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28780	combination	120	x	12/144
28781	diagonal side	110	x	12/144
28782	end cutting	110	x	12/144
28783	needle nose	120	x	12/144
28784	snipe nos, bent	120	x	12/144
28785	flat nose	120	x	12/144
28786	round nose	120	x	12/144
28787	elongated nose	120	x	12/144

3 MINI KLEŠČE

• MINI KLIJEŠTA • MINI KLIJEŠTA





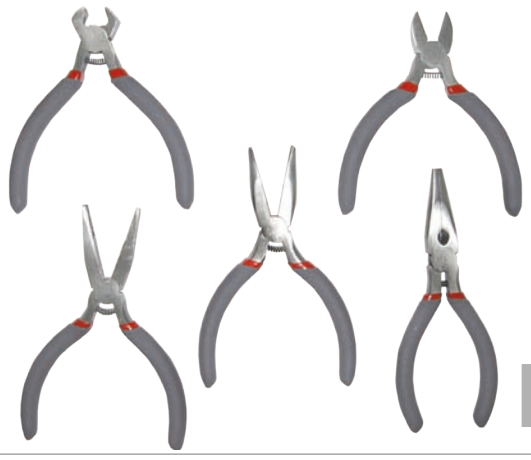
MICRO

• Polished • Handles with flexible lining • Precise machining of jaws and edges • Opened by return spring • Small pliers from high-grade steel, designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28730	combination	120	x	12/144
28731	diagonal side	110	x	12/144
28732	end cutting	110	x	12/144
28733	needle nose	120	x	12/144
28734	snipe nos, bent	120	x	12/144
28735	flat nose	120	x	12/144
28736	round nose	120	x	12/144

1 SET MINI KLEŠČ 5 KOM.

• 5 KOM. SET MINI KLIJEŠTA • 5 KOM. SET MINI KLIJEŠTA



x5 | 120 mm | HRC 50±2

- Polished jaws • Expanding springs
- Handles with flexible lining

Code	Size (mm)		
28745	120	x	6/24

2 ŠKARJE ZA ODSTRANJEVANJE IZOLACIJE

• KLIJEŠTA ZA SKIDANJE IZOLACIJE
• KLIJEŠTA ZA SKIDANJE IZOLACIJE





140mm | STAINLESS STEEL | HRC 58±2

- For cutting thin and soft wires, rubber, leather, plastic and thin metal sheet
- Serrated blade

Code	Size (mm)		
28370	140	x	12/72

3 KLEŠČE ŠČIPALNE ČELNE

• KLIJEŠTA ČEONA • KLIJEŠTA ČEONA



CrV

- Forged • Non-slip handle with rubber lining

Code	Size (mm)	
28556	160	6/60

4 KLEŠČE ŠČIPALNE

• KLIJEŠTA ZA REZANJE ŽICE • KLIJEŠTA ZA REZANJE ŽICE



CrV

- Non-slip handle with rubber lining

Code	Size (mm)	
28510	220	10/60
28512	250	10/60

5 KLEŠČE ŠČIPALNE

• KLIJEŠTA KOVAČKA • KLIJEŠTA KOVAČKA



CrV

- Forged • Ground head • Non-slip handle with rubber lining

Code	Size (mm)	
28568	200	10/60

6 KLEŠČE UNIVERZALNE "TURBO"

• UNIVERZALNA "TURBO" KLIJEŠTA • UNIVERZALNA "TURBO" KLIJEŠTA



- Forged • Satin • Ground jaws • Handle with rubber-covered lining

Code	Size (mm)		
28797	190	x	6/72

7 KLEŠČE ZA REZANJE KABLOV

• KLIJEŠTA ZA REZANJE KABELA • KLIJEŠTA ZA REZANJE KABLA





Cu | Al | STAINLESS STEEL | HRC 54±2

Code	Size (mm)	Ø max (mm)		
28360	185	13	x	12/72

8 KLEŠČE ZA REZANJE KABLOV

• KLIJEŠTA ZA REZANJE KABLOVA
• KLIJEŠTA ZA REZANJE KABLOVA





Cu | Al | CrV | HRC 54±2

- Three-layer, non-slip handle

Code	Size (mm)	Ø max (mm)		
28316	160	6	x	6/60
28321	210	7	x	6/60

9 KLEŠČE ZA REZANJE KABLOV "HEAVY DUTY"

• "HEAVY DUTY" KLIJEŠTA ZA REZANJE KABLOVA
• "HEAVY DUTY" KLIJEŠTA ZA REZANJE KABLOVA





Cu | Al | CrV | HRC 54±2

- Three-layer, non-slip handle

Code	Size (mm)	Ø max (mm)		
28334	240	9	x	6/48

1 KLEŠČE ZA REZANJE KABLOV

• KLIJEŠTA ZA REZANJE KABLOVA • KLIJEŠTA ZA REZANJE KABLOVA



Code	Size (mm)	Max. wire cross-section (mm^2)	
28310	380	125	20
28311	590	250	10
28312	780	500	5

2 KLEŠČE ZA REZANJE MOČNEJŠIH KABLOV

• UDARNA KLIJEŠTA ZA REZANJE DEBLJIH KABLOVA • UDARNA KLIJEŠTA ZA REZANJE DEBLJIH KABLOVA



Code	Size (mm)	Max. wire cross-section (mm^2)		
28313	245	300	x	20
28314	310	500	x	20



1 KLEŠČE SEGER - ZUNANJE RAVNE

- KLIJEŠTA SEGER RAVNA VANJSKA
- KLIJEŠTA S OBRUBOM BEZ PRSTENA - RAVNE VANJSKE POVRŠINE



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28619	180	x	6/60

2 KLEŠČE SEGER - NOTRANJE RAVNE

- KLIJEŠTA SEGER RAVNA UNUTARNJA
- KLIJEŠTA S OBRUBOM BEZ PRSTENA RAVNE UNUTRAŠNJE POVRŠINE



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28629	180	x	6/60

3 KLEŠČE SEGER - ZUNANJE UKRIVLJENE

- KLIJEŠTA ZA SEGER ZAKRIVLJENA VANJSKA • KLIJEŠTA SEGER VANJSKA SAVIJENA



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28639	180	x	6/60

4 KLEŠČE SEGER - NOTRANJE UKRIVLJENE

- KLIJEŠTA ZA SEGER ZAKRIVLJENA UNUTARNJA
- KLIJEŠTA SEGER UNUTARNJA SAVIJENA



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28649	180	x	6/60

5 KLEŠČE SEGER - ZUNANJE RAVNE

- KLIJEŠTA SEGER RAVNA VANJSKA
- KLIJEŠTA SEGER RAVNA VANJSKA

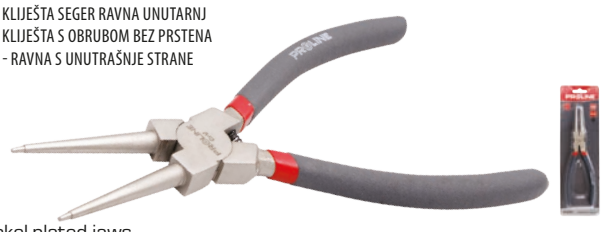


- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28615	150	x	6/60
28617	175	x	6/60
28610	200	x	6/60

6 KLEŠČE SEGER - NOTRANJE RAVNE

- KLIJEŠTA SEGER RAVNA UNUTARNJ
- KLIJEŠTA S OBRUBOM BEZ PRSTENA - RAVNA S UNUTRAŠNJE STRANE

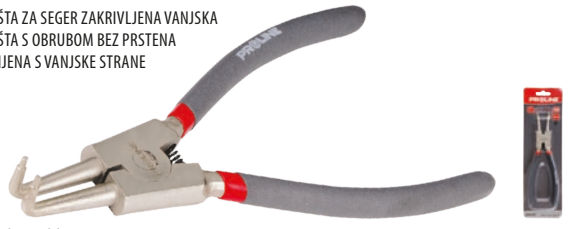


- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28625	150	x	6/60
28627	175	x	6/60
28620	200	x	6/60

7 KLEŠČE SEGER - ZUNANJE UKRIVLJENE

- KLIJEŠTA ZA SEGER ZAKRIVLJENA VANJSKA
- KLIJEŠTA S OBRUBOM BEZ PRSTENA - SAVIJENA S VANJSKE STRANE



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28635	150	x	6/60
28637	175	x	6/60
28630	200	x	6/60

8 KLEŠČE SEGER - NOTRANJE UKRIVLJENE

- KLIJEŠTA ZA SEGER ZAKRIVLJENA UNUTARNJA
- KLIJEŠTA S OBRUBOM BEZ PRSTENA - SAVIJENA S UNUTRAŠNJE STRANE



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

Code	Size (mm)		
28645	150	x	6/60
28647	175	x	6/60
28640	200	x	6/60

1 KLEŠČE ZA ODSTRANJEVANJE IZOLACIJE Z ŽIC

• AUTOMATSKA KLIJEŠTA ZA SKIDANJE IZOLACIJE SA ŽICA
• AUTOMATSKA KLIJEŠTA ZA SKIDANJE IZOLACIJE SA ŽICA



0,5-4 mm²

• Cutting blade

Code	Wire cross-section (mm²)		
28404	8-28		10/50

2 ODSTRANJEVALEC IZOLACIJE S KABLOV IN ŽIC

• JOKAR NOŽ ZA SKIDANJE IZOLACIJE
• KLIJEŠTA ZA SKIDANJE IZOLACIJE S KABLOVA I ŽICA



8-28 mm²

• Handle with rubber inserts, ensuring improved grip • Spring cover

Code	Wire cross-section (mm²)		
28416	8 - 28	x	10/50

3 KLEŠČE KRIMP

• KLIJEŠTA ZA STOPICE • KLIJEŠTA ZA STOPICE



20-10 AWG 0,5-6,0 mm² (DIN) | 22-10AWG 0,5-6,0 mm² DIN | HRC 67±2

Code	Wire cross-section (mm²)		
28493	0.5 - 6	x	50

4 KLEŠČE TELEFONSKE

• KRIMP KLIJEŠTA • KRIMP KLIJEŠTA



8P | 4P 6P 8P | Sk5 | HRC 63±2

Code	Wire cross-section		
28490	8P	x	8/48

5 KLEŠČE TELEFONSKE

• KRIMP KLIJEŠTA • KRIMP KLIJEŠTA



4P 6P 8P | 4P 6P 8P | Sk5 | HRC 63±2

• Replaceable jaws

Code	Wire cross-section		
28489	4P, 6P, 8P	x	8/48

6 KLEŠČE KRIMP

• KLIJEŠTA ZA STOPICE
• KLIJEŠTA ZA STOPICE



22-10AWG 0,5-6,0 mm² (DIN) | HRC 45±2

• For end crimping 22-10 AWG • Rattle lever guarantees easy and repeatable end crimping

Code	Wire cross-section (mm²)		
28492	0.5 - 6	x	6/36

7 KLEŠČE GRIP ZA KABELSKE KONTAKTE

• KRIMP KLIJEŠTA • KRIMP KLIJEŠTA



22-10 AWG 0,2-6 mm² | HRC 55±2

• For removing wire insulation cross-section 0.2-6 mm² • Jaws for end crimping 22-10 AWG, 7-8mm

Code	Wire cross-section (mm²)		
28412	0.2 - 6	x	6/36



8 KLEŠČE ZA ODSTRANJEVANJE IZOLACIJE Z ŽIC

• AUTOMATSKA KLIJEŠTA ZA SKIDANJE IZOLACIJE SA ŽICA
• AUTOMATSKA KLIJEŠTA ZA SKIDANJE IZOLACIJE SA ŽICA



0,5-6 mm² | 175 mm

• Adjustable force value of the cutting valve
• Adjustable insulation cutting depth

Code	Wire cross-section (mm²)		
28408	0.5 - 6	x	6/60

1 KLJUČ UNIVERZALNI

• PODESIVI KLJUČ ZA MATICU • PODESIVI KLJUČ ZA MATICU







CrV 6140

- Forged, quenched
- Work range greater than the work range of standard spanners
- Special jaw structure ensuring reliable grip and adjustment to the nut shape
- Accurate worm wheel mechanism
- TPR handle covered with material resistant to grease and oil

Code	Size (mm)	Range (mm)		
29326	150	0 - 24	x	6/120
29328	200	0 - 29	x	6/60
29330	250	0 - 33	x	6/48
29332	300	0 - 38	x	6/24

2 KLJUČ UNIVERZALNI NASTAVLJIV

• PODESIVI KLJUČ ZA MATICU • PODESIVI KLJUČ ZA MATICU



CrV

- Forged, quenched • Accurate worm wheel mechanism
- Metric scale • Nut sockets: two hexagonal and one ring one
- Two-composite, non-slip TPR handle

Code	Size (mm)	Range (mm)		
29319	150	0 - 25	x	6/48
29320	200	0 - 30	x	6/36
29321	250	0 - 35	x	6/24
29322	300	0 - 40	x	6/24

3 KLJUČ UNIVERZALNI NASTAVLJIV

• PODESIVI KLJUČ ZA MATICU • PODESIVI KLJUČ ZA MATICU



- Forged • Satin • Metric scale • Ground jaws • Handle with rubber-covered lining

Code	Size (mm)	Range (mm)	
29306	150	0 - 19	6/120
29308	200	0 - 24	6/72
29310	250	0 - 28	6/48
29312	300	0 - 34	6/24
29315	375	0 - 43	6/12
29318	450	0 - 52	4/8
29324	600	0 - 62	1/4

4 KLEŠČE GRIP

• KLIJEŠTA GRIP • KLIJEŠTA GRIP



CrMo HRC 42±2

- Rounded, quenched jaws • Screw controlling jaw opening • Release lever
- Non-slip, two-colour handle

Code	Size (mm)		
28217	180	x	6/36
28227	240	x	6/36

5 KLEŠČE GRIP

• KLIJEŠTA GRIP ŠPICASTA • KLIJEŠTA GRIP ŠPICASTA





CrMo HRC 42±2

- Elongated, quenched jaws • Screw controlling jaw opening
- Release lever • Non-slip, two-colour handle

Code	Size (mm)		
28220	220	x	6/36

1 KLEŠČE ZA BLOKIRANJE
• KLIJEŠTA GRIP OJAČANA • KLIJEŠTA GRIP OJAČANA



CrMo | HRC 42±2

• Elongated, quenched jaws • Screw controlling jaw opening • Release lever

Code	Size (mm)		
28222	225	x	6/36

2 KLEŠČE GRIP
• KLIJEŠTA GRIP • KLIJEŠTA GRIP



CrMo | HRC 55±2

• Rounded, quenched jaws • Screw controlling jaw opening • Release lever

Code	Size (mm)		
28214	180	x	6/36

3 KLEŠČE GRIP
• KLIJEŠTA GRIP OJAČANA • KLIJEŠTA GRIP OJAČANA



CrV

• Rounded, machined locking jaws
• Screw controlling jaw opening
• Chromium-plated

Code	Size (mm)		
28215	250	x	6/60

4 KLEŠČE GRIP
• KLIJEŠTA GRIP • KLIJEŠTA GRIP



CrMo | HRC 42±2

• Flat, quenched jaws
• Screw controlling jaw opening
• Release lever

Code	Size (mm)		
28240	180	x	6/36
28245	250	x	6/36

5 KLEŠČE GRIP
• KLIJEŠTA GRIP • KLIJEŠTA GRIP



• Rounded, machined locking jaws
• Screw controlling jaw opening
• Release lever • Blackened

Code	Size (mm)		
28219	180	x	6/60
28226	250	x	6/24

6 KLEŠČE UNIVERZALNE
• KLIJEŠTA PAPAGAJ • KLIJEŠTA PAPAGAJ



Ø max. 2" | 250mm | CrV | DIN 5743

• Polished

Code	Size (mm)	Pipes diameter	
28581	250	2"	6/60

7 KLEŠČE UNIVERZALNE
• KLIJEŠTA PAPAGAJ • KLIJEŠTA PAPAGAJ



Ø max. 1½" | 250mm | CrV

• Blackened

Code	Size (mm)	Pipes diameter	
28580	250	1 ½"	10/50

8 KLEŠČE ZA OBLIKOVANJE PROFILOV
• KLIJEŠTA ZA OBLIKOVANJE PROFILA
• KLIJEŠTA ZA OBLIKOVANJE PROFILA



210 mm

• Designed for manual section forming
• Flat jaws, knurled inside

Code	Jaw dimensions (mm)		
28381	80 x 35	x	2/12
28382	150 x 35	x	2/12

9 KLEŠČE ZA OBLIKOVANJE PROFILOV - UKRIVLJENE
• KLIJEŠTA ZA OBLIKOVANJE PROFILA - SAVIJENA
• KLIJEŠTA ZA OBLIKOVANJE PROFILA - SAVIJENA



205 mm

• Designed for manual section forming
• Flat jaws, knurled inside

Code	Jaw dimensions (mm)		
28380	80 x 35	x	2/12

10 KLEŠČE ZA POVEZOVANJE PROFILOV
• KLIJEŠTA ZA SPAJANJE PROFILA
• KLIJEŠTA ZA SPAJANJE PROFILA



GR15 | Al-Ti A380 | max 2x0,8mm | HRC 57±2

• For joining steel sections with the thickness up to 0.8 mm • Helpful when joining sections for gypsumboard • Punch and matrix made from GR15 steel • Head made from Al-Ti A380 alloy

Code	Size (mm)		
28390	275	x	6/24

1 KLEŠČE UNIVERZALNE

• KLIJEŠTA VODOINSTALATERSKA • KLIJEŠTA VODOINSTALATERSKA



90° CrV

• Forged

Code	Size (mm)	Pipes diameter	
29720	320	1”	24
29721	420	1 ½”	12
29722	550	2”	6

2 KLEŠČE UNIVERZALNE

• KLIJEŠTA VODOINSTALATERSKA • KLIJEŠTA VODOINSTALATERSKA



45° CrV

• Forged

Code	Size (mm)	Pipes diameter	
29710	320	1”	24
29711	420	1 ½”	12
29712	550	2”	6

3 KLEŠČE UNIVERZALNE

• KLIJEŠTA VODOINSTALATERSKA • KLIJEŠTA VODOINSTALATERSKA



S CrV

• Forged

Code	Size (mm)	Pipes diameter	
29701	320	1”	24
29705	420	1 ½”	12
29706	550	2”	6

4 KLJUČ ZA CEVI STILLSON

• KLJUČ ZA CIJEVI STILLSSON • KLJUČ ZA CIJEVI STILLSSON



• Forged • Increased wrench cross-section, offering very high durability
• Handle covered with non-slip rubber-coated material

Code	Size (cal/mm)	Pipes diameter	
29008	8”/200	1”	6/48
29010	10”/250	1 ½”	6/24
29012	12”/300	2”	6/18
29014	14”/350	2”	6/12
29018	18”/450	2 ½”	2/8
29024	24”/600	3”	2/4
29036	36”/900	3½”	2

5 UPOGIBALEC CEVI

• SAVIJAČ CIJEVI
• SAVIJAČ CIJEVI





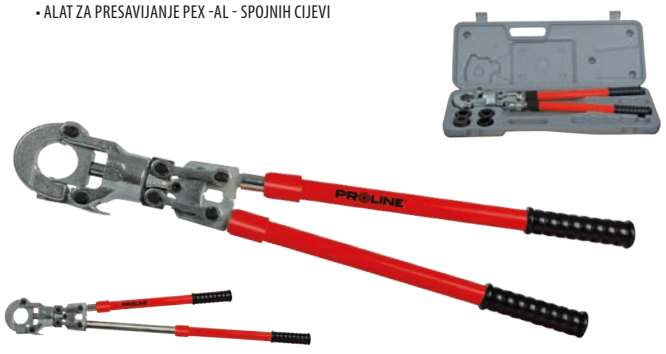
AL Cu 180°

• Bender for copper, aluminum pipes, bending range 180°

Code	Diameter (mm)	BOX	
67215	6/8/10	x	20

6 ORODJE ZA PEX -AL - SPOJNIH CEVI

• ALAT ZA PRESAVIJANJE PEX -AL - SPOJNIH CIJEVI
• ALAT ZA PRESAVIJANJE PEX -AL - SPOJNIH CIJEVI



PEX AL PEX | PE-RT AL PE-RT | 6T 60kN | U ø16 | U ø20 | U ø26 | U ø32

• Crimping tool for PEX-AL-PEX connections, 4 dies included • 360° swivel head • Dies available for purchase separately (PROLINE 67241-16 mm, 16242-20 mm, 16243-26 mm, 16244-32 mm)

Code	Diameter (mm)	BOX	
67240	16/20/26/32	x	2

7 DODATNI KALUP ZA ORODJE ZA UPOGIBANJE PEX-AL-PEX

• DODATNI MODEL ZA ALAT ZA PRESAVIJANJE PEX-AL-PEX
• DODATNI MODEL ZA ALAT ZA PRESAVIJANJE PEX-AL-PEX





• For the 67240 crimping tool

Code	Diameter (mm)	
67241	16	25/100
67242	20	25/100
67243	26	25/100
67244	32	25/100

1 KLJUČ Z RAGLJO KORAČNI

• RAČNA SA STEPENASTIM KLJUČEM
• RAČNA SA STEPENASTIM KLJUČEM



1/2" CrV 36T

• Inside ratchet

Code	Size (mm)		
18187	3/8" (9,6mm), 7/16" (11,6mm), 1/2" (12,5mm), 5/8" (16,4mm), 13/16" (21mm)	x	5/20

2 KORAČNI IZVIJAČ

• STEPENASTI KLJUČ
• STEPENASTI KLJUČ



1/2" CrV

Code	Size (mm)		
18188	3/8" (9,6mm), 7/16" (11,6mm), 1/2" (12,5mm), 5/8" (16,4mm), 13/16" (21mm)	x	20/100



3 SET ORODIJ ZA RAZTEZANJE

• SET ALATA ZA RASTEZANJE • SET ALATA ZA RASTEZANJE



3-19 mm

• For installation works and in automotive sector

Code	Diameter (mm)	
67208	3 - 19	10

4 SET ORODIJ ZA RAZTEZANJE

• SETOVI ALATA ZA RASTEZANJE
• SETOVI ALATA ZA RASTEZANJE



• For installation works and in automotive sector

Code	Diameter (mm)	BOX	
67209	19 - 25	x	18
67210	22 - 28	x	18

5 VPENJALO ZA CEVI

• ŠKRIPAC ZA CIJEVI • ŠKRIPAC ZA CIJEVI



• Designed for plumbing works

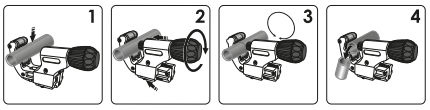
Code	Ø max (mm)	BOX	
67211	76	x	4
67212	90	x	2

6 TELESKOPSKI REZALNIK CEVI - S HITRO NASTAVITVIJO

• RUČNI REZAČ ZA CIJEVI • RUČNI REZAČ ZA CIJEVI







Cu Al Ø 6-67 mm

• Designed for copper, aluminium and brass pipes • Four steel guide rollers
• Ratchet gear enabling quick adjustment to the pipe diameter • High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17214	6 - 67	x	5/20

7 REZALNIK CEVI

• RUČNI REZAČ ZA CU CIJEVI
• RUČNI REZAČ ZA CU CIJEVI





Al Cu Ø 3-30 mm

• For copper and aluminium pipes
• Foldable, steel deburring tool • High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17211	3 - 30	x	10/50

1 REZALNIK CEVI TELESKOPSKI

• RUČNI REZAČ ZA CU CIJEVI
• RUČNI REZAČ ZA CU CIJEVI



Al Cu

- Designed for copper, aluminium and brass pipes • Retractable, steel deburring tool
- High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17212	6 - 35	x	10/50
17213	6 - 42	x	5/50

2 MINI REZALNIK CEVI

• MINI REZAČ CIJEVI • MINI REZAČ CIJEVI



Al Cu Ø 3-22 mm

- For thin-walled copper and aluminium pipes
- High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17210	3 - 22	x	10/50

3 REZALNIK CEVI

• REZAČ CIJEVI • REZAČ CIJEVI



AL Cu

- Designed for copper, aluminium and plastic pipes • Ideal for cutting pipes hard to be reached

Code	Diameter (mm)		
17215	15	x	12/72
17216	22	x	12/72
17217	28	x	6/48

4 PVC REZALNIK

• REZAČ ZA PVC CIJEVI • REZAČ ZA PVC CIJEVI



PP PVC PE Ø max. 42mm HRC 55±2

- Ratchet gear increasing blade pressure
- Blade made from stainless steel
- Body made from aluminium alloy

Code	Ø max (mm)		
17201	42	x	10/50

5 REZALNIK CEVI

• REZAČ ZA PVC CIJEVI • REZAČ CIJEVI



HRC 56±2

PP PVC PE Ø max. 42mm CrV

- Ratchet gear facilitating cutting
- Body made from aluminium cast

Code	Ø max (mm)		
17200	42	x	10/30

6 ŠKARJE ZA VEČPLASTNE CEVI

• VIŠESLOJNI REZAČ ZA CIJEVI
• VIŠESLOJNE MAKAZE ZA CIJEVI



Ø max. 36mm HRC 55±2

- For multi-layered pipes of PE-X/Al/PE-RT Typee • Blade made from stainless steel
- Body made from aluminium alloy

Code	Ø max (mm)		
17202	36	x	10/50

7 SET ZA VREZOVANJE NAVOJEV CEVI

• SET CIJEVNIH NAREZNICA
• SET CIJEVNIH NAREZNICA



9Cr2

- Two-way ratchet (16 teeth) • Aluminium ratchet casing • Two-part handle

Code	Quantity (pcs)	Heads		
67206	6	1/2", 3/4", 1", 1¼"	x	4
67207	7	3/8", 1/2", 3/4", 1", 1¼"	x	4

8 POSNEMOVALNIK ROBOV

• UREĐAJ ZA SKIDANJE BRIDOVA • UREĐAJ ZA SKIDANJE IVICA



AL HSS M2

Code	Blade diameter (mm)		
67201	3,2	x	50/150

9 REZILA ZA POSNEMOVALNIK ROBOV

• OŠTRICE ZA SKIDANJE BRIDOVA • OŠTRICE UREĐAJA ZA SKIDANJE IVICA

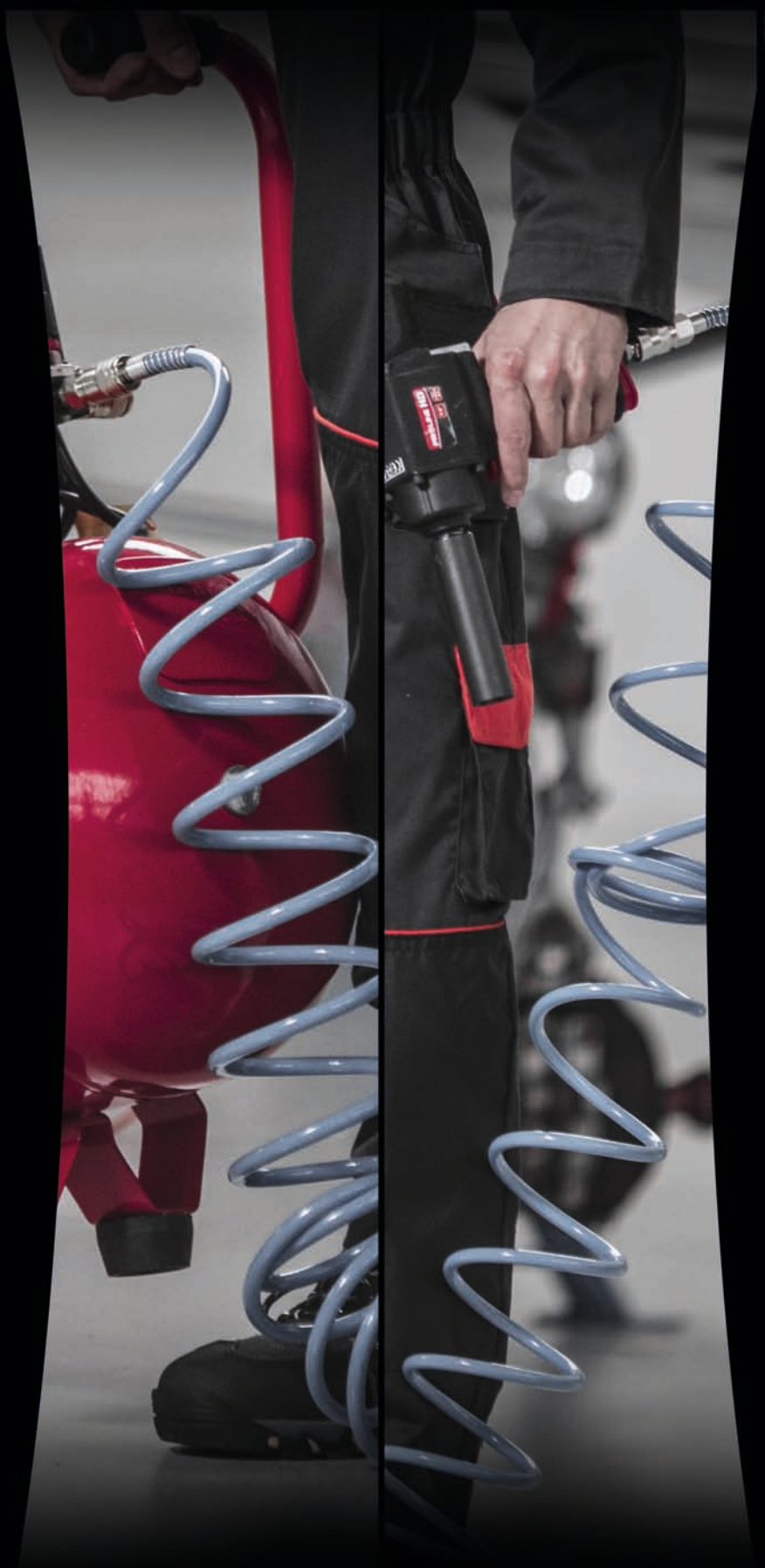


x5 HSS M2

- Universal size fits deburrer Proline 67201

Code	Diameter (mm)		
67202	3,2	x	12/144

PNEVMATSKA ORODJA IN DODATKI/ PNEUMATSKI ALAT I DODATCI



filtri/filtri

pištole/pištolj:

za pihanje/za puhanje

za polnjenje/za punjenje

za barvanje/za bojanje

za pranje/za pranje

udarni vijačniki/udarni odvijač

mazalke/nauljivač

pnevmatske cevi/pneumatske cijevi

konektorji/konektori

PNEVMATSKA ORODJA IN PRIBOR

Pnevmatska orodja so odlična alternativa električnim, vendar so tudi bolj učinkovita: nudijo večjo moč in manjšo težo.



Kako izbrati pištolo za lakiranje?

Osnovna delitev brizgalnih pištol na funkcionalni ravni vključuje naslednje:



HP (visokotlačna) brizgalna pištola - najstarejša dostopna tehnika tlačnega barvanja. Majhna količina barve se pod visokim pritiskom iztisne skozi majhno odprtino, ki tvori tako imenovani vzorec. Pištole HP brizgajo veliko barve, kar povzroča veliko porabo barve.



HVLP (nizkotlačna) brizgalna pištola - v šobi je več odprtin kot pri HP pištoli, kar pomeni, da je tlak nižji, vendar se količina razpršene barve poveča. Prednost pištole HVLP je v uporabi manjših količin barve, vendar je za takšno pištolo potreben močnejši kompresor. LVLP pištola za razprševanje (nizkotlačna z malo porabo barve) - tip pištole, ki kombinira prednosti pištol HP in HVLP. Deluje pri nizkem tlaku, z nizko porabo kompresorskega zraka, kar zagotavlja nizko izgubo barve.



Lakirna pištola LVLP je najsodobnejše orodje za lakiranje. Pištolo je treba izbrati tako, da lahko učinkovito deluje s kombinacijo kompresorjev in rezervoarjev. Visokotlačna pištola se lahko uporablja z manjšimi rezervoarji v kombinaciji z učinkovitimi kompresorji, HVLP pištola pa zahteva zelo veliko posodo. Pištola mora biti izbrana da omogoča učinkovitejše delo z izbranim kompresorjem.
Manjši rezervoar z močnim kompresorjem omogoča pršenje pod visokim tlakom, medtem ko pištola HVLP zahteva tank večje kapacitete.

DIAGRAM SESTAVE PNEVMATSKIH ORODIJ



1. Kompresor
2. Filter - regulator tlaka - sušilnik
3. Hitri priključek 1/4 "
4. Spiralna cev
5. Pnevmatsko orodje - pištola za brizganje
6. Hitri priključek 1/4 "
7. Pnevmatsko orodje - udarni vijačnik

PNEUMATSKI ALATI I PRIBOR

Pneumatski alati su izvrsna alternativa svojim električnim kolegama, ali su i mnogo učinkovitiji: nude veću snagu i manju težinu.



Kako odabrati pištolj za lakiranje?

Osnovna podjela pištolja za špricanje na funkcionalnoj razini uključuje sljedeće:



HP (visokotlačni) pištolj za bojanje raspršivanjem - najstarija dostupna tehnika tlačnog lakiranja. Mala količina boje izbacuje se pod visokim tlakom kroz mali otvor, tvoreći takozvani uzorak. HP pištolji uzrokuju značajno raspršivanje boje, što uzrokuje značajnu količinu boje koja se koristi.

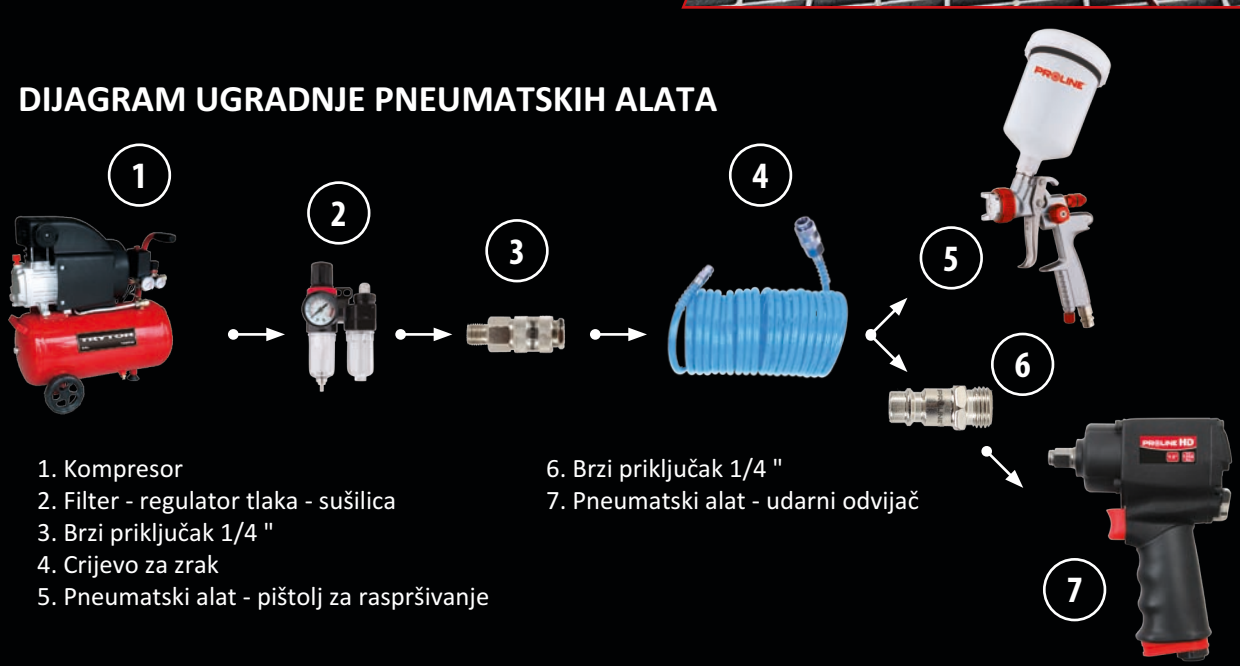


HVLP (niskotlačni) pištolj za raspršivanje boje - ima više otvora u mlaznici od HP pištolja, što znači da je tlak niži, ali se količina raspršene boje povećava. HVLP pištolj ima prednost u tome što koristi manje boje, ali za takav pištolj je potreban snažniji kompresor. LVLP pištolj za raspršivanje boje (nizak tlak s malom potrošnjom boje) - tip pištolja koji kombinira prednosti HP i HVLP pištolja, tj. Radi pri niskom tlaku, s malom potrošnjom komprimiranog zraka, što jamči nizak gubitak boje.



Pištolj za lakiranje LVLP je najmoderniji alat za lakiranje. Pištolj treba odabrati tako da omogućuje učinkovit rad s kombinacijom kompresora i spremnika. Pištolj visokog tlaka može se koristiti s manjim spremnicima u kombinaciji s učinkovitim kompresorima, dok HVLP pištolj zahtijeva vrlo veliki spremnik.

DIJAGRAM UGRADNJE PNEUMATSKIH ALATA



1. Kompresor
2. Filter - regulator tlaka - sušilica
3. Brzi priključak 1/4 "
4. Crijevo za zrak
5. Pneumatski alat - pištolj za raspršivanje
6. Brzi priključak 1/4 "
7. Pneumatski alat - udarni odvijač

PNEUMATSKI ALATI I PRIBOR

Pneumatski alati su odlična alternativa svojim električnim kolegama, ali su i mnogo djelotvorniji: nude veću snagu i manju težinu.



Kako odabrati pištolj za lakiranje?

Osnovna podjela pištolja za prskanje na funkcionalnom nivou uključuje sljedeće:



HP (pod visokim pritiskom) pištolj za bojenje raspršivanjem - najstarija dostupna tehnika lakiranja pod pritiskom. Mala količina boje izbacuje se pod visokim pritiskom kroz mali otvor, tvoreći takozvani uzorak. HP pištolji uzrokuju značajno raspršivanje boje, što uzrokuje značajnu količinu boje koja se koristi.

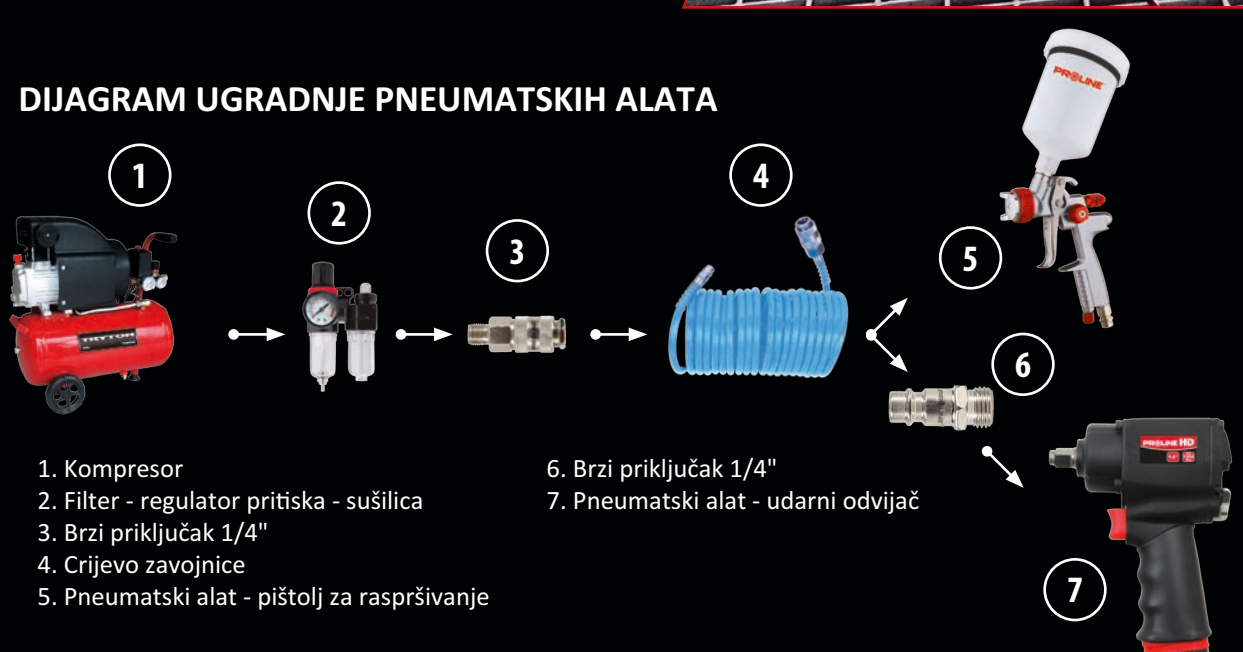


HVLP (pod niskim pritiskom) pištolj za raspršivanje boje - ima više otvora u mlaznici od HP pištolja, što znači da je pritisak niži, ali se količina raspršene boje povećava. HVLP pištolj ima prednost u tome što koristi manje boje, ali za takav pištolj je potreban snažniji kompresor. LVLP pištolj za raspršivanje boje (nizak pritisak s malom potrošnjom boje) - tip pištolja koji kombinuje prednosti HP i HVLP pištolja, tj. radi pri niskom pritiskom, s malom potrošnjom komprimiranog vazduha, što garantuje mali gubitak boje.



Pištolj za lakiranje LVLP je najmoderniji alat za lakiranje. Pištolj treba odabrati tako da omogućava djelotvoran rad u kombinaciji s kompresorom i spremnikom. Pištolj visokog pritiska može se koristiti s manjim spremnicima u kombinaciji s djelotvornim kompresorima, dok HVLP pištolj zahtijeva vrlo veliki spremnik

DIJAGRAM UGRADNJE PNEUMATSKIH ALATA



1. Kompresor
2. Filter - regulator pritiska - sušilica
3. Brzi priključak 1/4"
4. Crijevo zavojnice
5. Pneumatski alat - pištolj za raspršivanje
6. Brzi priključak 1/4"
7. Pneumatski alat - udarni odvijač

1 PNEVMATSKI UDARNI VIJAČNIK

• PNEUMATSKI UDARNI ODVIJAČ • PNEUMATSKI UDARNI ODVIJAČ

PROLINE HD



1/2" | max 678 Nm | n.:11000/min | 6,3 bar | 135 l/min | TWIN HAMMER | R/L | 1,42kg LIGHT WEIGHT | 108mm COMPACT SIZE | CE

- Designed for professional use • Compact size and low weight • Impact mechanism with a double hammer clutch • Left / right direction switch
- 3 tightening torque values and 3 loosening ones • Downward air inlet in the handle • Aluminium body, rubber-coated handle • All-purpose quick coupling 1/4"

Code	Square	Max. torque (Nm)	
66471	1/2"	678	10

2 PNEVMATSKI UDARNI VIJAČNIK

• PNEUMATSKI UDARNI ODVIJAČ • PNEUMATSKI UDARNI ODVIJAČ

PROLINE HD



1/2" | max 1356 Nm | n.:9000/min | 6,3 bar | 144 l/min | TWIN HAMMER | R/L | 1,80kg LIGHT WEIGHT | 141mm COMPACT SIZE | CE

- Designed for professional use • Very high torque with a small-size spanner • Impact mechanism with a double hammer clutch • Rotation change-over switch (leftwards / rightwards) • 3 tightening torque values and 3 loosening ones • Downward air inlet in the handle
- Aluminium body, rubber-coated handle

Code	Square	Max. torque (Nm)	
66472	1/2"	1356	10



1 PNEVMATSKI UDARNI VIJAČNIK

• PNEUMATSKI UDARNI ODVIJAČ • PNEUMATSKI UDARNI ODVIJAČ



1/2" | max 610 Nm | n₀:10000/min | 6,2 bar | 169 l/min | TWIN HAMMER | R/L | 1,50kg LIGHT WEIGHT | 125mm COMPACT SIZE | CE

- Compact size and low weight • All-purpose quick coupling 1/4"
- Aluminium body, rubber-coated handle • Downward air inlet in the handle • 3 tightening torque values and 3 loosening ones • Left / right direction switch • Impact mechanism with a double hammer clutch

Code	Square	Max. torque (Nm)	
66370	1/2"	610	10

2 PNEVMATSKI UDARNI VIJAČNIK

• PNEUMATSKI UDARNI ODVIJAČ • PNEUMATSKI UDARNI ODVIJAČ



1/2" | max 810 Nm | n₀:7000/min | 6,3 bar | 133 l/min | TWIN HAMMER | R/L | CE

- Designed for basic workshop works • Impact mechanism with a double hammer clutch • Rotation change-over switch (leftwards / rightwards)
- 3 tightening torque values and 1 loosening ones • Downward air inlet in the handle • Composite body, rubber-coated handle • All-purpose quick coupling 1/4"

Code	Square	Max. torque (Nm)	
66371	1/2"	810	10

3 PNEVMATSKI UDARNI VIJAČNIK

• PNEUMATSKI UDARNI ODVIJAČ • PNEUMATSKI UDARNI ODVIJAČ



1/2" | max 1145 Nm | n₀:7000/min | 6,2 bar | 198 l/min | TWIN HAMMER | R/L | CE

- Impact mechanism with a double hammer clutch • All-purpose quick coupling 1/4" • Composite body, rubber-coated handle • Downward air inlet in the handle • 3 tightening torque values and 1 loosening ones
- Left / right direction switch

Code	Square	Max. torque (Nm)	
66372	1/2"	1145	10

4 PIŠTOLA ZA POLNJENJE PNEVMATIK

• PIŠTOLJ ZA PUNJENJE GUMA • PIŠTOLJ ZA PUNJENJE GUMA





max 8 BAR | 440 mm | AL | 1/4" | CE

- Designed for professional use • Manometer with a diameter of 80 mm

Code	Max. air pressure (bar)		
66349	8	x	10/20

1 SET PNEVMATSKIH PIŠTOL S CEVJO

• SET PNEUMATSKIH PIŠTOLJA S CRIJEVOM • SET PNEUMATSKIH PIŠTOLJA S CRIJEVOM



x5 CE

• Includes:
Gravity feed paint gun (66345)
Inflating gun (66346)
Washing gun (66347)
Blowgun (66348)
PU recoil air hose (66350)

Code	Quantity of items		
66343	5	x	5/10

3 PIŠTOLA ZA IZPIRANJE

• PIŠTOLJ ZA ISPIRANJE • PIŠTOLJ ZA ISPIRANJE



max 8 BAR | 0,9l | AL | 1/4" CE

Code	Max. air pressure (bar)		
66347	8	x	10/20

2 PIŠTOLA ZA POLNJENJE PNEVMATIK

• PIŠTOLJ ZA PUNJENJE GUMA • PIŠTOLJ ZA PUNJENJE GUMA



max 8 BAR | 440 mm | AL | 1/4" CE

• Manometer with a diameter of 60 mm

Code	Max. air pressure (bar)		
66346	8	x	10/40

4 PIŠTOLA ZA ZRAK

• PIŠTOLJ ZA ZRAK • PIŠTOLJ ZA VAZDUH



max 8 BAR | AL | 1/4" CE

• Additional 215 mm nozzle

Code	Max. air pressure (bar)		
66348	8	x	20/40

1 SESALNA PIŠTOLA

• USISNI PIŠTOLJ • USISNI PIŠTOLJ





HP | max 4 BAR | 1,5mm | 0,85l | AL | 1/4"

Code	Max. air pressure (bar)		
66344	4	x	5/10

2 PIŠTOLA ZA RAZPRŠEVANJE Z GRAVITACIJSKO POSODO

• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM
• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM





HP | max 4 BAR | 1,5mm | 0,6l | AL | 1/4"

Code	Max. air pressure (bar)		
66345	4	x	5/10

3 PIŠTOLA ZA RAZPRŠEVANJE Z GRAVITACIJSKO POSODO

• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM
• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM



HVLP | max 4 BAR | 1,5mm | 410 l/min | 0,6l | 1/4"

• Low-pressure gun for advanced users

Code	Max. air pressure (bar)	BOX	
66361	4	x	20

4 PIŠTOLA ZA RAZPRŠEVANJE Z GRAVITACIJSKO POSODO

• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM
• PIŠTOLJ ZA RASPRŠIVANJE S GRAVITACIJSKOM POSUDOM



LVMP | max 3 BAR | 1,3mm | 250 l/min | 0,6l | 1/4"

• Low-pressure gun with low material consumption for professional use

Code	Max. air pressure (bar)	BOX	
66362	3	x	20

1 SPIRALNE PNEVMATSKE CEVI

• SPIRALNE PNEUMATSKE CIJEVI
• SPIRALNE PNEUMATSKE CIJEVI



max 10 BAR | PU | UNIVERSAL | EURO | CLICK

• Made of polyurethane (PU), which is much more flexible than polyethene (PE)

Code	Diameter (mm)	Length (m)	Kolor	
66350	5 x 8	5		4 / 16
66351	5 x 8	10		4 / 16
66352	5 x 8	15		4 / 16
66353	6.5 x 10	5		4 / 16
66354	6.5 x 10	10		4 / 16
66355	6.5 x 10	15		4 / 16
66356	8 x 12	5		4 / 16
66357	8 x 12	10		4 / 16
66358	8 x 12	15		4 / 16

2 MAZALKA

• NAULJIVAČ • PODMAZIVAČ



max 8 BAR | 1/4”

• Designed for impact wrenches and other pneumatic tools to ensure proper lubrication

Code	Max. air pressure (bar)		
66382	8	x	10/50

3 FILTER

• VODENI FILTER • VODENI FILTER



max 12 BAR | 8 cm³ | 1/4”

• Designed for spray guns to ensure clean and dry air

Code	Max. air pressure (bar)		
66381	12	x	10/50

4 REGULATOR

• REGULATOR ZRAKA • REGULATOR ZRAKA



max 12 BAR | 1/4”

• Designed for regulating the working pressure supplied to pneumatic tools

Code	Max. air pressure (bar)	BOX	
66383	12	x	50

1 REGULATOR S FILTROM

• REGULATOR S FILTEROM • FILTERSKE JEDINICE REDUKTORA



66384



66386

max 9.3 BAR | +60°C -10°C | 1/4"

• Designed for regulating the working pressure, and providing clean and dry air for pneumatic tools

Code	Max. air pressure (bar)	Filter capacity (cm^3)	BOX	
66384	9,3	15	x	50
66386	9,3	60	x	50

2 REGULATOR S FILTROM IN MAZALKO

• REGULATOR ZRAKA SA FILTEROM I NAULJIVAČEM • REGULATOR ZRAKA SA FILTEROM I NAULJIVAČEM



66385



66387

max 9.3 BAR | +60°C -10°C | 1/4"

• Designed for regulating the working pressure, and ensuring clean and dry air, as well as proper lubrication of pneumatic tools

Code	Max. air pressure (bar)	Filter capacity (cm^3)	Lubricator capacity (cm^3)	BOX	
66385	9,3	15	25	x	50
66387	9,3	60	30	x	25



1 ZRAČNI HITRI KONEKTORJI (ŽENSKI - ZUNANJI NAVOJ)

- ZRAČNI BRZI SPOJNICI (ŽENSKI - VANJSKI NAVOJ)
- VAZDUŠNI BRZI SPOJNICI (ŽENSKI - VANJSKI NAVOJ)





UNIVERSAL CLICK

Code	External thread		
66300	1/4"	x	50 / 100
66301	3/8"	x	50 / 100
66302	1/2"	x	50 / 100

3 ZRAČNI HITRI KONEKTORJI (ŽENSKI - ZA ZRAČNO CEV)

- ZRAČNI BRZI SPOJNICI (ŽENSKI - ZA ZRAČNU CIJEV)
- VAZDUŠNI BRZI SPOJNICI (ŽENSKI - ZA VAZDUŠNU CIJEV)





UNIVERSAL CLICK

Code	Hose diameter (mm)		
66306	6	x	50 / 100
66307	8	x	50 / 100
66308	10	x	50 / 100
66309	12	x	50 / 100

2 ZRAČNI HITRI KONEKTORJI (ŽENSKI - ZUNANJI NAVOJ)

- ZRAČNI BRZI SPOJNICI (ŽENSKI - VANJSKI NAVOJ)
- VAZDUŠNI BRZI SPOJNICI (ŽENSKI - VANJSKI NAVOJ)





UNIVERSAL CLICK

Code	External thread		
66303	1/4"	x	50/100
66304	3/8"	x	50/100
66305	1/2"	x	50/100

4 ZRAČNI HITRI KONEKTORJI (ŽENSKI - ZA ZRAČNO CEV)

- ZRAČNI BRZI SPOJNICI (ŽENSKI - ZA ZRAČNU CIJEV)
- VAZDUŠNI BRZI SPOJNICI (ŽENSKI - ZA VAZDUŠNU CIJEV)





UNIVERSAL CLICK

Code	Hose diameter (mm)		
66320	5 x 8	x	10/60
66321	6.5 x 10	x	10/60
66322	8 x 12	x	10/60

1 ZRAČNI HITRI KONEKTORJI (MOŠKI - ZUNANJI NAVOJ)

- ZRAČNI BRZI SPOJNICI (MUŠKI - UNUTRANJI TO VANJSKI NAVOJ)
- VAZDUŠNI BRZI SPOJNICI (MUŠKI - UNUTRAŠNJI NAVOJ)





EURO CLICK

Code	External thread		
66310	1/4"	x	50 / 100
66311	3/8"	x	50 / 100
66312	1/2"	x	50 / 100

2 ZRAČNI HITRI KONEKTORJI (MOŠKI - NOTRANJI NAVOJ)

- ZRAČNI BRZI SPOJNICI (MUŠKI - UNUTARNJI NAVOJ)
- VAZDUŠNI BRZI SPOJNICI (MUŠKI - UNUTRAŠNJI NAVOJ)





EURO CLICK

Code	External thread		
66313	1/4"	x	50/100
66314	3/8"	x	50/100
66315	1/2"	x	50/100

3 ZRAČNI HITRI KONEKTORJI (MOŠKI - ZA ZRAČNE CEVI)

- ZRAČNI BRZI SPOJNICI (MUŠKI- ZA ZRAČNE CIJEVI)
- VAZDUŠNI BRZI SPOJNICI (MUŠKI- ZA VAZDUŠNE CIJEVI)





EURO CLICK

Code	Hose diameter (mm)		
66316	6	x	50 / 100
66317	8	x	50 / 100
66318	10	x	50 / 100
66319	12	x	50 / 100

4 ZRAČNI HITRI KONEKTORJI (MOŠKI - ZA ZRAČNE CEVI)

- ZRAČNI BRZI SPOJNICI (MUŠKI- ZA ZRAČNE CIJEVI)
- VAZDUŠNI BRZI SPOJNICI (MUŠKI- ZA VAZDUŠNE CIJEVI)





EURO CLICK

Code	Hose diameter (mm)		
66330	5 x 8	x	10/60
66331	6.5 x 10	x	10/60
66332	8 x 12	x	10/60

ROČNO ORODJE ZA RAZLIČNA DELA/ RUČNI ALAT ZA RAZLIČITA DIJELA



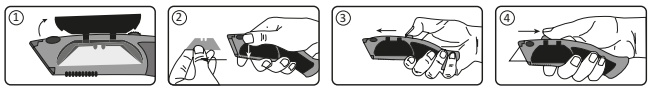


- sekire/sjekire
- spone/spojnica
- pištole za mase/pištolj za mase
- kladiva/čekići
- noži/noževi
- merilno orodje/alat za mjerjenje
- dodatki za barvanje/dodatci za bojanje
- žage/pile
- lopate/lopate
- grablje/grablje

1 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽ SA ZAMJENJIVOM OŠTRICOM
- NOŽ S BRZO ZAMJENJIVOM OŠTRICOM





62mm | x10 | Sk5 | METAL

- Automatic blade replacement without knife opening • Blade drum

Code	Blade (mm)		
30310	62	x	6/72

2 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽ SA ZAMJENJIVOM OŠTRICOM
- NOŽ SA ZAMJENJIVOM OŠTRICOM





62mm | x4 | Sk5 | METAL

- Fast blade replacement • Metal body • Blade drum

Code	Blade (mm)		
30311	62	x	6/72

3 NOŽ S FIKSNIM REZILOM

- NOŽ S FIKSNOM OŠTRICOM
- NOŽ S FIKSNOM OŠTRICOM



PH1 | 62mm | x5 | Sk5 | METAL

- Trapezoidal, permanent blade • Metal body with blade lock • Blade drum

Code	Blade (mm)		
30307	62	x	6/72

5 NOŽ Z AVTOMATSKIM ZAMENLJIVIM REZILOM

- NOŽ S AUTOMATSKOM ZAMJENJIVOM OŠTRICOM"
- NOŽ S AUTOMATSKI ZAMJENJIVOM OŠTRICOM



62mm | METAL

- Trapezoidal blade automatically hiding once the button is released • Metal body

Code	Blade (mm)		
30315	62	x	6/72

7 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽ SA ZAMJENJIVOM OŠTRICOM"
- NOŽ SA ZAMJENJIVOM OŠTRICOM



62mm | x5 | METAL

- Metal body with non-slip, soft, rubber inserts
- Drum for spare blades with a snap

Code	Blade (mm)		
30301	62	x	12/96

8 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽEVI SA ZAMJENJIVOM OŠTRICOM
- NOŽEVI SA ZAMJENJIVOM OŠTRICOM



METAL

- Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30028	18	x	12/96
30029	9	x	12/288

4 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽ SA ZAMJENJIVOM OŠTRICOM
- NOŽA SA ZAMJENJIVOM OŠTRICOM



62mm | x6 | METAL

- Fast blade replacement • Metal body with non-slip rubber inserts • Drum for spare blades

Code	Blade (mm)		
30300	62	x	12/96

6 NOŽ Z ZAMENLJIVIM REZILOM

- NOŽ SA ZAMJENJIVOM OŠTRICOM
- NOŽ SA ZAMJENJIVOM OŠTRICOM



62mm | METAL

- Metal body with blade lock

Code	Blade (mm)		
30305	62	x	12/96

9 NOŽ Z ZAMENLJIVIM REZILOM

- OLFA NOŽEVI • OLFA NOŽEVI



METAL

- Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30078	18	x	12/96

1 NOŽ Z ZAMENLJIVIM REZILOM
• OLFA NOŽ • OLFA NOŽ



METAL

• Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30079	9	x	12/144

2 NOŽ Z ZAMENLJIVIM REZILOM
• OLFA NOŽ • OLFA NOŽ



x3 METAL

• Retractable, broken blade • Plastic body with non-slip rubber insert and precise blade lock
• Automatic loading of the next blade

Code	Blade (mm)		
30033	18	x	12/144

3 NOŽ Z ZAMENLJIVIM REZILOM
• OLFA NOŽ • OLFA NOŽ



METAL

• Retractable, broken blade • Plastic body with non-slip rubber insert and blade lock

Code	Blade (mm)		
30039	9	x	12/288

4 NOŽ Z ZAMENLJIVIM REZILOM
• OLFA NOŽ • OLFA NOŽ



x3 METAL

• Retractable, broken blade • Plastic body with non-slip rubber insert and precise blade lock

Code	Blade (mm)		
30038	18	x	12/144

5 PREKLOPNI NOŽ ZA OBREZOVANJE
• SKLOPIVI NOŽ ZA PODREZIVANJE
• SKLOPIVI NOŽ ZA PODREZIVANJE IVICA



160 mm 62mm Sk5 AL

• Quick blade replacement • Aluminium body
• „Back-lock" blade lock • Belt hook • Nylon casing with velcro

Code	Blade (mm)		
30030	62	x	12/48

6 PREKLOPNI NOŽ
• SKLOPIVI NOŽ • SKLOPIVI NOŽ



195 mm STAINLESS AL HRC 45±3

• Stainless steel • Aluminium body • „Liner-lock" • Belt hook • Nylon casing with velcro

Code	Blade (mm)		
30040	80	x	12/48

7 PREKLOPNI NOŽ
• SKLOPIVI NOŽ • SKLOPIVI NOŽ



STAINLESS

• Stainless steel • Mohogany covers
• Polished handle

Code	Blade (mm)		
30090	80	x	12/96

8 PREKLOPNI NOŽI
• SKLOPIVI NOŽ • SKLOPIVI NOŽ



STAINLESS

• Stainless steel • Polished handle

Code	Blade (mm)		
30092	50	x	10/100
30093	60	x	10/100
30094	70	x	10/100

9 ELEKTRIČARSKI NOŽI
• ELEKTRIČARSKI NOŽ • ELEKTRIČARSKI NOŽ



30095



30096

STAINLESS HRC 45±3

Code	Blade (mm)		
30095	70	x	10/100
30096	65	x	10/100

10 NOŽ ZA IZOLACIJU
• NOŽ ZA IZOLACIJU
• NOŽ ZA IZOLACIJU



480mm STAINLESS

Code	Blade (mm)		
31400	335	x	10/60

11 ŠKARJE
• ŠKARE • MAKAZE



3Cr13 HRC 45±3 STAINLESS

• Two-component ergonomic handle

Code	Length (mm)		
30082	140	x	30/60
30084	220	x	30/60

1 REZILA ZA NOŽ

• OŠTRICE NOŽA S UVLAČENJEM
• OŠTRICE NOŽA S UVLAČENJEM



x10 Sk5

- 10 blades in a box with a dispenser
- Thickness: 18 mm - 0.5 mm, 9 mm - 0.4 mm

Code	Blade (mm)		
31003	9	–	20/800
31004	9	x	12/576
31005	18	–	10/300
31006	18	x	12/240

2 REZILA HOOK UTILITY

• OŠTRICE HOOK UTILITY • OŠTRICE HOOK UTILITY



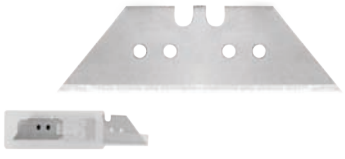
x10 Sk5

- 10 blades in a box

Code	Blade (mm)		
31307	18	x	24/288

3 REZILA TRAPEZ

• OŠTRICE TRAPEZNE • OŠTRICE UTILITY



x10 0,6mm 61mm Sk5

- 10 blades in a box with a dispenser

Code	Blade (mm)		
31302	61	–	50/400
31303	61	x	12/288

4 REZILA HOOK TRAPEZ

• OŠTICE SA KUKAMA • OŠTICE SA KUKAMA



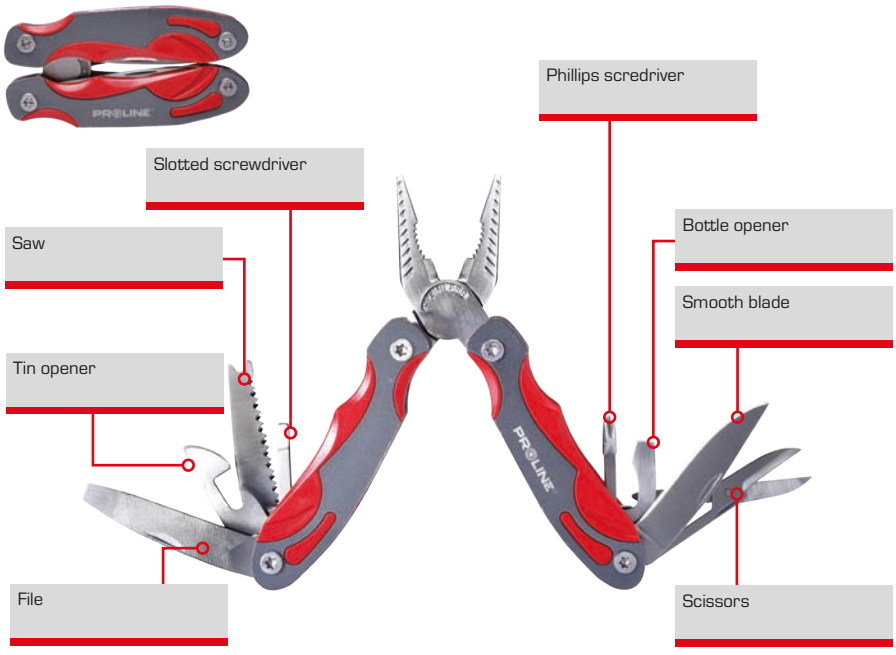
x5 0,6mm 48mm Sk5

- 5 blades in a box with a dispenser

Code	Blade (mm)		
31304	48	–	50/400
31305	48	x	16/288

5 ŽEPNO VEČNAMENSKO ORODJE

• VIŠENAMJENSKI DŽEPNI ALAT • VIŠENAMJENSKI DŽEPNI ALAT



150 mm STAINLESS AL HRC 45±3

- Stainless steel • Aluminium body • The set includes: pliers, smooth blade, saw, file, Phillips screwdriver, slotted screwdriver, bottle opener, tin opener, scissors • Nylon case with velcro

Code	Length (mm)		
30050	150	x	12/48

6 SET VEČNAMENSKEGA ŽEPNEGA ORODJA IN PREKLOPNIH NOŽEV

• SET VIŠENAMJENSKIH DŽEPNIH ALATA I SKLOPIVIH NOŽEVA • SET VIŠENAMJENSKIH DŽEPNIH ALATA I SKLOPIVIH NOŽEVA



190 mm 148 mm STAINLESS AL HRC 45±3

- Stainless steel • Aluminium body • The set includes: pliers, flat blade, saw, file,Phillips screwdriver, slotted screwdriver, bottle opener, tin opener, scissors • „Liner-lock" blade lock • Belt hook • Nylon casing with velcro

Code	Blade of the knife (mm)	Length (mm)		
30060	80	148	x	9/36

1 METER
• METAR • METAR



Magnetna zaponka

Merilna zaponka omogoča natančno merjenje.

Premaz proti rjavenju

Nominalna dolžina metra

Skladno s standardom

Manufacturing year

Razred natančnosti

Proizvajalec

Merilo prekrito z zaščitno folijo, ki podaljša obstojnost merila

Priročno pakiranje

Obstojno ohišje z blokado merila in sponko za pas



II AUTO STOP NYLON CE

• 2nd precision class • CE MID Certificate • Tape cover - nylon (protection against abrasion) • Magnet on a catch • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay

Code	Length (m)	Tape (mm)		
20283	3	16	x	12/120
20285	5	19	x	12/72
20288	8	25	x	6/36

1 OBOJESTRANSKI METER Z BELIM TRAKOM

• DVOSTRANI METAR, BIJELA TRAKA
• DVOSTRANI METAR, BIJELA TRAKA



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Magnet on a catch • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay • double-sided print to enable vertical and horizontal reading • White tape

Code	Length (m)	Tape (mm)		
20363	3	16	x	12/120
20365	5	19	x	12/72
20368	8	25	x	6/36

2 METER

• METAR • METAR



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay

Code	Length (m)	Tape (mm)		
20293	3	16	x	12/120
20295	5	19	x	12/96
20298	8	25	x	6/48

3 METER

• METAR • METAR



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Automatic tape lock when advanced (lock released by button pressing)
- Clip for a belt • Ergonomic shape

Code	Length (m)	Tape (mm)		
20123	3	16	x	12/120
20125	5	19	x	12/96
20128	8	25	x	6/48

4 METER

• METAR • METAR



II | NYLON

- 2nd precision class • Magnetic catch • 3 additional non-step brakes, including one from below • Casing from non-slip material • Clip for a belt • Tape covered with nylon protecting against abrasion

Code	Length (m)	Tape (mm)		
20132	2	16	–	12/120
20133	3	16	–	12/120
20135	5	19	–	12/96
20137	7.5	25	–	6/60
20132K	2	16	x	12/120
20133K	3	16	x	12/120
20135K	5	19	x	12/96
20137K	7.5	25	x	6/48

5 METER

• METAR • METAR



II | AUTO STOP

- 2nd precision class • Tape self-lock when advancing • Lock released by pressing a button • Ergonomic, two-component casing from non-slip material

Code	Length (m)	Tape (mm)		
20142	2	16	–	12/120
20143	3	16	–	12/120
20145	5	19	–	12/96
20147	7.5	25	–	6/48
20142K	2	16	x	12/120
20143K	3	16	x	12/120
20145K	5	19	x	12/96
20147K	7.5	25	x	6/48

6 METER JEKLENI

• METAR ČELIČNI TRAKE • ČELIČNI METAR



13 mm | 3:1 | II | NYLON

- 2nd precision class • Steel tape covered with nylon to increase its lifecycle • Fast winding mechanism • Two-component casing from non-slip material

Code	Length (m)	BOX	
20351	10	x	50
20352	20	x	30
20353	30	x	30

7 METER FIBERGLASS

• METAR OD STAKLOPLASTIKE• METAR OD STAKLENE VUNE



- Fibre glass tape
- Delivered in cardboard box

Code	Length (m)	BOX	
20323	30	x	24
20325	50	x	24
20329	100	x	12

8 METER FIBERGLASS

• METAR OD STEKLOPLASTIKE
• METAROD STAKLENE VUNE



200kg

- Tape made from reinforced fibre glass
- Tensile strength up to 200 kg

Code	Length (m)	BOX	
20301	10	x	50
20302	20	x	50
20303	30	x	40
20305	50	x	24

1 LESENI ZLOŽLJIVI ZIDARSKI METER - SKRITE ZAKOVICE

• DRVENI SKLOPIVI ZIDARSKI METAR - SKRIVENE ZAKOVICE
• DRVENI SKLOPIVI ZIDARSKI METAR - SKRIVENE ZAKOVICE





III CE

- 3rd precision class (EU certificate) • Beech wood 3 mm thickness • Concealed rivets
- Rivet-free union ensures easy readout
- Lasting, resilient unions made from steel and brass • Multi-layer varnish coating, resistant to UV, abrasion and peels • FSC certificate

Code	Length (m)	Type		
13012	1	5-piece	x	20/200
13013	2	10-piece	x	10/100

2 LESENI ZLOŽLJIVI ZIDARSKI METER

• DRVENI SKLOPIVI ZIDARSKI METAR
• DRVENI SKLOPIVI ZIDARSKI METAR





III CE

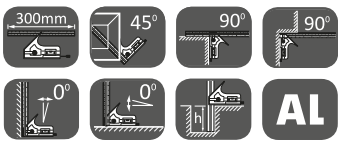
- 3rd precision class (EU certificate)
- High quality • Beech wood 3 mm thickness

Code	Length (m)	Type		
13010	1	5-piece	x	20/200
13011	2	10-piece	x	10/100

3 KOMBINIRANI KOTNIK

• KOMBINIRANI KUTNIK • KOMBINOVANI UGAONIK





- Steel base with a level, stylus and adjustment bolt • Aluminium measure with two-side scale on both edges

Code	Size (mm)		
21230	300	x	12/72

4 NASTAVLJIVI KOTNIK

• KUTOMJER SA NASLONOM • PODESIVI UGLOMJERI



AL

- Rigid • Metric and inch scale, two-side

Code	Size (mm)		
21330	300 x 175	x	12/48
21335	350 x 190	x	12/48
21350	500 x 235	x	12/36

5 UNIVERZALNI RAVNILO

• UNIVERZALNO RAVNALO • UNIVERZALNI LINIJAR



AL

- Aluminium ruler with two sliding level vials: horizontal and vertical • Offers easy fixing of objects, centering, copying distance etc.
- Additionally, openings Ø 4-12 mm and a box for screws etc.

Code	Length (mm)	
15166	600	20

6 POMIČNO MERILO

• POMIČNO MJERILO • ŠESTAR





+/- 0,05 mm | SCALE/ SKALA mm/ inch

- Stainless steel

Code	Range (mm)	
20515	0-150	6/24

7 POMIČNO DIGITALNO MERILO

• DIGITALNO POMIČNO MJERILO
• DIGITALNA STEZALJKA





+/- 0,03 mm | SCALE/ SKALA mm/ inch | LR44 1.5V BATTERY | CE

- Stainless steel

Code	Range (mm)	
20516	0-150	6/24

8 MIKROMETER

• MIKROMETAR
• MIKROMETAR





+/- 0,01 mm

- Sintered carbide anvil

Code	Range (mm)	
20518	0-25	6/24

1 DISTANČNIK

• MJERNI LISTIĆI • MJERNI LISTIĆI

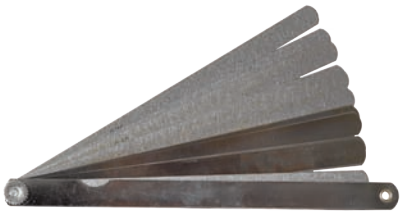
21210

TAPER ZBIEŻNY



21220

PARALLEL RÓWNOLEGŁY



17 GAUGES LISTKOW

• Stainless steel

Code	Length (mm)	Width (mm)	Range (mm)		
21210	100	10	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	x	10/200
21220	200	10	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	x	10/200

2 VODNA TEHTNICA - 2 ZRAČNA MEHURČKA

• LIBELA - DVA ZRAČNA MJEHURIĆA • LIBELA - DVA VAZDUŠNA MJEHURIĆA



AL

• Accuracy 1 mm / 1 m • Aluminium box body
• 2 level vials: horizontal and vertical • 5-year guarantee for the level vials

Code	Length (mm)	
15804	400	5
15806	600	5
15808	800	5
15810	1000	5
15812	1200	5
15815	1500	5
15820	2000	5

3 VODNA TEHTNICA - 2 ZRAČNA MEHURČKA

• LIBELA - 2 ZRAČNA MJEHURIĆA • LIBELA - 2 VAZDUŠNA MJEHURIĆA

PROLINE HD



AL | 0° 90° | 0,5mm/m | UV

- Measurement accuracy 0.5 mm/1 m
- High-quality aluminium body, powder coated
- Milled measuring edge - sizes 40, 60, 80, 100, 120, 150, 180, 200 cm
- Two high quality level vials with lifelong guarantee
- Holder to hang the level

Code	Length (mm)	
15922	400	10/60
15923	600	10/60
15924	800	10/40
15925	1000	10/40
15926	1200	10/20
15927	1500	10
15929	1800	10
15928	2000	10

4 VODNA TEHTNICA ALUMINIJASTA - 3 ZRAČNI MEHURČKI

• ALUMINIJSKA LIBELA • ALUMINIJSKA LIBELA

PROLINE HD



AL | 0° 45° 90° | 0,5mm/m | UV

- Measurement accuracy 0.5 mm/1 m • Three high quality level vials with lifelong guarantee • High-quality aluminium body, powder coated
- Milled from 40 to 120 cm • Holder to hang the level

Code	Length (mm)	
15932	400	10/60
15933	600	10/60
15934	800	10/40
15935	1000	10/40
15936	1200	10/20
15937	1500	10
15938	2000	10
15939	1800	10

1 VODNA TEHTNICA ALUMINIJASTA - 2 ZRAČNA MEHURČKA

•LIBELA ALUMINIJSKA - 2 ZRAČNA MJEHURIĆA •LIBELA ALUMINIJSKA- 2 VAZDUŠNA MJEHURIĆA



AL

- Accuracy 0.029°=0.5 mm/m • Aluminium box body • 2 level vials - horizontal and vertical indicator • Shockresistant, glued indicators
- Two magnets • Profile made from anodized aluminium offers resistance to corrosion

Code	Length (mm)	
15821	400	5
15822	600	5
15823	800	5
15824	1000	5
15825	1200	5
15826	1500	5
15827	2000	5

2 VODNA TEHTNICA - 2 ZRAČNA MEHURČKA

•LIBELA - 2 ZRAČNA MJEHURIĆA •LIBELA - 2 VAZDUŠNA MJEHURIĆA



AL

- Accuracy 1 mm / 1 m • Aluminium box body • Wall thickness at least 1.5 mm • 2 level vials: horizontal and vertical • 5-year guarantee for the level vials

Code	Length (mm)	
15234	400	40
15236	600	40
15238	800	40
15240	1000	20
15242	1200	20
15245	1500	10



3 VODNA TEHTNICA - 2 ZRAČNA MEHURČKA

• LIBELA - 2 ZRAČNA MJEHURIĆA • LABELA - 2 VAZDUŠNA MJEHURIĆA



AL

- Accuracy 0.029°=0.5 mm/m • Aluminium box body • 2 level vials - horizontal and vertical indicator • Shockresistant, glued indicators
- Two magnets • Profile made from anodized aluminium offers resistance to corrosion

Code	Length (mm)	
15828	400	5
15829	600	5
15830	800	5
15831	1000	5

4 VODNA TEHTNICA TRAPEZOIDNA - 2 ZRAČNA MEHURČKA

• TRAPEZOIDNA LIBELA - 2 ZRAČNA MJEHURIĆA
• TRAPEZNA LIBELA - 2 VAZDUŠNA MJEHURIĆA



AL

- Aluminium body • 2 level vials: horizontal and vertical
- Measuring plane with additional machining

Code	Length (mm)	
15194	400	40

1 VODNA TEHTNICA MINI

• MINI LIBELA • MINI LIBELA

PROLINE HD





10 cm | AL | 0,5mm/m | UV

• Accuracy of measurement 0.5 mm/1 m • Quality powder coated aluminium body • Compact, pocket size (10 cm) • One high-quality level resistant to shock and UV • Sold in a 10 pcs display box with a hanger (15940 is one piece)

Code	Length (mm)	
15940	100	10/100

2 VODNA TEHTNICA - 3 ZRAČNI MEHURČKI

• LIBELA - 3 ZRAČNA MJEHURIĆA • LIBELA - 3 VAZDUŠNA MJEHURIĆA



AL

• Accuracy 1 mm/1 m • Aluminium box body • 3 level vials: horizontal, vertical and angular, with angle setting every 1° to 90° • 5-year guarantee for the level vials • Scale on the casing

Code	Length (mm)	
15054	400	30
15056	600	30
15058	800	30
15060	1000	20
15062	1200	20
15065	1500	20
15070	2000	20

3 VODNA TEHTNICA - 3 ZRAČNI MEHURČKI

• LIBELA - 3 ZRAČNA MJEHURIĆA • LIBELA - 3 VAZDUŠNA MJEHURIĆA



AL

• Accuracy 0.5 mm/1 m (up to 1 m in length) and 1 mm/1 m (other lengths) • Aluminium box body, wall thickness at least 1.5 mm • 3 level vials: horizontal, vertical and angular 45° • 5-year guarantee for the level vials • Measuring plane with additional machining

Code	Length (mm)	
15076	600	25
15078	800	25
15080	1000	20
15082	1200	20
15085	1500	10
15090	2000	10

4 ZIDARSKA LETEV

• ZIDARSKA LETVA • LINIJARI



AL

• Accuracy 1 mm/1 m • Aluminium • Smooth

Code	Length (m)	
15520	2.0	5
15525	2.5	5
15530	3.0	5
15540	4.0	5

5 ZIDARSKA LETEV - 1 ALI 2 ZRAČNA MEHURČKA

• ZIDARSKA LIBELA 1 ILI 2 ZRAČNA MJEHURIĆA
• LINEAR 1 ILI 2 VAZDUŠNA MJEHURIĆA





AL

• Accuracy 1 mm/1 m • Aluminium • Shock-resistant level vial with 5-year guarantee • Straightedges with horizontal or horizontal&vertical indicator

Code	Length (m)	Quantity of levels	
15615	1.5	1	5
15620	2.0	1	5
15625	2.5	1	5
15630	3.0	1	5
15640	4.0	1	5
15720	2.0	2	5
15725	2.5	2	5
15730	3.0	2	5

6 ZIDARSKA LETEV - 2 ZRAČNA MEHURČKA

• ZIDARSKA LIBELA - 2 ZRAČNA MJEHURIĆA • LINIJARI - 2 VAZDUŠNA MJEHURIĆA



AL

• Accuracy 1 mm/1 m • Aluminium • Rectangular with two level vials

Code	Length (m)	Quantity of levels	
15721	2.0	2	5
15726	2.5	2	5
15731	3.0	2	5

7 ZIDARSKA LETEV KLINAST ROB

• ZIDARSKA LETVA KONUSNA
• ZIDARSKA LETVA KONUSNA



AL

• Accuracy 1 mm/1 m • Aluminium
• For gypsum plaster

Code	Length (m)	
15410	1.0	5
15412	1.2	5
15415	1.5	5
15418	1.8	5
15420	2.0	5
15424	2.4	5
15430	3.0	5

1 VODNA TEHTNICA LASERSKA

• LASERSKA LIBELA
• LASERSKA LIBELA







• Accuracy 0.5 mm / 1m • Laser power ≤ 1mW • Laser wavelength 635nm
• Work range 5 ~ 10m • Range of automatic levelling 4 ° - self-levelling
• Power supply 2xAA 3V • Easy measurement and ability to switch on a horizontal and/or vertical laser beam • Wide applicability inside and outside
• Separate vertical and horizontal line control • Revolving base can be installed on a stand • Magnetic, automatic stabilisation • Easy and reliable device locking system • The set includes a stand improving measuring abilities, glasses improving laser beam visibility • Packed in a case

Code	Measuring range (m)	Stand adjustment (mm)	
15170	10	55-125	4



2 VODNA TEHTNICA ZA MERJENJE NAKLONA

• NAGIBNA LIBELA • NAGIBNA LIBELA



AL

• For accurate gradient making • Aluminium box body • Groove in the pipe base • Measuring plane with additional machining • Each level has 5 vials: horizontal, vertical, 45° and two gradient ones, 1.5° and 3.5°

Code	Length (mm)	
15396	600	50
15398	800	50

3 VODNA TEHTNICA VERTIKALNA ZA KOTE

• STUPNA LIBELA • STUPNA LIBELA



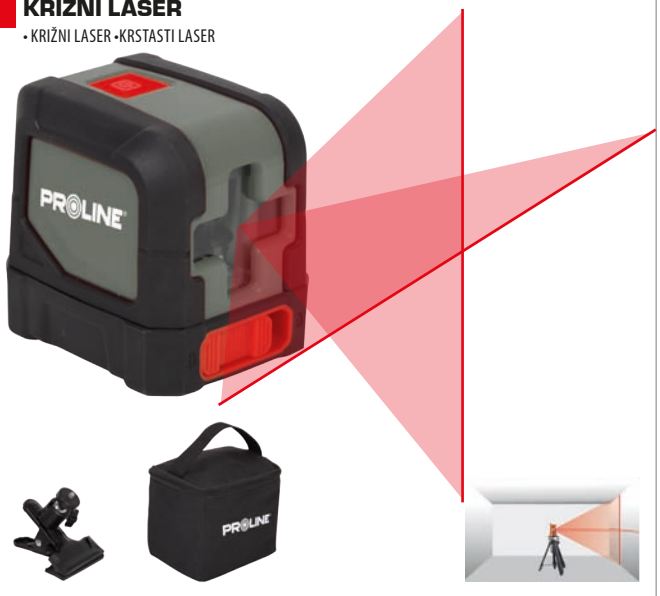


• Any angle of application, with toothed scale every 15° • Magnetic • 3 vials: • 2 horizontal and vertical • Ability to measure the horizontal aspect of flat surfaces • Foldable, for easy storage

Code	Length (mm)		
15300	135	x	50

1 KRIŽNI LASER

• KRIŽNI LASER • KRSTASTI LASER



±0,5mm/1m | 3V d.c. | LASER | 15 m | x 2 AA NOT INCLUDED

- Accuracy 0.5 mm / 1m • Laser power ≤ 1mW • Laser wavelength 635nm • Work range 15m indoor (up to 20m with the detector
- Range of automatic levelling 4 ° (± 1°)- self-levelling • Power supply 2xAA 1,5V • Easy measurement and ability to switch on a horizontal and/or vertical laser beam • Wide applicability inside and outside
- Can be installed on a stand (1/4") • Easy and reliable device locking system enabling oblique lines determination • Include: cross laser, clamping buckle with moving head, case

Code	Range (m)	
15175	15	20

2 MULTIMETER

• MULTIMETAR • MULTIMETAR



U 0-600 V | U 0-600 ~V | I 0-10 A | R 0-2 MΩ | BUZZER | 9V BATTERY

- Backlit LCD screen • Hold system for maintaining the lit measurement

Code	
15186	40



3 MULTIMETER S SPONO

• STRUJNA KLIJEŠTA • STRUJNA KLIJEŠTA



U 0-600 V | U 0-600 ~V | I 0-200 ~A | R 0-6 kΩ | BUZZER | 2xAAA 1.5V BATTERY

- Non-contact inductive measurement of alternating current (A)
- Backlit LCD screen • Hold system for maintaining the lit measurement
- Automatic (10 min.) turn-off function.

Code	
15187	60

1 LASERSKI MERILNIK RAZDALJ

• LASERSKI DALJINOMJER • LASERSKI DALJINOMJER

- MIN. 0,05m — Minimalna razdalja
- UP TO 5000 TIMES — Število merjenj na baterijo
- Pitagorova funkcija
- LCD — Osvetljen zaslon
- Laserski žarek
- 30 RECORDS — Spomin za zadnjih 20 meritev
- x 2 AAA — 2 AAA bateriji
- d.c. 3 V — 3V



Foot

Tipkovnica

1. Upravljanje na merilniku /Merjenje razdalj /Nadaljevanje merjenj
2. Funkcijski gumb
3. Gumb za dodajanje
4. Izbirni gumb
5. Gumb za shranjevanje meritev
6. Gumb za odštevanje
7. Vklop/izklop

CE

• Measurement time 0.5 sec. • Class II laser • Type of laser 635 nm, <1 mW • Diameter of the laser spot (at lengths) 6 mm at 10 m, 30 mm at 40 m • Automatic switch-off after 180 s • Backlit screen • Storage for 20 measurements • 3 starting points: the rangefinder's front, back or foot in the case of measurements in a corner • Three types of measurements: single measurement, continuous measurement, Pythagorean theorem - direct and indirect, surface area and volume calculation • Measurement of a plane inclination angle (only in the 15174 model) • Possibility to add and subtract measurements • Battery lifetime (AAA, 2 x 1.5 V) for 5000 measurements • Dimensions and weight: 120 mm x 48 mm x 24 mm, 109 g
• Temperature range: storage from -20 °C to + 65 °C, work from 0 °C up to + 40 °C • Packed in a box with an instruction manual

Code	Measurement range (m)	Measurement accuracy	Measurement of the surface inclination angle	
15173	0.05-20	+/-3mm (max +/-5mm)	-	20
15174	0.05-40	+/-2mm (max +/-3mm)	do 90°	20

1 KLADIVO KLJUČAVNIČARSKO

• BRAVARSKI ČEKIĆ • BRAVARSKI ČEKIĆ



STAL IC45 | DIN 1041 | HRC 55±2

• Forged and quenched head • Handle made from ashen wood with plastic cover preventing hammer base damage (the cover not installed in 2000g hammer)

Code	Weight (g)	
12581	100	10
12582	200	10
12583	300	10
12585	500	10
12587	700	10
12588	800	10
12590	1000	10
12591	1500	6
12592	2000	6

2 KLADIVO KLJUČAVNIČARSKO

• BRAVARSKI ČEKIĆ • BRAVARSKI ČEKIĆ



DIN 1041 | HRC 54±2

• Forged and quenched head • Wooden handle, varnished with plastic cover • Reinforced head seating by means of an expandable bushing and resin

Code	Weight (g)	
12601	100	10
12602	200	10
12603	300	10
12604	400	10
12605	500	10
12608	800	10
12610	1000	10
12615	1500	6
12620	2000	6

3 KLADIVO KLJUČAVNIČARSKO - DRŽALO IZ STEKLENIH VLAKEN

• BRAVARSKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA
• BRAVARSKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA



75% GRP | DIN 1041 | HRC 54±2

• Forged and quenched head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12511	100	6/96
12512	200	6/60
12513	300	6/48
12514	400	6/36
12515	500	6/36
12518	800	6/24
12520	1000	6/18
12521	1500	6/12
12522	2000	4/8

4 KLADIVO KLJUČAVNIČARSKO - DRŽALO IZ STEKLENIH VLAKEN

• BRAVARSKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA
• BRAVARSKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA



GRP | DIN 1041 | HRC 54±2

• Forged and quenched head • Non-slip handle

Code	Weight (g)	
12502	200	12/60
12503	300	6/48
12504	400	6/36
12505	500	6/36
12508	800	6/24
12510	1000	6/12

5 KLADIVO KLJUČAVNIČARSKO JEKLENA CEV

• BRAVARSKI ČEKIĆ S DRŠKOM OD ČELIČNE CIJEVI
• BRAVARSKI ČEKIĆ S DRŠKOM OD ČELIČNE CIJEVI



DIN 1041 | HRC 55±2

• Forged, quenched and polished head • Two-composite, non-slip TPR handle
• Additional protection of the head and handle with rivets

Code	Weight (g)	
12547	300	6/24
12546	500	6/24

6 KLADIVO Z RAZCEPOM MONOBLOCK

• ČEKIĆ S RASCJEPKOM MONOBLOCK • ČEKIĆ S RASCJEPOM MONOBLOCK



ASME

• Handle and head made from a single steel component ensure hammer durability • Forged, quenched and polished head • Two-composite, non-slip TPR handle • Additional handle protection with a rivet

Code	Weight (g)	
12220	450	4/24

1 KLADIVO Z RAZCEPOM IZ STEKLENIH VLAKEN

• ČEKIĆ ZA ČAVLE - FIBERGLASS
• ČEKIĆ ZA EKSERE - FIBERGLASS



GRP HRC 54±2

- Forged, quenched and polished head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12523	450	6/24

2 KLADIVO KROVSKO - DRŽALO IZ STEKLENIH VLAKEN

• KROVOPOKRIVAČKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA
• KROVOPOKRIVAČKI ČEKIĆ - DRŠKA OD STAKLENOG VLAKNA



GRP DIN 7239 HRC 54±2

- Forged, quenched and polished head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12524	600	6/24

3 KLADIVO ZIDARSKO - TIP "R" - DRŽALO IZ STEKLENIH VLAKEN

• ZIDARSKI ČEKIĆ - TIP „R" - DRŠKA OD STAKLENOG VLAKNA
• ZIDARSKI ČEKIĆ - TIP „R" - DRŠKA OD STAKLENOG VLAKNA



GRP DIN 5108 HRC 54±2

- Forged, quenched and polished head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12526	600	6/24

4 KLADIVO - TIP "B" - DRŽALO IZ STEKLENIH VLAKEN

• ZIDARSKI ČEKIĆ - TIP „B" - DRŠKA OD STAKLENOG VLAKNA
• ZIDARSKI ČEKIĆ - TIP „B" - DRŠKA OD STAKLENOG VLAKNA



GRP DIN 5108 HRC 54±2

- Forged, quenched and polished head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12527	600	6/24

5 KLADIVO ZA KAMEN

• ČEKIĆ ZA DROBLJENJE KAMENJA • MACOLA



DIN 6475 75% GRP

- Forged and quenched head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12561	1000	6/18
12565	1500	6/12
12572	2000	4/8

6 GUMIJASTA MACOLA

• GUMENI ČEKIĆ • GUMENI ČEKIĆ



- Head made from two-colour rubber
- Additional reinforcement of head base with a nail
- Handle varnished, made from high-quality hard wood

Code	Weight (g)	Head diameter (mm)	
12021	230	44	12/48
12022	340	49	12/48
12023	370	50	6/36
12024	580	58	6/36
12025	780	63	6/24
12026	980	72	6/12

1 KLADIVO Z MEHKO GLAVO

• ČEKIĆ BEZ ODSKAKIVANJA • ČEKIĆ BEZ ODSKAKIVANJA



- Head filled with metal shot reduces rebound after the strike
- Monolithic rubber plastic structure does not damage material during work
- Non-slip handle

Code	Weight (g)	Head diameter (mm)	
12611	840	48	6/24
12612	940	53	6/24
12613	1360	60	6/12

2 KLADIVO Z DVOJNO GLAVO

• ČEKIĆI S DVOSTRUKOM GLAVOM • ČEKIĆ DVOSTRANI





PU NYLON

- Hammers with 2 interchangeable heads: soft (gray PU) and hard (red NYLON) available separately (12631-12635)

Code	Weight (g)	Head diameter (mm)	
12621	135	22	6/48
12622	230	28	6/48
12623	350	35	6/36
12624	645	45	6/24
12625	1520	60	6/12

3 NADOMESTNE GLAVE

• GLAVE ZA ČEKIĆE S DVOSTRUKOM GLAVOM • GLAVA ZA DVOSTRANI ČEKIĆ



PU NYLON

- Soft PU (gray) and hard NYLON (red) • Suitable for Proline 12621-12625 dual-head hammers and other models on the market with the same mounting

Code	Head diameter (mm)	
12631	22	100
12632	28	100
12633	35	100
12634	45	100
12635	60	100

4 SET KLADIV ZA MEHANIČARSKA POPRAVILA

• SET ČEKIĆA ZA POPRAVAK AUTOMOBILA • SET ČEKIĆA ZA AUTOMIBILE







x7 HRC 54±2 GENUINE HICKORY

- The set includes: 3 hammers with different heads, 4 steel anvils for shaping steel sheet and a carrying case

Code	Weight (g)	
12670	5000	4

1 GLADILKA IZ NERJAVEČEGA JEKLA

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA SA DRVENOM RUČKOM
• GLETARICA OD NEHRĐAJUĆEG ČELIKA SA DRVENOM DRŠKOM

61530



61536-61539



STAINLESS

• Wooden handle • Aluminium foot

Code	Dimension (mm)	
61530	270 x 130	40
61536	380 x 130	25
61537	480 x 130	25
61538	580 x 130	30
61539	680 x 130	30

2 GLADILKA IZ NERJAVEČEGA JEKLA

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA ZA RAZMAZIVANJE ŽBUKE • GLETARICA OD NEHRĐAJUĆEG ČELIKA ZA RAZMAZIVANJE ŽBUKE



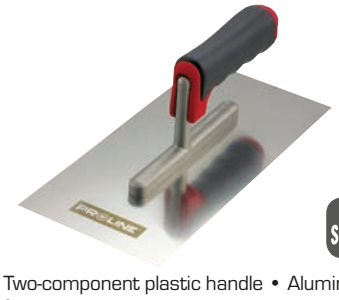
STAINLESS

• Two-component plastic handle

Code	Dimension (mm)	
61520	270 x 130	30

3 GLADILKA IZ NERJAVEČEGA JEKLA

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA
• GLETARICA OD NEHRĐAJUĆEG ČELIKA



STAINLESS

• Two-component plastic handle • Aluminium foot

Code	Dimension (mm)	
61510	270 x 130	40

4 GLADILKA IZ NERJAVEČEGA JEKLA

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA SA PVC RUČKOM
• GLETARICA OD NEHRĐAJUĆEG ČELIKA SA PVC RUČKOM



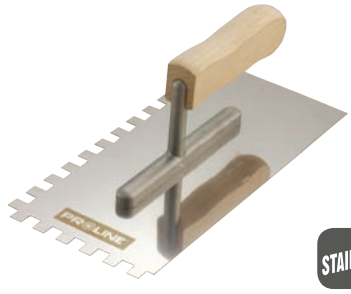
STAINLESS

• Two-component plastic handle
• Aluminium foot

Code	Dimension (mm)	
61640	280 x 130	30

5 GLADILKA IZ NERJAVEČEGA JEKLA ZA ENAKOMERNI NANOS

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA ZA NANOŠENJE DA DRVENOM RUČKOM • GLETARICA OD NEHRĐAJUĆEG ČELIKA ZA NANOŠENJE SA DRVENIM DRŠKOM



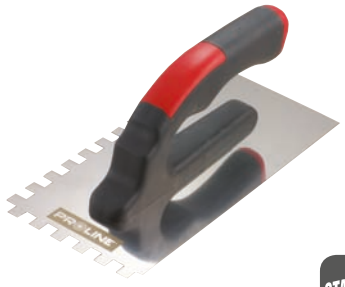
STAINLESS

• Wooden handle • Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61531	270 x 130	4 x 4	40
61532	270 x 130	6 x 6	40
61533	270 x 130	8 x 8	40
61534	270 x 130	10 x 10	40
61535	270 x 130	12 x 12	40

6 GLADILKA IZ NERJAVEČEGA JEKLA

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA - NAZUBLJENA
• GLETARICA OD NEHRĐAJUĆEG ČEKIĆA - NAZUBLJENA



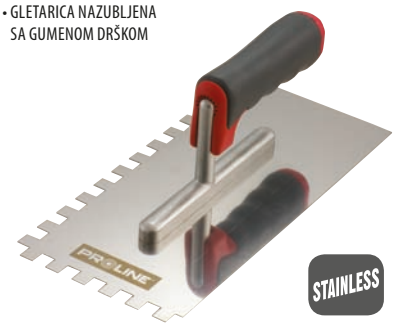
STAINLESS

• Two-component plastic handle

Code	Dimension (mm)	Tooth (mm)	
61521	270 x 130	4 x 4	30
61522	270 x 130	6 x 6	30
61523	270 x 130	8 x 8	30
61524	270 x 130	10 x 10	30
61525	270 x 130	12 x 12	30

7 GLADILKA IZ NERJAVEČEGA JEKLA ZA ENAKOMERNI NANOS

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA ZA PVC RUČKOM
• GLETARICA NAZUBLJENA SA GUMENOM DRŠKOM



STAINLESS

• Two-component plastic handle • Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61511	270 x 130	4 x 4	40
61512	270 x 130	6 x 6	40
61513	270 x 130	8 x 8	40
61514	270 x 130	10 x 10	40
61515	270 x 130	12 x 12	40

8 GLADILKA IZ NERJAVEČEGA JEKLA ZA ENAKOMERNI NANOS

• GLEDARICA OD NEHRĐAJUĆEG ČELIKA ZA NANOŠENJE SA PVC RUČKOM • GLETARICA OD NEHRĐAJUĆEG ČELIKA ZA NANOŠENJE ADHEZIVNE SMJESE



STAINLESS

• Two-component plastic handle
• Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61644	280 x 130	4 x 4	30
61646	280 x 130	6 x 6	30
61648	280 x 130	8 x 8	30
61649	280 x 130	10 x 10	30

9 ZIDARSKA LOPATICA IZ KARBONA

• ZIDARSKA LOPATICA • MISTRIJA ZIDARSKA



CARBON

• Two-component plastic handle

Code	Size (mm)	
61581	160	30
61582	180	20
61583	200	20

1 LOPATICA ZIDARSKA IZ NERJAVEČEGA JEKLA

- ZIDARSKA LOPATICA OD NEHRĐAJUĆEG ČELIKA
- ZIDARSKE MISTRIJE OD NEHRĐAJUĆEG ČELIKA



STAINLESS

- Two-component plastic handle

Code	Size (mm)	
61571	160	30
61572	180	20
61573	200	20

2 LOPATICA ZIDARSKA IZ NERJAVEČEGA JEKLA

- ZIDARSKA ŽLICA OD NEHRĐAJUĆEG ČELIKA
- ZIDARSKA MISTRIJA OD NEHRĐAJUĆEG ČELIKA



STAINLESS

- Two-component plastic handle

Code	Blade lenght (mm)	
61579	132	12

3 LOPATICA KARBONSKA ZA PROFILIRANJE

- KARBONSKA LOPATICA ZA PROFILIRANJE
- MISTRIJA POLUOVALNA ZA MJERENJE UGLJIKA



CARBON

- Two-component plastic handle

Code	Blade lenght (mm)	
61589	140	12

4 LOPATICA ZA IZRAVNAVANJE IZ NERJAVEČEGA JEKLA

- LOPATICA IZ NEHRĐAJUĆEG ČELIKA
- MISTRIJA OD NEHRĐAJUĆEG ČELIKA



STAINLESS

- Two-component plastic handle

Code	Dimension (mm)	
61575	140 x 90 x 60	12
61576	160 x 90 x 60	30
61577	180 x 120 x 90	30

5 LOPATICA ZIDARSKA IZ NERJAVEČEGA JEKLA

- STRUGAČI OD NEHRĐAJUĆEG ČELIKA
- ŠPARTLA OD NEHRĐAJUĆEG ČELIKA



STAINLESS

- Wide blade seating in the handle
- Two-component plastic handle

Code	Width (mm)	
61562	40	20
61563	60	20
61564	80	20
61565	100	20
61566	120	20
61567	150	20

6 LOPATICA ZA RAVNANJE

- STRUGAČI ZA RAVNANJE ZIDA
- ŠPARTLA ZA RAVNANJE ZIDA



STAINLESS

- Polished • High blade resilience
- Two-component non-slip TPR handle

Code	Width (mm)	
31180	30	6/48
31181	40	6/48
31182	50	6/48
31183	60	6/48
31184	80	6/48
31185	100	6/48
31186	125	6/48
31187	150	6/48

7 LOPATICA ZIDARSKA

- ZIDARSKI STRUGAČ
- ŠPARTLA SA GUMENOM RUČKOM



- Polished • Two-component non-slip handle

Code	Width (mm)	
31170	30	12/240
31171	40	12/240
31172	50	12/240
31173	60	12/240
31174	80	12/240
31175	100	12/240
31176	125	12/240
31177	150	12/240

8 LOPATICA ZIDARSKA

- ZIDARSKI STRUGAČ
- ŠPARTLA



- Polished • Two-component non-slip handle

Code	Width (mm)	
31031	30	12/240
31041	40	12/240
31051	50	12/240
31061	60	12/240
31081	80	12/240
31101	100	12/240
31121	125	12/240

9 LOPATICA IZ NERJAVEČEGA JEKLA

- STRUGAČI OD NEHRĐAJUĆEG ČELIKA
- STRUGAČ OD NEHRĐAJUĆEG ČELIKA



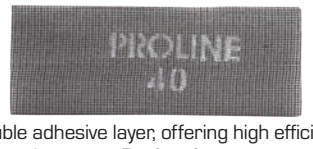
STAINLESS

- Plastic handle

Code	Width (mm)	Blade height (mm)	
61552	335	75	20
61553	340	95	20

10 BRUSNI PAPIR

- PAPIR ZA ZAGLAĐIVANJE ŽBUKE
- STRUGAČ ZA ZAGLAĐIVANJE ŽBUKE



- Double adhesive layer, offering high efficiency and resistance • Perfect for gypsum, wooden, stone surfaces

Code	Dimension (mm)	Granulation	
61804	275 x 105	P40	50/1200
61806	275 x 105	P60	50/1500
61808	275 x 105	P80	50/1750
61810	275 x 105	P100	50/2250
61812	275 x 105	P120	50/2250
61815	275 x 105	P150	50/2500
61818	275 x 105	P180	50/2750
61822	275 x 105	P220	50/2750
61824	275 x 105	P240	50/3000
61832	275 x 105	P320	50/3000
61840	275 x 105	P400	50/3000

PROLINE

1 NASTAVEK ZA MEŠANJE MASE

• MJEŠALICA ZA BOJU • MJEŠALICA ZA BOJU

Type A 00001 | Type A 00002 00003 | Type B | Type C | Type D | Type E



- **PROFESSIONAL QUALITY**
- **GALVANISED STEEL WITH VARIOUS ENDINGS: HEXAGONAL (TYPE A, B, C, D, E) OR SDS PLUS (TYPE C) OR WITH M14 THREAD (TYPE C, E) SUSPENSION**

TYPE A – FOR PAINTS (emulsion, acrylic, dispersion paints, varnishes, wood stains and all-purpose paints), recommended mixing speed 300-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00001	60 x 300	0.8 - 2	hexagonal - 6mm	10
00002	80 x 400	5 - 15	hexagonal - 8mm	10
00003	100 x 500	5 - 20	hexagonal - 8mm	10

TYPE B – FOR SEMI-LIQUID MATERIALS (jointless floors, self-levelling compound, bituminous compounds: binders, abizol, dysperbit), recommended mixing speed 300-600 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00004	80 x 400	5 - 15	hexagonal - 8mm	10
00005	100 x 500	5 - 25	hexagonal - 8mm	10

TYPE C – FOR THICK MATERIALS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00006	80 x 400	10 - 20	hexagonal - 8mm	10
00007	100 x 500	10 - 20	hexagonal - 8mm	10
00008	120 x 600	16 - 35	hexagonal - 10mm	10
00013	120 x 600	16 - 35	SDS PLUS	10
00014	120 x 600	16 - 35	M14	10

TYPE D – FOR HEAVY MORTARS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm. The work part is twice longer than for C type.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00009	80 x 400	10 - 30	hexagonal - 8mm	10
00010	100 x 500	10 - 40	hexagonal - 8mm	10

TYPE E – FOR GYPSUM (gypsum, gypsum plaster, putty coat), recommended mixing speed 200-500 rpm.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00011	80 x 530	10 - 15	hexagonal - 8mm	10
00012	100 x 540	12 - 30	hexagonal - 8mm	10
00015	120 x 540	15 - 35	M14	10

2 NASTAVEK ZA MEŠANJE MASE

• MJEŠALICA ZA BOJU • MJEŠALICA ZA BOJU

Type A | Type B | Type C | Type D | Type E



- **PROFESSIONAL QUALITY**
- **GALVANISED STEEL WITH VARIOUS ENDINGS: HEXAGONAL (TYPE A, B, C, E) OR WITH M14 THREAD (TYPE D, E) SUSPENSION**

TYPE A – FOR PAINTS (emulsion, acrylic, dispersion paints, varnishes, wood stains and all-purpose paints), recommended mixing speed 300-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41022	80 x 400	5 - 15	hexagonal - 8mm	50
41023	100 x 500	5 - 20	hexagonal - 10mm	50

TYPE B – FOR SEMI-LIQUID MATERIALS (jointless floors, self-levelling compound, bituminous compounds: binders, abizol, dysperbit), recommended mixing speed 300-600 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41024	80 x 400	5 - 15	hexagonal - 8mm	50
41025	100 x 500	5 - 25	hexagonal - 10mm	50

TYPE C – FOR THICK MATERIALS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41003	80 x 400	10 - 20	hexagonal - 8mm	10/60
41004	100 x 600	10 - 40	hexagonal - 10mm	10/40

TYPE D – FOR HEAVY MORTARS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm. The work part is twice longer

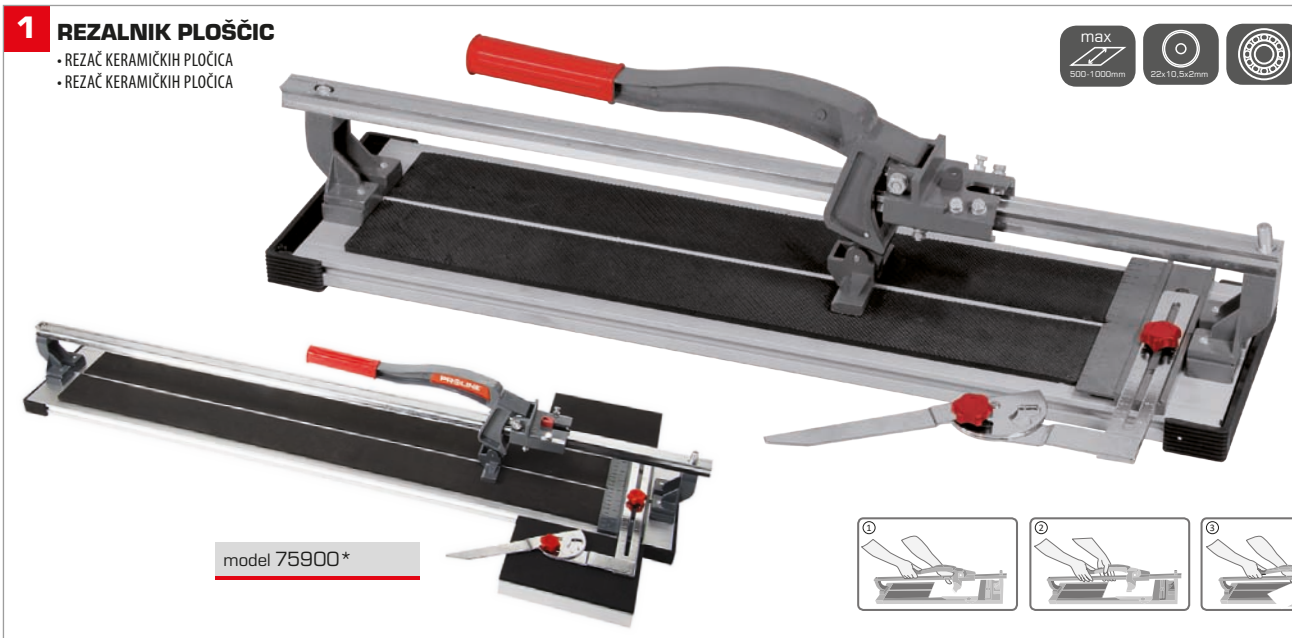
Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41014	120 x 540	16 - 35	M14	24

TYPE E – FOR GYPSUM (gypsum, gypsum plaster, putty coat), recommended mixing speed 200-500 rpm.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41011	80 x 530	5 - 15	hexagonal - 8mm	50
41012	100 x 540	12 - 30	hexagonal - 10mm	24
41015	120 x 600	16 - 35	M14	24

1 REZALNIK PLOŠČIC

• REZAČ KERAMIČKIH PLOČICA
• REZAČ KERAMIČKIH PLOČICA

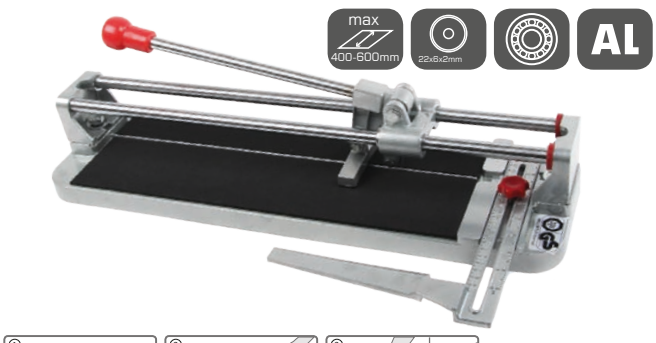


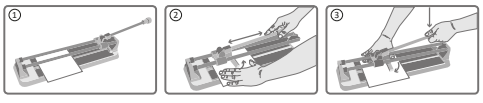
• Special, heavy-duty guide section • Adjustable guide clamp • Gauge for angular cutting • Maximum thickness of cut tile 20 mm • Aluminium base • Replacement disc available - 75725 code • Fixing set for under cutting discs available - code PKT001UW • Two side supports for stable arrangement of big tiles

Code	Cutting length (mm)	Base width (mm)	BOX	
75850	500	200	x	2
75860	600	200	x	2
75870	700	200	x	2
75880	800	200	x	2
75900	1000	200 (+150+150)*	x	2

2 REZALNIK PLOŠČIC

• REZAČ KERAMIČKIH PLOČICA • REZAČ KERAMIČKIH PLOČICA



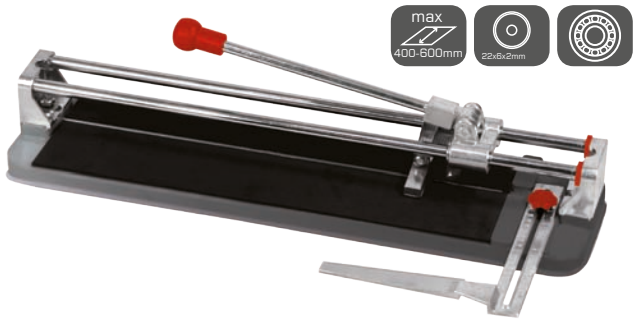


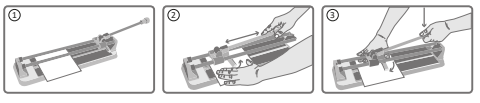
• Aluminium base • Special base reinforcement preventing deflection when cutting and breaking a tile • Maximum thickness of cut tile 14 mm
• Replacement disc code 75722

Code	Cutting length (mm)	Base width (mm)	BOX	
75340	400	180	x	2
75350	500	180	x	2
75360	600	180	x	2

3 REZALNIK PLOŠČIC

• REZAČ KERAMIČKIH PLOČICA • REZAČ KERAMIČKIH PLOČICA





• Steel base • Special base reinforcement preventing deflection when cutting and breaking a tile Maximum thickness of cut tile 14 mm • Replacement disc - code 75722

Code	Cutting length (mm)	Base width (mm)	BOX	
75540	400	180	x	2
75550	500	180	x	2
75560	600	180	x	2

4 NOŽ ZA REZALNIK PLOŠČIC

• OŠTRICA ZA REZANJE KERAMIČKIH PLOČICA • DISK ZA REZANJE PLOČICA



• Disc for tile-cutting tools - code **75850, 75860, 75870, 75880, 75900**

Code	Dimension (mm)		
75725	22 x 10.5 x 2	x	200

5 VIJAK ZA PRITRDITEV NOŽA REZALNIKA

• POTPORNI PRSTENI ZA REZANJE KOTAČA • POTPORNI PRSTENI ZA REZANJE TOČKA



• Glaze cutter inserts - code **75850, 75860, 75870, 75880, 75900**

Code		
PKT001UW	x	250

Natančno izdelani PROLINE čopiči in valji so nenadomestljivi, pri barvanju manjših kot tudi večjih površin. Namenjeni so tako profesionalni kot tudi domači rabi. Z njimi boste dosegli želeni učinek enostavno in hitro. Pri izbiri orodja za barvanje bodite pozorni na tri osnovne dejavnike, ki bodo določali izdelek, ki ga boste uporabili - velikost površine za barvanje, tip barve in tip (strukturo) podlage.

Površina:
Valjčki dolžine 180 do 250 mm se priporočajo za barvanje velikih površin, kot so stene ali stropi, ker vam omogočajo, da naenkrat zberete velike količine barve in hitro ter enakomerno prekrijete površine z barvo.

V primeru manjših, ravnih površin, bodo 100-milimetrski valjčki delovali veliko bolje, kar bo olajšalo barvanje, npr., vdolbin na okonih brez uporabe prevelike količine barve, kot tudi natančno barvanje na težko dostopnih mestih. Ščetke so primernejše za barvanje majhnih površin, vogalov ali razpok na ne ravnih površinah in oblikah

MODEL VALJČKOV	DOSTOPNE DIMENZIJE VHODOV (mm)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	mini komplet *
WESTAN			x	x				
SYNTEX	x			x				x
NYLON	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Dva valjčka 10 x 100mm zvitka, rezervoar za barvo in ročka

MODEL VALJČKOV	NAMEN									
	emulzijske barve	lateks barve	silikonske barve	silikatne barve	tiksotropne barve	laki na osnovi topil	laki na vodni osnovi	debeli laki	dvokomponentne barve (epoksi poliester)	madeži
WESTAN	x									
SYNTEX	x			x	x					
NYLON	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Vrsta podlage in barve:
Barvo ali lak je treba izbrati za želeno vrsto in učinek na površini, ki jo želite doseči. Proizvajalci barv in lakov zagotavljajo podrobne informacije na njihovi embalaži glede na njihovo uporabo, namen in priporočena orodja za barvanje.
Če take informacije ni, je zelo koristno vedeti, kako izbrati pravo orodje.

Čopiči - pri izbiri ščetk za barvanje posebno pozornost posvetite ključnim delom - ščetine. Čopiči z naravnimi ščetinami so narejene za lake in barve na osnovi topil, čopiči s sintetičnimi ščetinami za barve na vodni osnovi, čopiči z mešanimi ščetinami za barve ali lake na vodni osnovi.
Valjčki - višina valjčka mora biti usklajena z višino strukture pobarvane površine. Kratek valj je odličen za barvanje zelo gladkih površin, kot je na primer zaključni premaz na mavčni osnovi. Čim bolj strukturna in porozna je površina, tem večji mora biti valj, zato priporočamo valjčke z velikimi kotalnimi površinami za barvanje fasad. Pomemben element je tudi material, iz katerega je izdelan valj. Uporaba vseh valjev PROLINE je prikazana v zgornji tabeli

Preden začnete, razmislite o nakupu pribora za barvanje, ki bo poenostavil in pospešili vaše delo, zato bo barvanje večji užitek kot posel. Prav tako je dobra ideja, da se opremite z barvo in rešetko ustrezne velikosti, podaljškom za valje, ki poveča razpon gibanja, kot tudi samolepilni trak in obloge, ki vam pomagajo preprečiti kapljanje med delom in skrajšajo čas čiščenja.



Precizno izrađene, PROLINEove trajne četke i valjci su nezamjenjivi kada bojite manje površine, bili vi profesionalac ili ambiciozni amater. S njima ćete postići željeni učinak jednostavno i brzo. Prilikom odabira alata za bojanje, obratite pozornost na tri osnovna čimbenika koji će odrediti proizvod koji će se koristiti - veličinu površine koju treba obojiti, vrstu boje i tip (struktura) podloge.

Površina:
Valjci duljine 180 do 250 mm preporučuju se za bojanje velikih površina, kao što su zidovi ili stropovi, jer vam omogućuju prikupljanje velike količine boje odjednom i omogućuju brzo i ravnomjerno prekrivanje površine bojom. U slučaju manjih, ravnih površina, valjci duljine 100 mm će djelovati puno bolje, što olakšava bojanje, na primjer, udubljenja na prozorima bez korištenja previše boje, kao i precizno bojanje
na teško dostupnim mjestima. Četke su definitivno bolje za bojenje malih površina, kutaka ili pukotina na nepravilnim površinama i oblicima

MODEL VALJKA	DOSTUPNE DIMENZIJE ULAZA (mm)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	mini set*
WESTAN			x	x				
SYNTEX	x			x				x
NYLON	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Dva valjka od 10 x 100 mm, spremnik za boju i ručka

MODEL VALJKA	SVRHA									
	emulzijske boje	lateks boje	silikonske boje	silikatne boje	tiksotropne boje	lakovi na bazi otapala	lakovi na vodenoj bazi	trik lakovi	dvokomponen-tne boje (epoksi poliester)	mrlje
WESTAN	x									
SYNTEX	x			x	x					
NYLON	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Vrsta podloge i boje:
Boju ili lak treba odabrati na odgovarajući način za vrstu površine i učinak koji želite postići. Proizvođači boja i lakova pružaju detaljne podatke na njihovoj ambalaži u vezi s njihovim proizvodima, namjenu, uporabu i preporučene alate za bojanje. Ako je takva informacija odsutna, znati kako odabrati pravi alat je vrlo korisno.

Četke - pri odabiru četke za bojanje, obratite posebnu pozornost na ključni dio - na čekinje. Četke s prirodnim čekinjama napravljene su za lakove i boje na bazi otapala, četke sa sintetičkim čekinjama za boje na bazi vode, a četke s miješanim čekinjama za boje ili lakove na bazi vode.
Valjci - Visina valjka treba biti usklađena s visinom strukture oslikane površine. Kratki valjak je odličan za bojanje vrlo glatkih površina, kao što je završni premaz na bazi gipsa. Što je strukturnija i poroznija površina, valjak treba biti veći, pa se preporučuju valjci s velikim valjkastim površinama za bojanje fasada. Materijal od kojeg je valjak izrađen je također važna stavka. Upotreba svih PROLINE valjaka prikazana je u gornjoj tablici

Prije početka, razmislite o kupnji pribora za bojanje koji će pojednostaviti i ubrzati vaš rad, tako da bojanje postane užitak, a ne posao. Dobra je ideja da se opremite i podlogom za boju i rešetkom odgovarajuće veličine, produžnim drškom za valjke koji povećava raspon pokreta, kao i samoljepljivom trakom i oblogom koji vam pomažu da izbjegnete kapanje tijekom rada ili skratite vrijeme čišćenja.



Precizno izrađene, PROLINE-ove trajne četke i valjci su nezamjenjivi kada bojite manje površine, bez obzira da li ste profesionalac ili ambiciozni amater. Pomoću njih ćete jednostavno i brzo postići željeni učinak. Prilikom izbora alata za bojenje, obratite pažnju na tri osnovna faktora, koji će odrediti korišteni proizvod - veličinu površine koju treba obojiti, vrstu boje i tip (strukturu) podloge.

Površina:
Valjci dužine 180 do 250 mm preporučuju se za bojenje velikih površina, kao što su zidovi ili plafoni, jer vam omogućavaju upijanje velike količine boje odjednom i brzo i ravnomjerno prekrivanje površine bojom.
U slučaju manjih, ravnih površina, valjci dužine 100 mm će djelovati puno bolje, što olakšava bojenje, na primjer, udubljenja na prozorima bez korišćenja previše boje, kao i precizno bojenje na teško dostupnim mjestima. Četke su definitivno bolje za bojenje malih površina, uglova ili pukotina na nepravilnim površinama i oblicima.

MODEL VALJKA	DOSTUPNE DIMENZIJE ULAZA (mm)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	mini komplet *
WESTAN			x	x				
SYNTEX	x			x				x
NYLON	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Zwei Einsätze 10 x 100 mm, Farbwanne und Bügel

MODEL VALJKA	NAMENA									
	emulzijske boje	lateks boje	silikonske boje	silikatne boje	tiksotropne boje	lakovi na bazi rastvarača	lakovi na vodenoj bazi	trik lakovi	dvokom-ponentne boje (epoksi poliester)	mrlje
WESTAN	x									
SYNTEX	x			x	x					
NYLON	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Vrsta podloge i boje:
Boju ili lak treba odabrati na odgovarajući način za vrstu površine i učinak koji želite postići. Proizvođači boja i lakova pružaju detaljne podatke na njihovoj ambalaži u vezi s njihovim proizvodima, namjenu, upotrebu i preporučene alate za bojenje. Ako nemate takve informacije, vrlo je korisno znati kako odabrati pravi alat.

Četke - Pri odabiru četke za bojenje, obratite posebnu pažnju na ključni dio - na čekinje. Četke s prirodnim čekinjama napravljene su za lakove i boje na bazi rastvarača, četke sa sintetičkim čekinjama za boje na bazi vode, a četke s miješanim čekinjama za boje ili lakove na bazi vode.
Valjci - Visina valjka treba biti usklađena s visinom strukture oslikane površine. Kratki valjak je odličan za bojenje vrlo glatkih površina, kao što je završni premaz na bazi gipsa. Što je grublja i poroznija površina, valjak treba biti veći, pa se preporučuju valjci s velikim valjkastim površinama za bojenje fasada. Materijal od kojeg je valjak izrađen je također važna stavka. Upotreba svih PROLINE valjaka prikazana je u gornjoj tabeli.

Prije početka, razmislite o kupovini pribora za bojenje, koji će pojednostaviti i ubrzati vaš rad, tako da bojenje postane užitak, a ne posao. Dobra je ideja da se opremite i podlogom za boju i rešetkom odgovarajuće veličine, produžnom drškom za valjke koja povećava raspon pokreta, kao i samoljepljivom trakom i oblogom, koji vam pomažu da izbjegnete kapanje tokom rada ili skratite vrijeme čišćenja.



1 ČOPIČ ZA BARVANJE

• ČETKA ZA BOJANJE
• ČETKA ZA BOJENJE



OIL PAINT | TOPS 90

• Quality natural hair TOPS 90 • Wooden, lacquered handle • Brushes recommended to oil-based paints and varnishes

Code	Width (mm)	
41100	1"	12/240
41101	1 1/2"	12/240
41102	2"	12/240
41103	2 1/2"	12/120
41104	3"	12/120

2 ČOPIČ

• ČETKA ZA BOJANJE
• ČETKA ZA BOJENJE



ACRYLIC PAINT

• 50%-50% blend of natural bristles and OREL® • Lacquered wooden handle
• Brushes recommended for water-based paints

Code	Width (mm)	
41106	1"	12/240
41107	1 1/2"	12/240
41108	2"	12/240
41109	2 1/2"	12/120
41110	3"	12/120

3 ČOPIČ

• ČETKA ZA BOJANJE
• ČETKA ZA BOJENJE



SOFT TOUCH | OIL PAINT | TOPS 90

• High-quality natural bristle TOPS 90 • Two-component handle • Brushes designed for oil-based paints and varnishes

Code	Width (mm)	
41113	1"	12/240
41114	1 1/2"	12/240
41115	2"	12/240
41116	2 1/2"	12/120
41117	3"	12/120

4 ČOPIČ ZA BARVANJE

• ČETKA ZA BOJANJE
• ČETKA ZA BOJENJE



SOFT TOUCH | ACRYLIC PAINT

• 50%-50% blend of natural bristle with polyester one • Two-component handle
• Brushes recommended for water-based paints

Code	Width (mm)	
41118	1"	12/240
41119	1 1/2"	12/240
41120	2"	12/240
41121	2 1/2"	12/120
41122	3"	12/120

5 ČOPIČ

• ČETKA ZA BOJANJE KUTOVA • ČETKA ZA BOJENJE UGLOVA



OIL PAINT | TOPS 90

• High-quality natural bristle TOPS 90
• Lacquered wooden handle • Brushes designed for oil-based paints and varnishes

Code	Width (mm)	
41111	2"	12/120
41112	2 1/2"	12/120

6 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK SA OKVIROM



• Sleeve made from shaggy polyester yarn
• Recommended for easy painting works
• Recommended for emulsion and latex paints
• Handle with steel wire Ø 8 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41142	50 x 180	8	1	40
41143	50 x 250	8	1	35

7 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK SA OKVIROM



• Short 7 mm nap • Resistant to solvents
• Recommended for painting with oil nitro, chlorinated rubber, polyvinyl, corrosion protection, undercoat, two-component paints, as well as sticky substances such as polyester and epoxy resins • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41150	50 x 180	8	1	40
41151	50 x 250	8	1	35

8 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK SA OKVIROM



• Professional roller for painting porous and uneven façades • Nap made of densely woven fabric, highly resistant to abrasion • Nap 15 mm high • Recommended for painting with emulsion, acrylic, silicone and silicate paints
• For interior and exterior painting • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41154	50 x 180	8	1	40
41155	50 x 250	8	1	35

9 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK SA OKVIROM



• Roller designed for cost-efficient painting of large surfaces with emulsion and latex paints
• Façade roller padded with PP foam 6 mm thick, covered with a polyamide-acrylic fabric
• Recommended for painting internal and external walls with façade paints • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41158	70 x 180	8	1	30
41159	70 x 250	8	1	25

1 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK SA OKVIROM



• All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Designed for economic coating of large areas • Handle with steel wire ∅ 8 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41146	50 x 180	8	1	40
41147	50 x 250	8	1	35

2 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• Short pile 7mm • Resistant to solvents
• Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41243	30 x 100	6	1	50

3 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion • The pile 15mm high
• Recommended for emulsion, acrylic, silicon and silicate paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41258	30 x 100	6	1	50

4 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK SA OKVIROM



• The roller is recommended for economic emulsion and latex paints • Facade roller lined with PP foam 6 mm thick, covered with polyamide-acrylic textile • Recommended for coating inner and outer walls with facade paints • Long and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41253	30 x 100	6	1	50

5 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41268	30 x 100	6	1	50

6 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• Polyamide & acrylic roller with pile 9 mm
• Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints
• Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41263	30 x 100	6	1	50

7 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK SA OKVIROM



• The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41248	30 x 100	6	1	50

8 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• Short pile 7mm • Resistant to solvents
• Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41242	10 x 100	6	2	75

9 VALJ Z DRŽALOM
• VALJAK S OKVIROM • VALJAK S OKVIROM



• Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion • The pile 15mm high
• Recommended for emulsion, acrylic, silicon and silicate paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41257	10 x 100	6	2	75

1 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK S OKVIROM



- The roller is recommended for economic emulsion and latex paints • Facade roller covered with polyamide-acrylic textile
- Recommended for coating inner and outer walls with facade paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41252	10 x 100	6	2	75

2 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK S OKVIROM



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Short and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41267	10 x 100	6	2	75

3 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK S OKVIROM



- Polyamide & acrylic roller with pile 9 mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints
- Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41262	10 x 100	6	2	75

4 VALJ Z DRŽALOM

• VALJAK S OKVIROM • VALJAK S OKVIROM



- The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41247	10 x 100	6	2	75

5 DRŽALO IN SET VALJČKOV

• DRŠKA I ČAHURA VALJKA
• DRŠKA I ČAHURA VALJKA



- The set includes one handle and 4 roller sleeves • The roller made from modified polyester foam designed for emulsion and oil paints, varnishes and joint compounds
- Thanks to its small size, designed for precision finishing works

Code	Dimension (mm)	Diameter (mm)	
41160	35 x 50	6	75
41161	35 x 70	6	75
41162	35 x 100	6	45

6 PLESKARSKI SET MINI

• SET MINI VALJAKA
• SET MINI VALJAKA



- Short pile 7 mm • Resistant to solvents
- Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • The set includes short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41244	6	2	25

7 PLESKARSKI SET

• SET MINI VALJAKA
• SET MINI VALJAKA



- Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion
- The pile 15mm high • Recommended for emulsion, acrylic, silicon and silicate paints • The set includes: short and lightweight handle with steel wire Ø 6 mm, 2 sleeves sized 100 x 10 mm and a paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41259	6	2	25

8 PLESKARSKI SET

• SET MINI VALJAKA
• SET MINI VALJAKA



- The roller is recommended for economic emulsion and latex paints • Facade roller, lined with PP foam 6 mm thick, covered with polyamide-acrylic textile • Recommended for coating inner and outer walls with facade paints • The set includes: short and lightweight handle with steel wire Ø 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41254	6	2	25

9 PLESKARSKI SET MINI

• SET MINI VALJAKA
• SET MINI VALJAKA



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • The set includes: short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41269	6	2	25

1 PLESKARSKI SET MINI

• SET MINI VALJAKA
• SET MINI VALJAKA



- Polyamide & acrylic roller with pile 9mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints • The set includes short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41264	6	2	25

2 PLESKARSKI SET MINI

• SET MINI VALJAKA
• SET MINI VALJAKA



- The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • The set includes: short and lightweight handle with steel wire Ø 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41249	6	2	25

3 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA

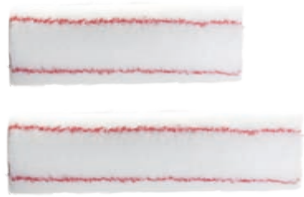


- The roller is recommended for emulsion and latex paints. • The roller is made from shaggy polyester yarn knitwear • Dedicated for simple painting works

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41140	50 x 180	8	1	50
41141	50 x 250	8	1	40

4 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA

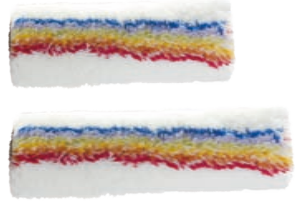


- Short pile 7mm • Resistant to solvents
- For nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41240	10 x 100	6	2	200
41241	30 x 100	6	1	200
41148	50 x 180	8	1	50
41149	50 x 250	8	1	40

5 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA

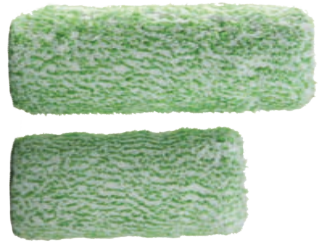


- Professional roller for coating porous and uneven facades • The sleeve made from thickwoven textile, highly resistant to abrasion
- The pile 15mm high • Recommended for emulsion, acrylic, silicon and silicate paints
- Recommended for inner and outer painting works

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41255	10 x 100	6	2	200
41256	30 x 100	6	1	200
41152	50 x 180	8	1	50
41153	50 x 250	8	1	40

6 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA



- Designed for coating large areas with emulsion and latex paints
- Facade roller with PP foam lining, 6mm thick, covered with polyamide and acrylic textile • Designed for ambitious amateurs, recommended for coating inner and outer walls with facade paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41250	10 x 100	6	2	200
41251	30 x 100	6	1	200
41156	70 x 180	8	1	30
41157	70 x 250	8	1	25

7 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Dedicated for effective painting of large surfaces

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41265	10 x 100	6	2	200
41266	30 x 100	6	1	200
41144	50 x 180	8	1	50
41145	50 x 250	8	1	40

8 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA



- Polyamide & acrylic roller 9mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41260	10 x 100	6	2	200
41261	30 x 100	6	1	200

9 VALJ, VLOŽEK

• ČAHURA VALJKA • ČAHURA VALJKA

- The roller is designed for any varnishing works • Resistant to solvents
- Recommended for water-based varnishes, two-ingredient paints, epoxy and polyester paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41245	10 x 100	6	2	200
41246	30 x 100	6	1	200

1 VALJ, VLOŽEK

• ČAHURA • ČAHURA VALJKA

- Roller made from modified polyester foam, recommended for emulsion and oil paints, varnishes and joint compounds • Thanks to its small size, designed for precision finishing works
- Sold in sets of 10 pcs.

Code	Dimension (mm)	Diameter (mm)	
41163	35 x 50	6	600
41164	35 x 70	6	500
41165	35 x 100	6	350

2 DRŽALO

• DRŽAČ • DRŠKA



- Lightweight plastic handle • Steel wire Ø 6 mm

Code	Size (mm)	Diameter (mm)	
41168	50	6	140
41169	70	6	140
41170	100	6	120

3 DRŽALO

• DRŽAČ• DRŠKE



- Lightweight plastic handle • Steel wire Ø 8 mm

Code	Size (mm)	Diameter (mm)	
41166	180	8	80
41167	250	8	50

4 POSODA ZA BARVANJE

• PLADANJ ZA BOJE • PLADANJ ZA BOJE

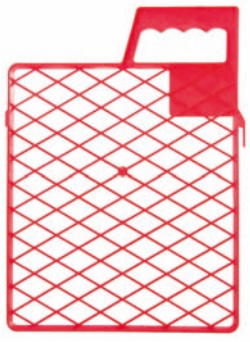


- Plastic paint tray

Code	Dimension (mm)	
41171	120 x 190	500
41172	140 x 300	150
41173	240 x 320	50
41174	310 x 350	50

5 MREŽICA ZA BARVO

• MREŽA ZA BOJU • MREŽA ZA BOJU



- Plastic paint mesh

Code	Dimension (mm)	
41175	180 x 210	350
41176	225 x 260	150
41177	260 x 310	100

6 POSODA ZA BARVO

• SPREMNIK ZA BOJU • POSUDA ZA BOJU



- Rectangular plastic bucket • Wire handle
- Dedicated to inner works • The spout shaped in one of the corners

Code	Volume (l)	
41178	8	40
41179	12	20

7 TELESKOPSKA PALICA

• TELESKOPSKI ŠTAP • TELESKOPSKI ŠTAP



- For extending painter's tools

Code	Adjustment range (mm)	
41180	1000-2000	20

8 PLESKARSKE PREVLEKE

• SOBOSLIKARSKI POKRIVAČ • SOBOSLIKARSKI PREKRIVAČ



- Painter's dust sheet sized 4 x 5 m

Code	Sheet type	Strength	Thickness (+/-10%) (µm)	
41136	HDPE	standard	0.7	40
41137	LDPE	strong	20	25
41138	LDPE	extra strong	40	10

9 KREP TRAK

• KREP TRAKA • KREP TRAKA



- Yellow paper tapes • Roll length 35 m

Code	Diameter (mm)	
41131	19	12/48
41132	25	6/36
41133	30	10/40
41134	38	6/24
41135	48	6/24

1 KRIŽCI ZA KERAMIKO

• DRŽAČI RAZMAKA PLOČICA • KRIŽIĆI ZA KERAMIKU



• Made from high quality materials

Code	Quantity in the packaging (pcs.)	Width (mm)	
61320	150	1,5	50
61321	150	2	50
61322	150	2,5	50
61323	100	3	50
61324	75	4	50
61325	75	5	50
61326	50	6	50
61327	30	8	50
61328	30	10	50

2 KRIŽCI ZA KERAMIKO Z DRŽALOM

• KRIŽIĆI ZA KERAMIKU S DRŠKOM
• DRŽAČI RAZMAKA PLOČICA S DRŽAČIMA



• Made from high quality materials • Small dimensional tolerance • Handle facilitating removal from the slot

Code	Quantity in the packaging (pcs.)	Width (mm)	
61329	100	1.5	50
61330	70	2	50
61331	70	2.5	50
61332	70	3	50
61333	70	4	50
61334	70	5	50
61335	50	6	50
61336	50	8	50
61337	40	10	50

3 ZAGOZDE ZA KERAMIKO

• KLINOVI ZA KERAMIKU • KLINOVI ZA KERAMIKU



• Designed for tile levelling
• Made from high quality materials

Code	Quantity in the packaging (pcs.)	Height/Width (mm)	
61344	100	23 x 5.3	200
61345	40	32.3 x 8	200

4 REZALNIK PLOŠČIC

• REZAČ PLOČICA • REZAČ PLOČICA



TIN COATED | YG-6X | 1x

• Designed for tile breaking and cutting
• Cutting discs made from tungsten carbide YG-6X, coated with titanium • Coated handle to increase grip • The set includes • An allen wrench

Code	Length (mm)		
61661	200	x	6/48

5 STRGALNIK ZA FUGE

• PREKLOPNI STRUGAČ FUGA • PREKLOPNI STRUGAČ FUGA



SOFT TOUCH

• Two-component handle ensures reliable grip
• Efficient blades with tungsten grit for joint scrubbing

Code	Length blade (mm)		
61662	50	x	10/60



6 REZILO ZA FUGE

• OŠTRICE ZA FUGE
• REZAČ FUGA



• Two effective tungsten-coated blades for grout removal • For scrubber 61662

Code	Length blade (mm)		
61663	50	x	50/400

7 ŠABLONA ZA IZREZOVANJE

• PROFILNI UZORCI ZA KERAMIČARSTVO
• PROFILNI UZORCI ZA KERAMIČARSTVO



44 mm | SCALE inch/cm

• Designed for mapping shapes in places difficult to reach • Graduation in inches and cm facilitating shape mapping

Code	Width (mm)		
61664	125	x	10/60
61665	250	x	10/40

8 GOBICA

• SPUŽVA • SPUŽVA



• The sponge is designed primarily for cleaning ceramic tiles after grouting, can be used also for washing and cleaning other surfaces

Code	Dimension (mm)	
61666	60 x 120 x 230	80

1 PIŠTOLA ZA SILIKONSKI KIT

• PIŠTOLJ ZA SILIKON
• PIŠTOLJ ZA SILIKON



225ml | 225mm

- Designed for extrusion of silicone, glue and mass with increased density in tubes 225 mm long • Double guide ensuring precise piston guiding

Code	Size (mm)	
18008	225	6/12

2 PIŠTOLA ZA SILIKONSKI KIT

• PIŠTOLJ ZA SILIKON • PIŠTOLJ ZA SILIKON



300ml | 225mm

- Steel • Ratchet gear • Handle covered with non-slip material

Code	Size (mm)	
18004	225	24

3 PIŠTOLA ZA SILIKONSKI KIT

• PIŠTOLJ ZA SILIKON • PIŠTOLJ ZA SILIKON



300ml | 225mm

- Steel and aluminium • Revolving tube holder

Code	Size (mm)	
18007	225	24

4 PIŠTOLA ZA SILKONSKI KIT

• PIŠTOLJ ZA SILIKON • PIŠTOLJ ZA SILIKON



300ml | 225mm

- Designed for extrusion of silicone and glue in tubes 225 mm long
- Frame made from steel flat section 2.5 mm thick

Code	Size (mm)	
18003	225	24

5 PIŠTOLA ZA SILIKONSKI KIT ALU

• ALUMINIJSKI PIŠTOLJ ZA SILIKON
• ALUMINIJSKI PIŠTOLJ ZA SILIKON



600ml | 370mm | AL

- Aluminium and steel caulking gun for sealing compound 600 ml
- Designed for dispensing glue and sealants in plastic packages, up to 600ml and cartouches 290-310ml • Durable and lightweight
- Rotating tube holder • Strong ratchet mechanism • Screwed-on tip
- Pusher 10mm thick • Aluminium container

Code	Size (mm)	
18010	370	20

6 PIŠTOLA ZA SILIKONSKI KIT ALU

• ALUMINIJSKI PIŠTOLJ ZA SILIKON
• ALUMINIJSKI PIŠTOLJ ZA SILIKON



300ml | 225mm | AL

- Aluminium container • Ratchet mechanism

Code	Size (mm)	
18009	225	24

7 PIŠTOLA ZA PU PENO

• PIŠTOLJ ZA PJENU
• PIŠTOLJ ZA PJENU



PTFE

- Aluminium head • Ring and ball inside the head, made from PTFE, used as a check valve • Knob facilitating accurate control of foam stream
- Brass nozzle • Stainless steel needle • Lightweight body made from zinc alloy - galvanised • Two tips for application in places difficult to reach

Code	Size (mm)	
18016	340	20

8 PIŠTOLA ZA PU PENO

• PIŠTOLJ ZA PJENU
• PIŠTOLJ ZA PJENU



PTFE

- Brass head and nozzle • Brass knob facilitating accurate control of foam stream • Stainless steel needle • Two tips for application in places difficult to reach

Code	Size (mm)	
18015	330	10/20

1 PIŠTOLA ZA PU PENO

• PIŠTOLJ ZA PJENU • PIŠTOLJ ZA PJENU

PROLINE HD



PTFE



- Body and handle made from nickel-coated aluminium alloy - satin coating
- Two tips for application in places difficult to reach

Code	Size (mm)	
18017	340	20

2 PIŠTOLA ZA PU PENO

• PIŠTOLJ ZA PJENU • PIŠTOLJ ZA PJENU



METAL



- Metal body • Knob for foam stream control

Code	Size (mm)	
18013	340	20

3 PIŠTOLA ZA PU PENO

• PIŠTOLJ ZA PJENU • PIŠTOLJ ZA PJENU



PTFE



- Metal body • Knob for foam stream control
- Head and applicator covered with PTFE - to facilitate gun cleaning

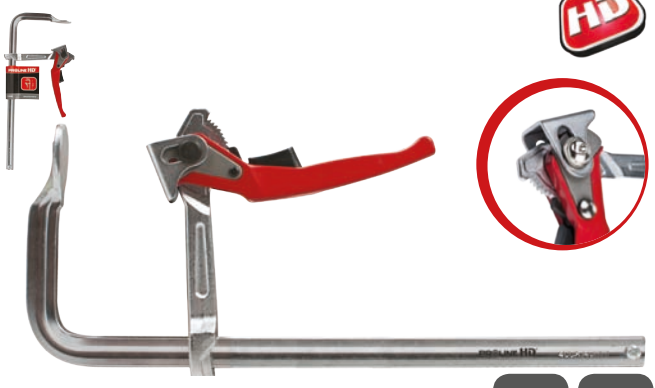
Code	Size (mm)	
18014	340	20



1 SPONA F-TIP Z RAGLJO

• STEGA TIPA „F"
• STEZALJKA F-TIP

PROLINE HD



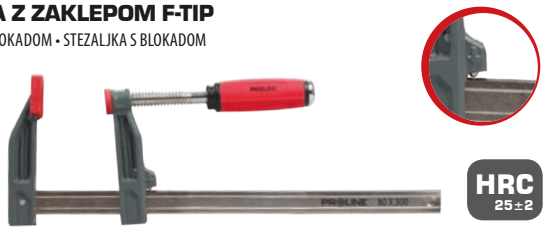
AL HRC 45±2

• Ratchet drive enabling to clamp the item quickly • Guide and arm - moving, forged • Handle made from aluminium alloy

Code	Dimension (mm)	
11420	200 x 140	2/8
11430	300 x 140	2/8
11440	400 x 140	2/6
11450	500 x 140	2/6
11460	600 x 140	2/6

2 SPONA Z ZAKLEPOM F-TIP

• STEGA S BLOKADOM • STEZALJKA S BLOKADOM



HRC 25±2

• Lock minimising jaw falling risk • Clamping screw with trapezoidal thread
• Plastic overlays protecting the material clamped

Code	Dimension (mm)	
11515	150 x 50	25/50
11525	250 x 50	25/50
11530	300 x 80	10/20
11531	300 x 120	5/10
11550	500 x 120	5/10
11580	800 x 120	6
11581	1000 x 120	6
11582	1500 x 120	4
11583	2000 x 120	4

3 SPONA Z ZAKLEPOM F-TIP

• STEGA F-TIPA • STEZALJKA F-TIPA



• Quick action • Cast iron arms • Wooden handle
• Strip - steel, toothed, ensuring reliable sliding and locking • Plastic jaw overlays protecting clamped material against damage

Code	Dimension (mm)	
11215	150 x 50	50
11230	300 x 50	50
11232	300 x 80	25
11231	300 x 120	10
11251	500 x 120	10
11281	800 x 120	6
11282	1000 x 120	6
11283	1500 x 120	5
11284	2000 x 120	5

4 SPONA

• STEGA • STEZALJKA



• Plastic • Quick action • After jaw resetting, can be used as a distancing tool

Code	Dimension (mm)	
11315	150 x 60	6/24
11320	200 x 60	6/24
11330	300 x 60	6/24
11345	450 x 60	6/24
11360	600 x 60	6/24
11375	750 x 60	6/12
11390	900 x 60	6/12



1 ŽAGA ROČNA
• „TURBO" RUČNA PILA • RUČNA PILA



TURBO CUT | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- For rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64340	400	7	12/48
64345	450	7	12/48
64350	500	7	12/24

2 ŽAGA ROČNA
• „TURBO" RUČNA PILA • RUČNA PILA



TURBO CUT | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert • For quick finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64440	400	10	12/48
64445	450	10	12/48
64450	500	10	12/24

3 ŽAGA ROČNA
• „TURBO" RUČNA PILA • RUČNE PILE



TURBO CUT | PTFE | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- PTFE-coated, offering small resistance in the process of cutting • For quick, rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64360	400	7	12/48
64365	450	7	12/48
64370	500	7	12/24

4 ŽAGA ROČNA
• RUČNA PILA • RUČNA PILA

HRC 52±2



- Two-component handle made from plastic with non-slip insert • For rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64740	400	7	12/48
64745	450	7	12/48
64750	500	7	12/24

5 ŽAGA ROČNA
• RUČNA PILE • RUČNA PILA

HRC 52±2



- Two-component handle made from plastic with non-slip insert • For finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64840	400	10	12/48
64845	450	10	12/48
64850	500	10	12/24

6 ŽAGA ROČNA
• „TURBO" RUČNA PILA • „TURBO" RUČNA PILA

TURBO CUT | HRC 52±2



- Wooden handle with rubber overlay
- For quick finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64390	400	10	12/24
64391	450	10	12/24
64392	500	10	12/24

7 ŽAGA ROČNA
• RUČNA PILA NA POVLAČENJE
• RUČNA PILA NA POVLAČENJE



HRC 52±2

- Two-component handle made from plastic with non-slip insert • For finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64400	300	10	12/48
64405	350	12	12/48

8 ŽAGA ROČNA
• PILA ZA ŠUPLJIKAVI BETON • PILA ZA ŠUPLJIKAVI BETON

HRC 52±2



- Large teeth • Every second tooth made from sintered carbide

Code	Size (mm)	Total number of teeth	Number of carbide teeth	
64560	600	35	17	5/20
64570	700	39	19	5/20

9 ŽAGA ROČNA ZA MAVČNE PLOŠČE
• PILA ZA GIPSNE PLOČE • PILA ZA GIPSANE PLOČE



HRC 52±2

- Two-component handle made from non-slip material • Replaceable blade

Code	Size (mm)	Qty of teeth/ inch	
64460	150	7	10/60

10 ŽAGA ROČNA ZA MAVČNE PLOŠČE
• PILA ZA GIPSNE PLOČE • PILA ZA GIPSANE PLOČE



HRC 52±2

- Two-sided teeth sharpening • Teeth induction quenching • Blade for easy cutting of a hole

Code	Size (mm)	Qty of teeth/ inch	
64465	150	10	10/60

11 ŽAGA LUKNJARICA
• OKRUGLA RUČNA PILA
• OKRUGLA RUČNA PILA



HRC 52±2

- Two-component handle made from plastic with non-slip insert

Code	Size (mm)	Qty of teeth/ inch	
64420	300	7	10/60

12 ŽAGA ROČNA - UNIVERZAL
• UNIVERZALNA PILA • UNIVERZALNA PILA



HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- Replaceable blade

Code	Size (mm)	Qty of teeth/ inch	
64470	180	7	12/48

1 ŽAGA LOKARICA

• LUČNA PILA • LUČNA PILA



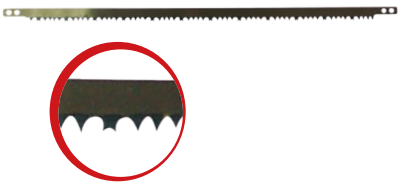
HRC 52±2

• Flattened frame • American teeth, quenched

Code	Size (mm)	
64053	530	24
64061	610	24
64076	760	24

2 REZILO ZA ŽAGO LOKARICO

• OŠTRICA ZA LUČNU PILU • OŠTRICA ZA PILE ZA METAL



• American, induction-quenched teeth
• For saws: 64053, 64061, 64076

Code	Size (mm)	
64105	530	50/200
64106	610	50/200
64107	760	50/200

3 ŽAGA LOKARICA Z DODATNIMI REZILI

• LUČNA PILA • LUČNA PILA



HRC 52±2

• The set includes 3 blades: for wood, metal and PVC

Code	Size (mm)	
64433	300	24

4 ŽAGA LOKARICA

• LUČNA PILA • LUČNA PILA



• Supplied with 2 blades: for wood - with American, induction-quenched teeth and for metal and PVC, made from carbon steel
• Hand cover

Code	Size (mm)	
64132	300	12/24

5 ŽAGA LOKARICA Z NASTAVLJIVIM LOKOM

• LUČNA PILA S PODESIVIM LUKOM
• LUČNA PILA S PODESIVIM LUKOM



• Structure enables to turn the bow and cut in places difficult to reach • Two methods of bow fixing

Code	Size (mm)	Qty of teeth/ inch	
23121	300	24	6/36

6 ŽAGA ZA KOVINO

• PILA ZA METAL
• PILA ZA METAL



AL

• Two blade positions • Aluminium handle
• Compartment for spare blades

Code	Size (mm)	
23120	300	6/48

7 ŽAGA ZA KOVINO

• PILA ZA METAL
• PILA ZA METAL



BI-METAL

• Frame made from steel flat section 7 mm thick • Wooden, varnished handle • Two methods of blade fixing

Code	Size (mm)	Qty of teeth /inch	
23123	300	24	12



1 LOPATA RAVNA, KOVINSKO DRŽALO

• RAVNA LOPATA, METALNA DRŠKA • RAVNA LOPATA, METALNA DRŠKA



• Plastic-coated shaft • Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14371	1150 x 195 x 290	6

2 LOPATA OSTRA, KOVINSKO DRŽALO

• OŠTRA LOPATA, METALNI DRŽAČ • OŠTRA LOPATA, METALNA DRŠKA



• Plastic-coated shaft
• Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14372	1150 x 190 x 290	6

3 LOPATA ZA PESEK, KOVINSKO DRŽALO

• LOPATA ZA PIJESAK, METALNA DRŠKA
• LOPATA ZA PIJESAK, METALNA DRŠKA



• Shaft coated with plastic
• Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14373	1250 x 230 x 320	6

4 LOPATA RAVNA, LESENO DRŽALO

• RAVNA LOPATA, DRVENA DRŠKA
• RAVNA LOPATA, DRVENA DRŠKA



HRC 45±2

Code	Dimension (mm)	
12374	1150 x 180 x 280	6

5 LOPATA RAVNA, KOVINSKO DRŽALO

• RAVNA LOPATA, METALNA DRŠKA • RAVNA LOPATA, METALNA DRŠKA



• Shaft coated with plastic

HRC 45±2

Code	Dimension (mm)	
12371	1150 x 190 x 290	6

6 LOPATA RAVNA, DRŽALO IZ STEKLENIH VLAKEN

• RAVNA LOPATA, DRŠKA OD STAKLENOG VLAKNA
• RAVNA LOPATA, DRŠKA OD STAKLENIH VLAKANA



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12377	1150 x 180 x 280	6

7 LOPATA OSTRA, LESENO DRŽALO

• OŠTRA LOPATA, DRVENA DRŠKA • OŠTRA LOPATA, DRVENA DRŠKA



HRC 45±2

Code	Dimension (mm)	
12375	1150 x 180 x 280	6

8 LOPATA OSTRA, KOVINSKO DRŽALO

• OŠTRA LOPATA, METALNA DRŠKA
• OŠTRA LOPATA, METALNA DRŠKA



• Shaft coated with plastic

HRC 45±2

Code	Dimension (mm)	
12372	1150 x 190 x 290	6

9 LOPATA OSTRA, DRŽALO IZ STEKLENIH VLAKEN

• OŠTRA LOPATA, DRŠKA OD STAKLENOG VLAKNA • OŠTRA LOPATA, DRŠKA OD STAKLENIH VLAKANA



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12378	1150 x 180 x 280	6

10 LOPATA ZA PESEK, LESENO DRŽALO

• LOPATA ZA PIJESAK, DRVENA DRŠKA
• LOPATA ZA PIJESAK, DRVENA DRŠKA



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12376	1250 x 250 x 280	6

1 LOPATA ZA PESEK, KOVINSKO DRŽALO

• LOPATA ZA PIJESAK, METALNA DRŠKA • LOPATA ZA PIJESAK, METALNA DRŠKA



HRC 45±2

• Shaft coated with plastic

Code	Dimension (mm)	
12373	1250 x 230 x 320	6

2 LOPATA ZA PESEK, DRŽALO IZ STEKLENIH VLAKEN

• LOPATA ZA PIJESAK, DRŠKA OD STAKLENOG VLAKNA
• LOPATA ZA PIJESAK, DRŠKA OD STAKLENIH VLAKNA



HRC 45±2

• Improved shaft resistance

Code	Dimension (mm)	
12379	1250 x 250 x 280	6

3 LOPATA ZA PESEK ALU, LAHKA

• ALUMINIJSKA LOPATA ZA PIJESAK, EKSTRA LAGANA
• ALUMINIJSKA LOPATA ZA PIJESAK, EKSTRA LAGANA



kg 1,0 AL

• Excellent ergonomics

Code	Dimension (mm)	
12391	1230 x 250 x 320	12



4 SEKIRA

PROLINE HD

• SJEKIRA • SJEKIRA



• Forged and quenched head, covered with non-stick Teflon coat
• Shaft made from composite reinforced with glass fiber
• Non-slip TPR handle • Model 12840-12854 - special blade shape facilitating trunk cleaving • Model 12836 -universal blade for preparing small wood pieces • Practical case for storage and transport

Code	Weight (g)	Length (mm)	
12836	640	360	12/24
12840	1000	455	6/12
12843	1300	605	6/12
12846	1600	725	4/8
12854	2400	775	2/4

5 SEKIRA

PROLINE HD

• SJEKIRA • SJEKIRA



GENUINE HICKORY DIN 5131 DIN 7294

• Forged and quenched head • Shaft and head connection by a wooden wedge and steel bushing • Rubber blade protection • Varnished shaft, made from American hiccory hardwood • Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12726	600	360	24
12728	800	380	24
12731	1000	430	16
12732	1250	700	10
12734	1400	700	10
12736	1600	800	10

6 SEKIRA ZA CEPLJENJE

PROLINE HD

• SJEKIRA ZA CIJEPANJE • SJEKIRA ZA CIJEPANJE



GENUINE HICKORY

• Forged and quenched head • Special blade shape facilitating trunk cleaving
• Shaft and head connection by a wooden wedge and steel bushing • Rubber blade protection • Varnished shaft, made from American hiccory hardwood
• Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12741	1000	430	12
12742	2000	800	6

1 SEKIRA
• SJEKIRA • SJEKIRA



DIN 7287 | HRC 52±2

• Forged and quenched head • Rubber blade guard

Code	Weight (g)	Length (mm)	
12706	600	360	24
12708	800	380	24
12710	1000	430	16
12712	1250	700	10
12716	1600	800	10

2 SEKIRA
• SJEKIRA • SJEKIRA



75% GRP | DIN 7287 | HRC 52±2

• Forged and quenched head • Rubber blade protection • Two-composite, non-slip TPR handle

Code	Weight (g)	Length (mm)	
12866	600	360	24
12868	800	380	24
12870	1000	430	24
12872	1250	700	12
12876	1600	800	12

3 SEKIRA
• SJEKIRA • SJEKIRA



GRP | DIN 7287 | HRC 52±2

• Rubber blade guard • Non-slip TPR handle

Code	Weight (g)	Length (mm)	
12806	600	360	20
12808	800	380	20
12810	1000	430	16
12812	1250	700	8
12816	1600	800	6
12820	2000	900	6

4 SEKIRA ZA CEPLJENJE
• SJEKIRA • SJEKIRA ZA CIJEPANJE



GRP | HRC 52±2

• Special blade shape facilitating trunk cleaving • Forged and quenched head • Non-slip TPR handle • Rubber blade protection

Code	Weight (g)	Length (mm)	
12821	2000	800	6



5 BAT CEPILNI
• MALJ ZA CIJEPANJE • MALJ ZA CIJEPANJE



kg 2,7 | 70% GRP

• Forged and quenched heat treated • Rubber collar protecting the handle against damage • Rubber blade protection
• Shaft made of high quality fiberglass • Cone-shaped shaft
• Two-composite, non-slip TPR handle

Code	Weight (g)	Length (mm)	
12825	2700	900	6

6 BAT CEPILNI
PROLINE HD
• MALJ ZA CIJEPANJE • MALJ ZA CIJEPANJE



kg 3,0 | GENUINE HICKORY | DIN 5129

• Forged and quenched head • Shaft and head connection by a wooden wedge and two steel bushings • Protection cover for the blade made from artificial leather • Varnished shaft, made from American hiccory hardwood • Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12803	3000	900	6

1 DLETO - RAVNO

• RAVNO HLADNO KOVANO DLIJETO
• RAVNO HLADNO KOVANO DLIJETO



HRC 48±2

• Quenched • High-quality tool steel
• PVC cover

Code	Length (mm)	Width (mm)	
31325	250	16	5/50
31330	300	16	5/50
31339	300	19	5/20
31340	400	19	5/20

2 DLETO - KONIČASTO

• TOČKASTO HLADNO KOVANO DLIJETO
• TAČKASTO HLADNO KOVANO DLIJETO



HRC 48±2

• Quenched • High-quality tool steel
• PVC cover

Code	Length (mm)	
31350	250	5/50
31353	300	5/20
31355	400	5/20

3 LOMILKA

• ŠIPKA ZA RAZBIJANJE • ŠIPKA S DLIJETOM

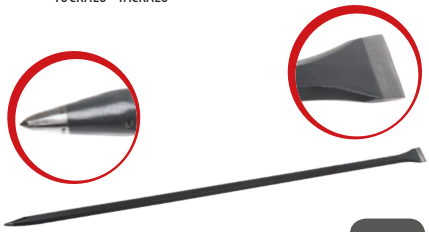


HRC 49±3

Code	Length (mm)	Width (mm)	
31364	400	17	5
31365	500	17	5
31366	600	17	5
31367	700	17	5
31368	800	19	5
31370	1000	19	5

4 TOČKALO

• TOČKALO • TAČKALO



HRC 49±3

Code	Length (mm)	Width (mm)	
31372	1200	25	4
31373	1500	25	4
31374	1600	25	3

5 SET DLET IN ŠIL

• SET DLIJETA I ŠILA • SET DLIJETA I ŠILA



CrV HRC 55±2

• Plastic tool organizer
• The set contains:
- Center punch: 100 mm x 6 mm, 115 mm x 8 mm
- taper pin punch 140 mm x 2 mm
- Chisels: 140 mm x 10 mm, 150 mm x 12 mm, 170 mm x 16 mm
- Parallel punches: 150 mm x 8 mm, 150 mm x 6 mm, 150 mm x 5 mm, 150 mm x 4 mm, 150 mm x 3 mm, 150 mm x 1.5 mm

Code	Quantity (pcs.)		
31361	12	x	3/12

6 SET DLET IN ŠIL

• SET DLIJETA I ŠILA • SET DLIJETA I ŠILA



CrV HRC 55±2

• Plastic tool organizer
• The set contains:
- center punch 115 mm x 8 mm
- taper pin punch 140 mm x 2 mm
- Chisels: 140 mm x 10 mm, 150 mm x 12 mm
- Parallel punches: 150 mm x 6 mm, 150 mm x 3 mm

Code	Quantity (pcs.)		
31362	6	x	3/24

7 SET DLET IN ŠIL

• SET DLIJETA I ŠILA • SET DLIJETA I ŠILA



CrV HRC 52±2

• Chromium-plated • Polished • Plastic tool organizer
• The set contains:
- center punch 120 mm x 4mm
- taper pin punch 120 mm x 3 mm
- Star-pointed chisel 130 mm x 5 mm
- Flat chisel 130 mm x 12 mm
- Parallel punches 150 mm x 4 mm

Code	Quantity (pcs.)		
31360	5	x	5/40

8 SET DLET

• SET DLIJETA • SET DLIJETA



CrV HRC 55±2

• Plastic tool organizer • The set contains:
- center punches: 140mm x 10mm, 150mm x 12mm, 170mm x 16mm

Code	Quantity (pcs.)		
31363	3	x	3/24

9 DLETO - RAVNO

• HLADNO KOVANO DLIJETO • HLADNO KOVANO DLIJETO



CrV HRC 55±2

Code	Dimensions (mm)		
31358	150 x 12	x	3/24

1 IZBIJAČ
• IZBIJAČ • IZBIJAČ



CrV | HRC 55±2

Code	Dimensions (mm)		
31352	150 x 4	x	3/24

2 IZBIJAČ
• IZBIJAČ • KLIN ZA CENTRIRANJE



CrV | HRC 55±2

Code	Dimensions (mm)		
31354	140 x 2	x	3/24

3 TOČKALO
• TOČKALO • KLIN ZA CENTRIRANJE



CrV | HRC 55±2

Code	Dimensions (mm)		
31356	100 x 6	x	3/24

4 KLIN ZA CENTRIRANJE
• KLIN ZA CENTRIRANJE • KLIN ZA CENTRIRANJE



CrV | HRC 44±2

- Made from high quality materials, CrV steel
- Clip handle enabling to hang on a garment pocket • Diameter 8 mm • Packed in a blister • For marking stone, metal, metal sheets

Code	Dimensions (mm)		
31385	125 x 8	x	12/96

5 ORODJE ZA OZNAČEVANJE
• ALAT ZA OZNAČAVANJE • ALAT ZA OZNAČAVANJE



- Made from high-quality HM steel, blade from TCT sintered carbide • Rubber blade protection preventing accidental cutting or damage
- Clip handle enabling to hang on a garment pocket • Hexagonal quenched 20HRC handle
- Blade protected with plastic casing
- For marking tiles, stone, glass, steel

Code	Length (mm)		
31382	145	x	24/144

6 SET KLINOV
• SET KLINOVA • SET KLINOVA



- For cutting holes in various materials
- Sets available in the following sizes: **32020:** 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm
- **32021:** 2.0, 2.5, 3.2, 4.0, 4.8, 5.5, 6.4, 8.0, 9.5, 11.1, 12.7, 14.0, 15.8, 19.0, 22.0 mm

Code	Quantity (pcs.)	Diameter (mm)		
32020	9	2.5 - 10.0	x	50
32021	15	2.0 - 22.0	x	16

7 GRADBENA ŽICA
• GRAĐEVINSKA ŽICA • GRAĐEVINSKA ŽICA



- Plastic housing • Quick string winding

Code	Length (m)		
38003	30	x	10/100

8 KREDA OZNAČEVALNA
• PUNJENJA ZA KREDE • GRAĐEVINSKA KREDA



- Plastic dispenser

Code	Volume (ml)	Colour	
42005	115		10/60
42006	115		10/60
42007	225		10/60
42008	225		10/60

9 DRŽALO VAKUMSKO
• VAKUUMSKI DRŽAČ
• VAKUUMSKI DRŽAČ



Ø 120mm | max 80kg

Code	Holder diameter (mm)	Loading (kg)		
32203	2 x 120	80	x	20

10 DRŽALO VAKUMSKO
• VAKUMSKI DRŽAČ • DRŽAČ VAKUMSKI



Ø 120mm | max 40kg

Code	Holder diameter (mm)	Loading (kg)		
32202	120	40	x	12/48

11 REZALNIK STEKLA
• REZAČ STAKLA • REZAČ STAKLA



- 6 sintered carbide discs
- Wooden handle

x6

Code	Number of wheels		
32206	6	x	12/480

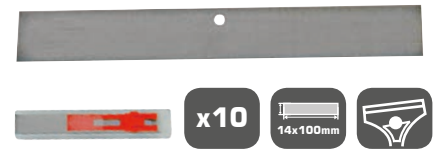
12 STRGALO STEKLA
• STRUGAČ STAKLA • STRUGAČ STAKLA



- Replaceable blade

Code	Length (mm)		
31160	300	x	10/100

13 REZILO ZA STRGALO
• REZERVNE OŠTRICE ZA STRUGAČ STAKLA
• REZERVNE OŠTRICE ZA STRUGAČ STAKLA



x10 | 14x100mm

- 10 blades in a box with a dispenser
- For 31160 scraper

Code	Blade (mm)		
31163	100	x	20/200

14 TOČKE CENTRIRANJA
• KONUSI ZA OZNAČAVANJE
• KONUS ZA OZNAČAVANJE



x4 | Ø 8mm | CENTRE

- Made from high quality materials • Sharp cones for marking • Designed for mapping openings on the fixing surface

Code	Diameter (mm)		
31392	8	x	50/100

1 FLOMASTER MINI MARKER - 4 BARVE

• „MINI" TRAJNI MARKER • „MINI" TRAJNI MARKER



PERMANENT MARKER | MINI

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture • Sold in an 80 pcs jar (38049 and 38043 is one piece)

Code	Colour	Quantity (pcs.)	
38049	black	80	160/960
38043	black, blue, red, green	80	160/960

2 FLOMASTER MINI MARKER - 4 BARVE

• „BULLET" TRAJNI MARKER • „BULLET" TRAJNI MARKER



PERMANENT MARKER | ROUND TIP

- Permanent markers designed for drawing on various surfaces, such as: metal, plastic, wood, concrete • Round tip with a small head for a narrow, clean, and permanent line • Shelf life: 2 years from the date of manufacture • Sold in a 45 pcs jar (38039 and 38033 is one piece)

Code	Colour	Quantity (pcs.)	
38039	black	45	90/720
38033	black, blue, red, green	45	90/720

3 FLOMASTER MINI MARKER - 4 BARVE BLISTER

• „MINI" TRAJNI MARKER • „MINI" TRAJNI MARKER



PERMANENT MARKER | MINI

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38041	black, blue, red, green	4	24/144

4 FLOMASTER MINI MARKER - 3 BARVE BLISTER

• „BULLET" TRAJNI MARKER • „BULLET" TRAJNI MARKER



PERMANENT MARKER | ROUND TIP

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete • Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38031	black, blue,red	3	72/144

5 FLOMASTER MINI MARKER - ČRN

• „BULLET" TRAJNI MARKER • „BULLET" TRAJNI MARKER



PERMANENT MARKER | ROUND TIP

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38032	black	2	24/192

6 SVINČNIK

• OLOVKA • OLOVKE



- Length 24 cm • For various applications: woodworking - white, bricklaying - green, for glass - yellow, for wet surfaces - navy blue

Code	Type	Colour	
38020	bricklaying	■	144/1008
38021	woodworking	■	144/1008
38022	for glass	■	144/1008
38023	for wet surfaces	■	144/1008

7 ŠILČEK

• ŠILJILO • ŠILJALO



- Plastic body • Blade can be sharpened

Code		
38000	x	12/72

8 SVINČNIK TESARSKI

• STOLARSKA OLOVKA
• STOLARSKA OLOVKA



Code	Quantity (pcs.)		
38202	2	x	24/480

9 SVINČNIK TESARSKI

• STOLARSKA OLOVKA
• STOLARSKA OLOVKA



Code	Quantity (pcs.)		
38212	12	x	10/120

10 SVINČNIK TESARSKI

• STOLARSKA OLOVKA
• STOLARSKA OLOVKA



Code	Quantity (pcs.)		
38244	144	x	10

11 SVINČNIK ZIDARSKI

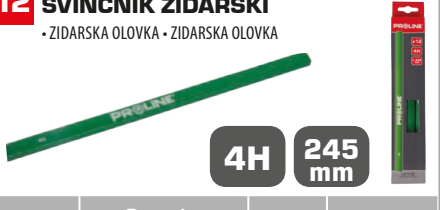
• ZIDARSKA OLOVKA • ZIDARSKA OLOVKA



Code	Quantity (pcs.)		
38102	2	x	24/480

12 SVINČNIK ZIDARSKI

• ZIDARSKA OLOVKA • ZIDARSKA OLOVKA



Code	Quantity (pcs.)		
38112	12	x	10/120

13 SVINČNIK ZIDARSKI

• ZIDARSKA OLOVKA • ZIDARSKE OLOVKE



Code	Quantity (pcs.)		
38144	144	x	10

1 ŠKARJE ZA REZANJE BETONSKEGA ŽELEZA

• ŠKARE ZA REZANJE BETONSKOG ŽELJEZA • ŠKARE ZA REZANJE BETONSKOG ŽELJEZA



CrMo

- Quenched • Jaws made from CrMo steel
- Jaw pressure adjustment • Ergonomic handles

Code	Size (mm)	Max cutting diameter (mm)	
17414	350	6	24
17418	450	7	2/8
17424	600	10	6
17430	750	12	4
17436	900	14	4
17442	1050	16	2

2 ŠKARJE ZA PLOČEVINO

• ŠKARE ZA LIM • ŠKARE ZA LIM



CrMo

- For cutting standard metal sheet, up to 1.5 mm thick • Ergonomic handles from two-component material

Code	Size (mm)	Type		
17381	250	straight line	x	12/36
17382	250	right	x	12/36
17383	250	left	x	12/36

3 ŠKARJE ZA PLOČEVINO

• ŠKARE ZA LIM OFFSET
• ŠKARE ZA LIM OFFSET



CrMo

- Offset jaw • For cutting standard metal sheet, up to 1.2 mm thick • Ergonomic handles

Code	Size (mm)	Type		
17370	240	right/straight line	x	12/36
17371	240	left/straight line	x	12/36

4 ŠKARJE ZA PLOČEVINO

• ŠKARE ZA LIM • ŠKARE ZA LIM



CrV

- For cutting standard metal sheet, up to 1.5 mm thick • Ergonomic handles

Code	Size (mm)	Type		
17375	250	right	x	12/48
17376	250	left	x	12/48
17377	250	straight line	x	12/48

5 ŠKARJE ZA PLOČEVINO

• ŠKARE ZA LIM • ŠKARE ZA LIM



17384 **17385**

CrMo

Code	Size (mm)	Type		
17384	235	short straight line	x	6/48
17385	290	long straight line	x	6/36

6 ŠKARJE ZA PLOČEVINO VERTIKALNE

• VERTIKALNE ŠKARE ZA LIM • VERTIKALNE ŠKARE ZA LIM



17386 **17387**

CrMo 90°

Code	Size (mm)	Type		
17386	220	right	x	6/36
17387	220	left	x	6/36

1 KLEŠČE ZA UPOGIBANJE PLOČEVINE

• KLJEŠTA ZA SAVIJANJE METALNIH PLOČA • KLIJEŠTA ZA SAVIJANJE METALNIH PLOČA



17391

180°



17393

90°



17392

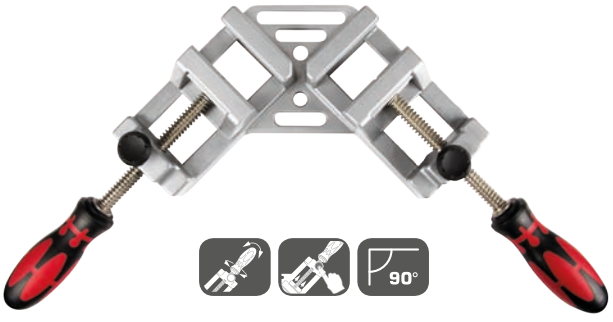
45°

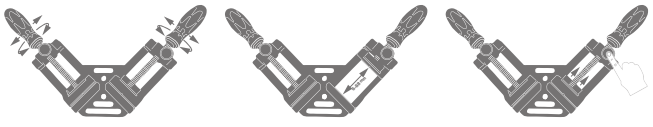
• Jaw opening 60 mm

Code	Size (mm)	
17391	280	10 / 20
17392	280	10 / 20
17393	260	10 / 20

2 KOTNI PRIMEŽ

• KUTNI ŠKRIPAC • KUTNI ŠKRIPAC





• Made from high quality aluminium alloy • Foldable, two-component handles increasing the torque • Buttons in the casing for quick clamp release • Trapezoid thread • Installation aid when bonding bevel joints 90°

Code	Size (mm)	BOX	
31383	68	x	12

3 NAMIZNI PRIMEŽ

• FIKSNI STOLNI ŠKRIPAC • STOLNI ŠKRIPAC

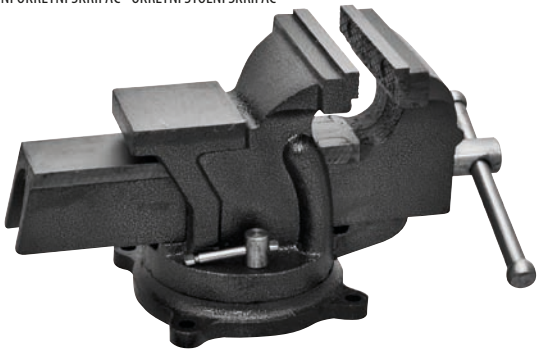


• With an anvil • Fixed base

Code	Jaw opening (mm)	Weight (kg)	BOX	
25507	75	4.0	x	4
25510	100	6.0	x	2
25512	125	8.5	x	2
25515	150	14.5	x	1

4 VRTEČI NAMIZNI PRIMEŽ

• STOLNI OKRETNI ŠKRIPAC • OKRETNI STOLNI ŠKRIPAC



• With an anvil • Revolving base

Code	Jaw opening (mm)	Weight (kg)	BOX	
25610	100	6.5	x	2
25612	125	9.0	x	2
25615	150	16.5	x	1

1 PILA RAVNA ZA KOVINO

• RAVNA TURPIJA ZA METAL • RAVNA TURPIJA ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32134	150	x	6/36
32135	200	x	6/36
32136	250	x	6/36

2 PILA POLKROŽNA ZA KOVINO

• POLUKRUŽNA TURPIJA ZA METAL
• POLUKRUŽNA TURPIJA ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32234	150	x	6/36
32235	200	x	6/36
32236	250	x	6/36

3 PILA TRIKOTNA

• TRIKUTNA TURPIJA ZA METAL • TRIKUTNA TURPIJA ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32244	150	x	6/36
32245	200	x	6/36
32246	250	x	6/36

4 PILA OKROGLA ZA KOVINO

• OKROGLA TURPIJA ZA METAL • OKRUGLE PILE ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32354	150	x	6/36
32355	200	x	6/36
32356	250	x	6/36

5 PILA KVADRATNA ZA KOVINO

• ČETVRTASTA TURPIJA ZA METAL • ČETVRTASTA TURPIJA ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32364	150	x	6/36
32365	200	x	6/36
32366	250	x	6/36

6 SET PIL ZA KOVINO

• SET TURPIJA ZA METAL • SET TURPIJA ZA METAL





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32255	3	x	8

7 SET PIL ZA KOVINO

• SET TURPIJA ZA METAL • SET PILA ZA METAL



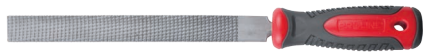


- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32265	5	x	8

8 RAŠPLA RAVNA

• RAVNA RAŠPA • RAVNA RAŠPA





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32932	200	x	6/36

9 RAŠPLA POLKROŽNA

• POLUKRUŽNA RAŠPA • POLUKRUŽNA RAŠPA





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32922	200	x	6/36

10 RAŠPLA OKROGLA

• OKRUGLA RAŠPA • OKRUGLA RAŠPA



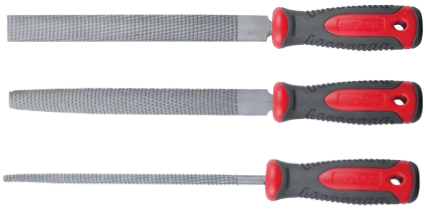


- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32962	200	x	6/36

11 SET RAŠPL

• SET RAŠPI • SET RAŠPI





- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32942	3	x	8

1 SET DIAMANTNIH PIL

• SET DIJAMANTSKIH TURPIJA • KOMPLET DIJAMANTNIH PILA



140 mm



• Plastic handle • In a case

Code	Quantity (pcs.)	Diameter (mm)		
32015	5	4	x	50/100

2 DLETO ZA LES

• DLJETO ZA DRVO • DLJETO ZA DRVO



CrV HRC 60±2

• Steel reinforcement for slogging
• Two-composite, non-slip TPR handle

Code	Blade width (mm)		
19106	6	x	6/24
19108	8	x	6/24
19110	10	x	6/24
19112	12	x	6/24
19114	14	x	6/24
19116	16	x	6/24
19118	18	x	6/24
19120	20	x	6/24
19122	22	x	6/24
19125	25	x	6/24
19132	32	x	6/24
19138	38	x	6/24

3 SET DLET ZA LES

• SET DLIJETA ZA DRVO • SET DLIJETA ZA DRVO



CrV HRC 60±2

• Steel reinforcement for slogging
• Two-composite, non-slip TPR handle

Code	Width (mm)		
19142	6, 12, 20, 25	x	8

4 STRGALO

• STRUGALICA • STRUGALICA



140x40 mm

Code	Length (mm)		
31601	140	x	6 / 60

5 STRGALO

• STRUGALICA • STRUGALICA



250x40 mm

Code	Length (mm)		
31602	250	x	6 / 60

6 STRGALO

• STRUGALICA • STRUGALICA



AL 140x40 mm

Code	Length (mm)		
31611	140	x	10/60

7 STRGALO

• STRUGALICA • STRUGALICA



AL 250x40 mm

• The handle may be blocked in two positions

Code	Length (mm)		
31612	250	x	10/40

8 REZILO ZA STRGALO

• OŠTRICA ZA STRUGALICU • OŠTRICA ZA STRUGALICU



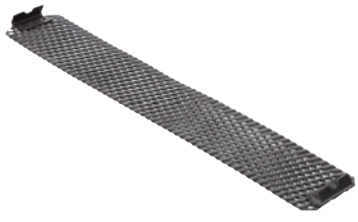
140x40 mm

• Universal dimension fits Proline 31601, 31611 and other scrapers on the market

Code	Weight (g)		
31621	140	x	10/200

9 REZILO ZA STRGALO

• OŠTRICA ZA STRUGALICU • OŠTRICA ZA STRUGALICU



250x40 mm

• Universal dimension fits Proline 31602, 31612 and other scrapers on the market

Code	Length (mm)		
31622	250	x	10/200

1 ŽIČNA ŠČETKA

• ČETKA OD ČELIČNE ŽICE • ČETKE OD ČELIČNE ŽICE



32613 with scraper



32614



32615

STEEL

• Steel wire bristles

Code	Number of rows	Length (mm)		
32613	3 x 19	340	x	6/36
32614	4 x 16	260	x	6/36
32615	5 x 11	180	x	12/72

2 ŽIČNA ŠČETKA - NERJAVEČE JEKLO

• ČETKA ZA ŽICE OD NEHRĐAJUĆEG ČELIKA • ČETKE OD ŽICE OD NEHRĐAJUĆEG ČELIKA



32623 with scraper



32624



32625

STAINLESS STEEL

• Stainless steel bristles

Code	Number of rows	Length (mm)		
32623	3 x 19	340	x	6/36
32624	4 x 16	260	x	6/36
32625	5 x 11	180	x	12/72

3 ŽIČNA ŠČETKA - MEDENINA

• ČETKA OD MESINGANE ŽICE• ČETKE OD MESINGANE ŽICE



32633 with scraper



32634



32635

BRASS

• Brass wire bristles

Code	Number of rows	Length (mm)		
32633	3 x 19	340	x	6/36
32634	4 x 16	260	x	6/36
32635	5 x 11	180	x	12/72

4 ŽIČNA ŠČETKA - NAJLON

• ČETKA OD NAJLONSKE ŽICE • ČETKE OD NAJLONSKE ŽICE



32643 with scraper



32644



32645

NYLON

• Brass wire bristles

Code	Number of rows	Length (mm)		
32643	3 x 19	340	x	6/36
32644	4 x 16	260	x	6/36
32645	5 x 11	180	x	12/72

5 SET ŽIČNIH ŠČETK

• SET ČETKI • SET ČETKI



x3 STAINLESS STEEL BRASS NYLON

• Stainless steel, brass and nylon bristles

Code	Number of rows	Length (mm)		
32603	3 x 7	180	x	12/72

1 HSS NAVOJNI SVEDER

• HSS NAVOJNO SVRDLO • HSS NAVOJNO SVRDLO



DIN 352 HSS

- DIN 352 HSS SW7M, professional quality
- Delivered in sets of 2, no. 1, 2 • Metric standard and fine thread • Supplied in a plastic box

Code	Thread	
67043	M3	50
67044	M4	80
67045	M5	80
67046	M6	50
67048	M8	25
67049	M8 X 1	25
67050	M10	25
67051	M10 X 1	25
67052	M12	25

2 HSS NAVOJNI SVEDER

• NAVOJNO SVRDLO • HSS NAVOJNO SVRDLO



DIN 352 HSS

- DIN 352 HSS SW7M, professional quality
- Delivered in sets of 3, no. 1, 2, 3
- Metric standard thread
- Supplied in a plastic box

Code	Thread	
67023	M3	40
67024	M4	50
67025	M5	50
67026	M6	40
67028	M8	25
67030	M10	15
67032	M12	25

3 HSS NAVOJNA ČELJUST

• HSS MATRICE • HSS MATRICE



DIN EN 352 HSS

- DIN EN 22568 HSS SW7M, professional quality
- Metric standard and fine thread
- Supplied in a round plastic box

Code	Thread	Diameter (mm)	
67123	M3	25	150
67124	M4	25	150
67125	M5	25	150
67126	M6	25	150
67128	M8	25	150
67129	M8 x 1	25	150
67130	M10	25	150
67131	M10 x 1	25	150
67132	M12	25	150

4 SET NAVOJNIH SVEDROV - 21 KOM.

• SET NAVOJNIH SVRDLA - 21 KOM.
• SET NAVOJNIH SVRDALA - 21 KOM.



x21 HSS

• M3, M4, M5, M6, M8, M10, M12 • Each size x3

Code	Quantity (pcs.)	
67221	21	20

5 SET NAVOJNIH SVEDROV IN ČELJUSTI 32 KOM

• 32 SET NAVOJNIH SVRDLA I MATRICA • KOMPLET NAVOJNIH SVRDALA I MATRICA - 32 KOM



x32 HSS

• M3, M4, M5, M6, M8, M10, M12 • Taps, each size x 3 pcs • Tap wrench, die, screwdriver

Code	Quantity (pcs.)	
67232	32	10

6 DRŽALO ZA NAVOJNI SVEDER

• DRŽAČ ZA NAVOJNO SVRDLO • DRŽAČ ZA NAVOJNO SVRDLO



- Supplied in a plastic case with a suspension

Code	Typ	For taps	L (mm)	
67095	NR 0	M1 - M4	125	50
67096	NR 1	M3 - M11	205	50
67097	NR 1.5	M3 - M12	205	40
67098	NR 2	M4,5 - M16	305	40
67099	NR 4	M11 - M27	395	25

7 DRŽALO ZA NAVOJNO ČELJUST

• DRŽAČ ZA NAVOJNE ČELJUSTI • DRŽAČ ZA NAVOJNE ČELJUSTI



- For notches with external dia. 25 mm
- Supplied in a plastic case with a suspension

Code	For notches	
67198	M7 - M9	65

1 POLTEKOČA MAST

• POLUTEKUĆA MAST • POLUTEČNA MAST



-30°C – +130°C

- For greasing rolling bearings, slide bearings, joints and guides • Works with heavy load
- Resistant to cold water washing • Offers protection from corrosion • Plastic syringe-type dispenser

Code	Volume (ml)	
42231	70	12

2 STROJNI VAZELIN

• STROJNI VAZELIN • MAŠINSKI VAZELIN



0°C – +30°C

- Designed for lubricating low-load friction nodes, greasing rubber and leather gaskets, protecting metal parts from corrosion, and as an agent protecting from rubber gasket adhesion and freezing • Plastic syringe-type dispenser

Code	Volume (ml)	
42233	70	12

3 PODMAZOVALNO OLJE

• ULJE ZA PODMAZIVANJE • ULJE ZA PODMAZIVANJE



0°C – +60°C

- For lubricating low-load parts of industrial machines - bearings, guides, mechanical gears, spindles and auxiliary friction nodes, as well as locks, hinges, household appliances
- Plastic syringe-type dispenser

Code	Volume (ml)	
42234	70	12

4 GRAFITNA MAST

• GRAFITNA MAST ZA PODMAZIVANJE • GRAFIT ZA PODMAZIVANJE



-20°C – +50°C

- For lubricating slow-rotating mechanisms and heavily-loaded friction surfaces, drive chains, worm gears, screw threads and as an assembly grease • Resistant to cold water washing • Plastic syringe-type dispenser

Code	Volume (ml)	
42232	70	12

5 KOMPRIMIRAN ZRAK

• KOMPRIMIRANI ZRAK • KOMPRESOVANI VAZDUH







- For blowing: office equipment, small household appliances and similar, whenever we wish to remove dust, volatile dirt and waste, especially in places difficult to reach • Substance: mixture of n-Butane and Propane (%w/w: 40-60) • Class: F+, R12

Code	Volume (ml)	
42304	400	4/24

6 OBEŠANKA

• LOKOT S UŠKOM • KATANAC S UŠKOM



x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code
- Lock cylinder made from brass • Resistant to lock drilling

Code	Length (mm)		
24840	40	x	12/96
24850	50	x	12/96
24860	60	x	12/72

7 KLJUČAVNICE Z UŠESKOM OBEŠANKA

• LOKOT S UŠKOM ZATVORENOG TIPA • KATANAC S UŠKOM ZATVORENOG TIPA



x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code

Code	Length (mm)		
24261	60	x	6/72
24271	70	x	6/72
24281	80	x	6/48
24291	90	x	6/48

8 OBEŠANKA

• LOKOT S UŠKOM • KATANAC S UŠKOM

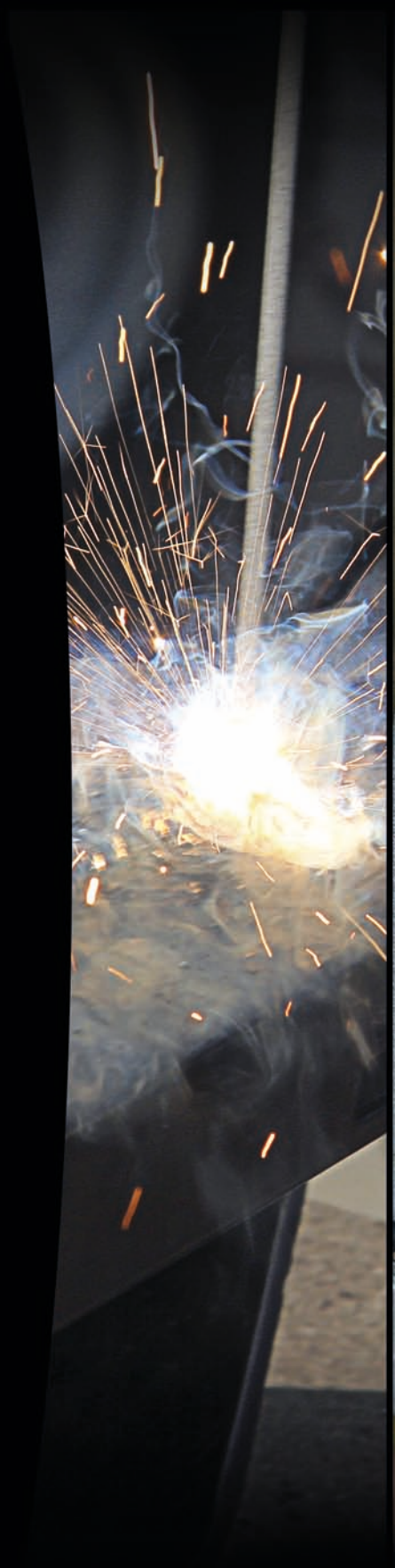


x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code • Lock cylinder made from brass
- Resistant to lock drilling

Code	Length (mm)		
24940	40	x	12/96
24950	50	x	12/96
24960	60	x	12/72

ORODJE ZA SPAJANJE/ ALATI ZA SPAJANJE





gorilniki/plameniki

kabelske vezi/kabelske veze

elektrode/elektrode

lepilne pištole/pištolji za ljepilo

lepila/ljepila

orodje za kovičenje/alati za zakivanje

zakovice/zakovice

spenjači/klamerice

varilci/zavarivači

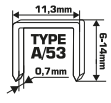
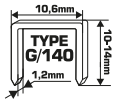
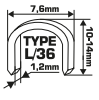
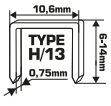
in ostali

1 SPENJAČ - VEČNAMENSKI ALU

- VIŠENAMJENSKA ALUMINIJSKA KLAMERICA
- VIŠENAMJENSKA ALUMINIJSKA HEFTARICA



6in1 AL NO SWITCH PATENT

Staples	Staples PROLINE	L (mm)
	55306	6
	55308	8
	55310	10
	55312	12
	55314	14
	55410	10
	55412	12
	55414	14
	55440	10
	55442	12
	-	-
	-	-
	-	-

- Patented NO SWITCH mechanism (just insert Nails or Staples in the magazine and the stapler is immediately ready for operation, without having to change the mode of operation with a switch) • Up to 6 different types of 6-15 mm nails or staples can be used • Adjustment of punching force for staples • Fast loading of staples from the bottom of the stapler • Lightweight aluminum housing • Includes a set of staples (500 pcs.)

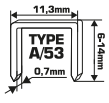
Code	Height (mm)		
55037	6 - 15	x	6/24

2 SPENJAČ - VEČNAMENSKI KOVINSKI

- VIŠENAMJENSKA METALNA KLAMERICA
- VIŠENAMJENSKA METALNA HEFTARICA



3in1

Staples	Staples PROLINE	L (mm)
	55306	6
	55308	8
	55310	10
	55312	12

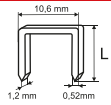
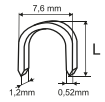
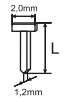
- Metal housing • Equipped with a mechanism enabling three modes of operation

Code	Height (mm)		
55038	6 - 12	x	8/32

3 SPENJAČ - VEČNAMENSKI

- VIŠENAMJENSKA KLAMERICA/SPAJALICA
- VIŠENAMJENSKA HEFTARICA



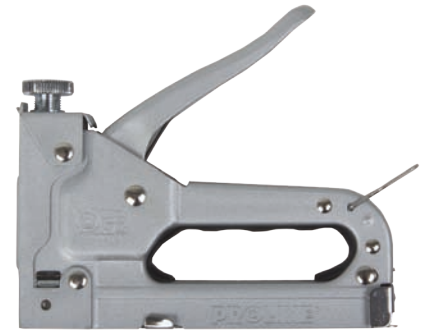
Staples G, E, L	Staples PROLINE	L (mm)
	55406	6
	55408	8
	55410	10
	55412	12
	55414	14
	55440	10
	55442	12
		
	55340	10
	55342	12
	55344	14

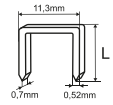
- Adjustable staple puncture force

Code	Height (mm)		
55036	6 - 14	x	12/24

4 SPENJAČ

- KLAMERICA / SPAJALICA
- HEFTARICA/ SPAJALICA



Staples 53	Staples PROLINE	Staples MEGA	L (mm)
	55306	55206	6
	55308	55208	8
	55310	55210	10
	55312	55212	12
	55314	55214	14

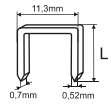
- Adjustable staple puncture force

Code	Height (mm)		
55024	4 - 14	x	20/40

5 SPENJAČ

- KLAMERICA / SPAJALICA
- HEFTARICA

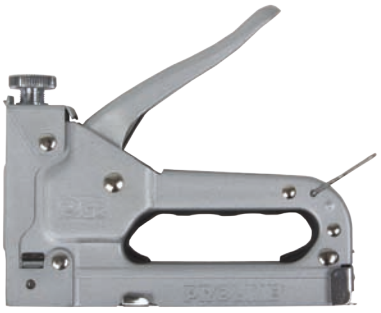


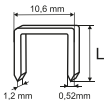
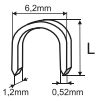
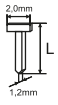
Staples 53	Staples PROLINE	Staples MEGA	L (mm)
	55306	55206	6
	55308	55208	8

Code	Height (mm)		
55028	4 - 8	x	20/40

1 SPENJAČ - VEČNAMENSKI

• VIŠENAMJENSKA KLAMERICA/SPAJALICA
• VIŠENAMJENSKA HEFTARICA



Staples G, S, E	Staples PROLINE	L (mm)
	55406	6
	55408	8
	55410	10
	55412	12
	55414	14
	55330	10
	55332	12
	55340	10
	55342	12
	55344	14

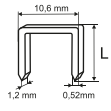
• Adjustable staple puncture force • Delivered with rectangular staples 10 mm - 100 pcs., semi-circular staples 12 mm - 100 pcs., nails 10 mm - 100 pcs.

Code	Height (mm)		
55034	6 - 14	x	12/24

2 KLADIVO ZA SPENJANJE

• ČEKIĆ ZA KLAMANJE • ČEKIĆ ZA HEFTANJE



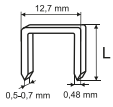
Staples G	Staples PROLINE	L (mm)
	55406	6
	55408	8
	55410	10

Code	Height (mm)		
55040	6 - 10	x	10/20

3 SPENJAČ

• KLAMERICA • HEFTARICA



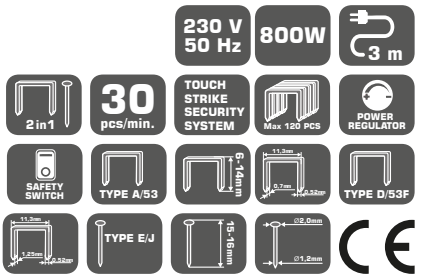
Staples R	Staples PROLINE	L (mm)
	55426	6
	55428	8

Code	Height (mm)		
55042	6 - 8	x	10/40

4 ELEKTRIČNI SPENJAČ

• ELEKTRIČNA KLAMERICA • ELEKTRIČNA HEFTARICA





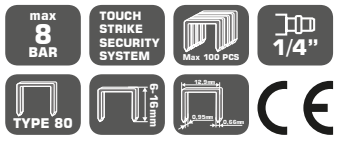
• Adjustable driving force • Protection against unintended discharge • Safety switch
• Construction allowing work in corners
• Matching Staples in Proline's offer 55306-55314

Code	Power (W)	BOX	
55050	800	x	6

5 PNEUMATSKI SPENJAČ

• PNEUMATSKA KLAMERICA • PNEUMATSKA HEFTARICA





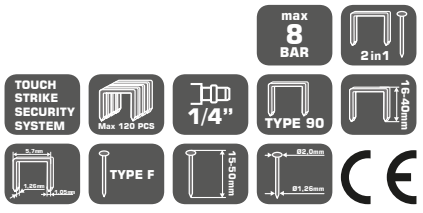
• Protection against unintended discharge
• Adjustable air direction setting • Delivered in a plastic box • Designed for upholstery work • Matching Staples in Proline's offer 55506- 55516

Code	Max air pressure (bar)	
66391	8	10

6 PNEUMATSKI SPENJAČ/ŽEBLJALNIK

• PNEUMATSKA KLAMERICA / ZAKIVAČ • PNEUMATSKA HEFTARICA / ZAKIVAČ





• Protection against unintended discharge
• Adjustable air direction setting • Delivered in a plastic box • Designed for joinery work
• Matching Staples in Proline's offer 55506-55516 • Matching Staples in Proline's offer 55715 - 55750

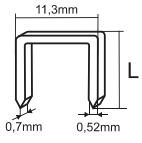
Code	Max air pressure (bar)	
66392	8	10

1 KALJENE SPONKE - TIP "A/53"

- KALJENE SPAJALICE - TIP „A/53"
- KALJENE SPAJALICE - TIP „A/53"



Staples A/53



x1000

55024
55028
55014
55037
55038
55050

- Staple equivalents: - ARROW®JT-21- STANLEY#A/53 - ESCO#530 - KWB#053 - NOVUS#53 - RAPID#53 - ROCAFIX#3

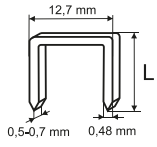
Code	Height (mm)		
55306	6	x	100/200
55308	8	x	100/200
55310	10	x	100/200
55312	12	x	100/200
55314	14	x	100/200

3 KALJENE SPONKE - TIP "R/50"

- KALJENE SPAJALICE - TIP „R/50"
- KALJENE SPAJALICE - TIP „R/50"



Staples R/50



x1000

55042

- Staple equivalents: - - KWB#052- NOVUS#50 - RAPID#140 - ROCAFIX#6 - ESCO#970

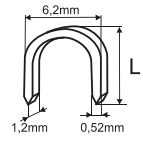
Code	Height (mm)		
55426	6	x	100/200
55428	8	x	100/200

4 KALJENE SPONKE - TIP "S"

- KALJENE SPAJALICE - TIP „S"
- KALJENE SPAJALICE - TIP „S"



Staples S



x1000

55034

- Staple equivalents: - NOVUS#S - RAPID#28 - ROCAFIX#8

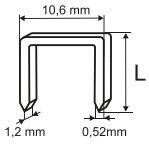
Code	Height (mm)		
55330	10	x	100/200
55332	12	x	100/200

2 KALJENE SPONKE - TIP "G/11"

- KALJENE SPAJALICE - TIP „G/11"
- KALJENE SPAJALICE - TIP „G/11"



Staples G/11



x1000

55034
55036
55040
55037

- Staple equivalents: - ARROW®T-50K - STANLEY G/11 - KWB#057- NOVUS#11- RAPID#140 - ROCAFIX#4

Code	Height (mm)		
55406	6	x	100
55408	8	x	100
55410	10	x	100
55412	12	x	100
55414	14	x	100

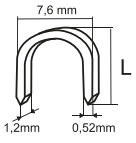


1 KALJENE SPONKE - TIP "L"

- KALJENE SPAJALICE - TIP „L"
- KALJENE SPAJALICE - TIP „L"



Staples L



x1000



- Staple equivalents: - NOVUS#L - RAPID#36 - ROCAFIX#7

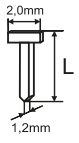
Code	Height (mm)		
55440	10	x	100/200
55442	12	x	100/200

2 KALJENE SPONKE - TIP "E/J"

- KALJENE SPAJALICE - TIP „E/J"
- KALJENE SPAJALICE - TIP „E/J"



Nails E/J



x1000



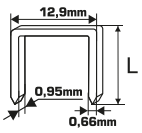
- Nail equivalents: - ESCO#300 - NOVUS#E - ROCAFIX#No8

Code	Height (mm)		
55340	10	x	100/200
55342	12	x	100/200
55344	14	x	100/200

3 KALJENE SPONKE - TIP "80"

- KALJENE SPAJALICE - TIP „80"
- KALJENE SPAJALICE - TIP „80"

Staples 80





x1000



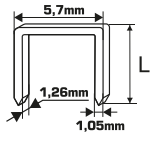
- Dedicated for pneumatic staplers

Code	Height (mm)		
55506	6	x	200
55508	8	x	200
55510	10	x	100
55512	12	x	100
55514	14	x	100
55516	16	x	100

4 KALJENE SPONKE - TIP "90"

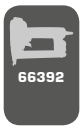
- KALJENE SPAJALICE - TIP „90"
- KALJENE SPAJALICE - TIP „90"

Staples 90





x1000



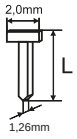
- Dedicated for pneumatic staplers

Code	Height (mm)		
55616	16	x	72
55619	19	x	72
55622	22	x	60
55625	25	x	48
55628	28	x	48
55632	32	x	36
55638	38	x	36
55640	40	x	36

5 KALJENE SPONKE - TIP "F"

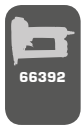
- KALJENE SPAJALICE - TIP „F"
- KALJENE SPAJALICE - TIP „F"

Nails F





x1000



- Dedicated for pneumatic staplers

Code	Height (mm)		
55715	15	x	150
55720	20	x	120
55725	25	x	100
55730	30	x	80
55735	35	x	70
55740	40	x	60
55745	45	x	60
55750	50	x	50

1 KLEŠČE ZA KOVIČENJE

• KLJEŠTA ZA ZAKIVANJE
• KLIJEŠTA ZA ZAKIVANJE

Al · STEEL · HRC 55±2 · x4 · 2,4 mm · 3,2 mm · 4,0 mm · 4,8 mm



• For blind rivets made from aluminium and steel • Quenched head parts extend riveter lifecycle

Code		
14007	x	12/24

2 KLEŠČE ZA KOVIČENJE Z VRTLJIVO GLAVO

• KLJEŠTA ZA ZAKIVANJE SA OKRETNOM GLAVOM • KLIJEŠTA ZA ZAKIVANJE SA OKRETNOM GLAVOM

360° · Cu · Al · HRC 35±2 · x4 · 2,4 mm · 3,2 mm · 4,0 mm · 4,8 mm





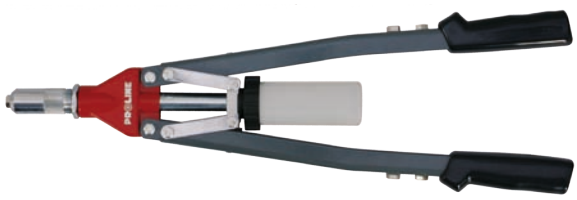
• Revolving head facilitating work in places difficult to reach • For copper and iron rivets dia. 2.4 mm and 3.2 mm and for aluminium rivets dia. 2.4 mm, 3.2 mm, 4.0 mm and 4.8 mm • Quenched head parts extend riveter lifecycle

Code		
14010	x	6/24

3 DOLGE KLEŠČE ZA KOVIČENJE

• DUGA KLIJEŠTA ZA ZAKIVANJE • KLIJEŠTA ZA ZAKIVANJE S PRODUŽENOM GLAVOM

540 mm · Cu · Al · STAINLESS STEEL · STEEL · CrV · x5 · 3,2 mm · 4,0 mm · 4,8 mm · 6,0 mm · 6,4 mm



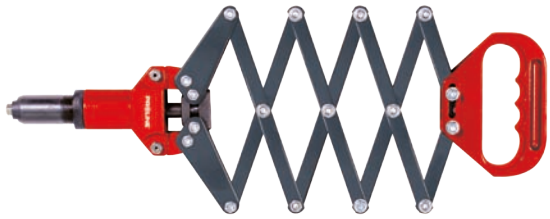
• For rivets made from steel, stainless steel, copper and aluminium

Code	Length (mm)	
14008	540	10

4 DOLGE KLEŠČE ZA KOVIČENJE

• DUGA KLIJEŠTA ZA ZAKIVANJE • DUGA KLIJEŠTA ZA ZAKIVANJ

840 mm · Al · x4 · 2,4 mm · 3,2 mm · 4,0 mm · 4,8 mm



• For aluminium rivets

Code	Length (mm)	
14006	840	12

5 KLEŠČE ZA KOVIČENJE SLEPIH MATIC

• SET ZA PIŠTOLJ ZA POSTAVLJANJE ZAKOVICA • SET ZA PIŠTOLJ ZA POSTAVLJANJE ZAKOVICA



M3 · M4 · M5 · M6 · 200 mm · x4

• Four adapter sets for every size of rivet nut, a wrench and basic set of 10 rivet nuts of every size • For compressing threaded bushings in thin walls while fastening them

Code	For rivet nuts	Quantity of rivet nuts (pcs.)	
14011	M3, M4, M5, M6	40	10

6 KOMPLET ORODIJ ZA PRITRDITEV ZAKOVIC

• SET ZA PIŠTOLJ ZA POSTAVLJANJE ZAKOVICA • SET ZA PIŠTOLJ ZA POSTAVLJANJE ZAKOVICA



M3 · M4 · M5 · M6 · M8 · M10 · M12 · x7 · 410 mm

• Seven adapter sets for every size of rivet nut, a wrench, and basic set of 10 rivet nuts of every size • For compressing threaded bushings in thin walls while fastening them

Code	For rivet nuts	
14012	M3, M4, M5, M6, M8, M10, M12	5

7 MATICA Z NOTRANJIM NAVOJEM

• ZAKOVICE • ZAKOVICE

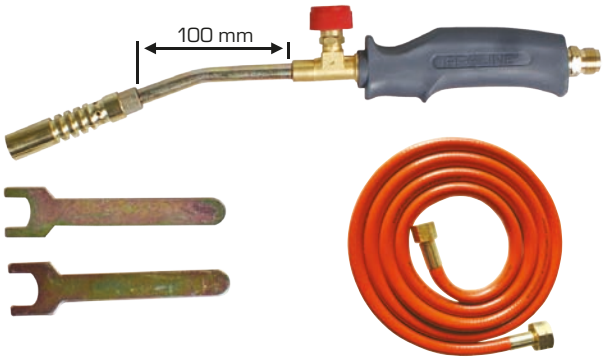


• Material: steel • Supplied in a plastic bag of 20 items

Code	Type	Quantity (pcs.)	Max thickness of joined materials (mm)	Length (mm)	Rivet nut Ø (mm)	Drill Ø (mm)	
59711	M3	20	2.0	9	4.9	5.0	100/400
59712	M4	20	2.0	11	5.9	6.0	100/400
59713	M5	20	2.5	13	6.9	7.0	60/240
59714	M6	20	3.0	15	8.8	9.0	36/144
59715	M8	20	3.5	18	10.8	11.0	25/100
59716	M10	20	3.5	21	12.8	13.0	16/64
59717	M12	20	3.5	22	14.8	15.0	12/48

1 GORILNIK ZA SPAJKANJE

• PLAMENIK ZA ZAVARIVANJE • PLAMENIK ZA ZAVARIVANJE



17 mm | 1850°C | 4,5 kW | 0,32 kg/h LPG | 2m | x2

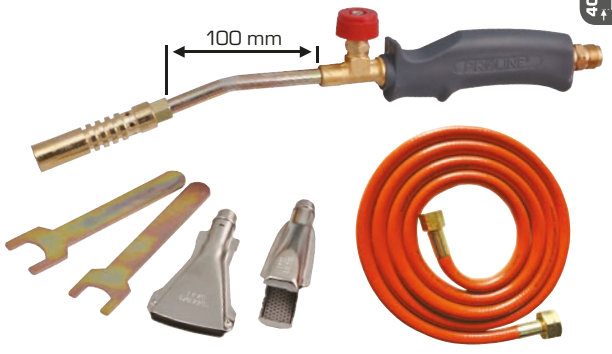


- LPG-supplied
- Pin-point flame (propane butane)
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60040	6/18

2 GORILNIK ZA SPAJKANJE

• PLAMENIK ZA ZAVARIVANJE • PLAMENIK ZA ZAVARIVANJE



40 mm | 22 mm | 17 mm | 1850°C | 4,5 kW | 0,32 kg/h LPG | 2m | x2

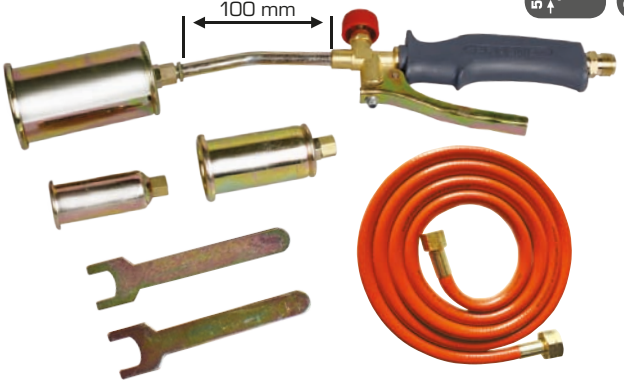


- LPG-supplied (propane butane)
- With three nozzles with flame:
  - pin-point
  - surrounding
  - flat
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60041	6/12

3 GORILNIK

• PLAMENIK
• PLAMENIK



50 mm | 35 mm | 25 mm | 1850°C | 50 kW | 3,57 kg/h LPG | 2m | x2



- LPG-supplied (propane butane)
- With three nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60042	8

4 NASTAVEK ZA PLINSKI GORILNIK

• DODATAK ZA PLAMENIK • DODATAK ZA PLAMENIK



22 mm

- Surrounding flame

Code	For burners	
	60040	50
60045	60041	50
	60042	50

5 NASTAVEK ZA PLINSKI GORILNIK

• DODATAK ZA PLAMENIK • DODATAK ZA PLAMENIK



40 mm

- Flat flame

Code	For burners	
	60040	50
60046	60041	50
	60042	50

6 NASTAVEK ZA PLINSKI GORILNIK

• DODATAK ZA PLAMENIK • DODATAK ZA PLAMENIK



35 mm

- Distributed flame

Code	For burners	
60047	60042	50

7 NASTAVEK ZA PLINSKI GORILNIK

• DODATAK ZA PLAMENIK • DODATAK ZA PLAMENIK



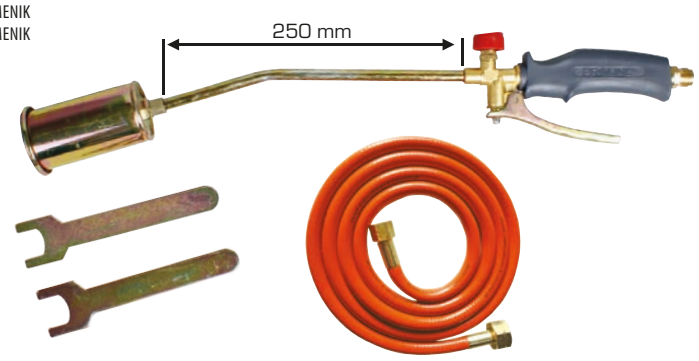
17 mm

- Pin-point flame

Code	For burners	
	60040	50
60048	60041	50

1 GORILNIK

• PLAMENIK
• PLAMENIK



50 mm | 1400°C | 28 kW | 2 kg/h LPG | 2m | x2



- LPG-supplied (propane butane)
- Distributed flame
- Hose meets the requirements of EN 16436-1

Code	
60050	6/12

2 GORILNIK

• KROVNI PLAMENIK • PLAMENIK



60 mm | 1850°C | 42,5 kW | 3,12 kg/h LPG | 5m | x2



- LPG-supplied (propane butane)
- Distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60051	8

3 GORILNIK Z DVOJNIM NASTAVKOM

• PLAMENIK S DVOSTRUKIM NASTAVKOM • PLAMENIK S DVOSTRUKIM NASTAVKOM



60 mm x2 | 1850°C | 85 kW | 6,24 kg/h LPG | 5m | x2



- LPG-supplied (propane butane)
- With a support (see the photo)
- With 2 nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60052	8

4 GORILNIK S TROJNIM NASTAVKOM

• PLAMENIK S TROSTRUKIM NASTAVKOM • PLAMENIK S TROSTRUKIM NASTAVKOM



50 mm x3 | 1850°C | 99 kW | 6,90 kg/h LPG | 5m | x2

- LPG-supplied (propane butane)
- With a support (see the photo)
- With 3 nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60053	6

1 ŽICA ZA MEHKO SPAJKANJE

• ŽICA ZA MEKO LEMLJENJE • ŽICA ZA MEKO ZAVARIVANJE





S-Sn60 Pb40 2,5%

- Sn60 Pb40 soldering wire 2.5%
- Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Length (m)	Diameter (mm)		
60324	3 x 3	1	x	200

2 ŽICA ZA MEHKO SPAJKANJE

• ŽICA ZA MEKO ZAVARIVANJE • ŽICA ZA MEKO ZAVARIVANJE



S-Sn60 Pb40 2,5%

- Sn60 Pb40 soldering wire 2.5%
- Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Length (m)	Diameter (mm)	
60332	3	1	100

3 ŽICA ZA MEHKO SPAJKANJE

• ŽICA ZA MEKO ZAVARIVANJE • ŽICA ZA MEKO ZAVARIVANJE



S-Sn60 Pb40 2,5%

- Sn60 Pb40 soldering wire 2.5% • Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Weight (g)	Diameter (mm)		
60320	100	0.56	x	100
60321	100	0.7	x	100
60322	100	1	x	100
60323	100	1.5	x	100
60325	100	0.56	-	60
60326	100	0.7	-	60
60327	100	1	-	60
60328	100	1.5	-	60
60329	100	2	-	60
60330	100	2.5	-	60
60331	100	3	-	60

4 MIKRO GORILNIK

• MIKRO BAKLJA • MIKRO BAKLJA



PIEZO | 1300°C | 28ml PROPAN-BUTAN | 60-70 min.

- Easy loading of lighter gas

Code	Volume (ml)		
60034	28	x	10/20

5 SET PLINSKIH GORILNIKOV 7 KOM

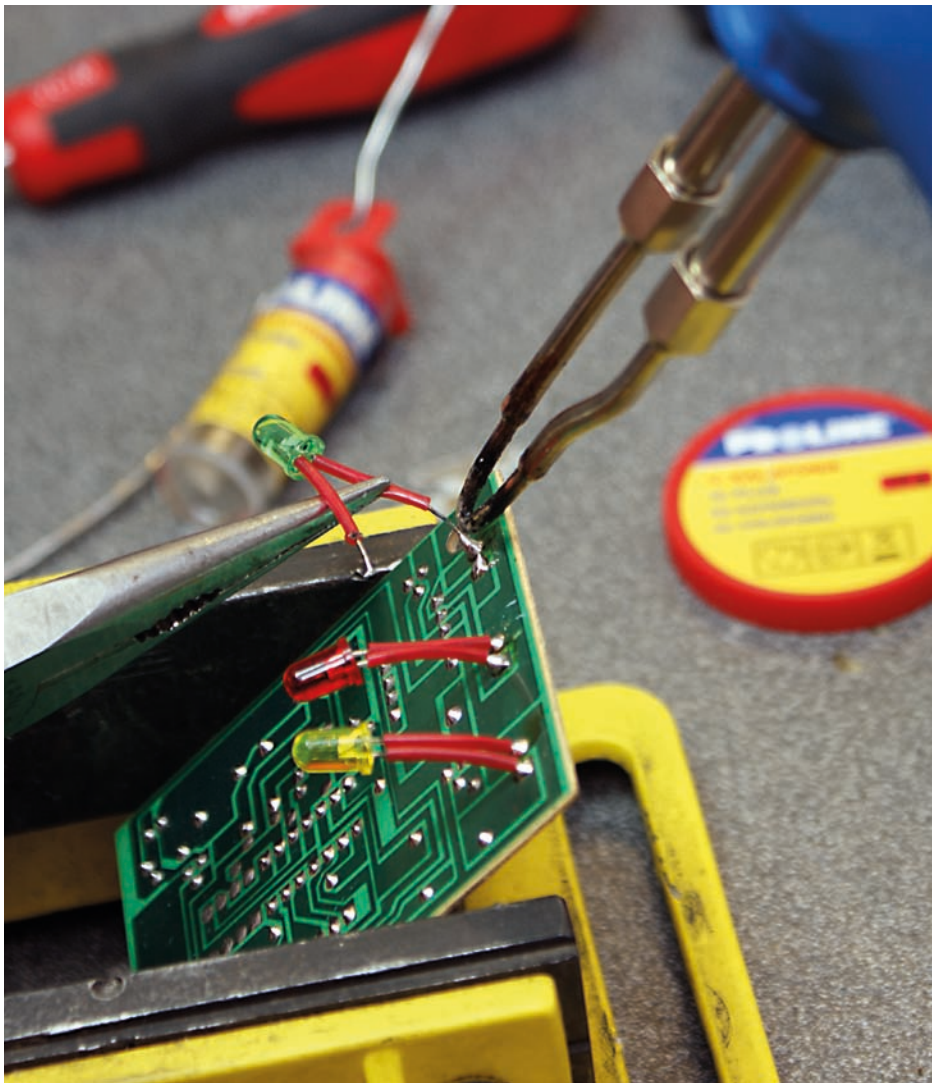
- SET PLINSKIH PLAMENIKA 7 KOM.
- SET PLINSKIH PLAMENKA 7 KOM.



1300°C | 13ml PROPAN-BUTAN | 60min.

- Easy loading of lighter gas
- The set includes: burner, soldering tips - 3 pcs (soldering tip temperature 200 - 450 °C), blade tip - temperature 350OC, soldering head, solder, tip cleaning container

Code	Volume (ml)	
60037	13	20



1 PIŠTOLA ZA LEPILO

• PIŠTOLJ ZA LJEPILO • PIŠTOLJ ZA LJEPILO



110-240 V 50 Hz | 230 V 50 Hz | Ø 11,2mm | 12 W (72 W) | CE

Code	Glue Ø (mm)		
42911	11.2	x	12/24

2 PIŠTOLA ZA LEPILO

• PIŠTOLJ ZA LJEPILO • PIŠTOLJ ZA LJEPILO



110-240 V 50 Hz | Ø 11,2mm | 25 W (78 W) | CE

Code	Glue Ø (mm)		
42912	11.2	x	12/24

3 PIŠTOLA ZA LEPILO

• PIŠTOLJ ZA LJEPILO • PIŠTOLJ ZA LJEPILO



230 V 50 Hz | Ø 11,2mm | 20 W (200 W) | CE

Code	Glue Ø (mm)		
42916	11.2	x	12/24

4 BREZŽIČNA PIŠTOLA ZA LEPILO

• BEŽIČNI PIŠTOLJ ZA LJEPILO • BEŽIČNI PIŠTOLJ ZA LJEPILO



230 V 50 Hz | Ø 11,2mm | 35 W (400W) | CE

Code	Glue Ø (mm)		
42917	11.2	x	12

5 PIŠTOLA ZA LEPILO S STIKALOM ZA VKLOP/IZKLOP

• PIŠTOLJ ZA LJEPILO S PREKIDAČEM ZA UKLJUČIVANJE/ISKLJUČIVANJE
• PIŠTOLJ ZA LJEPILO S PREKIDAČEM ZA UKLJUČIVANJE/ISKLJUČIVANJE





230 V 50 Hz | Ø 11,2mm | 28 W (180W) | CE

- The switch enables to switch the gun off without unplugging

Code	Glue Ø (mm)		
42915	11.2	x	6/12

6 LEPILNE PALICE

• ŠIPKE ZA LJEPILO • ŠIPKE ZA LJEPILO



- For glue guns • Transparent • Hot-melt
- Designation: general use, when binding plastic, fabrics, metal, cables, etc.

Code	Ø (mm)	L (mm)	Quantity (pcs.)	Weight (kg)	
42901	11.2	200	50	1	20

7 LEPILNE PALICE

• ŠIPKE ZA LJEPILO • ŠIPKE ZA LJEPILO



42903



42918

- For glue guns • Transparent • Hot-melt
- Designation: general use, when binding plastic, fabrics, metal, cables

Code	Ø (mm)	L (mm)	Quantity (pcs.)		
42902	11.2	200	12	x	25/50
42903	11.2	100	6	x	50/200
42905	11.2	250	12	x	25/50
42904	8	100	12	x	50/200
42918	8	50	12	x	50/200

TEHNOLOGIJA IZMENJEVALNE NAPRAVE ZA VARJENJE



PROCES MMA



TRANSFORMATORSKI VS. INVERTORSKI VARILNIK

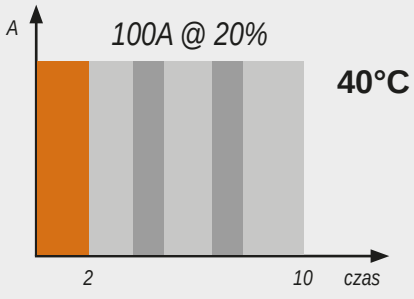
	INVERTERSKI VARILNIK	TRANSFORMATORSKI VARILNIK
Dimenzije in teža	✳✳✳✳	✳✳
stabilnost toka	✳✳✳✳✳	✳✳
poraba energije	✳✳✳✳✳	✳✳
vrsta uporabljenih elektrod	✳✳✳✳	✳
kontrola kakovosti varjenja	✳✳✳✳✳	✳
splošni parametri	✳✳✳✳✳	✳✳
✳ = pozitivna ocena		

MMA LASTNOSTI

PREDNOSTI	POMANJKLJIVOSTI
• zelo praktično	• omejene zmogljivosi
• znatni prihranek	• odstranjevanje ostankov od varjenja
• brez plinskih cilindrov	
• varjenje v vseh položajih	

UČINKOVITOST

Učinkovitost je število minut v 10 minutnem obdobju, v katerem lahko varilec deluje neprekinjeno. Učinkovitost naprave, navedene v katalogu, se meri pri 40 °C.





DODATNE FUNKCIJE

■ ARC FORCE (MOČ OBLOKA)

Funkcija skrajša oblok, dokler se varilni tok povečuje. To olajša zagon obloka, ko se pričenja variti in za vzdrževanje varjenja. S tem se optimizira prenos kapljic iz elektrode na delovno mesto, s čimer se prepreči izstop obloka, ko pride elektroda v stik z delovnim mestom. Na voljo je samo pri izmenjevalnih varilnikih.

■ HOT START (VROČI START)

Funkcija poveča varilni tok, ko se prižge oblok za ogrevanje materiala in elektrode. Funkcija optimizira procesne parametre. Na voljo je v transformatorskem in izmenjevalnem varilniku.

■ ANTI-STICK (PROTI LEPLJENJU)

Funkcija omejuje varilni tok tako, da preprečuje, da bi se elektroda med vžigom obloka zalepila na material med vklopom obloka in se zagreje, ko se zlepi. Uporabna funkcija za neizkušene varilce. Na voljo je samo pri izmenjevalnih varilnikih.

POVPREČNO VARJENJE (A)

	VRSTA ELEKTRODE						
VRSTA ELEKTRODE	1,6	2	2,5	3,25	4	5	6
ELEKTRIČNI DIAMETER	30-55	40-70	50-100	80-130	120-70	150-250	220-370
RUTIL	50-75	60-100	70-120	110-150	140-200	190-260	250-320
CELULOZA	20-45	30-60	40-80	70-120	100-150	140-230	200-300

VARILNIKI VS TIP ELEKTRODE

OSNOVNE ELEKTRODE	RUTILNA ELEKTRODA	CELULOZNA ELEKTRODA	ELEKTRODE ZA NERJAVNO JEKLO
optimalna čistost materiala	lahek vžig	Zasnovana za MMA varjenje cevi in razdalj (globoko in „lepljivo" varjenje), kjer se zahteva neprepustnost na plin, vodo in vse vrste tekočin pod tlakom	Zasnovan je za varjenje nerjavnega jekla MMA
varjenje v vseh položajih	stabilen oblok		
visoka mehanska kvaliteta varjenja	dobra estetika in gladko varjenje		
	nizki stroški		
	enostavno shranjevanje		
DC INVERTER	DC INVERTER AC TRANSFORMATOR		

TEHNOLOGIJA IZMJENJIVAČKOG UREĐAJA ZA ZAVARIVANJE



TRANSFORMATORSKI VS IZMJENJIVAČKI UREĐAJ

	UREĐAJ ZA	ZAVARIVANJE
dimenzije i težina	✳✳✳✳	✳✳
stabilnost struje	✳✳✳✳✳	✳✳
potrošnja energije	✳✳✳✳✳	✳✳
tip korištenih elektroda	✳✳✳✳	✳
kontrola kvalitete zavarivanja	✳✳✳✳✳	✳
opći parametri	✳✳✳✳✳	✳✳
✳ = pozitivna ocjena		

MMA PROCES

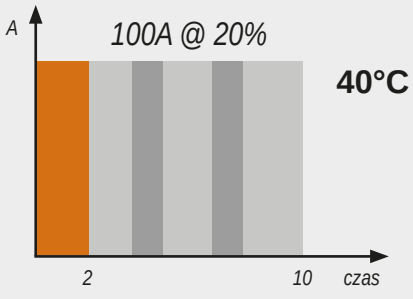


MMA SVOJSTVA

PREDNOSTI	NEDOSTACI
• vrlo praktičan	• ograničene performanse
• značajna ušteda	• uklanjanje ostataka od zavarivanja
• bez plinskih cilindara	
• zavarivanje u svim položajima	

UČINKOVITOST

Učinkovitost je broj minuta u razdoblju od 10 minuta tijekom kojeg zavarivač može raditi kontinuirano. Učinkovitost uređaja navedena u katalogu mjeri se na 40° C





DODATNE FUNKCIJE

■ ARC FORCE (SNAGA LUKA)

Funkcija skraćuje luk dok se struja zavarivanja povećava. To olakšava pokretanje luka prilikom početka zavarivanja i održavanja varenja. Time se optimizira prijenos kapljica s elektrode na radno mjesto, sprječavajući izlazak luka kada elektroda dođe u kontakt s radnim mjestom. Dostupan je samo u izmjenjivačkim zavarivačima.

■ HOT START (VRUĆI START)

Funkcija povećava struju zavarivanja kada se luk pali kako bi zagrijao materijal i elektrodu. Funkcija optimizira procesne parametre. Dostupan je u izmjenjivačkim i transformatorskim zavarivačima.

■ ANTI-STICK (PROTIV LIJEPLJENJA)

Funkcija ograničava struju zavarivanja sprječavanjem da se elektroda zalijepi za materijal koji se cijepa tijekom paljenja luka i zagrijava kada se zalijepi. Korisna funkcija za neiskusne zavarivače. Dostupan je samo u izmjenjivačkim zavarivačima.

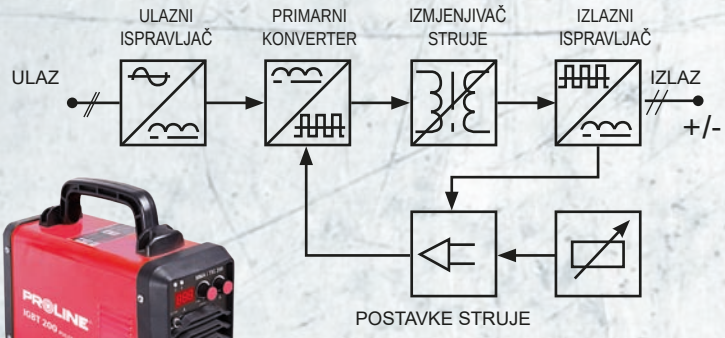
PROSJEČNO ZAVARIVANJE (A)

	PROMJER ELEKTRODE						
VRSTA ELEKTRODE	1,6	2	2,5	3,25	4	5	6
RUTIL	30-55	40-70	50-100	80-130	120-70	150-250	220-370
OSNOVA	50-75	60-100	70-120	110-150	140-200	190-260	250-320
CELULOZA	20-45	30-60	40-80	70-120	100-150	140-230	200-300

ZAVARIVAČI VS TIP ELEKTRODE

OSNOVNE ELEKTRODE	RUTILNA ELEKTRODA	CELULOZNA ELEKTRODA	ELEKTRODE ZA NEHRĐAJUĆI ČELIK
optimalna čistoća materijala	lako paljenje	Dizajnirano za MMA zavarivanje cijevi i zazora (duboko i „ljepljivo" zavarivanje) gdje se zahtijeva nepropusnost za plinsku vodu i sve vrste tekućina pod tlakom.	Dizajniran za MMA zavarivanje nehrđajućeg čelika
zavarivanje u svim položajima	stabilan luk		
visoka mehanička kvaliteta zavarivanja	dobra estetika i glatko zavarivanje		
	niski troškovi		
	jednostavno skladištenje		
DC INVERTER	AC TRANSFORMATOR CELULOZNA ELEKTRODA		

TEHNOLOGIJA IZMJENJIVAČKOG UREĐAJA ZA ZAVARIVANJE



TRANSFORMATORSKI VS IZMJENJIVAČKI

	UREĐAJ ZA	ZAVARIVANJE
dimenzije i težina	✳✳✳✳	✳✳
stabilnost struje	✳✳✳✳✳	✳✳
potrošnja energije	✳✳✳✳✳	✳✳
tip korištenih elektroda	✳✳✳✳	✳
kontrola kvaliteta zavarivanja	✳✳✳✳✳	✳
opšti parametri	✳✳✳✳✳	✳✳
✳ = pozitivna ocjena		

MMA PROCES

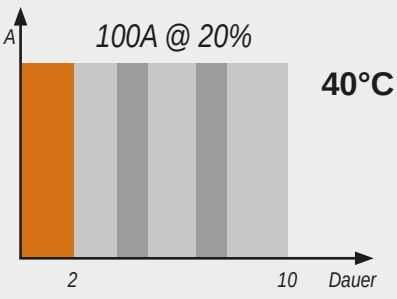


MMA SVOJSTVA

PREDNOSTI	NEDOSTACI
• vrlo praktičan	• ograničene performanse
• značajna ušteda	• uklanjanje ostataka od zavarivanja
• bez plinskih cilindara	
• zavarivanje u svim položajima	

DJELOTVORNOST

Djelotvornost je broj minuta u razdoblju od 10 minuta tokom kojeg zavarivač može raditi kontinuirano. Djelotvornost uređaja navedena u katalogu mjeri se na 40° C





DODATNE FUNKCIJE

■ RC FORCE (SNAGA LUKA)

Funkcija skraćuje luk dok se struja zavarivanja povećava. To olakšava pokretanje luka na početku zavarivanja i održavanja varenja. Time se optimizira prenos kapljica s elektrode na radno mjesto, sprečavajući izlazak luka kada elektroda dođe u kontakt s radnim mjestom. Dostupan je samo u izmjenjivačkim zavarivačima.

■ HOT START (VRUĆI START)

Funkcija povećava struju zavarivanja kada se luk pali, kako bi zagrijao materijal i elektrodu. Funkcija optimizira procesne parametre. Dostupan je u izmjenjivačkim i transformatorskim zavarivačima.

■ ANTI-STICK (PROTIV LIJEPLJENJA)

Funkcija ograničava struju zavarivanja sprečavanjem da se elektroda zalijepi za materijal koji se cijepa tokom paljenja luka i zagrijava kada se zalijepi. Korisna funkcija za neiskusne zavarivače. Dostupan je samo u izmjenjivačkim zavarivačima.

PROSJEČNO ZAVARIVANJE (A)

	PREČNIK ELEKTRODE						
VRSTA ELEKTRODE	1,6	2	2,5	3,25	4	5	6
RUTIL	30-55	40-70	50-100	80-130	120-70	150-250	220-370
OSNOVA	50-75	60-100	70-120	110-150	140-200	190-260	250-320
CELLULOSE	20-45	30-60	40-80	70-120	100-150	140-230	200-300

ZAVARIVAČI VS TIP ELEKTRODE

VRSTA ELEKTRODE	DC INVERTER RUTILNA ELEKTRODA	CELULOZNA ELEKTRODA	ELEKTRODE ZA NEHRĐAJUĆI ČELIK
optimalna čistoća materijala	lako paljenje	Dizajnirano za MMA zavarivanje cijevi i zazora (duboko i "ljepljivo" zavarivanje) gdje se zahtijeva nepropusnost za paru i sve vrste tekućina pod pritiskom	Dizajniran za MMA zavarivanje nehrđajućeg čelika
zavarivanje u svim položajima	stabilan luk		
visok mehanički kvalitet zavarivanja	dobra estetika i glatko zavarivanje		
	niski troškovi		
	jednostavno spremanje		
DC-WANDLER	DC INVERTER AC TRANSFORMATOR		

1 MMA INVERTERSKI VARILNIK

• MMA UREĐAJ ZA ZAVARIVANJE
• MMA UREĐAJ ZA VARENJE



230 V 50 Hz | MMA | ARC FORCE | HOT START | ANTI STICK | Ø1.6 - 4MM | kg 3,5 | CE

• Inverter welding machines MMA200, MMA160 Technology IGTB • Functios: 'Hot start", ‚Anti stick", ‚Arc force" • Unloaded nominal voltage of –82 V
• Work cycle -30% • Efficiency -85% • Fan cooled • Recommended electrode diameter 1.6–4 mm • Insulation class - H • Level of security 21S • Thermal protection • Equipment: 1.8 m cable with a 200A electrode holder and 1.2 m cable with a 200 A ground clamp • Weight 5,1 kg

Code	Output current range (A)	Rated output power (kVA)	
42940	20 - 150	5,7	1
42941	20 - 170	6,6	1

2 MMA/TIG INVERTERSKI VARILNIK

• MMA/TIG UREĐAJ ZA ZAVARIVANJE
• MMA / TIG UREĐAJ ZA VARENJE



230 V 50 Hz | MMA TIG | TIG PULSE | Ø1.6 - 4MM | TIG | kg 7,1 | CE

• Inverter welding machine MMA/TIG 200 • Technology IGTB • Funkction: ‚TIG PULSE" • Unloaded nominal voltage of -60 V • Work cycle -60% @200A • Efficiency -85% • Cooling with a fan • Recommended electrode diameter: TIG nonconsumable electrode – 1.6–4 mm, MMA electrode – 1.6–4 mm
• Insulation class - H • Level of security 21S • Thermal protection
• Equipment: Electricity and gas TIG cable, 3 m, TIG ceramic nozzles, 3 pcs (5,6,7), TIG sleeve clamp, 3 pcs. (1.6 mm, 2 mm, 2.4 mm), nonconsumable TIG electrode, 1 pc (1.6X150 mm) • 1.8 m MMA cable with a 200 A electrode holder, 1.2 m MMA cable with a 200 A ground clamp • Weight 7,1 kg

Code	Output current range (A)	Rated output power (kVA)	
42942	20 - 170	8	1

3 KLEŠČE ZA VARJENJE TIP "C"

• KLIJEŠTA ZA ZAVARIRAVNJE TIPA „C" • KLIJEŠTA ZA VARENJE TIP C



CrV | HRC 42±2

• Adjustable force and clamp clearance • Nickel plated • Movable anvil

Code	Length (mm)	Max. width (mm)	
28252	280	86	6/24

5 KLEŠČE ZA VARJENJE TIP "U"

• KLIJEŠTA ZA ZAVARIVANJE TIPA „U" • KLIJEŠTA ZA VARENJE TIP U



CrV | HRC 42±2

• Adjustable force and clamp clearance • Nickel plated

Code	Length (mm)	Max. width (mm)	
28251	225	41	6/24

4 KLEŠČE ZA VARJENJE TIP "C"

• KLIJEŠTA ZA ZAVARIVANJE TIPA „C" • KLIJEŠTA ZA VARENJE TIP C



CrV | HRC 42±2

• Adjustable force and clamp clearance • Nickel plated • Non novable anvil

Code	Length (mm)	Max. width (mm)	
28253	280	86	6/24

6 KLEŠČE ZA VARJENJE

• KLJEŠTA ZA ZAVARIVANJE • SPOJNICE ZA ZAVARIVANJE



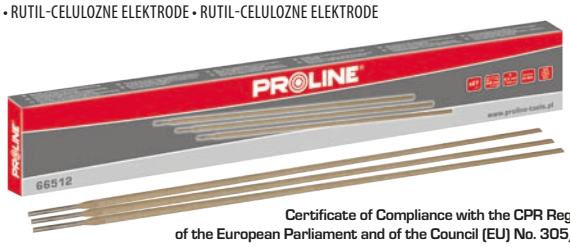
CrV | HRC 42±2

• Adjustable clamping force and jaw distance • Nickel plated

Code	Length (mm)	Max. width (mm)	
28250	200	13	6/24

1 RUTIL-CELULOZNE ELEKTRODE

• RUTIL-CELULOZNE ELEKTRODE • RUTIL-CELULOZNE ELEKTRODE



Certificate of Compliance with the CPR Regulation of the European Parliament and of the Council (EU) No. 305/2011. Issued by the Building Research Institute (Instytut Techniki Budowlanej)



- Coated rutile and cellulosic electrode for welding low-carbon steel
- PROLINE electrodes are not sensitive to the quality of edge preparation, presence of corrosion, varnish or other impurities on the welded surface
- The electrodes are packed in double plastic film protection to prevent their humidification • Emission of hazardous substances during welded 28% lower • Tensile strength at least 450 N/mm²

Code	Diameter (mm)	Packaging weight (kg)	
66511	2.0	0.50	40
66514	3.2	0.50	40
66517	2.5	1.00	20
66519	3.2	1.00	20
66522	2.5	2.50	1
66524	3.2	2.50	1
66525	4.0	2.50	1

2 DRŽALO ELEKTROD

• DRŽAČ ELEKTRODA • NOSAČI ELEKTRODA



Code	Max currant (A)	Diameter (mm)	
66900	160	1.6 - 4.0	25
66901	200	2.5 - 5.0	25
66902	315	2.5 - 6.3	25
66903	400	3.5 - 6.3	25

3 SPONA ZA VARJENJE

• SPOJNICA ZA ZAVARIVANJE • SPOJNICE ZA ZAVARIVANJE



Code	Max currant (A)	Cable (mm²)	
66910	150	25 - 35	25
66911	300	50 - 70	25
66912	400	70 - 95	25

4 SPONE ZA VARJENJE

• SPOJNICA ZA ZAVARIVANJE • SPOJNICA ZA ZAVARIVANJE



Code	Max currant (A)	Cable (mm²)	
66920	160	25 - 35	25
66921	315	50 - 70	25
66922	520	70 - 95	25



5 ŽICA ZA VARJENJE

• ŽICA ZA ZAVARIVANJE • ŽICA ZA ZAVARIVANJE



- Wire G G3Si1 (SG2) • Plastic spool
- 66047 - metal spool

Code	Diameter (mm)	Packaging weight (kg)	
66040	0.6	1	18
66041	0.8	1	18
66042	1.0	1	18
66043	1.2	1	1
66045	0.8	5	1
66046	0.8	15	1
66047	1.0	15	1
66048	1.2	15	1

6 NAJLONSKE VEZICE ZA KABLE

PA 100 % UV RESIST

• NAJLONSKE VEZICE ZA KABEL • NAJLONSKE VEZICE ZA KABLOVE





- Made from high quality nylon • Resistant to UV rays • Smooth, rounded tie edges, protecting cables from abrasion • Available white and black • Single-use only • Useful temperatures from -20°C to +50°C • Narrowed ending section facilitating tie clamping

Code	Length (mm)	Width (mm)		
	WHITE			
59110B	100	2.5	x	250/500
59120B	200	2.5	x	125/250
59130B	300	3.6	x	65/130
59121B	200	4.8	x	75/150
59131B	300	4.8	x	50/100
59140B	400	4.8	x	40/80
	BLACK			
59110C	100	2.5	x	250/500
59120C	200	2.5	x	125/250
59130C	300	3.6	x	65/130
59121C	200	4.8	x	75/150
59131C	300	4.8	x	50/100
59140C	400	4.8	x	40/80

SHRANJEVANJE ORODJA/ POHRANA ALATA





nahrbtniki/torbe

oranizatorji/organizatori

torbe za orodje/torbe za alat

pasovi za orodje/pojasne torbe

škatle za orodje/kutije za alat

1 KOVČEK ZA ORODJE Z ALUMINIJASTO KLJUČAVNICO

• KUTIJA ZA ALAT S ALUMINIJSKOM BRAVOM • KUTIJA ZA ALAT SA ALUMINIJUMSKOM BRAVOM



• Made of high quality materials • Cover with two built organizers • Robust and ergonomic handle • Internal tray holder • Strong closing • Dedicated for the workshop and home use • Suitable for storage of small and bigger elements • Metal pins in hinges (22" and 25") • **35716 with one buckle**

Code	Dimension (mm)	Dimension (cale)	
35716	398 x 200 x 186	16"	1
35718	458 x 257 x 227	18"	1
35722	550 x 267 x 270	22"	1
35725	597 x 285 x 320	25"	1

2 KOVČEK ZA ORODJE

• KUTIJA ZA ALAT • KUTIJA ZA ALAT



• Made of high quality materials • Cover with two built organizers • Robust and ergonomic handle • Internal tray holder • Strong closing • Dedicated for the workshop and home use • Suitable for storage of small and bigger elements • Model 35737 with a single buckle

Code	Dimension (mm)	Dimension (cale)	
35737	398 x 200 x 186	16"	1
35738	458 x 257 x 227	18"	1
35739	550 x 267 x 270	22"	1
35740	597 x 285 x 320	25"	1

3 KOVČEK ZA ORODJE Z ALUMINIJASTIM OKVIRJEM

PROLINE HD

• KUTIJA ZA ALAT SA ALUMINIJSKIM OVIROM
• KUTIJA ZA ALAT SA ALUMINIJUMSKIM OKVIROM



• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume

Code	Dimension (mm)	Dimension (cale)	
35748	458 x 257 x 245	18"	1

4 KOVČEK ZA ORODJE Z ALUMINIJASTIM OKVIRJEM

PROLINE HD

• KUTIJA ZA ALAT SA ALUMINIJSKIM OVIROM
• KUTIJA ZA ALAT SA ALUMINIJUMSKIM OKVIROM



• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume • Metal pins in hinges

Code	Dimension (mm)	Dimension (cale)	
35752	550 x 267 x 277	22"	1

5 KOVČEK ZA ORODJE Z ALUMINIJASTIM OKVIRJEM

PROLINE HD

• KUTIJA ZA ALAT S ALUMINIJSKIM OKVIROM
• KUTIJA ZA ALAT SA ALUMINIJUMSKIM OKVIROM



• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume • Metal pins in hinges

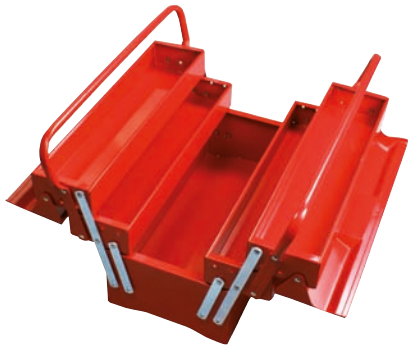
Code	Dimension (mm)	Dimension (cale)	
35755	598 x 286 x 327	25"	1



PROLINE

1 KOVINSKI KOVČEK

- METALNA KUTIJA ZA ALAT
- METALNA KUTIJA ZA ALAT



Code	Dimension (mm)	Number of parts	
33403	404 x 200 x 240	3	1
33405	404 x 200 x 290	5	1

2 KOVINSKI KOVČEK ZA ORODJE

- METALNA KUTIJA ZA ALAT
- METALNA KUTIJA ZA ALAT



Code	Dimension (mm)	Number of parts	
33553	550 x 200 x 157	3	1
33555	550 x 200 x 208	5	1

3 ORGANIZATOR

- ORGANIZATOR • ORGANIZATORI



- Made from high quality materials • Inner compartments arranging the organiser interior • Strong locks • Perfect in the workshop and at home • Good for petty and larger objects

Code	Dimension (mm)	Number of compartments	
35700	35 x 90 x 180	6	120
35701	35 x 160 x 200	5	60

4 ORGANIZATOR

- ORGANIZATOR • ORGANIZATOR



- Made from high quality materials • Inner compartments arranging the organiser interior • Strong locks • Perfect in the workshop and at home • Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35726	245 x 150 x 85	5	38
35727	295 x 195 x 85	5	24
35728	359 x 238 x 85	6	18
35729	400 x 298 x 85	6	12

5 ORGANIZATOR

PROLINE HD

- ORGANIZATOR • ORGANIZATOR



PP

- Made from high quality materials • System of compartments to arrange the organiser interior • Cover with appropriate shape, combined with interior compartments, prevents object dislocation • Strong locks
- Perfect in the workshop and at home
- Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35702	35 x 155 x 195	11	48
35703	35 x 195 x 290	21	60
35704	65 x 290 x 390	15	10
35710	65 x 390 x 490	18	6

6 ORGANIZATOR

- ORGANIZATOR • ORGANIZATOR

PROLINE HD



PP

- Made from high quality materials • System of removable, colourful compartments to arrange the organiser interior • Strong locks • Perfect in the workshop and at home
- Good for petty and larger objects • Handle for carrying and transport • Hooks on the back side for mounting on walls

Code	Dimension (mm)	Number of compartments	
35744	50 x 303 x 390	21	1

7 ORGANIZATOR

PROLINE HD

- ORGANIZATOR • ORGANIZATOR



PP

- Made from high quality materials • System of compartments to arrange the organiser interior • Cover with appropriate shape, combined with interior compartments, prevents object dislocation • Strong locks
- Perfect in the workshop and at home • Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35706	130 x 290 x 390	30	5

8 ORGANIZATOR

- ORGANIZATOR • ORGANIZATOR

PROLINE HD



PP

- Made from high quality materials • Strong locks • Perfect in the workshop and at home
- Good for petty and larger objects • Handle for carrying and transport • Hooks on the back side for mounting on walls

Code	Dimension (mm)	Number of drawers	
35741	260 x 200 x 400	6	1
35743	392 x 200 x 400	9	1

1 ODPRTA TORBA ZA ORODJE

• OTVORENA TORBA ZA ALAT • OTVORENA TORBA ZA ALAT



- 30 pockets (5 inside, 13 outside, 12 pockets for drills and bits)
- Reinforced and stiffened
- Steel handle with soft rubber
- Soft, comfortable, adjustable shoulder strap

x30 | 600 D POLYESTER | HEAVY DUTY

Please note: the bag is sold without tools

Code	Dimension (mm)	
62149	500 x 230 x 280	4

2 TORBA S KOLESCI IN ROČICO NA IZVLAČENJE

• TORBA S KOTAČIMA S RUČKOM NA IZVLAČENJE • TORBA SA TOČKIĆIMA I RUČKOM NA IZVLAČENJE



- 28 pockets (11 inside, 17 outside) • 2 wheels
- Retractable handle • Soft, comfortable, adjustable shoulder strap • Soft, comfortable handle
- Bag with a zip fastener

x28 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62151	510 x 290 x 360	6

3 TORBA ZA ORODJE

• TORBA ZA ALAT
• TORBA ZA ALAT



- 25 pockets (15 inside, 10 outside)
- Soft, comfortable, adjustable shoulder strap
- The soft, comfortable handle
- Bag with a zip fastener

x25 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62161	610 x 270 x 400	6

4 TORBA ZA ORODJE

• TORBA ZA ALAT
• TORBA ZA ALAT



- 49 pockets (10 inside, 39 outside)
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x49 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62150	500 x 270 x 340	6

5 TORBA ZA ORODJE NA OSNOVI GUME

• TORBA S GUMENIM DNOM ZA OSNOVNI ALAT
• TORBA S GUMENIM DNOM ZA OSNOVNI ALAT



- 20 pockets (11 inside, 9 outside) plus 8 elastic strips plus one handle
- Waterproof rubber bag base, resistant to any mechanical damage, even in low temperatures
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

Please note: the bag is sold without tools

RUBBER | x20 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62138	380 x 260 x 320	12

6 TORBA ZA ORODJE

• TORBA ZA ALAT
• TORBA ZA ALAT



- 16 pockets (6 inside, 10 outside)
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x16 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62141	410 x 230 x 300	12

7 TORBA ZA ORODJE

• TORBA ZA ALAT
• TORBA ZA ALAT



- 30 pockets (13 inside, 17 outside) plus spirit level holder
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x30 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62146	460 x 280 x 300	12

1 NAHRBTNIK ZA ORODJE

• RUKSAK ZA ALAT
• RUKSAK ZA ALAT



x29 | 600 D POLYESTER | HEAVY DUTY

• 29 pockets (20 inside, 9 outside) • Soft, comfortable, adjustable shoulder straps
• 1 snap hook • Comfortable rubber handle
• The backpack has 2 separate compartments, each with a zip fastener

Please note: the backpack is sold without tools

Code	Dimensions (mm)	
62100	330 x 160 x 430	12

2 TELOVNIK ZA ORODJE

• PRSLUK ZA ALAT • PRSLUK ZA ALAT



x8 | 600 D POLYESTER | HEAVY DUTY

• 8 pockets, 7 elastic belts for precision screwdrivers, 1 hammer holder, 1 snap hook
• Fully adjustable to any size

Please note: the jacket is sold without tools

Code	Dimensions (mm)	
52070	510 x 600	12

3 ZLOŽLJIVI STOL

• SKLOPIVA STOLICA • SKLOPIVA STOLICA



600 D POLYESTER | HEAVY DUTY | max 90kg

• Steel structure • Wide scope of application, e.g. workshop works, fishing, mushroom picking, gardening, tourism

Code	Load (kg)	
62142	90	12

4 PAS ZA ORODJE

• TORBICA ZA ALAT S POJASOM • TORBICA ZA ALAT S REMENOM



x7 | 600 D POLYESTER | HEAVY DUTY

• Belt fully adjustable to 117 cm
• 7 pockets, 5 holders, 1 snap hook

Please note: the pouch is sold without tools

Code	
52067	48

5 TORBA ZA ORODJE

• TORBA ZA ALAT • TORBA ZA ALAT



x11 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket, 10 smaller pockets
• Perfect for hand tools, nails, drills, bits

Please note: the pouch is sold without tools

Code	
52062	48

6 TORBA ZA ORODJE IN DRŽALOM ZA KLADIVO

• TORBICA ZA ALAT S DRŽAČEM ZA ČEKIĆE
• TORBICA ZA ALAT S DRŽAČEM ZA ČEKIĆE



x1 | 600 D POLYESTER | HEAVY DUTY

• Stainless steel handle

Please note: the pouch is sold without tools

Code	
52061	96

7 TORBA ZA ORODJE

• TORBA ZA ALAT • TORBA ZA ALAT



x8 | 600 D POLYESTER | HEAVY DUTY

• 2 large pockets plus 6 smaller ones, 3 holders for hammers and pliers

Please note: the pouch is sold without tools

Code	
52068	40

8 TORBA ZA ORODJE

• TORBA ZA ALAT • TORBA ZA ALAT



x1 | 600 D POLYESTER | HEAVY DUTY

• Perfect for hand tools, nails, drills, bits

Please note: the pouch is sold without tools

Code	
52063	96

9 NOSILEC ZA VRTALNIK

• NOSAČ ZA BUŠILICU • NOSAČ ZA BUŠILICU



x15 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket and 14 smaller pockets for drills, bits

Please note: the pouch is sold without tools

Code	
52066	24/48

10 NOSILEC VRTALNIKA

• NOSAČ ZA BUŠILICU • NOSAČ ZA BUŠILICU



x5 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket and 4 smaller pockets for drills, bits

Please note: the pouch is sold without tools

Code	
52064	96

PROLINE

1 PAS ZA ORODJE

• POJAS ZA ALAT SA DŽEPOVIMA
• POJAS ZA ALAT SA DŽEPOVIMA

x16 | 600 D POLYESTER | HEAVY DUTY

• Adjustable leather belt from 75 cm to 113 cm • 16 pockets, hammer holder and measuring tape holder



Code	
52016	8

Please note: the pouches on the belt are sold without tools

2 PAS ZA ORODJE

• POJAS ZA ALAT SA DŽEPOVIMA
• POJAS ZA ALAT SA DŽEPOVIMA

x21 | NYLON | HEAVY DUTY

• Adjustable leather belt from 80 cm to 115 cm • 21 pockets, 4 holders • Leather belt reinforcement



Code	
52012	8

Please note: the pouches on the belt are sold without tools

3 PAS ZA ORODJE

• POJAS ZA ALAT SA DŽEPOVIMA • POJAS ZA ALAT SA DŽEPOVIMA

x20 | 600 D POLYESTER | HEAVY DUTY

• Belt fully adjustable from 82 cm to 112 cm
• 20 pockets, 2 hammer holders plus 1 measuring tape holder



Code	
52020	24

Please note: the pouches on the belt are sold without tools

4 USNJENI PAS

• KOŽNI POJAS • KOŽNI POJAS



• Leather belt reinforcement
• Adjustable from 75 to 113 cm

600 D POLYESTER | HEAVY DUTY

Code	
52040	24

5 USNJENI PAS

• KOŽNI POJAS • KOŽNI POJAS



• Leather belt reinforcement
• Adjustable leather belt from 80 cm to 115 cm

NYLON | HEAVY DUTY

Code	
52041	24

6 PAS ZA ORODJE

• POJAS ZA ALAT • POJAS ZA ALAT



• Adjustable from 75 to 129 cm

600 D POLYESTER | HEAVY DUTY

Code	
52042	100

7 POVEZOVALNI TRAKOVI

• TRAKE ZA PRIČVRŠĆIVANJE
• TRAKE ZA PRIČVRŠĆIVANJE

EN 12195-2 | PES



• Two-element tie down straps wyh ratchet mechanism
• MATERIAL: polyester • Mixed colours

Code	Length (m)	LC (load carrying)		Strap width (mm)	
		Straight hanging (daN)	Wrapping around (daN)		
46750	4	250	500	25	30
46751	6	250	500	25	30
46752	8	250	500	25	25
46760	4	1000	2000	35	10
46761	6	1000	2000	35	10
46762	8	1000	2000	35	10
46770	4	2500	5000	50	10
46771	6	2500	5000	50	10
46772	8	2500	5000	50	10
46773	10	2500	5000	50	8

VRTNO ORODJE IN PRIPOMOČKI/ VRTNI ALAT I DODATCI





vreče/vreće

podaljški za kable/produžni kabli

vrtne cevi/vrtne cevi

konektorji za cevi/konektori za cevi

škarje/škare

grablje/okretači

vile/vile

vrtne pištole/ vrtni pištolji

hitri konekotrji/brzi konektorji

škropilniki/prskalice

1 VRTNA CEV

• VRTNO CRIJEVO • VRTNO CRIJEVO



- 4-layer flexible PVC hose • Working pressure 8 bar • Burst pressure of 24 bar • Temperature range -10°C to +60°C • UV and algae resistant
- Cadmium, barium, lead, and phthalate free

Code	Dimensions	Length (m)	
99412	1/2"	20	1
99413	1/2"	30	1
99415	1/2"	50	1
99422	5/8"	20	1
99423	5/8"	30	1
99425	5/8"	50	1
99432	3/4"	20	1
99433	3/4"	30	1
99435	3/4"	50	1
99442	1"	20	1
99443	1"	30	1
99445	1"	50	1

2 VRTNA CEV

• VRTNO CRIJEVO • VRTNO CRIJEVO



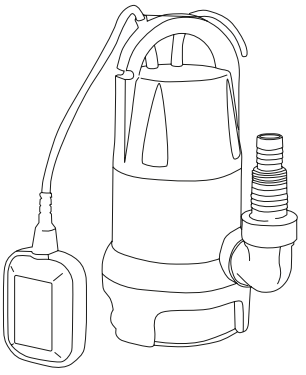
- Double durability 4-layer flexible PVC hose with additives improving lowtemperature flexibility, resistant to bending and twisting • Working pressure 10 bar • Burst pressure of 30 bar • Temperature range -25°C to +60°C • UV and algae resistant • Cadmium, barium, lead, and phthalate free

Code	Dimensions	Length (m)	
99612	1/2"	20	1
99613	1/2"	30	1
99615	1/2"	50	1
99622	5/8"	20	1
99623	5/8"	30	1
99625	5/8"	50	1
99632	3/4"	20	1
99633	3/4"	30	1
99635	3/4"	50	1
99642	1"	20	1
99643	1"	30	1
99645	1"	50	1

3 VRTNA CEV ZA POTOPNE ČRPALKE

• CRIJEVO ZA POTOPNU PUMPU • CRIJEVO ZA POTOPNU PUMPU



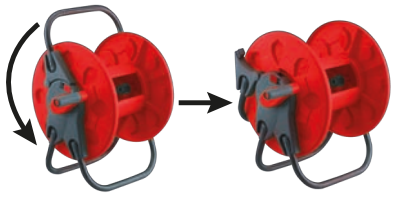


- Professional pump delivery hose

Code	Dimensions	Length (m)	
99001	1"	10	1

1 STOJALO ZA VRTNO CEV

• STALAK ZA VRTNO CRIJEVO • STALAK ZA VRTNO CRIJEVO





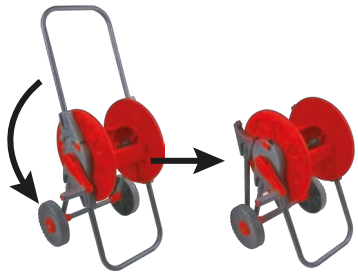
ABS PP METAL

• Easy installation without tools • Collapsible handle makes storage easier

Code	Length	
99391	45 m x 1/2" • 25 m x 3/4"	5
99392	60 m x 1/2" • 40 m x 3/4"	5

2 VOZIČEK ZA VRTNO CEV

• KOLICA ZA VRTNO CRIJEVO • KOLICA ZA VRTNO CRIJEVO





METAL ABS PP

• Easy installation without tools • Collapsible handle makes storage easier

Code	Length	
99393	45 m x 1/2" • 25 m x 3/4"	5
99394	60 m x 1/2" • 40 m x 3/4"	5



1 NASTAVEK ZA CEV

• NASTAVAK ZA CRIJEVO • NASTAVAK ZA CRIJEVO



99200
99204

99500 (30 pcs.)
99504 (30 pcs.)

99201
99205

1/2" 3/4" ABS PP

Code	Dimensions	Packaging	
99200	1/2"	BULK	30/180
99201	1/2"	CARD	50/200
99500	1/2"	BOX	6
99204	3/4"	BULK	30/180
99205	3/4"	CARD	50/200
99504	3/4"	BOX	6

2 ŽENSKI NASTAVEK ZA PIPO

• ŽENSKI NASTAVAK ZA PIPU • ŽENSKI PRIKLJUČAK ZA ČESME S NAVOJIMA



99208
99210
99212

99209
99211
99213

99508 (30 pcs.)
99510 (30 pcs.)
99512 (30 pcs.)

1/2" 3/4" 1" ABS

Code	Dimensions	Packaging	
99208	1/2"	BULK	30/180
99209	1/2"	CARD	50/200
99508	1/2"	BOX	6
99210	3/4"	BULK	30/180
99211	3/4"	CARD	50/200
99510	3/4"	BOX	6
99212	1"	BULK	30/180
99213	1"	CARD	50/200
99512	1"	BOX	6



3 NASTAVEK ZA CEV Z BLOKADO ZA CEVI Z BLOKADO

• NASTAVAK ZA CRIJEVA S BLOKADOM
• NASTAVAK ZA CRIJEVA S BLOKADOM



99202
99206

99502 (30 pcs.)
99506 (30 pcs.)

99203
99207

1/2" 3/4" AUTO STOP ABS PP

Code	Dimensions	Packaging	
99202	1/2"	BULK	30/180
99203	1/2"	CARD	50/200
99502	1/2"	BOX	6
99206	3/4"	BULK	30/180
99207	3/4"	CARD	50/200
99506	3/4"	BOX	6



4 MOŠKI NASTAVEK ZA PIPO

• MUŠKI NASTAVAK ZA PIPU • MUŠKI NASTAVAK ZA PIPU



99214

99514 (30 pcs.)

99215

3/4" ABS

Code	Dimensions	Packaging	
99214	3/4"	BULK	30/180
99215	3/4"	CARD	50/200
99514	3/4"	BOX	6

5 DVOJNI KONEKTOR ZA CEVI

• KONEKTOR ZA CIJEVI • DUPLI KONEKTOR ZA CIJEVI



99218

99518 (30 pcs.)

99219

ABS

• Connector for 2 hoses using quick connections

Code	Packaging	
99218	BULK	30/180
99219	CARD	50/200
99518	BOX	6

6 TROJNI KONEKTOR ZA CEVI

• KONEKTOR ZA CIJEVI • TROJNI KONEKTOR ZA CIJEVI



99216

99516 (pcs.)

99217

ABS

• Connector for 3 hose endings using quick connections

Code	Packaging	
99216	BULK	30/180
99217	CARD	50/200
99516	BOX	6

1 KONEKTOR ZA CEV

• KONEKTOR ZA CIJEV • KONEKTOR ZA CIJEV



99220
99222



99520 (30 pcs.)
99522 (30 pcs.)





99221
99223

1/2" 3/4" ABS PP

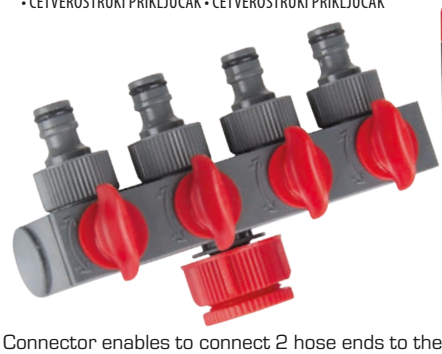
• Mender for permanent connection of 2 hose ends

Code	Dimensions	Packaging	
99220	1/2"	BULK	30/180
99221	1/2"	CARD	50/200
99520	1/2"	BOX	6
99222	3/4"	BULK	30/180
99223	3/4"	CARD	50/200
99522	3/4"	BOX	6



3 RAZDELILNIK CEVI - 4 IZHODI

• ČETVEROSTRUKI PRIKLJUČAK • ČETVEROSTRUKI PRIKLJUČAK





3/4" 1" ABS PP

• Connector enables to connect 2 hose ends to the water intake by means of quick connections • Each connection has adjustable water flow

Code		
99241	x	6/36

5 AVTOMATSKI ŠTEVEC

• AUTOMATSKI BROJAČ • MEHANIČKI BROJAČ ZALIJEVANJA





3/4" 1" ABS PP 0-2 h

• Timer with automatic switch • Manual watering time setting to max. 2h

Code		
99245	x	12/24

2 KONEKTOR ZA CEV ŽENSKI NAVOJ

• KONEKTOR ZA CIJEV ŽENSKI NAVOJ • KONEKTOR ZA CIJEV ŽENSKI NAVOJ



99230
99232



99231
99233



99530 (30 pcs.)
99532 (30 pcs.)



3/4" 1" 3/4" 1/2" ABS

Code	Dimensions	Packaging	
99230	3/4" - 1"	BULK	30/180
99231	3/4" - 1"	CARD	50/200
99530	3/4" - 1"	BOX	6
99232	1/2" - 3/4"	BULK	30/180
99233	1/2" - 3/4"	CARD	50/200
99532	1/2" - 3/4"	BOX	6

4 RAZDELILNIK CEVI - 2 IZHODA

• DVOSTRUKI PRIKLJUČAK • DVOSTRUKI PRIKLJUČAK





3/4" 1" ABS PP

• Connector enables to connect 2 hose ends to the water intake by means of quick connections • Each connection has adjustable water flow

Code		
99243	x	24/144

6 BRIZGALKA

• RAZPRŠIVAČ • RAVNI RASPRŠIVAČ

99300



99301





99600 (25 pcs.)



ABS PP

• Point and cone-shaped stream - smooth adjustment

Code	Packaging	
99300	BULK	25/150
99301	CARD	12/48
99600	BOX	6

1 BRIZGALNA PIŠTOLA

- PIŠTOLJI ZA RAVNO PRSKANJE
- PIŠTOLJ ZA RAVNO RASPRŠIVANJE



99303



99302

99602
(6 szt)

ABS PP

- Permanent operation lock • Smooth control of water jet from a strong point one to a delicate mist

Code	Packaging	
99302	BULK	6/36
99303	CARD	12/48
99602	BOX	6

2 BRIZGALNA PIŠTOLA - 9 FUNKCIJ

- PIŠTOLJ ZA RAZPRŠIVANJE - 9 FUNKCIJA • PIŠTOLJ ZA RAVNO RASPRŠIVANJE S 9 FUNKCIJA





99305

99304



99604
(4 pcs.)

ABS PP

- Permanent operation lock • Incremental water jet control in 9 different positions

Code	Packaging	
99304	BULK	4/24
99305	CARD	12/48
99604	BOX	6

3 PRŠILKA ZA ZALIVANJE - VRTLJIVA 120°

- VENTILATORSKA MLAZNICA ZA PRSKANJE 120°, OKRETNA
- VENTILATORSKA MLAZNICA ZA PRSKANJE 120°, OKRETNA





ABS PP

- Adjustment of head inclination • Push button switch

Code		
99307	x	12/48



5 BRIZGALNA PIŠTOLA - KOVINSKA

- PIŠTOLJ ZA RAZPRŠIVANJE - METALNI
- PIŠTOLJ ZA RASPRŠIVANJE, 9 FUNKCIJA, METALNO TIJELO



ABS METAL

- Permanent operation lock • Incremental water jet control in 9 different positions

Code		
99311	x	12/48

7 PRŠILKA

- PRSKALICA DELUXE 11
- PRSKALICA DELUXE 111



METAL ABS PP

- Permanent operation lock • Stream force control

Code		
99315	x	6/24

4 BRIZGALNA PIŠTOLA - 6 FUNKCIJ, VRTLJIVA

- PIŠTOLJ ZA RASPRŠIVANJE - 6 FUNKCIJA
- PIŠTOLJ ZA RASPRŠIVANJE, 6 FUNKCIJA, OKRETNI



ABS PP

- Adjustment of head inclination • Incremental water jet control in 6 different positions
- Push button switch

Code		
99309	x	24

6 BRIZGALNA PIŠTOLA

- PIŠTOLJ • PIŠTOLJ



METAL BRASS ABS PP

- Point and cone-shaped stream - smooth adjustment • Permanent operation lock

Code		
99313	x	12/48

8 BRIZGALNA PIŠTOLA - 9 FUNKCIJ

- PIŠTOLJ ZA RASPRŠIVANJE - 9 FUNKCIJA
- PIŠTOLJ ZA RASPRŠIVANJE - 9 FUNKCIJA



METAL ABS

- Incremental water jet control in 9 different positions

Code		
99317	x	6/24

1 SET PRŠILNIKOV

• SET RAVNIH RASPRŠIVAČA • SET RAVNIH RASPRŠIVAČA



1/2" | 1/2" 3/4" | ABS PP | x4

Code		
99331	x	12/48

2 SET BRIZGALNA PIŠTOLA

• SET S PIŠTOLJEM ZA PRSKANJE
• SET S PIŠTOLJEM ZA PRSKANJE



1/2" | 1/2" 3/4" | ABS PP | x4

Code		
99333	x	6/36

3 BRIZGALNA PIŠTOLA

• PIŠTOLJI ZA PRSKANJE
• PIŠTOLJI ZA PRSKANJE



ABS PP

- Permanent operation lock
- Water jet control by pressing a trigger

Code	Packaging	
99334	BULK	6/36
99335	CARD	12/48
99634	BOX	6



4 RAZPRŠILKA - MEDENINASTE ŠOBE

• PRSKALICA - MJEDENE MLAZNICE • OSCILACIJSKA PRSKALICA S 15 MJEDENIH MLAZNICA



max 146m² | Zn-Cu | ABS PP | x 15

- Four-step sprinkling direction control

Code		
99351	x	12

5 RAZPRŠILKA - MEDENINASTE ŠOBE

• PRSKALICA - MJEDENE MLAZNICE • OSCILACIJSKA PRSKALICA S 15 MLAZNICA



max 151m² | ABS PP | x 15

- Four-step sprinkling direction control

Code		
99353	x	12

1 PRŠILKA

- STATIČNA PRSKALICA S JEDNOM FUNKCIJOM
- STATIČNA PRSKALICA S JEDNOM FUNKCIJOM



max 47m² | ABS PP

- Perfect for small areas
- Possible to connect several spray guns in series

Code		
99355	x	12/48

2 PRŠILKA - 5 FUNKCIJ

- STATIČNA PRSKALICA S 5 FUNKCIJA
- STATIČNA PRSKALICA S 5 KARAKTERISTIKA



max 72m² | ABS PP

- Perfect for small areas • Incremental water jet control in 5 different positions

Code		
99357	x	12/48

3 ROTIRAJOČA PRŠILKA

- ROTIRAJUĆA PRSKALICA • ROTIRAJUĆA PRSKALICA



max 50m² | ABS PP

- 18 outlets • Three-arm spray gun with adjustable rotary speed of the sprayed surface by nozzle turning

Code		
99359	x	12/48

4 KOVINSKA ROTIRAJOČA PRŠILKA

- METALNA ROTIRAJUĆA PRSKALICA
- METALNA ROTIRAJUĆA PRSKALICA



360° | max 92m² | METAL

Code	Packaging	
99383	Cardboard box	12

5 PULZNA PRŠILKA

- PULSIRAJUĆA PRSKALICA • PULSIRAJUĆA PRSKALICA



max 415m² | ABS PP

- Possible to connect several spray guns in series

Code		
99361	x	12/48



6 KOVINSKA PULZNA PRŠILKA

- METALNA PULSNA PRSKALICA
- METALNA PULSIRAJUĆA PRSKALICA



MAX 340° | max 550m² | METAL

- Several sprinklers can be connected in series • Adjustable sprinkling angle

Code		
99385	x	12/24

7 KOVINSKA PULZNA PRŠILKA

- METALNA PULSNA PRSKALICA
- METALNA PULSIRAJUĆA PRSKALICA



360° | max 532m² | METAL

- Several sprinklers can be connected in a series • 360° rotation

Code		
99387	x	12/24

8 BRIZGALNA PIŠTOLA - VENTILATORSKA 120°

- PRSKALICA - VENTILATORSKA 120°
- VENTILATORSKA MLAZNICA 120°



120° | ABS | METAL

- Spray gun start by a knob on the handle

Code		
99369	x	6/24

9 PRŠILKA

- PRSKALICA
- PRSKALICA



METAL | ABS PP

- Incremental water jet control in 9 different positions • Spray gun start by a knob on the handle

Code		
99365	x	6/24

1 PRŠILKA PODALJŠANA - 9 FUNKCIJ

- PRODUŽENA PRSKALICA 9 FUNKCIJA
- PRSKALICA 9 FUNKCIJA



PP AL

- Incremental water jet control in 9 different positions • Spray gun start by a knob on the handle

Code		
99371	x	12

2 PRŠILKA

- PRSKALICA • PRSKALICA



METAL ABS PP

- Control of water jet from a strong point one to a delicate mist • Spray gun start by a knob on the handle

Code		
99367	x	6/24

3 MEDENINASTA ŠOBA S SPROŽILCEM

- MESINGANA MLAZNICA S OKIDAČEM
- MESINGANA MLAZNICA S OKIDAČEM



ABS BRASS

- Control of water jet from a strong point one to a delicate mist • 3-step permanent work lock

Code		
99373	x	12/48

4 MEDENINASTA ŠOBA S SPROŽILCEM

- MESINGANA MLAZNICA S OKIDAČEM
- MESINGANA MLAZNICA S OKIDAČEM



ABS BRASS

- Control of water jet from a strong point one to a delicate mist • Permanent operation lock

Code		
99375	x	12/48

5 SET NASTAVLJIVIH MEDENINASTIH ŠOB - 4 KOM

- SET OD 4 KOM. PODESIVIH MESINGANIH MLAZNICA
- SET OD 4 KOM. PODESIVIH MESINGANIH MLAZNICA



ABS BRASS

- Smooth control of water jet from a strong point one to a delicate mist • 3-step permanent work lock

Code		
99381	x	6/24

6 BRIZGALNA PIŠTOLA

- PIŠTOLJ ZA RASPRŠIVANJE
- PIŠTOLJ ZA RASPRŠIVANJE



METAL ABS

- Control of water jet
- Permanent operation lock

Code		
99325	x	12/48

7 NASTAVLJIVA MEDENINASTA ŠOBA

- PODESIVA MESINGANA MLAZNICA • PODESIVA MESINGANA MLAZNICA



PP BRASS

- Smooth control of water jet from a strong point one to a delicate mist

Code		
99377	x	24/96

8 BRIZGALNA PIŠTOLA

- PIŠTOL ZA RASPRŠIVANJE
- PIŠTOLJ ZA RASPRŠIVANJE



- Incremental water jet type adjustment in 8 different positions

METAL ABS

Code		
99327	x	12/48



9 BRIZGALNA PIŠTOLA

- PIŠTOLJ ZA RASPRŠIVANJE
- PIŠTOLJ ZA RASPRŠIVANJE



- Incremental water jet type adjustment in 10 different positions

METAL ABS

Code		
99329	x	6/12

1 BRIZGALNA PIŠTOLA, PRŠILKA + SET PRIBORA 313 KOM

• PIŠTOLJ ZA PRSKANJE, PRSKALICA I SET PRIBORA OD 313 KOM.• PIŠTOLJ ZA PRSKANJE, PRSKALICA I SET PRIBORA OD 313 KOM.





Code	Opis	The quantity
99200	quick hose connector 1/2"	18
99202	quick hose connector with stop 1/2"	36
99204	quick hose connector 3/4"	18
99206	quick hose connector with stop 3/4"	18
99216	three way coupling	28
99218	two way coupling	45
99220	mender 1/2"	22
99222	mender 3/4"	35
99230	female thread tap connector 3/4"-1"	22
99232	female thread tap connector 3/4"-1"	35
99300	straight sprinkler	22
99304	spray gun 9 functions	6
99360	pulsing sprinkler 415 m²	8

ABS PP

Code	BOX	
99800	x	1



PROLINE

1 VILE, LESEN ROČAJ

• VILE, DRVENA DRŠKA • VILE, DRVENA DRŠKA



• Classic pitchfork

Code	Dimensions (mm)	
12398	1200 x 230 x 310	6

2 VILE, KOVINSKI ROČAJ

• VILE, METALNA DRŠKA
• VILE, METALNA DRŠKA



• Classic pitchfork

Code	Dimensions (mm)	
12397	1200 x 230 x 310	6

3 VILE, LESEN ROČAJ

• VILE DRVENA DRŠKA • VILE ZA KOPANJE, DRVENA DRŠKA



• Wide teeth, perfect for digging

Code	Dimensions (mm)	
12396	1200 x 200 x 290	6

4 VILE, KOVINSKI ROČAJ

• VILE METALNA DRŠKA • VILE ZA KOPANJE, METALNA DRŠKA



• Wide teeth, perfect for digging

Code	Dimensions (mm)	
12395	1200 x 200 x 290	6

5 DRŽALO ZA GRABLJE

• DRŽAČ ZA GRABLJE • OSOVINE ZA GRABLJE

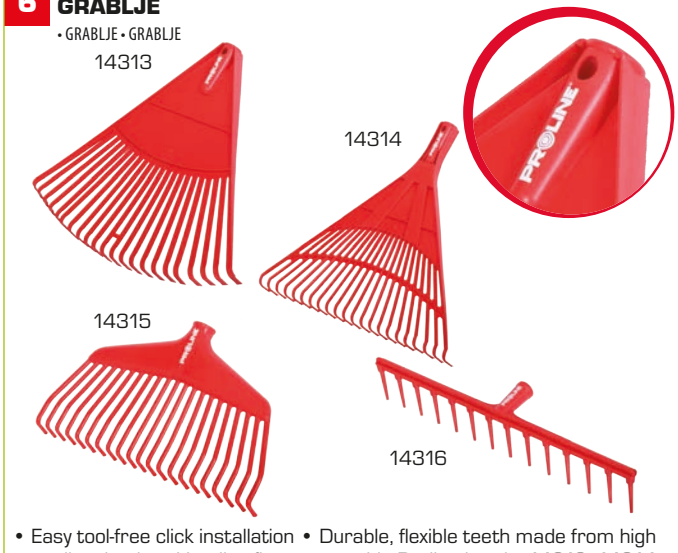


• Easy tool-free click installation • Handles fit to removable Proline heads: 14313, 14314, 14315, and 14316

Code	Material	Length (mm)	Diameter (mm)	
14311	pine wood	1500	22	10
14312	aluminum	1600	22	10

6 GRABLJE

• GRABLJE • GRABLJE



• Easy tool-free click installation • Durable, flexible teeth made from high quality plastic • Handles fit to removable Proline heads: 14313, 14314, 14315, and 14316

Code	Type	Width (mm)	Quantity of teeth	
14313	leaf rakes	490	22	10
14314	leaf rakes	500	22	10
14315	small for leafs	380	21	10
14316	universal for hay	540	14	10



1 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



max 20 mm | HRC 50±2

- Scissor type • Carbon steel blade, quenched
- Handles coated with wood

Code	Max. cutting diameter (mm)		
40016	20	x	12/60

2 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



max 20 mm | HRC 50±2

- Scissors type • Carbon steel, quenched blade
- Handles coated with wood

Code	Max. cutting diameter (mm)		
40017	20	x	12/60

3 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



max 16 mm | HRC 46±2 | 65 Mn | PTFE

- Anvil type • Manganese steel blade
- Two-component non-slip handle – ABS/TPR

Code	Max. cutting diameter (mm)		
40019	16	x	12/48

4 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE



max 16 mm | HRC 46±2 | 65 Mn | PTFE

- Scissor type • Manganese steel blade
- Two-component non-slip handle – ABS/TPR

Code	Max. cutting diameter (mm)		
40018	16	x	12/48

5 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- MAKAZE ZA OBREZIVANJE



max 25 mm | HRC 50±2

- Forged blade
- Very long lifecycle and reliable work

Code	Max. cutting diameter (mm)		
40012	25	x	6/48

6 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



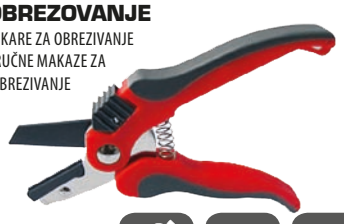
PTFE | HRC 50±2

- Reliable work in intense use

Code	Max. cutting diameter (mm)		
40008	12	x	10/60
40015	19	x	12/48

7 ROČNE ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



max 19 mm | PTFE | HRC 50±2

- Anvil type, two-component handle

Code	Max. cutting diameter (mm)		
40013	19	x	12/72

8 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE
- RUČNE MAKAZE ZA OBREZIVANJE



max 19 mm | PTFE | HRC 50±2

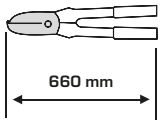
- Scissor type • Two-component handle

Code	Max. cutting diameter (mm)		
40011	19	x	12/72

9 ŠKARJE ZA OBREZOVANJE PREMIUM

- ŠKARE ZA OBREZIVANJE PREMIUM
- MAKAZE ZA OBREZIVANJE BILJAKA





max 32 mm | 65 Mn | PTFE | HRC 46±2

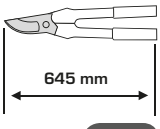
- Anvil type • Manganese steel blade
- Aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40032	32	x	6/12

10 ŠKARJE ZA OBREZOVANJE PREMIUM

- ŠKARE ZA OBREZIVANJE PREMIUM
- MAKAZE ZA OBREZIVANJE BILJAKA





max 32 mm | 65 Mn | PTFE | HRC 46±2

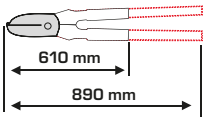
- Anvil type • Manganese steel blade
- Telescopic aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40033	32	x	6/12

11 ŠKARJE ZA OBREZOVANJE PREMIUM

- ŠKARE ZA OBREZIVANJE PREMIUM
- MAKAZE ZA OBREZIVANJE BILJAKA PREMIUM





max 38 mm | 65 Mn | PTFE | HRC 46±2

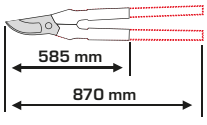
- Anvil-type • Manganese blade, coated
- Telescopic aluminium arms with adjustable lenght • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40034	38	x	6/12

1 ŠKARJE ZA OBREZOVANJE PREMIUM

- ŠKARE ZA OBREZIVANJE PREMIUM
- MAKAZE ZA OBREZIVANJE BILJAKA PREMIUM





max 32 mm | 65 Mn | PTFE | HRC 46±2

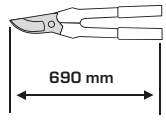
• Scissors-type • Manganese blade • Telescopic aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40035	32	x	6/12

5 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





max 40 mm | PTFE | HRC 50±2

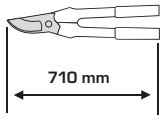
Code	Max. cutting diameter (mm)		
40026	40	x	6



3 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





max 34 mm | PTFE | HRC 50±2

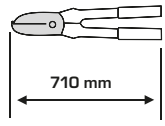
• Aluminium arms

Code	Max. cutting diameter (mm)		
40028	34	x	6

6 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





max 44 mm | PTFE | HRC 50±2

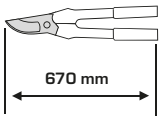
• Aluminium arms • Anvil type
• Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40031	44	x	6

2 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





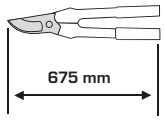
max 44 mm | HRC 50±2

Code	Max. cutting diameter (mm)		
40040	44	x	6

4 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





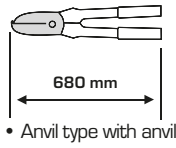
max 40 mm | PTFE | HRC 50±2

Code	Max. cutting diameter (mm)		
40024	40	x	12

7 ŠKARJE ZA OBREZOVANJE

- ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE





max 40 mm | PTFE | HRC 50±2

• Anvil type with anvil position adjustment

Code	Max. cutting diameter (mm)		
40027	40	x	6

1 ŠKARJE ZA REZANJE VEJ

• ŠKARE ZA REZANJE GRANA
• MAKAZE ZA REZANJE GRANA

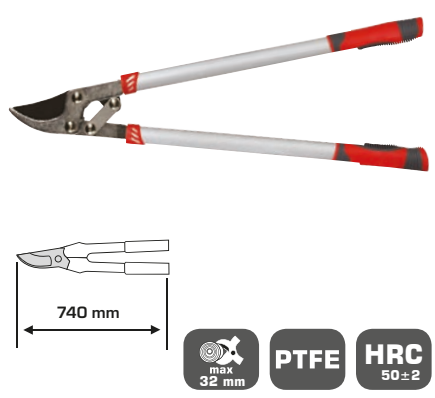


• Anvil type with anvil position adjustment

Code	Max. cutting diameter (mm)		
40025	38	x	6

2 ŠKARJE ZA OBREZOVANJE

• ŠKARE ZA OBREZIVANJE • MAKAZE ZA OBREZIVANJE



• Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40030	32	x	6

3 ŠKARJE ZA REZANJE VEJ

• NAKOVANJSKE ŠKARE ZA REZANJE GRANA
• MAKAZE ZA REZANJE GRANA



• Aluminium arms, telescopic, with adjustable length • Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40042	30	x	6

4 ŠKARJE ZA ŽIVO MEJO

• ŠKARE ZA ŽIVICU • MAKAZE ZA ŽIVICU PREMIUM



• Wavy blades from manganese steel • Blade pressure adjustment • Telescopic aluminium arms with adjustable lenght • Non-slip TPR handle

Code	Blade length (mm)		
40036	210	x	12

5 TELESKOPSKE ŠKARJE ZA ŽIVO MEJO

• TELESKOPSKE ŠKARE ZA ŽIVICU • TELESKOPSKE MAKAZE ZA ŽIVICU PREMIUM

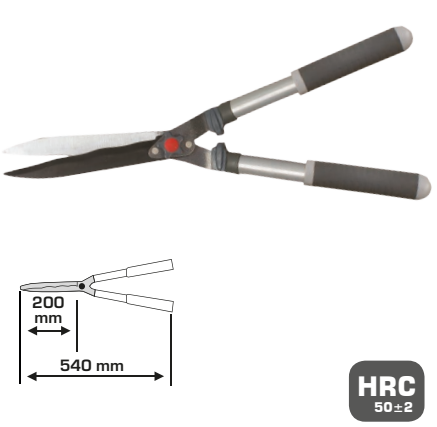


• Wavy blades from manganese steel • Blade pressure adjustment • Telescopic aluminium arms with adjustable length • Non-slip TPR handle

Code	Blade length (mm)		
40037	210	x	12

6 ŠKARJE ZA ŽIVO MEJO

• ŠKARE ZA ŽIVICU • MAKAZE ZA ŽIVICU

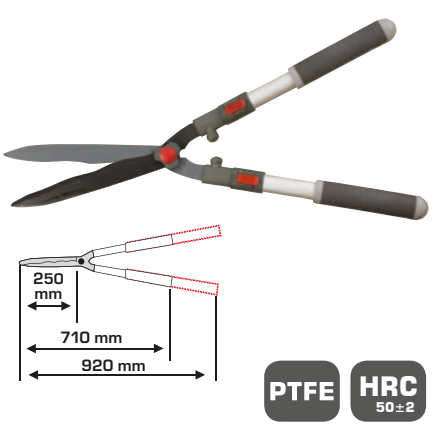


• Wavy blade • Blade pressure adjustment

Code	Blade length (mm)		
40045	200	x	6

7 ŠKARJE ZA ŽIVO MEJO

• ŠKARE ZA ŽIVICU • MAKAZE ZA ŽIVICU



• Wavy blade • Blade pressure adjustment

Code	Blade length (mm)		
40050	250	x	6

1 ŠKARJE ZA TRAVO

- ŠKARE ZA TRAVU
- MAKAZE ZA TRAVU

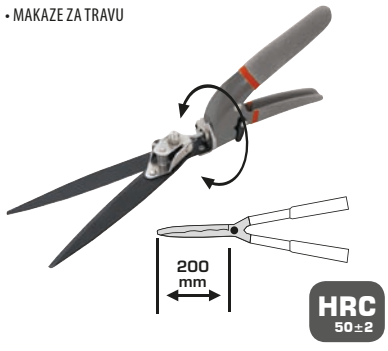


- Single position

Code	Blade length (mm)		
40052	125	x	12/48

2 ŠKARJE ZA TRAVO

- ŠKARE ZA TRAVU
- MAKAZE ZA TRAVU



- Three positions, rotational, enabling different angles of blade positioning: horizontal, vertical and gradient cutting

Code	Blade length (mm)		
40054	200	x	12/48

3 TELESKOPSKO DRŽALO ZA OBREZOVANJE STEBEL Z ŽAGO

- TELESKOPSKI UREĐAJ ZA OBREZIVANJE STABALA S PILOM
- TELESKOPSKI UREĐAJ ZA OBREZIVANJE STABALA S PILOM



max 24mm | 250 mm | SK5 | AL | HRC 46±2

- Lightweight aluminium design with an adjustable handle length • Garden shears with a simple cable mechanism • Additional screwed pruning saw

Code	Length (mm)	
40039	1410 - 2250	10

4 VRTNA ŽAGA

- VRTNA PILA • VRTNA PILA PREMIUM



SK5 | HRC 45±2

- Blade lock • Two-component handle – ABS/TPR

Code	Blade length (mm)		
64426	145	x	12/48

5 UNIVERZALNA VRTNA ŽAGA

- UNIVERZALNA VRTNA PILA
- UNIVERZALNA VRTNA PILA



300 mm | HRC 56±2

- Ergonomic handle with thumb profile, facilitates gradient cutting • Delivered with a sheath for the cutting part which can be fixed on a belt • Americanstyle teeth, quenched for fresh and moist wood, boards, planks and soft construction materials

Code	Blade length (mm)		
64430	300	x	6/24

6 ALUMINIJASTO VRTNO ORODJE FLORAL

- ALUMINIJSKI VRTNI ALATI FLORAL
- ALUMINIJSKI VRTNI ALATI FLORAL



AL

Code	Type	
40080	wide trowel	12/72
40081	rake	12/72
40082	fork	12/72

7 ALUMINIJASTO VRTNO ORODJE

- ALUMINIJSKI VRTNI ALATI
- ALUMINIJSKI VRTNI ALATI



AL

- Rigid • Stainless • Ergonomic handles

Code	Type	
40065	wide trowel	25
40066	narrow trowel	25
40068	rake	12

8 VRTNO ORODJE IZ STEKLENIH VLAKEN

- VRTNI ALATI OD STAKLENOG VLAKNA
- VRTNI ALATI OD STAKLENOG VLAKNA



FRP

- Rigid
- Ergonomic handles

Code	Type	
40060	wide trowel	25
40061	narrow trowel	25
40062	rake	25

9 VRTNO ORODJE IZ JEKLA

- VRTNI ALATI OD ČELIKA • VRTNI ALATI OD ČELIKA



- From hardened steel
- Ergonomic handles

Code	Type	
40070	wide trowel	24
40071	narrow trowel	24
40072	fork with pickaxe	24
40073	rake	24

1 VREČA ZA ODPADKE - TKANE POLIPROPILENSKE

• VREĆE ZA OTPAD • TKANE POLIPROPILENSKE VREĆE



PP

x10

• To collect debris in the repair and construction work

Code	Dimensions (mm)	Packaging	
41216	600 x 1050	plastic bag	28
41217	700 x 1100	plastic bag	25

2 VREČA ZA GRADBENE ODPADKE - POLIPROPILENSKE

• VREČA ZA GRAĐEVINSKI OTPAD - POLIPROPILENSKE

• POLIPROPILENSKE VREĆE ZA GRAĐEVINSKU ŠUTU





LPDE

SUPER STRONG

• Bags for household supplies • Renovation, construction

Code	Quantity in a pack (pcs.)	Volume (l)	
41206	10	80	5
41207	10	120	5

3 VREČA ZA ODPADKE LDPE

• VREĆE ZA OTPAD LDPE

• VREĆE ZA OTPAD LDPE





LPDE

• Bags for household supplies • Sold in packs of 8

Code	Quantity in a roll (pcs.)	Volume (l)	Colour	
41202	20	60	black	8/24
41203	10	120	black	8/24
41204	10	120	red	8/24
41205	10	120	green	8/24

4 PODALJŠEK IP44

• PRODUŽNI KABELI IP44

• PRODUŽNI KABLOVI IP44



IP44 | 4A 1100 W | x 1 | 3 x 1,5 mm² | max. 250 V

• Made from high quality materials • 1 grounded socket • Max load up to 4000W 16A with folded cable • Delivered in a plastic bag • Polish product

* with unfolded cable

Code	Max. load*	Length (m)	
PEP20UZ	4000W 16A	20	10



1 RAZPRŠILKA

• PRSKALICA • PRSKALICA PREMIUM





• Expendable lance 490-880 mm • Shoulder strap included • High performance and ergonomics

Code	Volume (l)	
07905	5	6
07908	8	6

2 RAZPRŠILKA

• PRSKALICA • PRSKALICA PREMIUM





• Long nozzle 90 mm • High efficiency and ergonomics

Code	Volume (l)	
07901	1.5	20
07902	2	10



3 RAZPRŠILKA

• PRSKALICA • PRSKALICA

079003
079007
079011



079015
079020



Code	Volume (l)	
079015	1.5	15
079020	2	15
079003	3	6
079007	7	6
079011	11	6

4 RAZPRŠILKA

• PRSKALICA • PRSKALICA



Code	Volume (l)	Qty of nozzles	
079016	16	4	1

5 CERADA

• CERADA
• CERADA



• 2-year resistance to UV rays • Reinforced edge and corners • Aluminium eyelets

Code	Dimensions (m +/- 5%)	
46423	2 x 3	30
46435	3 x 5	12
46445	4 x 5	9
46446	4 x 6	8
46458	5 x 8	5
46461	6 x 10	3
46481	8 x 12	2
46411	10 x 15	1

1 NITKA ZA KOŠNJO

• NIT ZA KOŠNJU • NIT ZA KOŠNJU



• For all hedge trimmers and string cutters available on the market

Code	Profile	Diameter	Length (mm)	Colour	
98214		2,4	90		27
98215		2,7	70		27
98216		3	56		27
98224		2,4	90		27
98225		2,7	70		27
98226		3	56		27
98234		2,4	90		27
98235		2,7	70		27
98236		3	56		27
98244		2,4	90		27
98245		2,7	70		27
98246		3	56		27
98254		2,4	90		27
98255		2,7	70		27
98256		3	56		27



SHOVELS, SPADES - PAGES 166-167
AXES - PAGES 167-168

2 NITKA ZA KOŠNJO

• NITI ZA KOŠNJU • NIT ZA KOŠNJU





String design vs usability

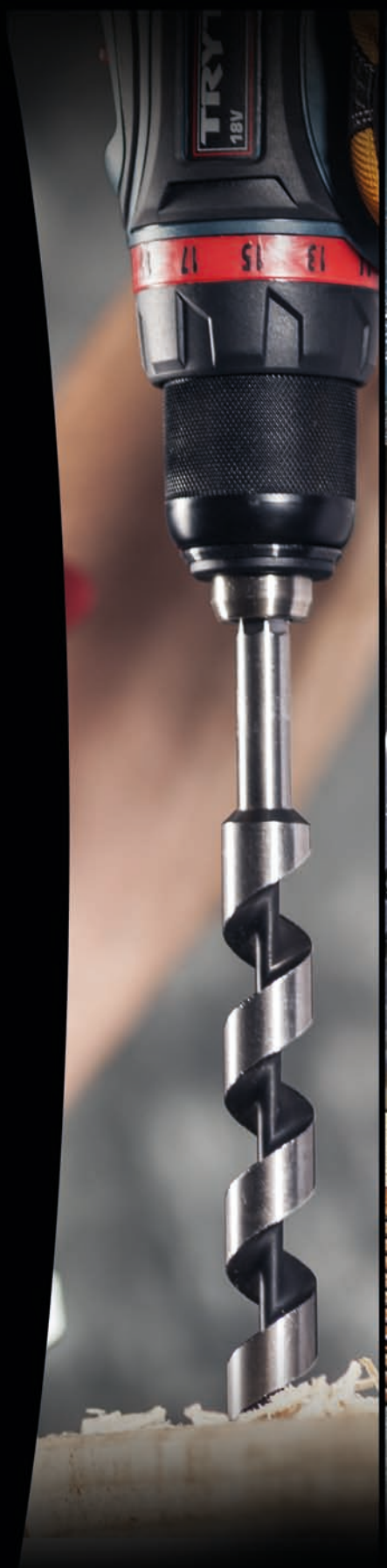
string design	round	square	star	twisted square	reinforced square
cutting speed	★★★	★★★★	★★★★	★★★★	★★★★
durability	★★★★	★★★½	★★★	★★★½	★★★★½
quiet work	★★★	★★★½	★★★	★★★★★	★★★½

★ low parameter value ★★★★★ highest parameter value

- Made of high quality nylon • Strings with a round form with a diameter of 1.3 mm and 1.6 mm are used in trimmers (e.g. Tryton TOB650, TOB25301) for lawn care and cutting low grass
- Strings that are: round, spiral and square with diameters from 2 mm to 3 mm are used in combustion engine trimmers (e.g. Tryton TOP252S, TOP431S) for cutting high grass and weeds. In the case of these strings, work is easiest when the Easy-load automatic trimmer head is used (EATOP01)

Code	Profile	Diameter	Length (mm)	Colour	
98111		1,3	15		20 / 240
98112		1,6	15		20 / 240
98113		2	15		18 / 216
98114		2,4	15		16 / 192
98115		2,7	15		12 / 144
98116		3	15		10 / 120
98121		1,3	15		20 / 240
98122		1,6	15		20 / 240
98123		2	15		18 / 216
98124		2,4	15		16 / 192
98125		2,7	15		12 / 144
98126		3	15		10 / 120
98131		1,3	15		20 / 240
98132		1,6	15		20 / 240
98133		2	15		18 / 216
98134		2,4	15		16 / 192
98135		2,7	15		12 / 144
98136		3	15		10 / 120
98144		2,4	15		16 / 192
98145		2,7	15		12 / 144
98146		3	15		10 / 120
98154		2,4	15		16 / 192
98155		2,7	15		12 / 144
98156		3	15		10 / 120

DODATKI ZA ORODJE/
DODATCI ZA ALAT





adapterji/adapterji

dodatki/dodatci

rezila/rezila

dleta/dlijeta

krožne žage/kružne pile

diski/diski

svedri/svrdla

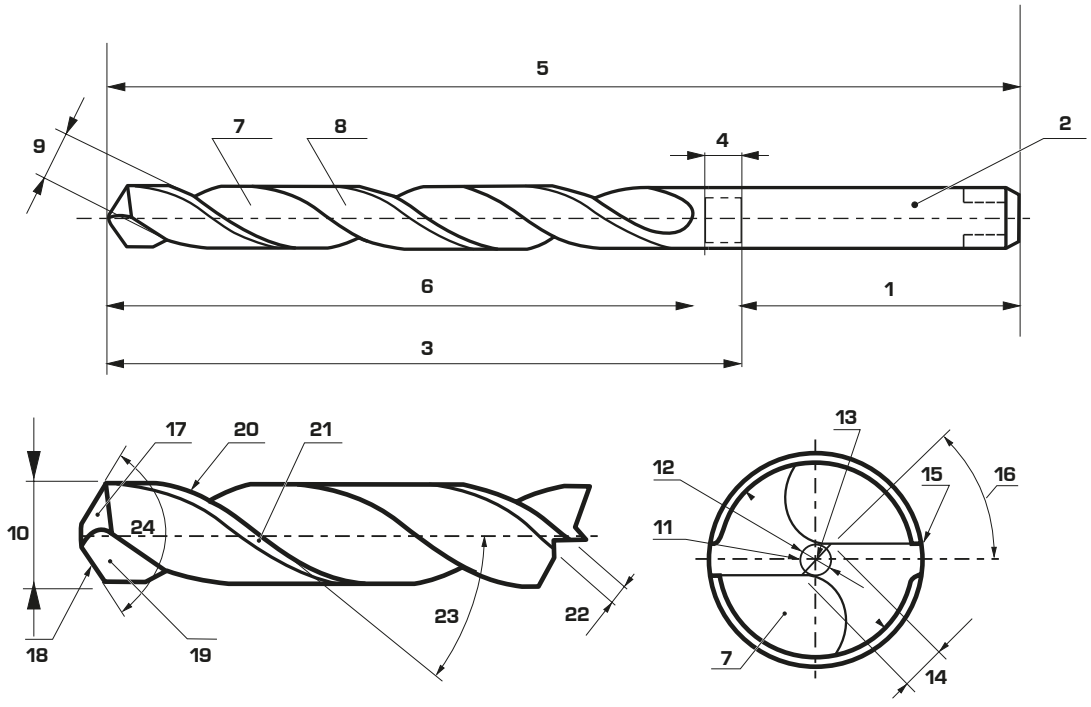
kronske žage/krunske pile

brusni papir/brusni papir

ostale ščetke/druge četke

in veliko drugih/i veliko drugih

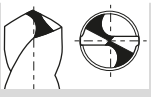
PROLINE SVEDRNI NASTAVKI VRTALNIKA ZA KOVINO



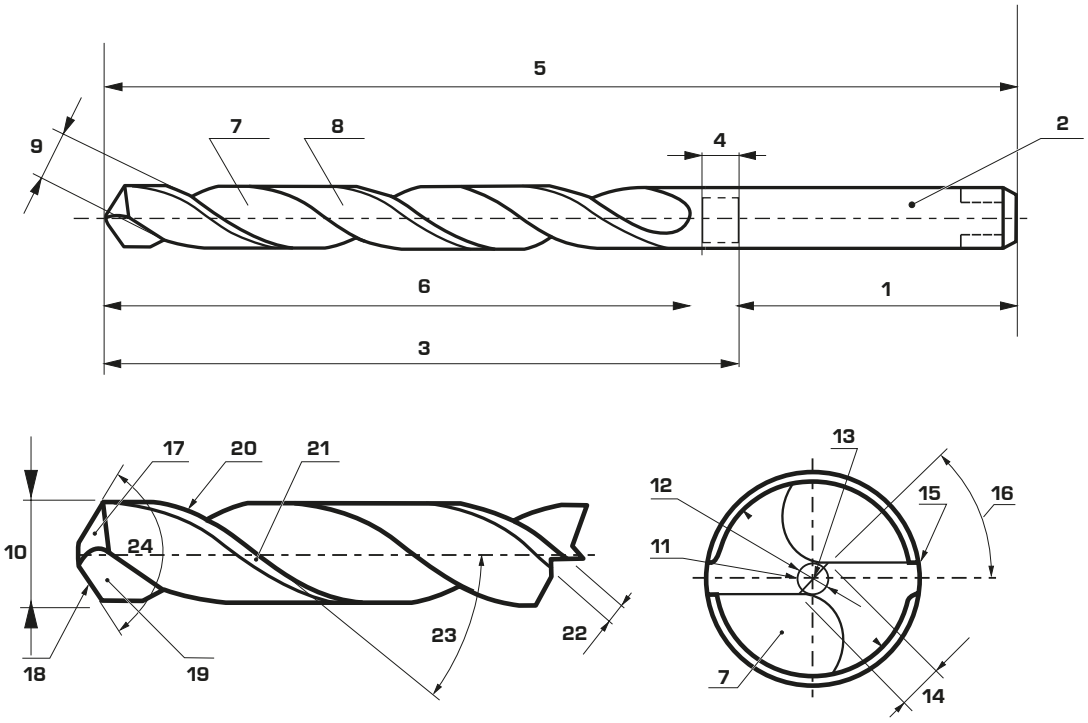
Strukturni elementi vrtalnika

1 Držalo
2 Ravno držalo
3 Telo
4 Vrat
5 Skupna dolžina
6 Dolžina žleba
7 Žleb
8 Vrtajte
9 Širina zemlje
10 Premer svedra
11 Mreža
12 Premer mreže
13 Rob svedra
14 Dolžina roba svedra
15 Močan kot
16 Kot svedra
17 Stran
18 Del za rezanje
19 Obraz
20 Pomožni rezalni rob
21 Margina
22 Širina margine
23 Kot žleba
24 Kot vboda



Opis	Lastnosti		Tehnični parametri
 **HSS SVEDRI ZA KOVINO (brez zamenjave svedra)**	Ostri in običajno brušeni, kar omogoča tem svedrom, da se uporabljajo za običajno vrtanje jekla, barvnih kovin in plastike. Kot vrtanja je primeren za obdelane materiale. Prednosti: močni rezalni robovi, neobčutljivi na udarce in stranske sile. Enostavno rezanje, možnost ročnega ostrenja.	 stožčasti rez	Kotni svedri: standardno 118 °. rob brušenja: kosinus. material: hitro-rezno jeklo HSS izboljšane zmogljivosti
 **HSS SVEDRI ZA KOVINO (z modifikacijo svedra)**	Svedri, ki so popolnoma izdelani z brušenjem - zagotovljajo visoko natančnost in ravno odprtino ter učinkovitost, ki je nekajkrat večja kot pri kovanih ali površinskih svedrih. Material - hitro-rezalno jeklo najvišje kakovosti. Povečana odpornost na abrazijo. Povečana elastičnost in odpornost na torzijske napetosti. Dvojni rez z dletom	 dvojni rez z dletom.	Vrh kota 135 ° s svedrom modifikacija - omogoča hitro izdelavo lukenj, hkrati pa prihrani čas material: hitro-rezno jeklo HSS izboljšane zmogljivosti
 **SVEDRI ZA KOVINO HSS CO**	Za vrtanje v visoko legiranih jeklih, titanu, kislinsko odpornem, nerjaveče jeklo, toplotno odporno in lito železo (trdnost nad 900 N / m2) in drugih materialih, ki se težko obdelujejo.	 dvojni rez z dletom.	Vrh kota 135 ° s svedrom - omogoča hitro vrtanje s prihrankom časa pri izdelavi delov. Odpornost na visoke temperature. Material izboljšane neučinkovitosti: HSS brzo-rezno jeklo Cobalt Co
 **SVEDRI ZA KOVINO HSS TiN**	Svedri, ki so popolnoma izdelani z brušenjem, obloženi s titanovim nitridom, ki poveča življenjsko dobo svedra in izboljša kakovost lukenj.	 dvojni rez z dletom.	Vrh kota 135 ° s korekcijo svedra - omogoča hitro vrtanje lukenj s prihrankom časa. Material: HSS hitro-rezno jeklo obloženo s titanovim nitridom TiN

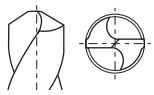
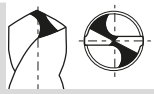
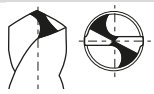
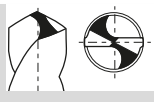
PROLINE BIT NASTAVCI BUŠILICE ZA METAL



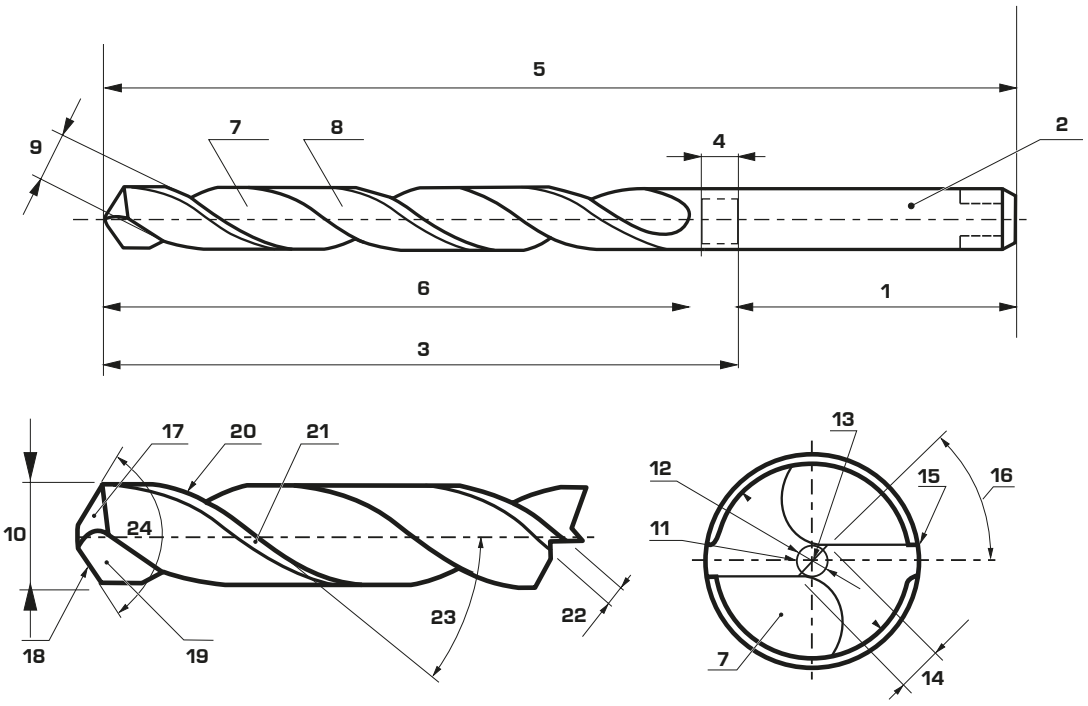
Strukturni elementi bušilice

1 Drška
2 Ravan držač
3 Tijelo
4 Vrat
5 Ukupna duljina
6 Duljina žlijeba
7 Žlijeb
8 Bušite
9 Širina zemlje
10 Promjer svrdla
11 Mreža
12 Promjer mreže
13 Rub svrdla
14 Duljina ruba svrdla
15 Snažan kut
16 Kut svrdla
17 Strana
18 Dio za rezanje
19 Lice
20 Pomoćni rezni rub
21 Margina
22 Širina margine
23 Kut žlijeba
24 Kut uboda



Opis	Karakteristike		Tehnički parametri
 **HSS SVRDLA ZA METAL (bez izmjene svrdla)**	Oštra i normalno obrušena, što omogućuje ovim svrdlima da se koriste za uobičajeno brušenja čelika, obojenih metala i plastike. Kut bušenja je prikladan za obrađene materijale. Prednosti: jaki glavni rezni rubovi, otporni na udarce i bočne sile. Jednostavno rezanje, mogućnost ručnog oštrenja.	 stožasti rez	Kut svrdla: standard 118 °. rub bušenja: kosinus. materijal:brzorezni čelik HSS poboljšane učinkovitosti
 **HSS SVRDLA ZA METAL (s modifikacijom svrdla)**	Bušilice u potpunosti izrađene brušenjem – jamče visoku preciznost i ravne otvore te učinkovitost nekoliko puta veću nego kod kovanih svrdala ili površinskih svrdala. Materijal - brzorezni čelik najviše kvalitete. Povećana otpornost na abraziju. Povećana elastičnost i otpornost na torzijska naprezanja.	 Dvojni rez z dletom	Vršni kut od 135 ° sa svrdlom modifikacija – omogućuje brzu izradu rupa uz uštedu vremena materijal: brzorezni čelik HSS poboljšane učinkovitosti
 **SVRDLA ZA METAL HSS Co**	Za bušenje u visokolegiranim čelicima, titanu, otpornim na kiseline, nehrđajući čelik, toplinski otporno i lijevano željezo (čvrstoća iznad 900 N / m2) i druge teško obradive materijale.	 dvojni rez s dlijetom	Vršni kut 135 ° sa svrdlom - omogućuje brzo bušenje uz uštedu vremena prilikom izrade dijelova. Visoka temperaturna otpornost. Materijal poboljšane učinkovitosti: HSS brzorezni čelik Cobalt Co
 **SVRDLA ZA METAL HSS TiN**	Bušilice u potpunosti izrađene brušenjem, obložene titan nitridom koji povećava vijek trajanja svrdla i poboljšava kvalitetu rupa.	 dvojni rez s dlijetom	Vršni kut od 135 ° s korekcijom svrdla - omogućuje brzo bušenje rupa uz uštedu vremena. Materijal: HSS brzorezni čelik obložen titan nitridom TiN

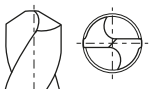
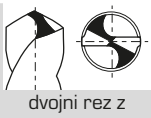
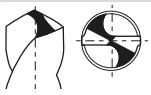
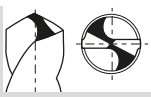
PROLINE BIT NASTAVCI BUŠILICE ZA METAL



Strukturni elementi bušilice

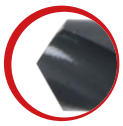
1 Drška
2 Ravni držač
3 Tijelo
4 Vrat
5 Ukupna dužina
6 Dužina žlijeba
7 Žlijeb
8 Bušač
9 Širina osnove
10 Prečnik svrdla
11 Mreža
12 Prečnik mreže
13 Rub svrdla
14 Dužina ruba svrdla
15 Snažni ugao
16 Ugao svrdla
17 Strana
18 Dio za rezanje
19 Lice
20 Pomoćni rezni rub
21 Margina
22 Širina margine
23 Ugao žlijeba
24 Ugao uboda



Opis	Karakteristike		Tehnički parametri
HSS SVRDLA ZA METAL (bez izmjene svrdla)	Oštre i normalno obrušene, što omogućava ovim svrdlima da se koriste za uobičajeno bušenje čelika, obojenih metala i plastike. Ugao bušenja je pogodan za obradu materijala. Prednosti: jaki glavni rezni rubovi, neosjetljivi na udarce i bočne sile. Jednostavno rezanje, mogućnost ručnog oštrenja.	 stožasti rez	Ugao svrdla: standard 118°. rub bušenja: kosinusni. materijal: brzorezni čelik HSS poboljšane djelotvornosti
HSS SVRDLA ZA METAL (s modifikacijom svrdla)	Bušilice u potpunosti izrađene brušenjem – garantuju visoku tačnost i ravne otvore, te djelotvornost nekoliko puta veću nego kod kovanih svrdala ili površinskih svrdala. Materijal - brzorezni čelik najveće kvalitete. Povećana otpornost na abraziju. Povećana elastičnost i otpornost na torzijska naprezanja.	 dvojni rez z dlijetom	Ugao pri vrhu od 135° sa svrdlom modifikacija – omogućava brzu izradu rupa uz uštedu vremena materijal: brzorezni čelik HSS poboljšane djelotvornosti
B SVRDLA ZA METAL HSS Co	Za bušenje u visokolegiranim čelicima, titanima, otpornim na kiseline, nehrđajući čelik, toplinski otporno i ljevano željezo (čvrstina iznad 900 N/m^2) i druge teško obradivih materijala.	 dvojni rez s dlijetom	Ugao pri vrhu 135° sa svrdlom - omogućava brzo bušenje uz uštedu vremena prilikom izrade dijelova. Visoka temperaturna otpornost. Materijal poboljšane nedjelotvornosti: HSS brzorezni čelik Cobalt Co
SVRDLA ZA METAL HSS TiN	Bušilice u potpunosti izrađene brušenjem, obložene titan-nitridom, koji produžava vijek trajanja svrdla i poboljšava kvalitetu rupa	 dvojni rez z dlijetom	Ugao pri vrhu od 135° s korekcijom svrdla - omogućava brzo bušenje rupa uz uštedu vremena. Materijal: HSS brzorezni čelik obložen titan nitridom TiN

1 HSS SVEDER

• HSS SVRDLA
• HSS BURGIJA




DIN 338 HSS

- **Nose angle standard 118°**
- **Ground edges** • Material - high-speed steel, refined
- Packed and sold in a plastic tube, rectangular; dimensions 0.3 - 8.0 mm 10 pcs each.; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 13.5 - 20.0 mm 1 pc each
- **(ZR)*** packed and sold in a case: 0.3 - 5.0 mm 3 pcs each; dimensions 5.1 - 20.0 mm 1 pc each

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)		Code (in the case)*
76003	0.3	3	19	10/200/1000	ZR76003
76004	0.4	5	20	10/200/1000	ZR76004
76005	0.5	6	22	10/200/1000	ZR76005
76006	0.6	7	30	10/200/1000	ZR76006
76007	0.7	9	34	10/200/1000	ZR76007
76008	0.8	10	36	10/200/1000	ZR76008
76009	0.9	12	38	10/200/1000	ZR76009
76010	1.0	14	38	10/200/1000	ZR76010
76011	1.1	16	40	10/200/1000	ZR76011
76012	1.2	16	43	10/200/1000	ZR76012
76013	1.3	18	46	10/200/1000	ZR76013
76015	1.5	20	46	10/200/1000	ZR76015
76016	1.6	22	49	10/200/1000	ZR76016
76018	1.8	22	49	10/200/1000	ZR76018
76019	1.9	24	53	10/200/1000	ZR76019
76020	2.0	24	53	10/200/1000	ZR76020
76021	2.1	27	57	10/200/1000	ZR76021
76022	2.2	27	57	10/200/1000	ZR76022
76023	2.3	30	57	10/200/1000	ZR76023
76024	2.4	30	61	10/200/1000	ZR76024
76025	2.5	30	61	10/200/1000	ZR76025
76026	2.6	33	61	10/200/1000	ZR76026
76027	2.7	33	61	10/200/1000	ZR76027
76028	2.8	33	65	10/200/1000	ZR76028
76029	2.9	33	65	10/200/1000	ZR76029
76030	3.0	36	65	10/200/1000	ZR76030
76031	3.1	36	70	10/200/1000	ZR76031
76032	3.2	36	70	10/200/1000	ZR76032
76033	3.3	39	70	10/200/1000	ZR76033
76034	3.4	39	70	10/200/1000	ZR76034
76035	3.5	39	75	10/200/1000	ZR76035
76036	3.6	39	75	10/250/500	ZR76036
76037	3.7	43	75	10/250/500	ZR76037
76038	3.8	43	75	10/250/500	ZR76038
76039	3.9	43	75	10/250/500	ZR76039
76040	4.0	43	80	10/250/1500	ZR76040
76041	4.1	43	80	10/250/500	ZR76041
76042	4.2	47	80	10/250/1500	ZR76042
76043	4.3	47	80	10/250/500	ZR76043
76044	4.4	47	80	10/250/1500	ZR76044
76045	4.5	47	80	10/250/1500	ZR76045
76046	4.6	47	86	10/250/500	ZR76046
76047	4.7	52	86	10/250/500	ZR76047
76048	4.8	52	86	10/250/500	ZR76048
76049	4.9	52	86	10/250/500	ZR76049
76050	5.0	52	86	10/250/1500	ZR76050
76051	5.1	52	93	10/250/500	ZR76051
76052	5.2	52	93	10/250/500	ZR76052
76053	5.3	57	93	10/250/500	ZR76053
76054	5.4	57	93	10/250/500	ZR76054
76055	5.5	57	93	10/250/1500	ZR76055
76056	5.6	57	93	10/250/500	ZR76056
76057	5.7	57	93	10/250/500	ZR76057
76058	5.8	57	93	10/250/500	ZR76058
76059	5.9	57	93	10/250/500	ZR76059
76060	6.0	63	93	10/250/1500	ZR76060
76061	6.1	63	101	10/100/300	ZR76061
76062	6.2	63	101	10/100/300	ZR76062
76063	6.3	63	101	10/100/300	ZR76063
76064	6.4	63	101	10/100/300	ZR76064
76065	6.5	63	101	10/100/600	ZR76065
76066	6.6	63	101	10/100/300	ZR76066
76067	6.7	63	101	10/100/300	ZR76067
76068	6.8	69	109	10/100/300	ZR76068
76069	6.9	69	109	10/100/300	ZR76069
76070	7.0	69	109	10/100/600	ZR76070
76071	7.1	69	109	10/100/400	ZR76071
76072	7.2	69	109	10/100/400	ZR76072
76073	7.3	69	109	10/100/400	ZR76073
76074	7.4	69	109	10/100/400	ZR76074
76075	7.5	69	109	10/100/400	ZR76075
76076	7.6	75	117	10/100/400	ZR76076
76077	7.7	75	117	10/100/400	ZR76077
76078	7.8	75	117	10/100/400	ZR76078
76079	7.9	75	117	10/100/400	ZR76079
76080	8.0	75	117	10/100/400	ZR76080
76081	8.1	75	117	5/50/200	ZR76081
76082	8.2	75	117	5/50/200	ZR76082
76083	8.3	75	117	5/50/200	ZR76083
76084	8.4	75	117	5/50/200	ZR76084
76085	8.5	75	117	5/50/200	ZR76085
76086	8.6	81	125	5/50/200	ZR76086
76087	8.7	81	125	5/50/200	ZR76087
76088	8.8	81	125	5/50/200	ZR76088
76089	8.9	81	125	5/50/200	ZR76089
76090	9.0	81	125	5/50/200	ZR76090
76091	9.1	81	125	5/50/200	ZR76091
76092	9.2	81	125	5/50/200	ZR76092
76093	9.3	81	125	5/50/200	ZR76093
76094	9.4	81	125	5/50/200	ZR76094
76095	9.5	81	125	5/50/200	ZR76095
76096	9.6	87	133	5/50/200	ZR76096
76097	9.7	87	133	5/50/200	ZR76097
76098	9.8	87	133	5/50/200	ZR76098
76099	9.9	87	133	5/50/200	ZR76099
76100	10.0	87	133	5/50/200	ZR76100
76102	10.2	87	133	5/50/200	ZR76102
76105	10.5	87	133	5/50/200	ZR76105
76110	11.0	94	142	5/50/200	ZR76110
76115	11.5	94	142	5/50/200	ZR76115
76120	12.0	101	151	5/50/200	ZR76120
76125	12.5	101	151	5/50/200	ZR76125
76130	13.0	101	151	5/50/200	ZR76130
76135	13.5	108	160	100	ZR76135
76140	14.0	108	160	100	ZR76140
76145	14.5	114	169	50	ZR76145
76150	15.0	114	169	50	ZR76150
76155	15.5	120	178	50	ZR76155
76160	16.0	120	178	50	ZR76160
76165	16.5	125	184	50	ZR76165
76170	17.0	125	184	50	ZR76170
76175	17.5	130	191	50	ZR76175
76180	18.0	130	191	50	ZR76180
76185	18.5	135	198	50	ZR76185
76190	19.0	135	198	50	ZR76190
76195	19.5	140	205	50	ZR76195
76200	20.0	140	205	50	ZR76200

2 HSS SVEDER Z ZOŽANIM VPETJEM

• HSS SVRDLO SA SUŽENOM DRŠKOM • HSS BURGIJA SA SMANJENIM KONUSIMA



DIN 338 HSS

- High-speed steel, refined
- Compliant with DIN 338 standard
- Relief 13 mm • In a PVC case

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
76135P	13.5	108	160	25/100
76140P	14.0	108	160	25/100
76145P	14.5	114	169	25/50
76150P	15.0	114	169	25/50
76155P	15.5	120	178	25/50
76160P	16.0	120	178	25/50
76165P	16.5	125	184	25/50
76170P	17.0	125	184	25/50
76175P	17.5	130	191	25/50
76180P	18.0	130	191	25/50
76185P	18.5	135	198	25/50
76190P	19.0	135	198	25/50
76195P	19.5	140	205	25/50
76200P	20.0	140	205	25/50

3 SET HSS SVEDROV

• HSS SVRDALA • HSS BURGIJA



DIN 338 HSS

- **Nose angle 118°** • **Ground edges**
- Material - high-speed steel, refined

Code	Range (mm)	The quantity (pcs.)	
76213	1.5-6.5 every 0.5 + 3.2, 4.8	13	25/100
76214	2-8 every 0.5	13	10/50

4 SET HSS SVEDROV

• SET HSS SVRDALA • HSS BURGIJA



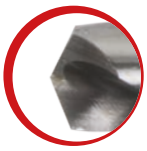
DIN 338 HSS

- **Nose angle 118°** • **Ground edges**
- Material - high-speed steel, refined

Code	Range (mm)	The quantity (pcs.)	
76219	1-10 every 0.5	19	25
76225	1-13 every 0.5	25	10

1 HSS SVEDER

- HSS SVRDLO
- HSS BURGIJA





DIN 338 | DIN 1412C | HSS

- **Nose angle 135° with chamfering adjustment** - enables to make holes quickly, saving time when punching • **Drills made entirely by grinding** - they guarantee high precision and straightness of openings, with efficiency several times higher than for cylindrical or precision ground drills
- Material - high-grade high-speed steel, refined
- Improved abrasion resistance • Improved resilience and torsional strength • Packed and sold in a plastic tube, rectangular, dimensions 0.5 - 8.0 mm 10 pcs each.; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 13.5 - 20.0 mm 1 pc each

Code	⌀ (mm)	Working part lenght (mm)	L total (mm)	
77005	0.5	6	22	10/200/1000
77008	0.8	10	30	10/200/1000
77010	1.0	12	34	10/200/1000
77011	1.1	14	36	10/200/1000
77012	1.2	16	38	10/200/1000
77013	1.3	16	38	10/200/1000
77015	1.5	18	40	10/200/1000
77016	1.6	20	43	10/200/1000
77018	1.8	22	46	10/200/1000
77019	1.9	22	46	10/200/1000
77020	2.0	24	49	10/200/1000
77021	2.1	24	49	10/200/1000
77022	2.2	27	53	10/200/1000
77023	2.3	27	53	10/200/1000
77024	2.4	30	57	10/200/1000
77025	2.5	30	57	10/200/1000
77026	2.6	30	57	10/200/1000
77027	2.7	33	61	10/200/1000
77028	2.8	33	61	10/200/1000
77029	2.9	33	61	10/200/1000
77030	3.0	33	61	10/200/1000
77031	3.1	36	65	10/200/1000
77032	3.2	36	65	10/200/1000
77033	3.3	36	65	10/200/1000
77034	3.4	39	70	10/200/1000
77035	3.5	39	70	10/200/1000
77036	3.6	39	70	10/250/500
77037	3.7	39	70	10/250/500
77038	3.8	43	75	10/250/500
77039	3.9	43	75	10/250/500
77040	4.0	43	75	10/250/1500
77041	4.1	43	75	10/250/500
77042	4.2	43	75	10/250/1500
77043	4.3	47	80	10/250/500
77044	4.4	47	80	10/250/500
77045	4.5	47	80	10/250/1500
77046	4.6	47	80	10/250/500
77047	4.7	47	80	10/250/500
77048	4.8	52	80	10/250/500
77049	4.9	52	86	10/250/500

Code	⌀ (mm)	Working part lenght (mm)	L total (mm)	
77050	5.0	52	86	10/250/1500
77051	5.1	52	86	10/250/500
77052	5.2	52	86	10/250/500
77053	5.3	52	86	10/250/500
77054	5.4	57	93	10/250/500
77055	5.5	57	93	10/250/1500
77056	5.6	57	93	10/250/500
77057	5.7	57	93	10/250/500
77058	5.8	57	93	10/250/500
77059	5.9	57	93	10/250/500
77060	6.0	57	93	10/250/1500
77061	6.1	63	101	10/100/300
77062	6.2	63	101	10/100/300
77063	6.3	63	101	10/100/300
77064	6.4	63	101	10/100/300
77065	6.5	63	101	10/100/600
77066	6.6	63	101	10/100/300
77067	6.7	63	101	10/100/300
77068	6.8	69	109	10/100/600
77069	6.9	69	109	10/100/300
77070	7.0	69	109	10/100/600
77071	7.1	69	109	10/100/400
77072	7.2	69	109	10/100/400
77073	7.3	69	109	10/100/400
77074	7.4	69	109	10/100/400
77075	7.5	69	109	10/100/400
77076	7.6	75	117	10/100/400
77077	7.7	75	117	10/100/400
77078	7,8	75	117	10/100/400
77079	7.9	75	117	10/100/400
77080	8.0	75	117	10/100/400
77081	8.1	75	117	5/50/200
77082	8.2	75	117	5/50/200
77083	8.3	75	117	5/50/200
77084	8.4	75	117	5/50/200
77085	8.5	75	117	5/50/200
77086	8.6	81	125	5/50/200
77087	8.7	81	125	5/50/200
77088	8.8	81	125	5/50/200
77089	8.9	81	125	5/50/200
77090	9.0	81	125	5/50/200
77091	9.1	81	125	5/50/200
77092	9.2	81	125	5/50/200
77093	9.3	81	125	5/50/200
77094	9.4	81	125	5/50/200
77095	9.5	81	125	5/50/200
77096	9.6	87	133	5/50/200
77097	9.7	87	133	5/50/200
77098	9.8	87	133	5/50/200
77099	9.9	87	133	5/50/200
77100	10.0	87	133	5/50/200
77102	10.2	87	133	5/50/200
77105	10.5	87	133	5/50/200
77110	11.0	94	142	5/50/200
77115	11.5	94	142	5/50/200
77120	12.0	101	151	5/50/200
77125	12.5	101	151	5/50/200
77130	13.0	101	151	5/50/200
77135	13.5	108	160	100
77140	14.0	108	160	100
77145	14.5	114	169	50
77150	15.0	114	169	50
77155	15.5	120	178	50
77160	16.0	120	178	50
77165	16.5	125	184	50
77170	17.0	125	184	50
77175	17.5	130	191	50
77180	18.0	130	191	50
77185	18.5	135	198	50
77190	19.0	135	198	50
77195	19.5	140	205	50
77200	20.0	140	205	50

2 SET HSS SVEDROV

- SET HSS SVRDLA • HSS BURGIJA



DIN 338 | DIN 1412C | HSS

- **Nose angle 135° with chamfering adjustment • Drills made entirely by grinding** • Material - high-grade high-speed steel, refined, resistant to torsional stress

Code	Range (mm)	The quantity (pcs.)	
77213	1.5-6.5 every 0.5 + 3.2, 4.8	13	25/100
77214	2-8 every 0.5	13	10/50

3 SET HSS SVEDROV

- SET HSS SVRDLA • HSS BURGIJA



DIN 338 | DIN 1412C | HSS

- **Nose angle 135° with chamfering adjustment • Drills made entirely by grinding** • Material - high-grade high-speed steel, refined, resistant to torsional stress

Code	Range (mm)	The quantity (pcs.)	
77219	1-10 every 0.5	19	25
77225	1-13 every 0.5	25	10

1 HSS - CO SVEDER

• SET HSS-CO SVRDLA • HSS - CO BURGIJA



DIN 338 | DIN 1412C | HSS Co

- **Nose angle 135° with chamfering adjustment** - enables to make holes quickly, saving time when marking off • Cobalt-coated (5% of cobalt) • High temperature resistance • For drilling in high-alloy, titanium, acid-resistant, stainless, high-temperature alloy steels and cast iron (resistance above 900 N/m²) and other materials difficult to machine • **Drills entirely made by grinding** - guarantee high precision and straightness of openings • Packed and sold in a plastic tube, rectangular, dimensions 0.5 - 8.0 mm 10 pcs each.; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 14 - 20.0 mm 1 pc each

Code	Ø (mm)	Working part lenght (mm)	L total (mm)	
78005	0.5	6	22	10/200/1000
78008	0.8	10	30	10/200/1000
78010	1.0	12	34	10/200/1000
78015	1.5	18	40	10/200/1000
78020	2.0	24	49	10/200/1000
78022	2.2	27	53	10/200/1000
78025	2.5	30	57	10/200/1000
78030	3.0	33	61	10/200/1000
78031	3.1	36	65	10/200/1000
78032	3.2	36	65	10/200/1000
78035	3.5	39	70	10/200/1000
78038	3.8	43	75	10/250/500
78040	4.0	43	75	10/250/1500
78041	4.1	43	75	10/250/500
78042	4.2	43	75	10/250/1500
78045	4.5	47	80	10/250/1500
78048	4.8	52	86	10/250/500
78050	5.0	52	86	10/250/1500
78051	5.1	52	86	10/250/500
78052	5.2	52	86	10/250/500
78055	5.5	57	93	10/250/1500
78060	6.0	57	93	10/250/1500
78061	6.1	63	101	10/100/300
78062	6.2	63	101	10/100/300
78065	6.5	63	101	10/100/600
78070	7.0	69	109	10/100/600
78075	7.5	69	109	10/100/400
78080	8.0	75	117	10/100/400
78081	8.1	75	117	5/50/200
78082	8.2	75	117	5/50/200
78085	8.5	75	117	5/50/200
78090	9.0	81	125	5/50/200
78095	9.5	81	125	5/50/200
78100	10.0	87	133	5/50/200
78102	10.2	87	133	5/50/200
78105	10.5	87	133	5/50/200
78110	11.0	94	142	5/50/200
78115	11.5	94	142	5/50/200
78120	12.0	101	151	5/50/200
78125	12.5	101	151	5/50/200
78130	13.0	101	151	5/50/200
78140	14.0	108	160	100
78150	15.0	114	169	50
78160	16.0	120	178	50
78180	18.0	130	191	50
78200	20.0	140	205	50

2 HSS-TIN SVEDER

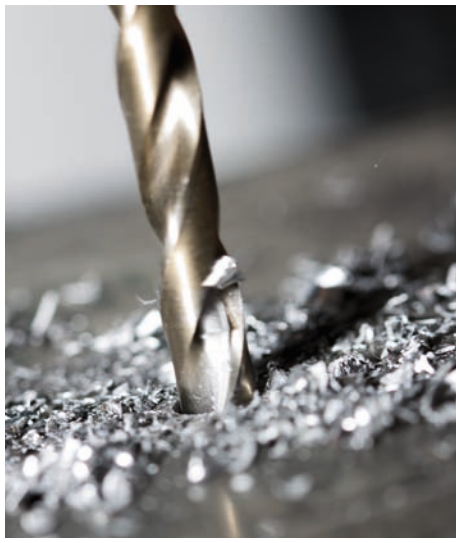
• HSS-TIN SVRDLO • HSS - TIN BURGIJA



DIN 338 | DIN 1412C | HSS TiN

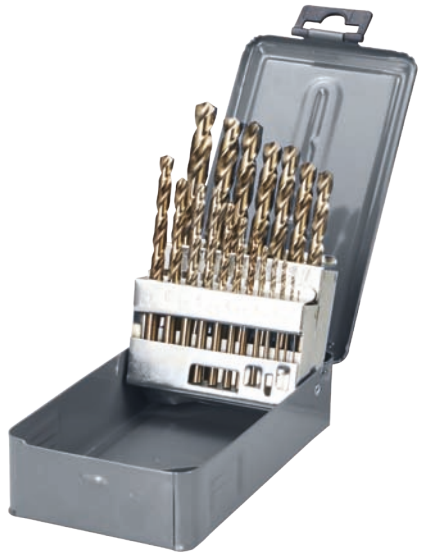
- Nose angle 135° with chamfering adjustment • Drills made entirely by grinding, coated with titanium nitride improving their lifecycle and the quality of opening finishes • Packed - individual case: dimensions 1.0 - 3.0 mm, sold in the sets of 2 pcs

Code	Ø (mm)	Working part lenght (mm)	L total (mm)	
77810	1.0	12	34	2/200/600
77815	1.5	18	40	2/100/300
77820	2.0	24	49	2/100/300
77825	2.5	30	57	2/100/300
77830	3.0	33	61	2/200/600
77832	3.2	36	65	100/300
77835	3.5	39	70	100/300
77840	4.0	43	75	100/300
77842	4.2	43	75	100/300
77845	4.5	47	80	100/300
77848	4.8	52	86	100/300
77850	5.0	52	86	100/300
77852	5.2	57	86	50/200
77855	5.5	57	93	50/200
77860	6.0	63	93	50/200
77865	6.5	69	101	50/200
77870	7.0	69	109	50/100
77875	7.5	75	109	50/100
77880	8.0	75	117	50/100
77885	8.5	36	117	50/100
77890	9.0	81	125	50/100
77895	9.5	81	125	50/100
77900	10.0	87	133	50/100
77905	10.5	87	133	25/50
77910	11.0	94	142	25/50
77915	11.5	94	142	25/50
77920	12.0	101	151	25/50
77925	12.5	101	151	25/50
77930	13.0	101	151	25/50



3 SET HSS-CO SVEDROV

• SET HSS-CO SVRDLA • HSS - CO BURGIJA



DIN 338 | DIN 1412C | HSS Co

- **Nose angle 135° with chamfering adjustment • Drills made entirely by grinding** • Cobalt-coated (5% of cobalt)

Code	Range (mm)	The quantity (pcs.)	
78219	1-10 every 0.5	19	25
78225	1-13 every 0.5	25	10

4 SET HSS-TIN SVEDROV

• SET HSS-TIN SVRDLA • SET HSS-TIN BURGIJA



DIN 338 | DIN 1412C | HSS TiN

- **Nose angle 135° with chamfering adjustment** • Drills made entirely by grinding, coated with titanium nitride improving their lifecycle and the quality of opening finishes, enabling to apply higher machining parameters • Packed - individual case: dimensions 1.0 - 3.0 mm, sold in the sets of 2 pcs

Code	Range (mm)	The quantity (pcs.)	
77990	1-10 co 0.5	19	25

1 HSS STUBBY SVEDER

• SVRDLO • HSS STUBBY BURGIJA



DIN 1412C | DIN 1897 | HSS

- **Nose angle 135° with chamfering adjustment** enabling to make holes quickly, saving time when punching • **Drills entirely made by grinding** - guarantee high precision and straightness of openings • Sold in a rectangular plastic tube: 1.0 - 8.0 mm 10 pcs. each; 8.5 - 13.0 mm 5 pcs. each; 16.0 - 18.0 mm 1 pcs.

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
78410	1.0	6	26	10/200/600
78415	1.5	9	32	10/200/1000
78420	2.0	12	38	10/200/1000
78425	2.5	14	43	10/200/1000
78430	3.0	16	46	10/200/1000
78431	3.1	18	49	10/200/1000
78432	3.2	18	49	10/200/1000
78433	3.3	18	49	10/200/1000
78435	3.5	20	52	10/200/1000
78440	4.0	22	55	10/250/1500
78441	4.1	22	55	10/250/1500
78442	4.2	22	55	10/250/1500
78443	4.3	24	58	10/250/1500
78445	4.5	24	58	10/250/1500
78448	4.8	26	62	10/250/500
78450	5.0	26	62	10/250/500
78451	5.1	26	62	10/250/500
78452	5.2	26	62	10/250/1500
78453	5.3	26	62	10/250/1500
78455	5.5	28	66	10/250/1500
78457	5.7	28	66	10/250/1500
78458	5.8	28	66	10/250/500
78459	5.9	28	66	10/250/1500
78460	6.0	28	66	10/250/1500
78461	6.1	31	70	10/100/300
78462	6.2	31	70	10/100/300
78463	6.3	31	70	10/100/600
78465	6.5	31	70	10/100/600
78467	6.7	31	70	10/100/600
78475	7.5	34	74	10/100/400
78480	8.0	37	79	10/100/400
78485	8.5	37	79	5/50/200
78490	9.0	40	84	5/50/200
78495	9.5	40	84	5/50/200
78500	10.0	43	89	5/50/200
78502	10.2	43	89	5/50/200
78511	11.0	47	95	5/50/200
78512	12.0	51	102	5/50/200
78513	13.0	51	102	5/50/200
78516	16.0	58	115	25/125
78518	18.0	62	123	25/125

2 HSS DOLGI SVEDER

• SVRDLO • HSS DUGA BURGIJA



DIN 1412C | DIN 340 | HSS

- Nose angle 135° with chamfering adjustment • Drills made entirely by grinding – guarantee high accuracy and straightness, especially useful when drilling through drill sleeves • Long drill bits made by grinding are used for drilling in steel, non-ferrous metals and plastics
- Material - high-grade high-speed steel, refined • Sold in a rectangular plastic tube: 0.8 - 8.0 mm po 10 pcs.; 8.2 - 12.0 mm po 5 pcs.; 14.0 - 20.0 mm po 1 pcs.

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
77408	0.8	20	40	10/200/1000
77410	1.0	33	56	10/200/1000
77412	1.2	41	65	10/200/1000
77415	1.5	45	70	10/200/1000
77420	2.0	56	86	10/100/600
77421	2.1	56	86	10/100/600
77422	2.2	59	90	10/100/600
77425	2.5	62	95	10/100/600
77430	3.0	66	100	10/100/600
77431	3.1	69	106	10/100/600
77432	3.2	69	106	10/100/600
77435	3.5	73	112	10/100/600
77438	3.8	78	119	10/100/400
77440	4.0	78	119	10/100/400
77441	4.1	78	119	10/100/400
77442	4.2	78	119	10/100/400
77445	4.5	82	126	10/100/400
77448	4.8	87	132	10/100/400
77450	5.0	87	132	10/100/400
77451	5.1	87	132	10/100/400
77452	5.2	87	132	10/100/400
77455	5.5	91	139	10/100/400
77460	6.0	91	139	10/100/400
77461	6.1	97	148	10/100/400
77462	6.2	97	148	10/100/400
77465	6.5	97	148	10/100/400
77470	7.0	102	156	10/100/400
77475	7.5	102	156	10/100/400
77480	8.0	109	165	10/100
77482	8.2	109	165	5/100
77485	8.5	109	165	5/100
77490	9.0	115	175	5/100
77495	9.5	115	175	5/100
77500	10.0	121	184	5/100
77502	10.2	121	184	5/100
77505	10.5	121	184	5/100
77511	11.0	128	195	5/100
77512	12.0	134	205	5/100
77514	14.0	140	214	50
77515	15.0	144	200	100
77516	16.0	149	227	50
77517	17.0	154	235	100
77518	18.0	158	241	50
77520	20.0	166	254	50

3 HSS DVOJNI SVEDER

• HSS DVOSTRUKO SVRDLO • HSS DVOSTRUKA BURGIJA



HSS

- **Ground • Nose angle 135° with chamfering adjustment**
- Sold in a rectangular plastic tube, 10 pcs each

Code	Ø (mm)	Total lenght (mm)	
78630	3.0	49	10/200/600
78631	3.1	49	10/200/600
78632	3.2	49	10/200/600
78633	3.3	49	10/200/600
78635	3.5	52	10/200/1000
78640	4.0	55	10/250/1500
78641	4.1	55	10/250/500
78642	4.2	55	10/250/1500
78645	4.5	55	10/250/1500
78650	5.0	62	10/250/1500
78651	5.1	62	10/250/500
78652	5.2	62	10/250/500

1 SVEDER ZA OPAŽ DOLGI

• DUGO SVRDLO ZA OPLATU • DUGA BURGIJA ZA OPLATU

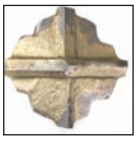


• Length 400 and 600 mm

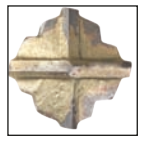
Code	Ø (mm)	Length (mm)		
76410	10	400	x	20/100
76412	12	400	x	20/100
76414	14	400	x	20/100
76416	16	400	x	20/100
76418	18	400	x	10/50
76420	20	400	x	10/50
76610	10	600	x	20/100
76612	12	600	x	20/100
76614	14	600	x	20/100
76616	16	600	x	20/100
76618	18	600	x	10/50
76620	20	600		10/50



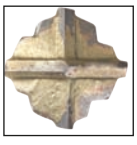
PROLINE SVEDRNI NASTAVKI ZA BETON

Opis	Karakteristike	Glava
ZIDARSKI SVEDER ZA VRTALNIK **Ravni trup**	**NASTAVKI ZA VRTALNIK ZA ZIDARSTVO IN OPEKE - RAVEN SVEDER** • Osnovni sveder za vsa zidarska dela. • Sveder za vrtalnik z valjanim žlebom z vrhom iz cementiranega karbida. **Za uporabo v gradbenih materialih, ki se uporabljajo v stenah: silikat, opeke, cement in apno.** **Uporaba:** vrtalniki **Premer svedra: 3 mm do 16 mm**	 
SDS PLUS S2 SVEDER ZA BETON SDS plus	**NASTAVKI ZA VRTALNIK ZA ODPRTI BETON Z DVOJNIM ŽLEBOM SVEDRA IN SDS PLUS TRUPOM** • Vrh s karbidnim tungstenom (TCT) s povečano centrirno konico, ki omogoča vrtanje brez hoje • Dvojni žleb duši vibracije in poveča moč vrtalnika • Hitro odstranjevanje vrtalnika iz lukenj **Za uporabo v gradbenih materialih:** nearmiran beton, naravni kamen, stene, opeka **Premer vrtanja: 4 mm do 28 mm.**	 
SDS PLUS S4 SVEDRI ZA BETON SDS plus	**NASTAVKI ZA VRTALNIK ZA OJAČANE BETONE Z DVOJNIM ŽLEBOM, S4 EDGE IN SDS PLUS TRUPOM** • Omogoča učinkovito vrtanje v armiran betonu (svedri se ne ustavijo v stiku z armaturo), 3-krat bolj učinkovito od standardnega svedra SDS-Plus • Vrh s štirimi robovi S4 omogoča natančno in zanesljivo delovanje ter vodenje svedra • Visoka dimenzijska toleranca za pridobljene luknje • Vrh iz volfram karbida (TCT) s povečano konico za centriranje omogoča vrtanje brez hoje • Dvojni žleb duši vibracije in poveča moč vrtalnika **Za uporabo v gradbenih materialih:** nearmiran beton, naravni kamen, stene, opeka **Premer vrtanja: 4 mm do 28 mm**	 
SDS PLUS S4 SVEDRI ZA BETON SDS max	**NASTAVKI ZA VRTALNIK ZA OJAČANE BETONE Z DVOJNIM ŽLEBOM, S S4 EDGE IN SDS PLUS TRUPOM** • Omogoča učinkovito vrtanje v armiranobetonu (sveder se ne ustavi v stiku z armaturo • Štirirobni vrh S4 omogoča natančno in zanesljivo vrtanje in vodenje svedra • Visoka dimenzijska toleranca za pridobljene luknje • Rob s karbidnimi vlakni (TCT) s povečanim vrhom za centriranje, ki omogoča vrtanje brez zdrsov • Dvojni žleb duši vibracije in poveča moč vrtalnika • Povečana učinkovitost in moč v primerjavi z vrtalnimi svedri SDS Plus **Za uporabo v gradbenih materialih:** armirani beton, naravni kamen, opeka, stene, opečni klinker, granit, marmor in drugi naravni kamni **Premer svedra: 16 mm do 40 mm**	 

SVRDLA ZA BUŠILICU ZA BETON

Opis	Karakteristike	Glava
ZIDARSKO SVRDLO ZA BUŠILICU	**SVRDLA ZA BUŠILICU ZA ZIDOVE I OPEKU - RAVNO SVRDLO** • Osnovno svrdlo za sve zidarske radove • Svrdlo za bušilicu s valjanim utorom s vrhom od cementiranog karbida **Za uporabu u građevinskim materijalima koji se koriste u zidovima:** silikat, blokovi od opeke, cement i vapno. Upotreba: bušilice **Promjer svrdla: od 3 mm do 16 mm**	 
SDS PLUS S2 SVRDLO ZA BETON	**SVRDLA ZA BUŠILICU ZA BETON OTVORENE STRUKTURE SA DVOSTRUKIM ŽLIJEBOM SVRDLA I SDS PLUS TRUPOM** • Tungsten karbidni vrh (TCT) s povećanim šiljkom za centriranje koji omogućuje bušenje bez praznog hoda • Dvostruki utor prigušuje vibracije i povećava snagu bušilice • Brzo vađenje bušilice iz rupe **Za uporabu u građevinskim materijalima:** nearmirani beton, prirodni kamen, zidovi, opeka **Promjeri bušenja: od 4 mm do 28 mm**	 
SDS PLUS S4 SVRDLA ZA BETON	**SVRDLA ZA BUŠILICU ZA OJAČANE BETONE SA DVOSTRUKOM ŽLIJEBOM, Sa S4 EDGE I SDS PLUS TRUP** • Omogućuje učinkovito bušenje u armiranom betonu (svrdla se ne zaustavljaju u kontaktu s armaturom), 3 puta učinkovitiji od standardnog SDS-Plus svrdla • Vrh s četiri S4 ruba omogućuje precizan i pouzdan rad i navođenje svrdla • Visoka dimenzijska tolerancija za dobivene rupe • Vrh od volfram karbida (TCT) s povećanim šiljkom za centriranje omogućuje bušenje bez praznog hoda • Dvostruki utor prigušuje vibracije i povećava snagu bušilice **Za uporabu u građevinskim materijalima:** nearmirani beton, prirodni kamen, zidovi, opeka **Promjeri bušenja: od 4 mm do 28 mm**	 
SDS MAX S4 SVRDLA ZA BETON	**NASTAVCI ZA BUŠILICU ZA OJAČANE BETONE S DVOSTRUKIM UTOROM, SA S4 RUBOM I SDS MAX TRUPOM** • Omogućuje učinkovito bušenje u armiranom betonu (svrdla se ne zaustavljaju u kontaktu s armaturom. • S4 vrh s četiri ruba omogućuje precizno i pouzdano bušenje i navođenje svrdla. • Visoka dimenzijska tolerancija za dobivene rupe. • Rub s karbidnim vlaknima (TCT) s povećanim šiljkom za centriranje koji omogućuje bušenje bez proklizavanja. • Dvostruki utor prigušuje vibracije i povećava snagu bušilice. • Povećana učinkovitost i snaga u usporedbi s SDS Plus svrdlima za beton. **Za uporabu u građevinskim materijalima:** armirani beton, prirodni kamen, cigla, zidovi, klinker opeka, granit, mramor i drugo prirodno kamenje **Promjer svrdla: od 16 mm do 40 mm**	 

BURGIJE ZA BUŠILICE ZA BETON

Opis	Karakteristike	Glava	
BURGIJE ZA ZIDARSKU BUŠILICU	**NASTAVCI ZA BUŠILICU ZA ZIDARSTVO I CIGLE - RAVNO SVRDLO** • Osnovne bušilice za sve zidarske radove. • Svrdlo za bušilicu s valjanim žlijebom s vrhom od cementiranog karbida. **Za upotrebu na građevinskim materijalima, koji se koriste u zidovima:** silikat, blokovi od cigle, cigle, cement i vapno. Upotreba: bušilice **Prečnik svrdla: od 3 mm do 16 mm**		
SDS PLUS S2 SVRDLO ZA BETON	**NASTAVCI ZA BUŠILICU ZA OTVORENI BETON S DVOSTRUKIM ŽLIJEBOM SVRDLA I SDS PLUS TIJELOM** • Vrh s karbidnim tungstenom (TCT) s povećanim vrhom za centriranje koji omogućava bušenje bez hodanja • Dvostruki žlijeb prigušuje vibracije i povećava snagu bušilice • Brzo uklanjanje bušilice iz rupe **Za upotrebu na građevinskim materijalima:** nearmirani beton, prirodni kamen, zidovi, cigla **Prečnik i bušenja: od 4 mm do 28 mm.**		
SDS PLUS S4 SVRDLA ZA BETON	**NASTAVCI ZA BUŠILICU ZA OJAČANE BETONE SA DVOSTRUKOM ŽLIJEBOM, SA S4 EDGE I SDS PLUS TIJELO** • Omogućava djelotvorno bušenje u armiranom betonu (svrdla se ne zaustavljaju u kontaktu s armaturom), 3 puta više djelotvoran od standardnog SDS-Plus svrdla • Vrh s četiri S4 ruba omogućava precizan i pouzdan rad i navođenje svrdla • Visoka dimenzijska tolerancija za dobivene rupe • Vrh od volfram-karbida (TCT) s povećanim vrhom za centriranje omogućava bušenje bez hodanja • Dvostruki žlijeb smanjuje vibracije i povećava snagu bušilice **Za upotrebu u građevinskim materijalima:** nearmirani beton, prirodni kamen, zidovi, cigla **Prečnik i bušenja: od 4 mm do 28 mm**		
SDS MAX S4 SVRDLA ZA BETON	**NASTAVCI ZA BUŠILICU ZA POJAČANE BETONE S DVOSTRUKOM ŽLIJEBOM, SA S4 EDGE I SDS MAX TIJELOM** • Omogućava djelotvorno bušenje u armiranom betonu (svrdla se ne zaustavljaju u kontaktu s armaturom) • S4 vrh s četiri ruba omogućava precizno i pouzdano bušenje i navođenje svrdla. • Visoka dimenzijska tolerancija za dobivene rupe • Rub s karbidnim vlaknima (TCT) s povećanim vrhom za centriranje, koji omogućava bušenje bez proklizavanja • Dvostruki žlijeb smanjuje vibracije i povećava snagu bušilice • Povećana djelotvornost i snaga u poređenju sa SDS Plus svrdlima za beton **Za upotrebu u građevinskim materijalima:** armirani beton, prirodni kamen, cigla, zidovi, klinker cigla, granit, mramor i drugo prirodno kamenje **Prečnik svrdla: od 16 mm do 40 mm**		

1 SVEDER ZA BETON

• SVRDLO ZA BETON • ZIDARSKA BURGIJA



• Drills for general masonry work • Have rolled flutes and a sintered carbide edge, which allows quick drilling in soft building materials • Supplied in a plastic case

Code	Ø (mm)	Total lenght (mm)		
73103	3	60	x	50/300
73104	4	75	x	50/300
73105	5	85	x	50/300
73106	6	100	x	50/200
73108	8	120	x	50/200
73109	9	120	x	50/200
73110	10	120	x	50/200
73112	12	150	x	50/200
73206	6	200	x	50/100
73208	8	200	x	50/100
73210	10	200	x	50/100
73212	12	200	x	50/100
73214	14	200	x	25/50
73216	16	200	x	25/50
73306	6	300	x	50/100
73308	8	300	x	50/100
73310	10	300	x	50/100
73312	12	300	x	50/100
73408	8	400	x	25/50
73410	10	400	x	25/50
73412	12	400	x	25/50
73414	14	400	x	25/50
73416	16	400	x	25/50
73608	8	600	x	25/50
73610	10	600	x	25/50
73612	12	600	x	25/50
73614	14	600	x	25/50

2 SET SVEDROV ZA BETON

• SVRDLO ZA BETON • ZIDARSKA BURGIJA



• Packed in a plastic box, making a base when opened

Code	Dimensions (mm)	The quantity (pcs.)	
73703	6, 8, 10	3	25/100
73705	4, 5, 6, 8, 10	5	25/100
73708	3, 4, 5, 6, 7, 8, 9, 10	8	10/50



1 SVEDER SDS PLUS 4-REZNI

• SVRDLO SDS PLUS 4-REZNO
• UDARNA BURGIJA SDS PLUS 4-REZNA





SDS plus

• Drills for industrial and professional applications • For drilling in concrete and granite • Double twist ensures quick bore mill release • 4-blade insert with optimised geometry

Code	Ø (mm)	Total lenght (mm)		
70411	4	110	x	25/250
70416	4	160	x	25/200
70511	5	110	x	25/250
70516	5	160	x	25/200
70611	6	110	x	25/250
70616	6	160	x	25/200
70621	6	210	x	25/100
70626	6	260	x	25/100
70811	8	110	x	25/250
70816	8	160	x	25/200
70821	8	210	x	25/100
70826	8	260	x	25/100
70830	8	300	x	25/100
70835	8	350	x	25/100
70840	8	400	x	25/100
70845	8	450	x	25/100
71011	10	110	x	25/250
71016	10	160	x	25/200
71021	10	210	x	25/100
71026	10	260	x	25/100
71030	10	300	x	25/100
71035	10	350	x	25/100
71040	10	400	x	25/100
71045	10	450	x	25/100
71060	10	600	x	20/40
71080	10	800	x	20/40
71216	12	160	x	25/200
71221	12	210	x	25/100
71226	12	260	x	25/100
71230	12	300	x	25/100
71235	12	350	x	25/100
71240	12	400	x	25/100
71245	12	450	x	25/100
71260	12	600	x	20/40
71316	13	160	x	25/200
71326	13	260	x	25/100
71416	14	160	x	25/200
71421	14	210	x	25/100
71426	14	260	x	25/100
71430	14	300	x	25/100
71440	14	400	x	25/100
71445	14	450	x	20/40
71460	14	600	x	20/40
71616	16	160	x	20/80
71621	16	210	x	20/80
71626	16	260	x	20/80
71630	16	300	x	20/80
71635	16	350	x	20/40
71640	16	400	x	20/40
71645	16	450	x	20/40
71660	16	600	x	20/40
71680	16	800	x	20/40
71821	18	210	x	10/20
71826	18	260	x	10/20
71835	18	350	x	10/20
71840	18	400	x	10/20
71845	18	450	x	10/20
71860	18	600	x	10/20
72021	20	210	x	10/20
72026	20	260	x	10/20
72030	20	300	x	10/20
72040	20	400	x	10/20
72045	20	450	x	10/20
72060	20	600	x	10/20
72080	20	800	x	10/20
72221	22	210	x	10/20
72226	22	260	x	10/20
72230	22	300	x	10/20
72240	22	400	x	10/20
72245	22	450	x	10/20
72260	22	600	x	10/20
72280	22	800	x	10/20
72426	24	260	x	10/20
72440	24	400	x	10/20
72460	24	600	x	10/20
72480	24	800	x	10/20
72530	25	300	x	10/20
72545	25	450	x	10/20
72560	25	600	x	10/20
72626	26	260	x	10/20
72640	26	400	x	10/20
72660	26	600	x	10/20
72840	28	400	x	5/10
72860	28	600	x	5/10
72880	28	800	x	5/10

2 SVEDER SDS PLUS

• SVRDLO SDS PLUS • UDARNA BURGIJA SDS PLUS





SDS plus

• Drills for industrial and professional applications • Specially-shaped solid carbide insert ensures improved durability, very high performance, accurate centered drilling and reduced load • For drilling in concrete, granite and other natural stones • Double twist ensures quick bore mill release

Code	Ø (mm)	Total lenght (mm)		
90411	4	110	x	25/250
90416	4	160	x	25/200
90511	5	110	x	25/250
90516	5	160	x	25/200
90611	6	110	x	25/250
90616	6	160	x	25/200
90621	6	210	x	25/100
90626	6	260	x	25/100
90811	8	110	x	25/250
90816	8	160	x	25/200
90821	8	210	x	25/100
90826	8	260	x	25/100
90830	8	300	x	25/100
90835	8	350	x	25/100
90840	8	400	x	25/100
90845	8	450	x	25/100
91011	10	110	x	25/250
91016	10	160	x	25/200
91021	10	210	x	25/100
91026	10	260	x	25/100
91030	10	300	x	25/100
91035	10	350	x	25/100
91040	10	400	x	25/100
91045	10	450	x	25/100
91060	10	600	x	20/40
91080	10	800	x	20/40
91216	12	160	x	25/200
91221	12	210	x	25/100
91226	12	260	x	25/100
91230	12	300	x	25/100
91235	12	350	x	25/100
91240	12	400	x	25/100
91245	12	450	x	25/100
91260	12	600	x	20/40

Code	Ø (mm)	Total lenght (mm)		
91316	13	160	x	25/200
91326	13	260	x	25/100
91416	14	160	x	25/200
91421	14	210	x	25/100
91426	14	260	x	25/100
91430	14	300	x	25/100
91440	14	400	x	25/100
91445	14	450	x	20/40
91460	14	600	x	20/40
91616	16	160	x	20/80
91621	16	210	x	20/80
91626	16	260	x	20/80
91630	16	300	x	20/80
91635	16	350	x	20/40
91640	16	400	x	20/40
91645	16	450	x	20/40
91660	16	600	x	20/40
91680	16	800	x	20/40
91821	18	210	x	10/20
91826	18	260	x	10/20
91835	18	350	x	10/20
91840	18	400	x	10/20
91845	18	450	x	10/20
91860	18	600	x	10/20
92021	20	210	x	10/20
92026	20	260	x	10/20
92030	20	300	x	10/20
92040	20	400	x	10/20
92045	20	450	x	10/20
92060	20	600	x	10/20
92080	20	800	x	10/20
92221	22	210	x	10/20
92226	22	260	x	10/20
92230	22	300	x	10/20
92240	22	400	x	10/20
92245	22	450	x	10/20
92260	22	600	x	10/20
92280	22	800	x	10/20
92426	24	260	x	10/20
92440	24	400	x	10/20
92460	24	600	x	10/20
92480	24	800	x	10/20
92530	25	300	x	10/20
92545	25	450	x	10/20
92560	25	600	x	10/20
92626	26	260	x	10/20
92640	26	400	x	10/20
92660	26	600	x	10/20
92840	28	400	x	5/10
92860	28	600	x	5/10
92880	28	800	x	5/10

3 SET SVEDROV SDS PLUS

• SET SVRDLA SDS PLUS • UDARNA BURGIJA SDS PLUS



SDS plus

• Drills for industrial and professional applications • Specially-shaped solid carbide insert ensures improved durability, very high performance, accurate centered drilling and reduced load • For drilling in masonry walls, concrete, granite and other natural stones

Code	Dimensions (mm)	The quantity (pcs.)	
90003	6, 8, 10 x 110	3	25/50
90005	5, 6, 8, 10, 12 x 160	5	20/40
90006	6, 8, 10 x 110, 160	6	20/40

1 SVEDER SDS MAX 4-REZNI

• SVRDLO SDS MAX 4-REZNO
• BURGIJA ZA BETON SDS MAX 4-REZNO



SDS max

• Drills for industrial and professional applications • For drilling in concrete and granite • Double twist ensures quick dust release • 4-blade insert with optimised geometry

Code	Ø (mm)	Total lenght (mm)		
71634	16	340	x	5/50
71654	16	540	x	10/40
71692	16	920	x	5/20
71834	18	340	x	5/50
71854	18	540	x	10/40
71892	18	920	x	5/20
72232	22	320	x	10/50
72252	22	520	x	10/30
72272	22	720	x	10/30
72292	22	920	x	5/15
72432	24	320	x	10/50
72452	24	520	x	10/20
72532	25	320	x	10/30
72552	25	520	x	10/20
72572	25	720	x	10/20
72592	25	920	x	5/10
72652	26	520	x	10/20
72837	28	370	x	5/25
72857	28	570	x	3/15
72867	28	670	x	5/10
72892	28	920	x	3/12
73037	30	370	x	5/20
73057	30	570	x	3/15
73072	30	720	x	5/10
73092	30	920	x	2/10
73237	32	370	x	5/25
73257	32	570	x	2/10
73272	32	720	x	5/10
73292	32	920	x	2/10
73537	35	370	x	5/20
73557	35	570	x	2/10
73567	35	670	x	5/10
73572	35	720	x	5/10
73592	35	920	x	2/6
74037	40	370	x	5/25
74057	40	570	x	3/15
74072	40	720	x	5/10
74092	40	920	x	2/6



2 DLETO SDS MAX

• DLJETO SDS MAX • STOLARSKO DLIJETO SDS MAX



Cr HRC 50±2 SDS max

• Chisel 25 mm

Code	Dimensions (mm)	Width (mm)		
81720	18 x 300	25	x	10/50

3 SET DLET SDS MAX

• SET DLJETA SDS MAX • SET DLIJETA SDS MAX



Cr HRC 50±2 SDS max

Code	Size (mm)	Width (mm)		
• pointed				
81710	18 x 280	-	x	10/50
81711	18 x 400	-	x	10/20
81712	18 x 600	-	x	5/20
• flat				
81713	18 x 280	25	x	10/50
81714	18 x 400	25	x	10/20
81715	18 x 600	25	x	5/20
• wide				
81716	18 x 280	50	x	5/35
81717	18 x 400	50	x	5/25
81718	18 x 600	50	x	5/20
81719	18 x 300	75	x	5/25

4 DLETO SDS PLUS S KRILCI

• DLIJETO SDS PLUS S KRILCIMA • MISTRIJA LEPTIR SDS MAX



Cr HRC 50±2 SDS max

• Designed for brick, cellular concrete
• Wings ensure stable chisel guiding

Code	Size (mm)	Width (mm)		
81722	18 x 380	23	x	5/25

5 DLETO ŠPIČASTO SDS PLUS

• DLIJETASTO SVRDLO SDS PLUS
• DLIJETASTA BURGIJA



SDS plus

Code	Size (mm)	
81730	17 x 250	25/50

6 PLOŠČATO DLETO SDS PLUS

• PLOSNATO DLIJETO SDS PLUS • PLJOSNATO DLIJETO SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)		
• flat				
81733	17 x 250	20	x	25/50
• wide				
81731	17 x 250	40	x	25/50

7 DLETO ZA UTORE SDS PLUS

• DLIJETO ZA UTORE SDS PLUS
• DLIJETO ZA UTIKAČE SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)		
81732	17 x 250	23	x	25/50

8 ADAPTER SDS PLUS

• ADAPTER SDS PLUS
• ADAPTER SDS PLUS



SDS plus

• Thread 1/2" • SDS plus chuck with a counter bolt

Code		
81724	x	25/200

PROLINE SVEDRNI NASTAVKI ZA LES

Opis	Karakteristike	Trup	Glava
NASTAVKI VRTALNIK ZA LES S SPIRALNIM ŽLEBOM, RAVNEGA TRUPA	Posebna oblika žleba za praznjenje žleba, ki se začne s posebno konico, olajša in omogoča udobno vrtanje v željeni smeri. **Za odprtine premera 3 do 12 mm in globine cca. 100 do 150 mm**	RAVEN	 
NASTAVKI ZA VRTALNIKE ZA LES, ŠESTEROKOTNI TRUP	Rezalni del je sploščen in ima dve ravni, **ostri rezili. Premer rezila je od 6 do 45 mm**, šesterokotni trup pa se varno pritrdi na vpenjalno glavo.	HEX	 
POSEBNI NASTAVKI VRTALNIKA ZA VRTANJE LESA (AUGERS), ŠESTEROKOTNI TRUP	Ti vrtalniki imajo eno spiralo z enim trupom. En žleb v svedru s takšno obliko je velik in omogoča enostavno odstranjevanje svedrov iz izvrtin. Delovni del je prevlečen s strgalom, rezalnikom in vodilom z končnim navojem. Vrtalnik je izdelan iz visokokakovostnega legiranega jekla z valjastim robom. **Ti konci se uporabljajo za izdelavo globokih lukenj v lesu v širokem razponu premera med 6-40 mm in globino 200-400 mm.**	HEX	 



PROLINE SVRDLA ZA BUŠILICE ZA DRVO

Opis	Karakteristike	Trup	Glava	
SVRDLA ZA BUŠILICE ZA DRVO SA SPIRALNIM UTOROM, RAVNOG TRUPA	Poseban oblik utora za pražnjenje s posebnim šiljkom na vrhu olakšava i omogućuje jednostavno bušenje u željenom smjeru. **Za otvore promjera od 3 do 12 mm i a dubine od cca. 100 do 150 mm**	RAVNO		
SVRDLA ZA BUŠILICE ZA DRVO, ŠESTEROSTRANI TRUP	Rezni dio je spljošten i ima dvije ravne, oštre oštrice. **Promjeri oštrica su u rasponu od 6 do 45 mm**, a šesterostrani trup sigurno pričvršćenje u steznoj glavi	HEX		
SPECIJALNA SVRDLA ZA BUŠILICE ZA BUŠENJE DRVA (AUGERS), ŠESTEROSTRANI TRUP	Ova svrdla imaju jednu spiralu s jednom trupom. Jedan utor u svrdlu takvog oblika je velik i omogućuje njegovo jednostavno vađenje iz izbušene rupe. Radni dio je presvučen ostrugom, rezačem i vodilicom s konusnim navojem. Svrdlo je izrađeno od visokokvalitetnog legiranog čelika, s valjkastim rubom. **Ovi šiljci (augeri) se koriste za izradu dubokih rupa u drvu u širokom rasponu promjera, između 6-40 mm i dubine od 200-400 mm**	HEX		



PROLINE NASTAVCI BUŠILICE ZA DRVO

Opis	Karakteristike	Tijelo	Glava
NASTAVCI BUŠILICE ZA DRVO SA SPIRALNIM ŽLIJEBOM, RAVNOG TIJELA	Poseban oblik žlijeba za pražnjenje žlijeba, koji započinje posebnim šiljkom, olakšava i omogućava udobno bušenje u željenom smjeru. **Za otvore prečnika od 3 do 12 mm i dubine od cca. 100 do 150 mm**	RAVNO	 
NASTAVCI BUŠILICE ZA DRVO, ŠESTOSTRANO TIJELO	Rezni dio je plosnat i ima dvije ravne, šiljate oštrice. **Prečnik i oštrica su u rasponu od 6 do 45 mm**, a šestostrano tijelo osigurava pričvršćivanje u steznoj glavi	HEX	 
POSEBNI NASTAVCI BUŠILICE ZA BUŠENJE DRVETA (AUGERS), ŠESTOSTRANO TIJELO	Ove bušilice imaju jednu spiralu s jednom tijelom. Jedan žlijeb u bušilici s takvim oblikom je velik i omogućava jednostavno vađenje svrdla iz izbušene rupe. Radni dio je presvučen ostrugom, rezačem i vodilicom s konusnim navojem. Bušilica je izrađena od visokokvalitetnog legiranog čelika, s valjkastom ivicom. **Ovi šiljci (augeri) se koriste za izradu dubokih rupa u drvetu u širokom rasponu prečnika, između 6 - 40 mm i dubine od 200 - 400 mm**	HEX	 



1 LESNI SVEDER

• SVRDLO ZA DRVO • BRUGIJA ZA DRVO



- High-quality tool alloy steel
- Delivered in plastic case

Code	Ø (mm)		
26273	3.0	x	50/300
26274	4.0	x	50/300
26275	5.0	x	50/300
26276	6.0	x	50/200
26277	7.0	x	50/200
26278	8.0	x	50/200
26279	9.0	x	50/200
26280	10.0	x	50/200
26282	12.0	x	50/200

2 SET LESNIH SVEDROV

• SET SVRDALA ZA DRVO • SET BRUGIJA ZA DRVO



- High-quality tool alloy steel
- In a plastic box, being a base when open

Code	Dimensions (mm)	The quantity (pcs.)	
26295	4, 5, 6, 8, 10	5	25/100
26298	3, 4, 5, 6, 7, 8, 9, 10	8	10/50

3 RAPID SVEDER

• RAPID SVRDLO
• BRUGIJA



Ø 35mm | 2 EDGES | HRC 20±2

- Made from high-grade steel • For drilling holes for furniture hinges • Rolled shank 8 mm • Two cutting edges improving drilling performance

Code	Ø (mm)	Total lenght (mm)		
31398	35	88	x	120

4 LESNI SVEDER - LEVIS

• SVRDLO ZA DRVO • BRUGIJA ZA DRVO



- Threaded guiding blade • For drilling in soft and hard wood as well as in laminated components • Hexagonal handle • Delivered in plastic case

Code	Ø (mm)	Total lenght (mm)		
26806	6	230	x	50/200
26808	8	230	x	50/200
26810	10	230	x	50/200
26812	12	230	x	50/200
26814	14	230	x	25/100
26816	16	230	x	25/100
26818	18	230	x	25/100
26820	20	230	x	25/100
26822	22	230	x	25/50
26824	24	230	x	25/50
26825	25	230	x	20/40
26826	26	230	x	20/40
26828	28	230	x	20/40
26830	30	230	x	20/40
26835	35	230	x	10/20
26840	40	230	x	10/20
26910	10	460	x	50/100
26912	12	460	x	50/100
26914	14	460	x	25/50
26916	16	460	x	25/50
26918	18	460	x	25/50
26920	20	460	x	25/50
26922	22	460	x	10/20
26924	24	460	x	10/20
26925	25	460	x	10/20
26926	26	460	x	10/20
26928	28	460	x	10/20
26930	30	460	x	10/20
26935	35	460	x	5/10
26940	40	460	x	5/10

5 SVEDER ZA STEKLO

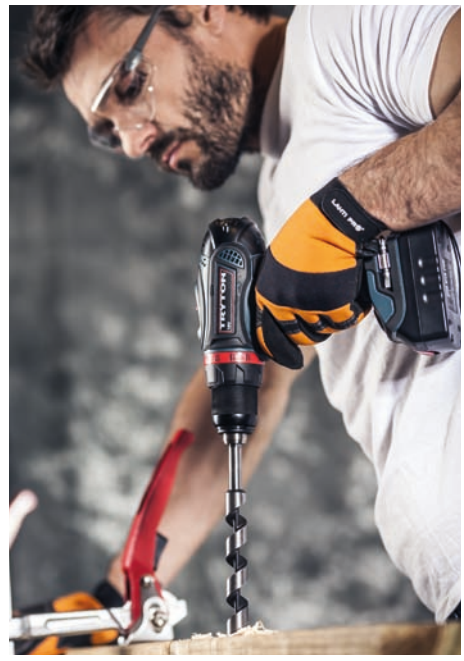
• SVRDLO ZA STAKLO • BRUGIJA ZA STAKLO



WET DRILLING | YG-6X

- Blade made from tungsten carbide YG-6X
- Application: wet drilling in glass and soft ceramic products • Roller shank

Code	Ø (mm)	Total lenght (mm)		
81903	3	65	x	100/400
81904	4	65	x	100/400
81905	5	68	x	100/400
81906	6	72	x	100/400
81908	8	80	x	100/400
81910	10	90	x	50/200



6 PLOŠČATI SVEDER

• PLOSNATO SVRDLO • PLJOSNATA BRUGIJA



- Tip and blade ground to ensure precision centering • Perfect drills for making openings in wood, wood products and MDF boards
- Hexagonal handle • Delivered in plastic case

Code	Ø (mm)	Total lenght (mm)		
26606	6	150	x	100/400
26608	8	150	x	100/400
26610	10	150	x	100/400
26612	12	150	x	100/400
26613	13	150	x	100/400
26614	14	150	x	100/400
26616	16	150	x	100/400
26618	18	150	x	100/400
26620	20	150	x	100/400
26622	22	150	x	50/200
26624	24	150	x	50/200
26625	25	150	x	50/200
26626	26	150	x	50/200
26628	28	150	x	50/200
26630	30	150	x	50/200
26632	32	150	x	50/200
26634	34	150	x	50/200
26635	35	150	x	50/200
26636	36	150	x	50/200
26638	38	150	x	50/200
26640	40	150	x	50/200
26645	45	150	x	50/200

7 PALICA ZA PODALJŠANJE

• PRODUŽNA ŠIPKA
• PRODUŽNA ŠIPKA

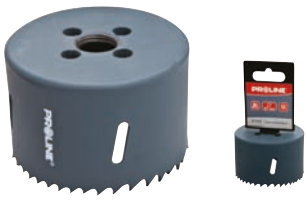


- High-quality tool alloy steel
- In a plastic box, being a base when open

Code	Dimensions (mm)		
26691	150	x	50/100
26693	300	x	50

1 BI-METALNA KRONSKA ŽAGA

• BI-METALNA KRONSKA PILA
• BI-METALNA KRUNSKA PILA



Ø 14,0-140,0 mm | BI-METAL | HSS

- Bi-metal hole saws are made from high-speed tool steel HSS • With a chuck to install adapter for hexagonal or SDS-plus socket
- Designed for machining metals, especially aluminium and steel, as well as stainless steel, nonferrous metals, plastic and wood • Need adapter and centering drill • Steel drilling should be made when wet • Alternate number of teeth 4/6TPI • Drilling depth 38 mm

Code	Ø (mm)		
27114	14	x	25/200
27116	16	x	25/200
27119	19	x	25/200
27120	20	x	25/200
27122	22	x	25/200
27124	24	x	25/200
27125	25	x	25/200
27127	27	x	25/200
27129	29	x	25/200
27130	30	x	25/200
27132	32	x	25/100
27135	35	x	25/100
27138	38	x	25/100
27140	40	x	25/100
27144	44	x	25/100
27146	46	x	25/100
27148	48	x	25/100
27151	51	x	25/100
27154	54	x	25/100
27157	57	x	25/100
27160	60	x	10/50
27164	64	x	10/50
27167	67	x	10/50
27168	68	x	10/50
27170	70	x	10/50
27173	73	x	10/50
27183	83	x	10/50
27192	92	x	10/50
27195	95	x	2/50
28102	102	x	2/20
28105	105	x	2/20
28121	121	x	2/20
28127	127	x	2/20
28140	140	x	2/10

2 SVEDER S POGREZALOM 7MM

• SVRDLO S UPUŠTAČEM 7 MM
• BURGIJA S UPUŠTAČEM 7 MM



PLASTIC | WOOD | Ø 7mm | Ø3.5mm

- Made from high-quality materials, hardness 40HRC • Three cutting edges improving drilling performance • Guide drill 3.1 mm
- Countersink diameter 7 mm

Code	Ø (mm)		
31381	7	x	48/192

3 VPENJALO ZA KRONSKO ŽAGO

• CILINDRIČNI ADAPTER ZA BI-METALNE KRUNSKE PILE • CILINDRIČNI ADAPTER ZA BI-METALNE KRUNSKE PILE



Code	Grip (mm)	Size (mm)		
27100	6	14 - 30	x	20/200
27101	11	32 - 140	x	10/100

4 SET KRONSKIH ŽAG

• SET KRUNSKIH PILA • SET KRUNSKIH PILA



max 1500 RPM

x4 | 33/53/73/83 mm | MAX 50mm | WOLFRAM | TCT HRC 90±2

- Made from high quality materials • Perfect for installation works • For drilling in tiles, bricks, walls, lightweight construction materials and gypsumboard • The set includes: guide drill 8 mm, backing plate and 4 hole-saws

Code	Hole saw diameter (mm)		
31396	33/53/73/83	x	5/20

5 VRETENO KRONSKE ŽAGE ZA ŽAGO 31396

• VRETENO KRUNSKE PILE 31396
• VRETENO KRUNSKE PILE 31396



TCT | L 136mm | 31396 | TCT HRC 90±2

- Made from high quality materials, with TCT cutting blade • Designed for hole-saw 31396

Code	Length (mm)		
31397	136	x	1/120

6 KRONSKA ŽAGA

• KRUNSKA PILA • KRUNSKA PILA



- For gypsumboard, plywood, wood and plastic panels • With diameter adjustment to 64 mm

Code	Range (mm)		
26400	do 64	x	6/60



7 OMEJILEC GLOBINE

• BLOKADA DUBINE
• BLOKADA DUBINE



STOP

x3 | Ø 10mm | Ø 8mm | Ø 6mm | HRC 50±2

- Made from high-quality materials, hardness 50 ± 2 HRC • Three most popular dimensions 6/8/10 mm • The set includes Allen wrench • Enable to drill in a material to the preset depth

Code	Length (mm)		
31393	6/8/10	x	24/192

8 SET DODATKOV ZA MINI BRUSILNIK

• SET DODATNOG PRIBORA ZA MINI BRUSILICU
• SET DODATNOG PRIBORA ZA MINI BRUSILICU



- Set of 71 pcs for minigrinders • Diamond-coated cutter, 5 pcs • Mandrel with a grinding stone, 4 pcs • Wire brushes, 2 pcs
- Adapters for sandpaper, polishing felt, grinding discs, 4 pcs • Polishing felts, 14 pcs • Grinding discs, 35 pcs • Mandrel adapters, 2 pcs • Sandpaper rolls, 4 pcs
- Abrasive compound, 1 pcs

Code	The quantity (pcs.)	
93171	71	10

1 DIAMANTNA KRONSKA ŽAGA

• DIJAMANTNA KRUNSKA PILA • DIJMANTNA KRUNSKA PILA





- Hole saw with vacuum soldered process diamonds • Equipped with a handle with an M14 thread for direct mounting on an angle grinder • Designed for drilling in ceramic tiles, stone tiles and stoneware, among others • An adapter with a centering drill for combi drills (27200) can be used in hole saws of min. 20mm • Drilling is to be done dry

Code	Dimension (mm)	
27206	6	20/120
27208	8	20/120
27210	10	20/120
27212	12	20/120
27215	15	20/120
27220	20	20/120
27222	22	20/120
27225	25	20/120
27230	30	20/120
27235	35	20/120
27240	40	16/96
27251	51	6/36
27260	60	6/36
27268	68	3/18

2 ŠESTKOTNI NASTAVEK ZA DIAMANTNO KRONSKO ŽAGO

• ŠESTEROKUTNO SVRDLO ZA DIJAMANTNU KRUNSKU PILU
• ŠESTOUGAONI ADAPTER ZA DIJAMANTNU KRUNSKU PILU



- Hexagonal handle • M14 thread • Includes the guide drill for hole saws 27220-27268

Code	Grip (mm)	
27200	11	10/100

3 DIAMANTNA KRONA ZA BETON

• DIJAMANTNA KRUNA ZA BETONA
• DIJAMANTNA KRUNA ZA BETON

89569
89583



89568
89582





- Supplied with a hexagonal adapter, guide drill and drill drift • Drill Ø10 mm • Thread M16
- For construction materials

Code	L (mm)	Diameter (mm)	Qty of teeth	
89568	75	68	4	20
89582	75	82	4	20
89569	150	68	3	20
89583	150	82	4	20

4 VODILNI SVEDER ZA DIAMANTNO KRONO

• SVRDLO ZA DIJAMANTNU KRUNSKU PILU
• BURGIJA ZA DIJAMANTNU KRUNSKU PILU



- **89507**: Guide drill bit Ø 7 for diamond hole saws Proline 89568, 89582
- **89510**: Guide drill bit Ø 10 for diamond hole saws Proline 89569, 89583

Code	
89507	100
89510	100



5 ADAPTER SDS PLUS

• ADAPTER SDS PLUS • ADAPTER SDS PLUS





- Thread M16 • Drill opening dia. 10 mm
- For diamond drills with codes: 89568, 89569, 89582, 89583

Code	Dimensions (mm)	
89590	100	50/100

6 REZILA ZA MULTIFUNKCIJSKO ORODJE

• REZAČI ZA VIŠENAMJENSKI ALAT
• REZAČI ZA VIŠENAMJENSKI ALAT



- Components: delta foot 1 pc., straight jaw 1 pc., stripping tool 1pc., rounded saw 1 pc., semicircular

Code		
93126	x	40

7 SET BRUSNIH PAPIRJEV ZA MULTIFUNKCIJSKO ORODJE

• SET BRUSNIH PAPIRA ZA VIŠENAMJENSKI ALAT
• SET BRUSNIH PAPIRA ZA VIŠENAMJENSKI ALAT



- Sandpaper delta 10pcs. (granulation 2 x 80, 2 x 120, 3 x 180, 3 x 240)

Code		
93110	x	100



1 GARNITURA NOŽEV ZA REZKALNIK

- GARNITURA NOŽEVA ZA GLODALICU
- GARNITURA NOŽEVA ZA GLODALICU



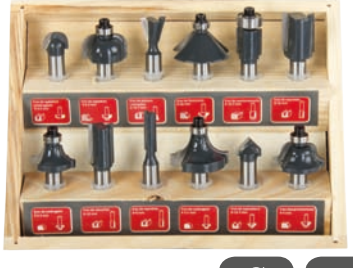
Ø 8mm | HRC 87±2

- The set includes: plunge cutter 6.3 mm, slot cutter 6 mm, end mill cutter for edge rounding 6.3 mm, cutter for smoothing 12.7 mm, slot cutter 12 mm, cutter for dovetail keys 12.7 mm

Code	Quantity (pcs.)	
93121	6	50

2 GARNITURA NOŽEV ZA REZKALNIK

- GARNITURA NOŽEVA ZA GLODALICU
- GARNITURA NOŽEVA ZA GLODALICU



Ø 8mm | HRC 87±2

- The set includes: plunge cutter 6.3 mm, slot cutter 6 mm, end mill cutter for edge rounding 6.3 mm, cutter for smoothing 12.7 mm, slot cutter 12 mm, cutter for dovetail keys 12.7 mm, ball cutter 6.3 mm, end mill for chamfering 32 mm, slot cutter 16 mm, end mill cutter for edge rounding 9.5 mm, slot cutter v 12.7 mm, end mill 4 mm

Code	Quantity (pcs.)	
93122	12	20

3 SET LISTOV LISIČJI REP ZA LES

- LISTOVI POVRATNE PILE ZA DRVO • LISTOVI POVRATNE PILE ZA DRVO



6 TPI | 152 mm | HCS | HRC 51±2

Code	Quantity (pcs.)		
93123	3	x	40/160

4 SET LISTOV LISIČJI REP ZA KOVINO

- LISTOVI POVRATNE PILE ZA METAL • LISTOVI POVRATNE PILE ZA METAL



18 TPI | 152 mm | BiM | HRC 61±2

Code	Quantity (pcs.)		
93124	3	x	40/160

5 SET LISTOV LISIČJI REP ZA LES IN KOVINO

- SET LISTOVA POVRATNE PILE ZA DRVO I METAL • SET LISTOVA POVRATNE PILE ZA DRVO I METAL



for wood: 6/8/10 TPI | 152 mm | HCS | HRC 51±2

for metal: 14/18 TPI | 152 mm | BiM | HRC 61±2

Code	Quantity (pcs.)		
93125	5	x	40/160

IZBIRA REZIL ZA VBODNE PILE IZ PROLINE-A

1. Izbira rezila glede na vrsto objemke nožev v vbodni žagi

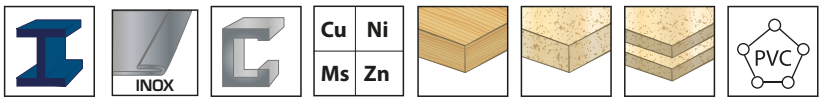
Nastavek	Ime nastavka	Uporaba pri:
	Tip T (oblika T) (Tip BOSCH)	AEG, ATLAS KOPRO, BOSCH, DEWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Tip U (Univerzalni) (Tip Black & Decker)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOLF

2. Izbira vbodne žage, odvisno od materiala, iz katerega je bil izdelana:

Za izbiro pravilnega rezila za vaše potrebe najprej določite vrsto materiala za rezanje (les, kovina, plastika), debelino obdelovanca (noži imajo različna področja delovanja), natančnost, s katero se obdelovanec izrezuje (grobo in hitro ali počasi in natančno) in končno obliko reza (ploska, ukrivljena, mešana)

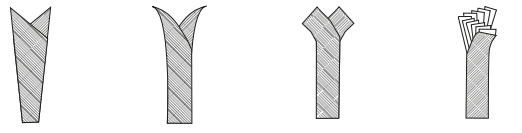
Označevanje	Opis
HCS	Karbonsko orodno jeklo, najcenejša rezila za žage z najkrajšim rokom uporabnosti, namenjena predvsem rezanju mehkih materialov, kot so les, vlaknene plošče, plastične plošče in plastika. Gladka rezila iz tega materiala se lahko uporabljajo za rezanje materialov, kot je polistiren.
CV	Visokokakovostno legirano jeklo, krom vanadij. Noži z dobrim razmerjem med ceno in učinkovitostjo so namenjeni za rezanje lesa, pohištvenih plošč in plastike.
HSS	Visokokakovostno visoko legirano orodno jeklo, popolno rezilo za rezanje lesenih materialov, lesa z žeblji, predvsem za jeklo, tanko jeklo in jekleno pločevino ter rezanje barvnih kovin.
Bi-metal	Kombinacija elastičnega ogljikovega ali krom vanadijevega jekla s hitrim jeklom HSS, najdražja različica, vrhunska rezila z večkrat daljšo življenjsko dobo, ki omogoča rezanje lesa, plastike in kovine.
HM, TC	Nišna skupina rezil za zažeg so rezila s premazom iz volfram karbida, vendar z vložki iz čvrste kovine na zobcih. To so rezila za rezanje zelo trdih materialov, kot so nerjaveče jeklo, keramične ploščice itd.

3. Izbira žaginega lista glede na natančnost rezanja:



KARBONSKO JEKLO | INOX | ALUMINIJ | NEFEROMAGNETNE KOVINE | MEHKI LES | TRDI LES | VEZANA PLOŠČA | PLASTIKA

4. Izbira rezila vbodne žage glede na vrsto zob



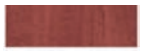
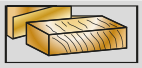
Okrogla | Okrogla bočna | Ločena bočna | Ločena valovita

5. Izbira rezila žage glede na natančnost rezanja

(TPI - pitch zobci - količina zobcev na palec rezila žage 1inch=25,4mm)

Material	Število zob	Natančnost reza
KOVINA	14 - 24 TPI	Višje pitch število (fini zobci) pomeni večjo natančnost pri rezanju, pa tudi počasnejši čas delovanja.
KOVINA, LES IN PLASTIKA	2 - 12 TPI	

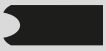
6. Izbira rezila vbodne žage glede na vrsto rezanja:

	Tip reza	Priporočena dolžina rezila	
	raven rez z minimalnim lokom - pribl	approx. 7-8 mm	
	rez z ostrim lokom - pribl.	ok. 4 mm	
	rezanje mehkega lesa, grobo rezanje - pribl.	approx. 7-8 mm 6-8TPI	
	rezanje lesa ali zaključnih plošč - pribl.	ok. 7-8 mm 10-12TPI	
	varnostno rezanje laminatnih plošč - pribl.	ok. 7-8 mm 10-12TPI	



ODABIR OŠTRICA ZA UBODNE PILE PROLINE

1. Odabir oštrice ovisno o vrsti stezaljke noža u ubodnoj pili

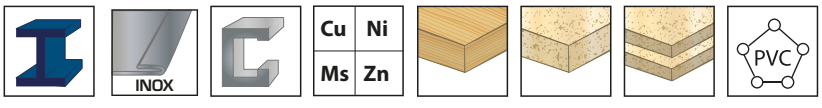
Grip	Grip Name	Koristi se u ubodnim pilama
	Tip T (T-oblik) (Tip BOSCH)	AEG, ATLAS KOPRO, BOSCH, DeWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Tip T (u obliku slova T) (Tip BOSCH)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOLF

2. Odabir ubodne pile, ovisno o materijalu od kojeg je izrađena.

Da biste odabrali odgovarajuću oštricu za svoje potrebe, najprije navedite vrstu materijala koji će se rezati (drvo, metal, plastika), debljinu predmeta koji se obrađuje (noževi imaju različita područja djelovanja), preciznost kojom se izrezuje predmet koji se obrađuje (grubo i brzo ili polako i precizno) i na kraju oblik reza (ravan, zakrivljen, mješovit)

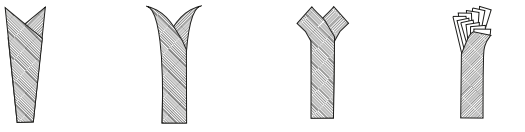
Oznake	Opis
HCS	Karbonski alatni čelik, najjeftinije oštrice pile s najkraćim vijekom trajanja, uglavnom namijenjene za rezanje mekih materijala kao što su drvo, vlaknaste ploče, plastične ploče i plastika. Glatke oštrice izrađene ovog materijala mogu se koristiti za rezanje materijala kao što je polistiren.
CV	Visokokvalitetni legirani čelik, krom-vanadij. Noževi s dobrim omjerom cijene i učinkovitosti, namijenjeni za rezanje drva, ploča za namještaj i plastiku.
HSS	Visokokvalitetni visokolegirani alatni čelik, savršene oštrice za rezanje drvenih materijala, drva s čavlima, ali uglavnom za čelik, tanki čelik i čelične listove te rezanje obojenih metala.
Bi-metal	Kombinacija elastičnog ugljičnog ili krom vanadijskog čelika s HSS brzim čelikom, najskuplja inačica, najkvalitetnije oštrice s nekoliko puta duljim vijekom trajanja, što omogućuje rezanje drva, plastike i metala.
HM, TC	Specijalni SET oštrica pile su noževi s premazom od volfram karbida ili s umetcima od tvrdog metala na zupcima. To su noževi za rezanje vrlo tvrdih materijala kao što su nehrđajući čelik, keramičke pločice itd.

3. Izbira žaginega lista glede na natančnost rezanja:



KARBONSKI ČELIK | INOKS | ALUMINIJ | NE-FEROMAGNETIČNI METALI | MEKO DRVO | TVRDO DRVO | ŠPERPLOČA | PLASTIKA

4. Odabir oštrice ubodne pile ovisno o vrsti zubaca



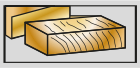
Okrugli | Okrugli bočni | Odvojeni bočni | Odvojeni valoviti

5. Izbor oštrice ubodne pile ovisno o točnosti rezanja

(TPI - pitch zubaca - količina zubaca na inč oštrice ubodne pile (1inch=25.4mm)

Obrađeni materijal	Težina zuba	Točnost rezanja
METAL	14 - 24 TPI	Veći pitch broj (finiji zupci) označava veću točnost kod rezanja, ali i sporije vrijeme rada.
METAL, DRVO I PLASTIKA	2 - 12 TPI	

6. Odabir oštrice ubodne pile ovisno o vrsti rezanja:

	Tip reza	Preporučena dužina oštrice	
	ravan rez s minimalnim lukom - pribl.	approx. 7-8 mm	
	rez uz oštri luk - pribl.	ok. 4 mm	
	rezanje mekog drva, grubo rezanje - pribl.	approx. 7-8 mm 6-8TPI	
	rezanje drva ili završnih dasaka - pribl.	ok. 7-8 mm 10-12TPI	
	sigurnosno rezanje laminatnih ploča - pribl.	ok. 7-8 mm 10-12TPI	



ODABIR NOSAČA ZA PROLINE UBODNE PILE

1. Izbor oštrice zavisno od vrste stezaljke noža u ubodnoj pili

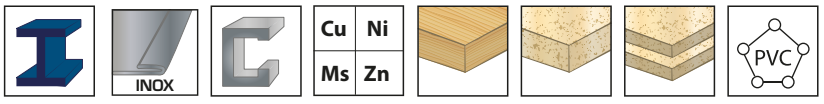
Grip	Naziv držača	Koristi se u ubodnim pilama
	Tip T (T - oblik) (Tip BOSCH)	AEG, ATLAS KOPRO, BOSCH, DeWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Tip U (Univerzalan) (Tip Black & Decker)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOL

2. Izbor ubodne pile, zavisno od materijala od kojeg je izrađen.

Da biste ispravno izabrali oštricu za svoje potrebe, najprije navedite vrstu materijala, koji će se rezati (drvo, metal, plastika), debljinu radnog dijela (noževi imaju različita područja djelovanja), tačnost s kojom se izrezuje radni komad (grubo i brzo ili polako i tačno) i na kraju oblik reza (ravan, zakrivljen, mješovit).

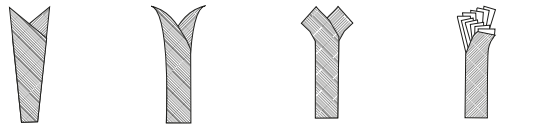
Oznake	Opis
HCS	Karbonski alatni čelik, najjeftinije oštrice pile s najkraćim vijekom trajanja, uglavnom namijenjene za rezanje mekanih materijala, kao što su drvo, vlaknaste ploče, plastične ploče i plastika. Glatke oštrice od ovog materijala mogu se koristiti za rezanje materijala, kao što je polistiren.
CV	Visokokvalitetni legirani čelik, hrom-vanadij. Noževi s dobrim omjerom cijene i djelotvornosti, namijenjeni za rezanje drveta, ploča za namještaj i plastiku.
HSS	Visokokvalitetni visokolegirani alatni čelik, savršene oštrice za rezanje drvenih materijala, drveta s ekserima, ali uglavnom za čelik, tanki čelik i čelične listove i rezanje obojenih metala.
Bi-metal	Kombinacija elastičnog ugljičnog ili hrom-vanadijskog čelika s HSS brzim čelikom, najskuplja verzija, vrhunski kvalitetne oštrice s nekoliko puta dužim radnim vremenom, što omogućava rezanje drveta, plastike i metala.
HM, TC	Nišna skupina oštrica pile su noževi s premazom od volfram karbida ili s umetcima od tvrdog metala na zubima. To su noževi za rezanje vrlo tvrdih materijala kao što su nehrđajući čelik, keramičke pločice itd.

3. Izbor oštrice ubodne pile zavisno od tačnosti rezanja:



KARBONSKI ČELIK | INOKS | ALUMINIJ | NE-FERO-MAGNETIČNI METALI | MEKANO DRVO | TVRDO DRVO | ŠPERPLOČA | PLASTIKA

4. Izbor oštrice ubodne pile zavisno od vrste zubaca



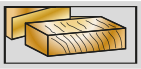
Okrugli | Okrugli bočni | Odvojeni bočni | Odvojeni valoviti

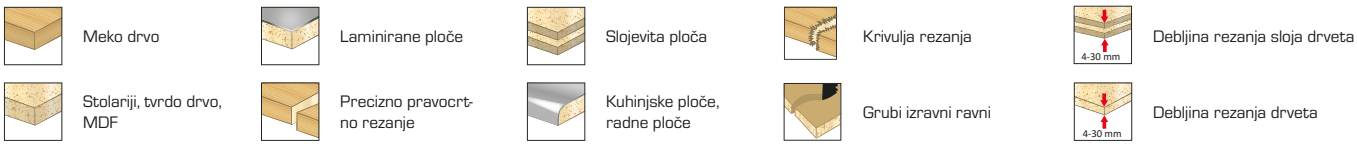
5. Izbor oštrice ubodne pile zavisno od tačnosti rezanja

(TPI - pitch zubaca - količina zubaca na inč oštrice ubodne pile) (1 inch=25.4mm)

Obrađeni materijal	Broj zubaca	Tačnost
METAL	14 - 24 TPI	Veći pitch broj (finiji zupci) označava veću tačnost kod rezanja, ali i sporije vrijeme rada.
METAL,DRVO I PLASTIKA	2 - 12 TPI	

6. Izbor oštrice ubodne pile zavisno od vrste rezanja:

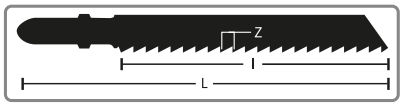
Tip reza	Preporučena	Dužina oštrice	
	ravan rez s minimalnim lukom - otprl.	prosječno 7-8 mm	
	rezanje mekanog drveta, grubo rezanje - otprl.	otplk 4 mm	
	rezanje drveta ili završnih dasaka - otprl.	prosječno 7-8 mm 6-8TPI	
	rezanje drva ili završnih dasaka - otprl.	otprl 7-8 mm 10-12TPI	
	sigurno rezanje laminatnih ploča - otprl.	otprl 7-8 mm 10-12TPI	



1 LIST ZA VBODNE ŽAGE

• LIST ZA UBODNE PILE • LISTOVI ZA UBODNE PILE

- High-quality CrV steel
- Blades for wood, wood products, plastic, steel stainless steel, nonferrous metals
- Made in Germany
- In the set of 5 on a card



WOOD BLADES

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch (mm)	Tooth length/ width (mm)	Tooth type	





• Precise, clean cut

93101	Type T	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5
93401	Type U	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5



• Precise, clean cut

93101L	Type T	132mm / 5,5"	10TPI / 2,5mm	110	ground convergent	5



• Precise, curvilinear cut

93101KR	Type T	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5
93401KR	Type U	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5



• Precise, clean cutting of laminated boards

93102	Type T	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5
93402	Type U	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5



• Precise, fast cutting

93103	Type T	100mm / 4"	6TPI / 4.0mm	75	ground convergent	5
93403	Type U	100mm / 4"	6TPI / 4.0mm	75	ground convergent	5



• Precise, fast cutting

93103L	Type T	132mm / 5,2"	6TPI / 4.0mm	110	ground convergent	5



• Very fast cutting

93104	Type T	100mm / 4"	6TPI / 4.0mm	75	ground open	5
93404	Type U	100mm / 4"	6TPI / 4.0mm	75	ground open	5

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch	Tooth length/ width (mm)	Tooth type	

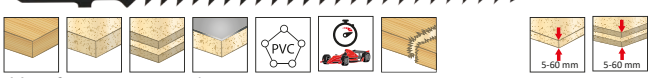




• Very fast curvilinear cutting

93105	Type T	100mm / 4"	6TPI / 4.0mm	75	ground open	5
93405	Type U	100mm / 4"	6TPI / 4.0mm	75	ground open	5

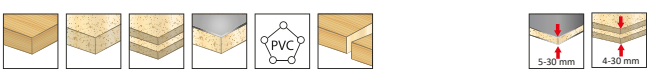




• Very fast coarse cutting

93106	Type T	100mm / 4"	8TPI / 3.0mm	75	milled wavy	5
93406	Type U	100mm / 4"	8TPI / 3.0mm	75	fmilled wavy	5

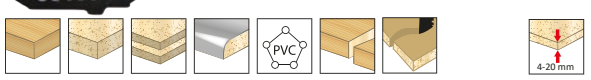




• Straight cutting of plexiglass, wood, particle boards

93108	Type T	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5
93408	Type U	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5





• Curvilinear cutting of plexiglass, wood, particle boards

93109	Type T	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5
93409	Type U	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5

METAL BLADES

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch (mm)	Tooth length/ width (mm)	Blade length (Tooth type)	

Material - high-quality high-alloy HSS tool steel





• Precise, straight cutting of steel, aluminum and non-ferrous metals

93111	Type T	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5
93411	Type U	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5

Material - a combination of elastic carbon or chrome vanadium steel with HSS high-speed steel

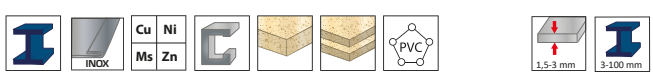




• Precise, straight cutting of steel, INOX, aluminum, non-ferrous metals

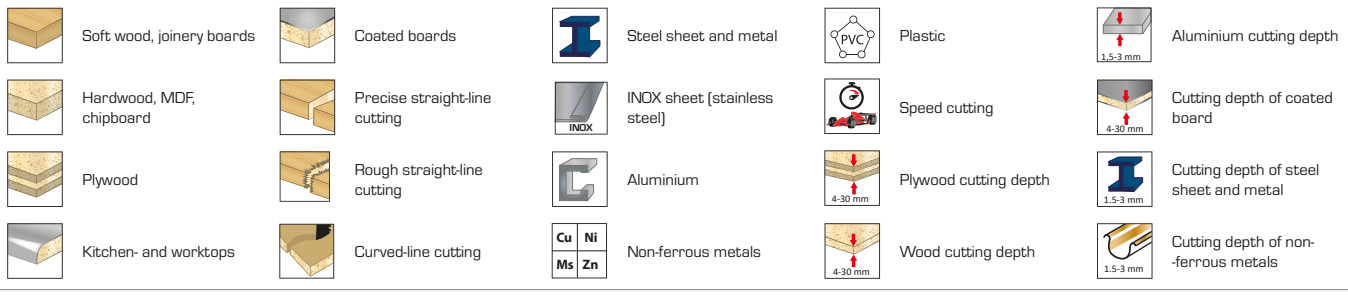
93111F	Type T	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5
93411F	Type U	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5





• Universal blade

93150F	Type T	132mm / 5,2"	10TPI / 1.8mm	110	milled variables	5
93450F	Type U	132mm / 5,2"	10TPI / 1.8mm	110	milled variables	5



PROLINE ŽIČNE ŠČETKE

vrsta	vrsta	sliko
A - Žične ščetke - rotacijske	a - zvite žične ščetke - rotacijske	
	b - zavozlane žične ščetke - rotacijske	
B - Žične ščetke - ploščate	a - zavozlane žične ščetke - ploščate	
	b - zavozlane žične ščetke - ploščat	
C - zvite žične ščetke - z nastavkom za pritrditev	a - zvite žične ščetke s pritrdilnim nastavkom	
	b - zavozlane žične ščetke z nastavkom	
A - najlonske ščetke - rotacijske	a - najlonske ščetke - vrtljive s pritrdilnim nastavkom	
B - najlonske ščetke - ploščate	a - najlonske ščetke - ravne s pritrdilnim nastavkom	
C - zvite najlonske ščetke	a - zvite ščetke z nastavkom za pritrditev	



za vrtalnike in izvijače, s 6 mm gredjo



za M14 kotne brusilnike



za namizne brusilnike



zvita jeklena žica



žica z zvijanjem iz medenine



najlon

PROLINE ŽIČANE ČETKE

tip	tip	sliku
A - Žičane četke - rotacione	a - uvijene žičane četke - rotacione	
	b - čvoraste žičane četke - rotacione	
B - Žičane četke - plosnate	a - uvijene žičane četke - plosnate	
	b - čvoraste žičane četke - plosnate	
C - uvijene žičane četke - s nastavkom za pričvršćivanje	a - uvijene žičane četke s nastavkom za pričvršćivanje	
	b - čvoraste žičane četke s nastavkom za pričvršćivanje	
A - najlonske četke - rotacione	a - najlonske četke - rotacione s nastavkom za pričvršćivanje	
B - najlonske četke - plosnate	a - najlonske četke - plosnate s nastavkom za pričvršćivanje	
C - uvijene najlonske četke	a - uvijene četke s nastavkom za pričvršćivanje	



za bušilice i odvijače, s osovinom 6 mm



za M14 kutne brusilice



za stolne brusilice



uvijena čelična žica



žica za savijanje mesinga



najlon

PROLINE ABRAZIVNE ČETKE

tip	tip	slika
a - Žičane četke - rotacione	a - uvijene žičane četke - rotacione	
	b - čvoraste žičane četke - rotacione	
B - žičane četke - pljosnate	a - uvijene žičane četke - pljosnate	
	b - čvoraste žičane četke - pljosnate	
C - uvijene žičane četke - s nastavkom za pričvršćivanje	a - uvijene žičane četke s nastavkom za pričvršćivanje	
	b - čvoraste žičane četke s nastavkom za pričvršćivanje	
A - najlonske četke - rotacione	a - najlonske četke - rotacione s nastavkom za pričvršćivanje	
B - najlonske četke - pljosnate	a - najlonske četke - pljosnate s nastavkom za pričvršćivanje	
C - uvijene najlonske četke	a - uvijene četke s nastavkom za pričvršćivanje	



za bušilice i šrafove, sa vratilom od 6 mm



za M14 ugao grinders



za stolne brusilice



upredena čelična žica



žica od mesinga



nilon

1 ŽIČNA ŠČETKA LONČASTA

• ŽIČANA LONČASTA ČETKA • LONČASTA ŽIČANA ČETKA



- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32457	75	x	12/120

2 ŽIČNA ŠČETKA STOŽČASTA

• ŽIČANA STOŽASTA ČETKA• ŽIČANA STOŽASTA ČETKA



- Steel undulating wire • For removing corrosion, paint, blunting sharp edges etc.

Code	Diameter (mm)		
32406	60	x	12/120
32408	80	x	12/120
32410	100	x	6/60

3 ŽIČNA ŠČETKA LONČASTA

• ŽIČANA ČETKA • LONČASTA ŽIČANA ČETKA



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32845	50	x	12/120
32847	75	x	12/120

4 ŽIČNA ŠČETKA LONČASTA NAYLON

• ŽIČANA LONČASTA ČETKA • LONČASTA ŽIČANA ČETKA



- Nylon

Code	Diameter (mm)		
32915	50	x	12/120
32917	75	x	12/120

5 ŽIČNA ŠČETKA ČELNA - GROBA

• ŽIČANA ČEONA ČETKA • LONČASTA ŽIČANA ČETKA



- Steel twisted wire • For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32452	22	x	20/200

6 ŽIČNA ŠČETKA LONČASTA - ČELNA

• LONČASTA ŽIČANA ČETKA • LONČASTA ŽIČANA ČETKA



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32861	17	x	20/200
32862	24	x	20/200

7 ŽIČNA ŠČETKA ČELNA

• ŽIČANA LONČASTA ČETKA • LONČASTA ŽIČANA ČETKA



- Nylon

Code	Diameter (mm)		
32924	24	x	20/200

8 ŽIČNA ŠČETKA KROŽNA

• ŽIČANA ČEONA ČETKA • LONČASTA ŽIČANA ČETKA



- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32447	75	x	12/120

9 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNE PLETENE ŽIČANE ČETKE• ŽIČNA ČETKA KRUŽNA - PLETENA



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32426	63	x	12/120
32428	80	x	12/120
32430	100	x	12/120
32432	120	x	12/60

1 ŽIČNA ŠČETKA MEDENINASTA/ PLETENA

• KRUŽNA PLETENA ČETKA OD MESINGA
• KRUŽNA PLETENA ČETKA OD MESINGA





- Brass-covered undulating wire
- For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32827	75	x	12/120
32830	100	x	12/120

2 ŽIČNA ŠČETKA MEDENINASTA - PLETENA

• KRUŽNA PLETENA ČETKA OD MESINGA
• KRUŽNA PLETENA ČETKA OD MESINGA





- Nylon

Code	Diameter (mm)		
32907	75	x	12/120
32910	100	x	12/120

3 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA





- Steel twisted wire
- Remove paint, lagging, scale and sharp edges • For heavy and very heavy works

Code	Diameter (mm)		
32550	100	x	12/60
32551	115	x	6/60
32555	150	x	6/30
32558	175	x	6/24

4 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA



- Steel undulating wire
- For any heavy and semi-heavy works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)	Opening (mm)		
32542	125	12.7; 16; 20	x	6/60
32545	150	12.7; 16; 20; 22; 25; 32	x	6/30
32549	200	12.7, 16; 20; 22; 25; 32	x	6/24

5 ŽIČNA ŠČETK KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA



- Brass-covered undulating wire
- For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)	Opening (mm)		
32805	50	6.4	x	12/240
32807	75	10; 12.7	x	12/120
32810	100	10; 12.7	x	12/120
32812	115	10; 12.7; 16	x	6/60
32815	150	12.7; 16	x	6/60

6 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA





- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32530	100	x	12/60
32532	125	x	6/30

7 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA





- Steel undulating wire • For any heavy and semi-heavy works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32520	100	x	12/60
32521	115	x	6/60

8 KROŽNA PLETENA ŽIČNATA KRTAČA

• KRUŽNA PLETENA ŽIČANA ČETKA • KRUŽNA PLETENA ŽIČANA ČETKA





- Steel twisted wire • Aggressive brushes for quick and heavy work on a large surface
- Remove scale, paint, corrosion

Code	Diameter (mm)		
32576	65	x	6/60
32578	80	x	6/60
32580	100	x	5/20

9 ŽIČNA ŠČETKA KROŽNA - PLETENA

• KRUŽNA PLETENA ŽIČANA ČETKA
• KRUŽNA PLETENA ŽIČANA ČETKA





- Steel undulating wire • For light and semi-heavy removal of corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32507	75	x	6/60
32510	100	x	6/30

PROLINE DIAMANTNA REZILA

Diamantno rezilo je sestavljeno iz kovinskega telesa, katerega diamantni rob je sintran v kovinskem vezivnem materialu. Uporabljajo se industrijski diamanti (sintetični) različnih velikosti in zrn, odvisno od namembnosti rezila - med 15% in 30% diamanta



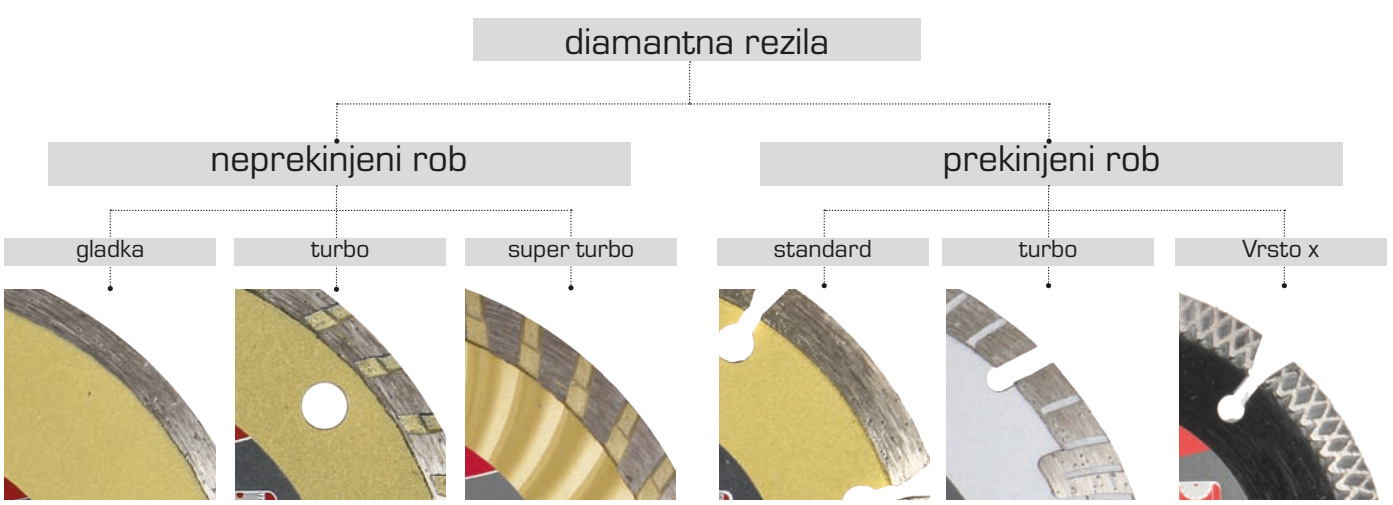
- ajvečja hitrost vrtenja
- diameter zunanjega rezila
- diameter notranjega rezila
- debelina segmenta
- višina segmenta
- segment z diamantom
- **varnostni piktogram**
- koda izdelka



Postopki za povezovanje jedra z obodom:

- lasersko varjenje - najmočnejša veza,
- spajkanje - srebrni lot se uporablja za združevanje segmentov na kovinski disk,
- sinteriranje

DELITEV REZIL



PROLINE DIJAMANTNE OŠTRICE

Dijamantna oštrica sastoji se od metalnog tijela sinteriranog u metalnom vezivnom materijalu. Koriste se industrijski dijamanti (sintetički) različitih veličina i zrna, ovisno o namjeni oštrica - između 15 % i 30 % dijamanta



- maks. brzina rotacije
- promjer vanjske oštrice
- unutarnji promjer oštrice
- debljina segmenta
- visina segmenta
- segment s dijamantom
- **sigurnosni piktogrami**
- šifra proizvoda

	Molimo pročitajte uputstva za korištenje prije uporabe
	Koristite zaštitne rukavice
	Ne koristite oštricu bez pokrivala
	Uvijek koristite zaštitnu kacigu
	Uvijek koristite štitnike za uši
	Uvijek koristite zaštitne naočale
	Uvijek koristite masku za lice

Postupci za spajanje jezgre s obodom:

- lasersko zavarivanje - najjači spoj,
- lemljenje - srebrni lem se koristi za spajanje segmenata na metalni disk, sinteriranje

PODJELA OŠTRICA

- dijamantne oštrice
  - neprekinuti rub
    - Standard
    - Turbo
    - Super Turbo
  - isprekidani rub
    - Standard
    - Turbo
    - Tip x



PROLINE DIJAMANTNE OŠTRICE

Dijamantna oštrica se sastoji od metalnog tijela, po čijem se obimu nalazi rub s dijamantom sinterisanom u metalnom veznom materijalu. Koriste se industrijski dijamanti (sintetički) različitih veličina i zrna, zavisno od namjene oštrica - između 15% i 30% dijamanata



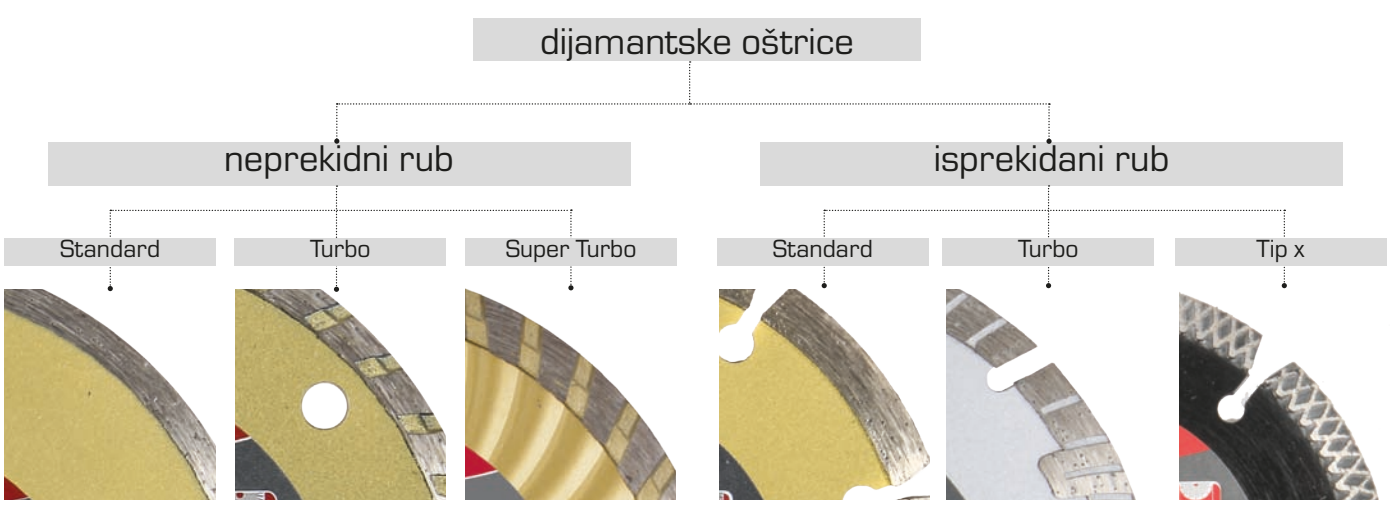
- maks. brzina rotacije
- prečnik vanjske oštrice
- unutarnji prečnik noža
- debljina segmenta
- visina segmenta
- segment s dijamantom
- **sigurnosni piktogrami**
- šifra proizvoda



Postupci za spajanje jezgre s ivicom:

- lasersko zavarivanje - najjača veza,
- lemljenje - srebrni lem se koristi za spajanje segmenata na metalni disk,
- sinterisanje

PODJELA OŠTRICA



Oblike zobcev, ki se uporabljajo za rezila krožnih žag

koda	diamantno rezilo	slika	slika	kamen	marmor	granit	opeka keramika	porcelanaste ploščice terakota	ploščice	ploščice	beton	jačano beton	asphalt	konstrukcija	robovi
87101-104	segmentirano		X	O	O	X	X	O	O	O	O	O		sintrni laser	neprekinjen rob
86101-104	segmentirano turbo		X	X	X	X			O	O		X	O		sintrni laser	segmentirano
88715 - 733	turbo		X	X	X	X	O	O	O	O		X	O		sintrni laser	segmentiran turbo
88101-104	super turbo		X	X	X	X	O		O	O	O	X			sintrni laser	turbo s polnim robom
88111-114	super turbo		X		X	X	O		O	O	O	X			sintering	turbo s polnim robom
89115 - 350	segmentirano		X	X	X	X			O	O		X	O	O	lasersko varjeni	segmentirano
89015 - 033	segmentirano Type x		X	X	X	X	O	X	O	O	O	X	O	O	llasersko varjeni	segmentirano
89360 - 365	segmentirano		X	X	X	X		O	O	O		O	O	O	lasersko varjeni	segmentirano
89370 - 375	segmentirano		X	X	X	X		O	O	O			X	O	lasersko varjeni	segmentirano
89380 - 395	segmentirano		O	O	O	O		O	O	O		O	O	X	lasersko varjeni	segmentirano
89415 - 428	za brušenje		X	X	X		O		O	O			O		soldered	segmentirano
89431 - 438	za brušenje		X	X	X		O		O	O			O		soldered	segmentirano
89441 - 448	za brušenje		X	X	X		O		O	O			O		soldered	segmentirano

x - lavna aplikacija
o - izbirna uporaba

Primarna i opcijska primjena dijamantskih noževa Proline

šifra	dijamantna oštrica	slika	slika	kamen	mramor	granit	cigla keramika	porculanske pločice	klinker opeka terakota	pločice	beton	armirani betonski	asphalt	izgradnju	rub
87101-104	kontinuirano		X	O	O	X	X	O	O	O	O	O		sinteriranje	kontinuirani rub
86101-104	segmentirano		X	X	X	X			O	O		X	O		sinteriranje	segmenti-rano
88715 - 733	segmentirano turbo		X	X	X	X	O	O	O	O		X	O		sinteriranje	turbo s pu-nim rubom
88101-104	turbo		X	X	X	X	O		O	O	O	X			sinteriranje	turbo s pu-nim rubom
88111-114	super turbo		X		X	X	O		O	O	O	X			sinteriranje	turbo s pu-nim rubom
89115 - 350	segmentirano		X	X	X	X			O	O		X	O	O	zavarenim laserom	segmenti-rano
89015 - 033	segmentirano Tip x		X	X	X	X	O	X	O	O	O	X	O	O	zavarenim laserom	segmenti-rano
89360 - 365	segmentirano		X	X	X	X		O	O	O		O	O	O	zavarenim laserom	segmenti-rano
89370 - 375	segmentirano		X	X	X	X		O	O	O			X	O	zavarenim laserom	segmenti-rano
89380 - 395	segmentirano		O	O	O	O		O	O	O		O	O	X	zavarenim laserom	segmenti-rano
89415 - 428	za brušenje		X	X	X		O		O	O			O		lemljenje	segmenti-rano
89431 - 438	za brušenje		X	X	X		O		O	O			O		lemljenje	segmenti-rano
89441 - 448	za brušenje		X	X	X		O		O	O			O		lemljenje	segmenti-rano

x - lavna aplikacija
o - izbirna uporaba

Primarna i opcijska primjena Proline dijamantnih noževa

šifra	dijamantna oštrica	slika	slika	kamen	mramor	granit	opeka keramika	porculanske pločice	klinker opeka	terakota	pločice	beton	armirani betonsk	asfaltni	konstrukcija	ivica
87101-104	kontinuirano		X	O	O	X	X	O	O	O	O	O			sinteriranje	kontinuirani rub
86101-104	segmentirano		X	X	X	X			O	O		X	O		sinteriranje	segmentirano
88715 - 733	segmentirano turbo		X	X	X	X	O	O	O	O		X	O		sinteriranje	turbo s punim rubom
88101-104	turbo		X	X	X	X	O		O	O	O	X			sinteriranje	turbo s punim rubom
88111-114	super turbo		X		X	X	O		O	O	O	X			sinteriranje	turbo s punim rubom
89115 - 350	segmentirano		X	X	X	X			O	O		X	O	O	laserski zavareni	segmentirano
89015 - 033	segmentirano Tip x		X	X	X	X	O	X	O	O	O	X	O	O	laserski zavareni	segmentirano
89360 - 365	segmentirano		X	X	X	X		O	O	O		O	O	O	laserski zavareni	segmentirano
89370 - 375	segmentirano		X	X	X	X		O	O	O			X	O	laserski zavareni	segmentirano
89380 - 395	segmentirano		O	O	O	O		O	O	O		O	O	X	laserski zavareni	segmentirano
89415 - 428	za brušenje		X	X	X		O		O	O			O		lemljenje	segmentirano
89431 - 438	za brušenje		X	X	X		O		O	O			O		lemljenje	segmentirano
89441 - 448	za brušenje		X	X	X		O		O	O			O		lemljenje	segmentirano

x - primarna upotreba
o - opcionalna upotreba

1 DIAMANTNA PLOŠČA GLADKA

• DIJAMANTNA PLOČA GLATKA • DIJAMANTNA PLOČA GLATKA







- For wet cutting of: brick, stone, ceramic brick (optional: clinker, marble, gres tiles, granite, tiles)
- Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
87101	115	2.0 x 5.0	x	50/100
87102	125	2.2 x 5.0	x	50/100
87103	180	2.6 x 5.5	x	50
87104	230	2.8 x 5.5	x	25

2 DIAMANTNA PLOŠČA TURBO

• DIJAMANTNA PLOČA TURBO • DIJAMANTNA PLOČA TURBO







- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, ceramic brick) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88101	115	2.0 x 7.5	x	50/100
88102	125	2.4 x 7.5	x	50/100
88103	180	2.7 x 7.5	x	50
88104	230	2.8 x 7.5	x	25

3 DIAMANTNA PLOŠČA SUPER TURBO

• DIJAMANTNA PLOČA SUPER TURBO • DIJAMANTNA PLOČA SUPER TURBO







- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, ceramic brick) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88111	115	2.0 x 7.5	x	50/100
88112	125	2.4 x 7.5	x	50/100
88113	180	2.7 x 7.5	x	50
88114	230	2.8 x 7.5	x	25

4 DIAMANTNA PLOŠČA SEGMENTIRANA

• DIJAMANTNA PLOČA SEGMENTIRANA • DIJAMANTNA PLOČA SEGMENTIRANA







- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, reinforced concrete) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
86101	115	2.0 x 7.5	x	50/100
86102	125	2.2 x 7.5	x	50/100
86103	180	2.6 x 7.5	x	50
86104	230	2.8 x 7.5	x	25

5 DIAMANTNA PLOŠČA SEGMENTIRANA

• DIJAMANTNA PLOČA SEGMENTIRANA • DIJAMANTNA PLOČA SEGMENTIRANA







- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, gres tiles, ceramic brick, reinforced concrete) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88715	115	1.8 x 7.5	x	50/100
88725	125	2.4 x 7.5	x	50/100
88730	180	2.6 x 7.5	x	25/50
88733	230	2.8 x 7.5	x	25

6 DIAMANTNA PLOŠČA SEGMENTIRANA "X"

• DIJAMANTNA PLOČA SEGMENTIRANA „X" • DIJAMANTNA PLOČA SEGMENTIRANA „X"









- Special segment structure with X pressed shape improves speed and precision of cutting, shortens cooling and improves disc work stability
- For cutting: marble, brick, stone, gres tiles, granite, concrete (optional: clinker, tiles, ceramic brick, asphalt, ceramic tiles, reinforced concrete)
- Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89015	115	2.4 x 7.0	x	50/100
89025	125	2.5 x 7.0	x	50/100
89028	180	2.6 x 7.0	x	25
89033	230	2.8 x 7.0	x	25

1 SEGMENTIRAN DIAMANTNI DISK

• SEGMENTIRANI DIJAMANTNI DISK • SEGMENTIRANI DIJAMANTNI DISK




LASER Ø22,2 mm Ø25,4 mm DIAMOND

- *89300, 89350 - opening 25.4 mm
- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, gres tiles, reinforced concrete, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89115	115	2.0 x 8.0	x	50/100
89125	125	2.1 x 8.3	x	50/100
89180	180	2.2 x 8.5	x	25/50
89230	230	2.5 x 7.1	x	25
89300	300*	2.8 x 8.7	x	10
89350	350*	2.9 x 8.4	x	5/10

2 SEGMENTIRAN DIAMANTNI DISK

• SEGMENTIRANI DIJAMANTNI DISK • SEGMENTIRANI DIJAMANTNI DISK




LASER Ø25,4 mm DIAMOND

- For cutting: marble, brick, stone, granite (optional: clinker, tiles, gres tiles, concrete, reinforced concrete, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89360	300	2.8 x 8.7	x	10
89365	350	2.9 x 8.4	x	10

3 SEGMENTIRAN DIAMANTNI DISK

• SEGMENTIRANI DIJAMANTNI DISK • SEGMENTIRANI DIJAMANTNI DISK




LASER Ø25,4 mm DIAMOND

- For cutting: marble, brick, stone, granite, concrete, reinforced concrete (optional: clinker, tiles, gres tiles, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89370	300	2.8 x 8.7	x	5/10
89375	350	2.9 x 8.4	x	5/10

4 SEGMENTIRAN DIAMANTNI DISK

• SEGMENTIRANI DIJAMANTNI DISK • SEGMENTIRANI DIJAMANTNI DISK




LASER Ø25,4 mm DIAMOND

- For cutting: asphalt (optional: clinker, marble, tiles, brick, stone, gres tiles, granite, concrete, reinforced concrete) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89380	300	2.8 x 8.7	x	10
89385	350	2.9 x 8.4	x	5/10

5 DIAMANTNI BRUSNI DISK

• DIJAMANTNI BRUSNI DISK • DIJAMANTNI BRUSNI DISK




Ø22,2mm DIAMOND

- Universal discs for polishing stone, marble, granite, construction materials • Single segment

Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89415	115	30 x 6 x 8	x	10/20
89425	125	30 x 6 x 8	x	10/20
89428	180	30 x 6 x 8	x	5/10

6 DIAMANTNI BRUSNI DISK

• DIJAMANTNI BRUSNI DISK • DIJAMANTNI BRUSNI DISK




Ø22,2mm DIAMOND

- Universal discs for polishing stone, marble, granite, construction materials • Double segment

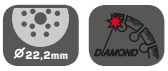
Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89431	115	30 (20) x 6 x 8	x	10/20
89435	125	30 (20) x 6 x 8	x	10/20
89438	180	30 (20) x 6 x 8	x	5/10

1 DIAMANTNI BRUSNI DISK

• DIJAMANTNI BRUSNI DISK TURBO • DIJAMANTNI BRUSNI DISK TURBO







- Universal discs for polishing stone, marble, granite, construction materials

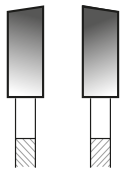
Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89441	115	20 x 6 x 8	x	10/20
89445	125	20 x 6 x 8	x	10/20
89448	180	20 x 6 x 8	x	5/10

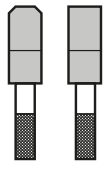


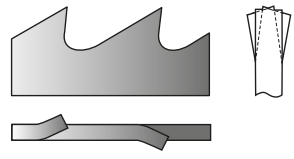
PROLINE LISTI ZA KROŽNE ŽAGE

Oblike zob, ki se uporabljajona na listih za krožne žage PROLINE

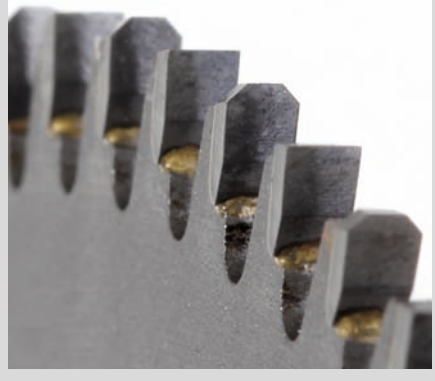














WZ - izmenični zobje

TFZ - trapezoidni / ravni zobje

KB - izmenični zobje

Konfiguracija, v kateri so zobata rezila postavljena diagonalno v izmeničnih smereh, ena v desno, druga v levo	Brušenje zob, v katerem je rahlo trapezast zob sledi nekoliko nižjemu ravnemu zobu. Višji zob reže material nekoliko manj od globine reza. To preprečuje poškodbe ali loma zoba v krhkih materialih.	Zobje so ostri in se raztezajo ob straneh. Zobe režemo z uporabo laserjev, kar zagotavlja natančnost izdelavo žag natančno izdelavo lista. Žagin list je izdelana iz visokokakovostnega jekla, ki je dodatno obdelano, kar zagotavlja dodatno trdnost lista.
Univerzalno, za mehki in trdi les, deske, vlaknate materiale in MDF	Univerzalno, za uporabo pri močnih prožnih in homogenih materialih: kompoziti, laminirane iverne plošče, plastika, pleksi steklo, barvne kovine, medenina, baker, trdi les.	Predvsem za prečno rezanje mehkega in trdega lesa (vključno z lesom za kurjavo), namenjena za krožne in stacionarne žage.
Izjemno čisti, natančni rezi		

Vreča iz volframovega karbida (TCT) - anorganska kemična spojina, ki vsebuje volfram in ogljik, podobna titanovemu karbidu. Ima največje (6000° C) vrelišče vseh znanih spojin. Zaradi svoje visoke trdote se uporablja v rezalnih orodjih in glajevalnih strojih kot cenejša in temperaturno bolj odporna alternativa diamantom. Sintrirani karbidi, znani tudi na Poljskem kot „widia“ ali HM (iz nemškega hartmetalla), se uporabljajo v mnogih industrijskih panogah kot sestavni deli orodij, ki ponujajo visoko zmogljivost, trdnost, trdoto in odpornost proti obrabi.

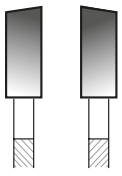
PROLINE LISTOVI KRUŽNIH PILA

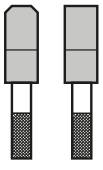
Oblici zuba koji se koriste u oštricama kružnih pila PROLINE

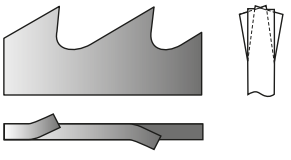


















WZ - izmjenični zubi

FZ/TR - Trapez-/ Flachzahn

KB - izmjenični zubi

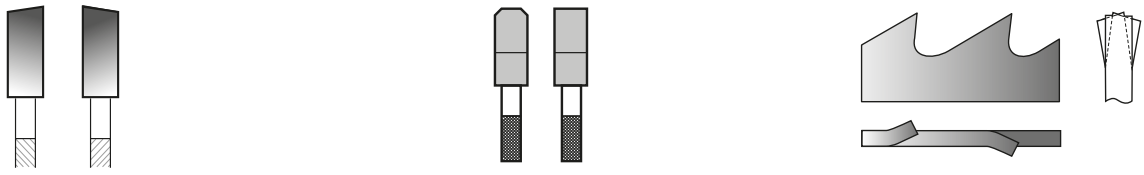
Konfiguracija u kojoj su zubne oštrice postavljene dijagonalno u izmjeničnim smjerovima, jedna u desno, jedna u lijevo	Postavljeni zubi na način gdje se nalazi mali trapezoidni zub, pa ga slijedi nešto niži plosnati zub. Viši zub reže materijal nešto manje od konačnog rezanja te tako sprječava oštećenje zuba ili razbijanje zuba kod krhkih materijala	Zubi su izoštreni i protežu se do bočnih strana. Zubi se režu pomoću lasera, što osigurava preciznu konstrukciju pile. Oštrica pile je od visokokvalitetnog čelika, koji je dodatno zategnut kako bi se disk učvrstio
Univerzalni, za meko i tvrdo drvo, daske, vlaknaste materijale i MDF	Univerzalni, za uporabu kod homogenih materijala: kompoziti, laminirane ploče iverice, plastika, pleksiglas, obojeni metali, mjed, bakra, tvrdo drvo	Uglavnom za poprečno rezanje mekog i tvrdog drva (uključujući drva za ogrjev), namijenjeno za rad rukama i kod stacionarne pile.
Izuzetno čisti, precizni rezovi		

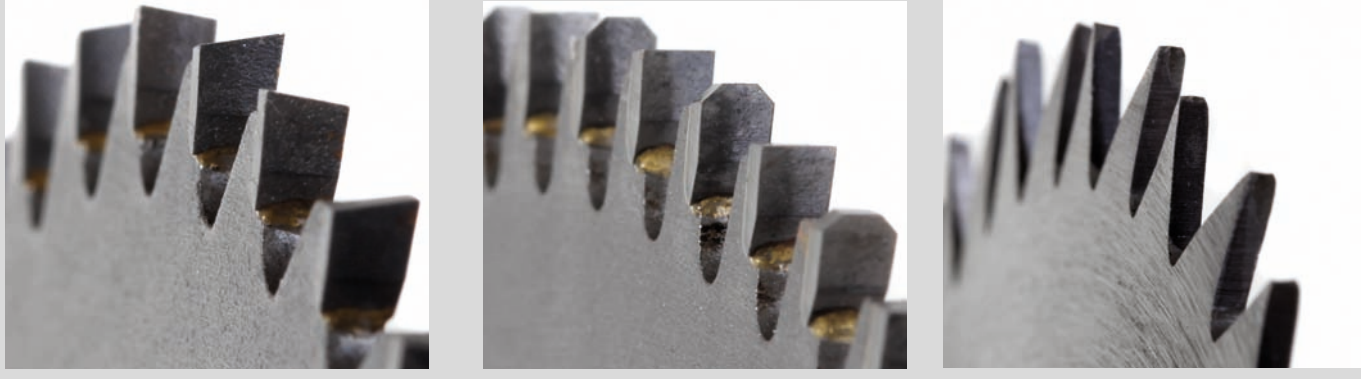
Oštrice od volfram-karbida (TCT) - anorganski kemijski spoj koji sadrži volfram i ugljik, sličan titanovom karbidu. Ima najvišu točku vrenja (6000° C) svih poznatih spojeva. Zbog svoje velike tvrdoće koristi se u reznim alatima i strojevima za zaglađivanje kao jeftinija opcija od dijamanata i otpornija na temperaturu. Sinterirani karbidi, također poznati u Poljskoj kao „widia“ ili HM (iz njemačkog hartmetalla), koriste se u mnogim industrijama kao komponente u alatima koji nude veliku čvrstoću, tvrdoću i otpornost na abraziju.

PROLINE LISTOVI ZA KRUŽNE PILE

Oblici zuba koji se koriste u oštricama kružnih pila PROLINE







WZ - izmjenični zubi

Konfiguracija u kojoj su zubne oštrice postavljene dijagonalno u izmjeničnim smjerovima, jedna u desno, jedna u lijevo

Univerzalni, za meko i tvrdo drvo, daske, vlaknaste materijale i MDF

TFZ - trapezoidni / ravni zubi

Postavljeni zubi na način gdje se nalazi mali trapezoidni zub, pa ga slijedi nešto niži plosnati zub. Viši zub reže materijal nešto manje od konačnog rezanja, te tako sprečava oštećenje zuba ili razbijanje zuba kod krhkih materijala

Univerzalni, za upotrebu kod homogenih materijala: kompoziti, laminirane ploče iverice, plastika, pleksiglas, obojeni metali, mjed, bakar, tvrdo drvo

KB - dentalni zubi

Zubi su izoštreni i protežu se do bočnih strana. Zubi se režu pomoću lasera, što osigurava preciznu konstrukciju pile. Oštrica pile je od visokokvalitetnog čelika, koji je dodatno zategnut kako bi se disk učvrstio

Uglavnom za poprečno rezanje mekog i tvrdog drva (uključujući drva za ogrjev), namijenjeno za rad rukama i kod stacionarne pile

Izuzetno čisti, precizni rezovi.

Naglavak od volfram-karbida (TCT) - anorganski kemijski spoj koji sadrži volfram i ugljik, sličan titanovom karbidu. Ima najvišu tačku vrenja (6000° C) svih poznatih spojeva. Zbog svoje velike tvrdoće koristi se u reznim alatima i strojevima za zaglađivanje kao jeftinija opcija od dijamanata i otpornija na temperaturu. Sinterovani karbidi, također poznati u Poljskoj kao „widia“ ili HM (iz njemačkog hartmetalla), koriste se u mnogim industrijama kao komponente u alatima koji nude velike čvrstoću, tvrdoću i otpornost na abraziju.

1 LIST Z VERIGO MOTORNE ŽAGE ZA KOTNE BRUSILKE

• LIST KRUŽNE PILE SA LANCEM
• LIST PILE S LANCEM ZA UGAONE BRUSILICE







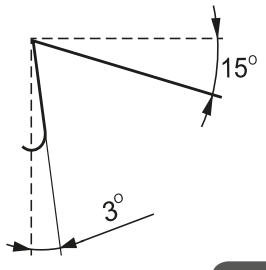
- High-speed discs for cutting wood: milling, making furrows, plugging
- Perimeter chain driven with a centrifugal force • Chain can be sharpened

Code	Diameter (mm)	Max. rpm [1/min.]		
86011	115	12000	x	50
86012	125	11000	x	50
86023	230	6800	x	10

2 LIST ZA LES

• LIST KRUŽNE PILE ZA DRVO • LIST PILE ZA DRVO





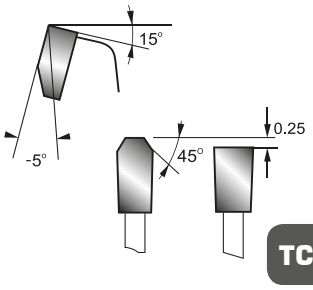
- Quenched and tempered discs • Packed in a box for hanging
- The saws are supplied with rings reducing the diameter of the installation opening

Code	Diameter (mm)	Opening/Reduction	Qty of teeth		
84818	180	20/16	60	x	25/50
84820	200	30/20/16	60	x	25/50
84825	250	30/20/16	60	x	10/20
84831	315	30/20/16	80	x	10/20
84835	355	30/20/16	60	x	5/10

3 LIST S KARBIDNIMI REZILI ZA NEŽELEZNE KOVINE

• LIST PILE S KARBIDNIM OŠTRICAMA ZA OBOJENE METALE
•LIST S KARBIDNIM OŠTRICAMA ZA OBOJENE METALE





TCT

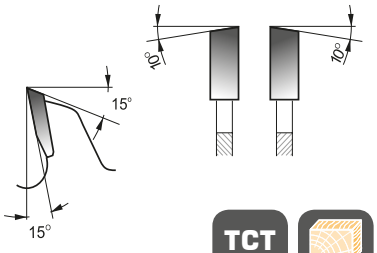
- High quality sintered carbide • Quenched and tempered discs
- For cutting aluminium and its alloys • Packed in a box for hanging
- The saws are supplied with rings reducing the diameter of the installation opening

Code	Diameter (mm)	Opening/Reduction	Qty of teeth		
84720	200	30/20/16	100	x	25/50
84721	205	30/20/16	100	x	25/50
84722	210	30/20/16	100	x	25/50
84725	250	30/20/16	100	x	10/20

4 LIST S KARBIDNIMI ZOBMI ZA REZANJE LESA

• LIST PILE S KARBIDNIM OŠTRICAMA ZA REZANJE DRVA • LIST PILE S KARBIDNIM OŠTRICAMA ZA REZANJE DRVA





TCT

- High quality sintered carbide • Quenched and tempered discs • The saws up to the diameter of 250 mm are supplied with rings reducing the diameter of the installation opening • Packed in a box for hanging

Code	Ø (mm)	Opening/ Reduction	Qty of teeth		
84132	130	20/16/12.7	24	x	25/50
84133	130	20/16/12.7	30	x	25/50
84141	140	20/16/12.7	16	x	25/50
84142	140	20/16/12.7	24	x	25/50
84152	152	20/16/12.7	24	x	25/50
84161	160	20/16	18	x	25/50
84162	160	20/16	24	x	25/50
84163	160	20/16	30	x	25/50
84164	160	20/16	36	x	25/50
84165	160	20/16	48	x	25/50
84182	184	30/20/16	24	x	25/50
84183	184	30/20/16	36	x	25/50
84184	184	30/20/16	48	x	25/50
84186	184	30/20/16	60	x	25/50
84202	200	30/20/16	24	x	25/50
84204	200	30/20/16	40	x	25/50
84206	200	30/20/16	60	x	25/50
84207	205	30/20/16	24	x	25/50
84208	205	30/20/16	36	x	25/50
84212	210	30/20/16	24	x	25/50
84214	210	30/20/16	40	x	25/50
84216	210	30/20/16	60	x	25/50
84252	250	30/20/16	24	x	10/20
84254	250	30/20/16	40	x	10/20
84256	250	30/20/16	60	x	10/20
84304	300	30	40	x	10/20
84306	300	30	60	x	10/20
84308	300	30	80	x	10/20
84309	300	30	100	x	10/20
84314	315	30	40	x	10/20
84354	350	30	40	x	5/10
84355	350	30	54	x	5/10
84358	350	30	80	x	5/10
84404	400	30	40	x	5/10
84406	400	30	60	x	5/10
84408	400	30	80	x	5/10
84456	450	30	60	x	5
84459	450	30	100	x	5
84506	500	30	60	x	5
84509	500	30	100	x	5

PROLINE REZALNI IN BRUSNI KOLUTI

Rezalni in brusni koluti za kovine in kamen se proizvajajo z mešanico večih sestavin. Glavni je aluminijev oksid ali silicijev karbid (SiC). Drugo so tekoče in ohlapne smole, steklo-plastična mreža in polnila. Kakovost izdelave diska je pod vplivom predvsem visokokvalitetnega abrazivnega materiala, visokokvalitetnih smol in pravilne ojačitve konstrukcije v obliki podlage iz stekloplastike. Za maksimalno učinkovitost rezanja in ohranjanje varnosti uporabnika je priporočljivo uporabljati samo rezalne in brusne plošče skupaj z brusilniki enakega premera.

Razlaga oznak

A - rezalna plošča za kovine. Kot abrazivni material je uporabljen aluminijev oksid (aluminijev oksid).
C - disk za rezanje kamna. Silicijev karbid (SiC) se uporablja kot abraziv
60 - velikost zrn (granulacija). Višje kot je število, več je zrn v 1 mm3 površine. Zrna so manjša, kar pomeni čistejšo rezalno površino.
Nižja velikost zrn pomeni bolj agresiven disk, vendar bodo robovi po rezanju boj nazobčani.
S - trdota telesa diska, ki jo sestavljajo polnila in smole. Disk je trdnejši, če je oznaka bližja koncu abecede
L do **O** - srednje, **P** do **S** - trdo, od **T** do **W** - zelo trdo

Dimenzije diska v mm:
Zunanji diameter
X Diameter pritrdilne luknje
X debelina diska



Za kateri material se uporablja disk

Dovoljene hitrosti uporabe

Največja hitrost uporabe

Datum izteka:
Diski se lahko uporabljajo brez omejitev do datuma izteka, npr .:
V 01/2020 = 1 kvartal 2020
V 04/2020 = 2 Kvartal 2020
V 07/2020 = 3 Kvartal 2020
V 10/2020= 4 Kvartal 2020

Varnostne oznake

	Uporabljajte zaščitne rokavice
	Shranjevati nedosegljivo otrokom
	Vedno nosite zaščitna očala
	Shranjevati nedosegljivo otrokom. Abrazivni izdelek, namenjen izključno za suho uporabo. NI DOVOLJENO ZA MOKRO UPORABO
	Izdelek je namenjen samo za suho rezanje, MOKRO REZANJE NI DOVOLJENO

Opis uporabe diska v 13 jezikih

Izdelano v skladu s standardom EN12413

Koda izdelka

Simbol oblike plošče

VRSTE OBLIK BRUSILNIH DISKOV



41
Ploščati disk



42
Sredinsko stisnjen disk



27
Brusne plošče z nižjim središčem

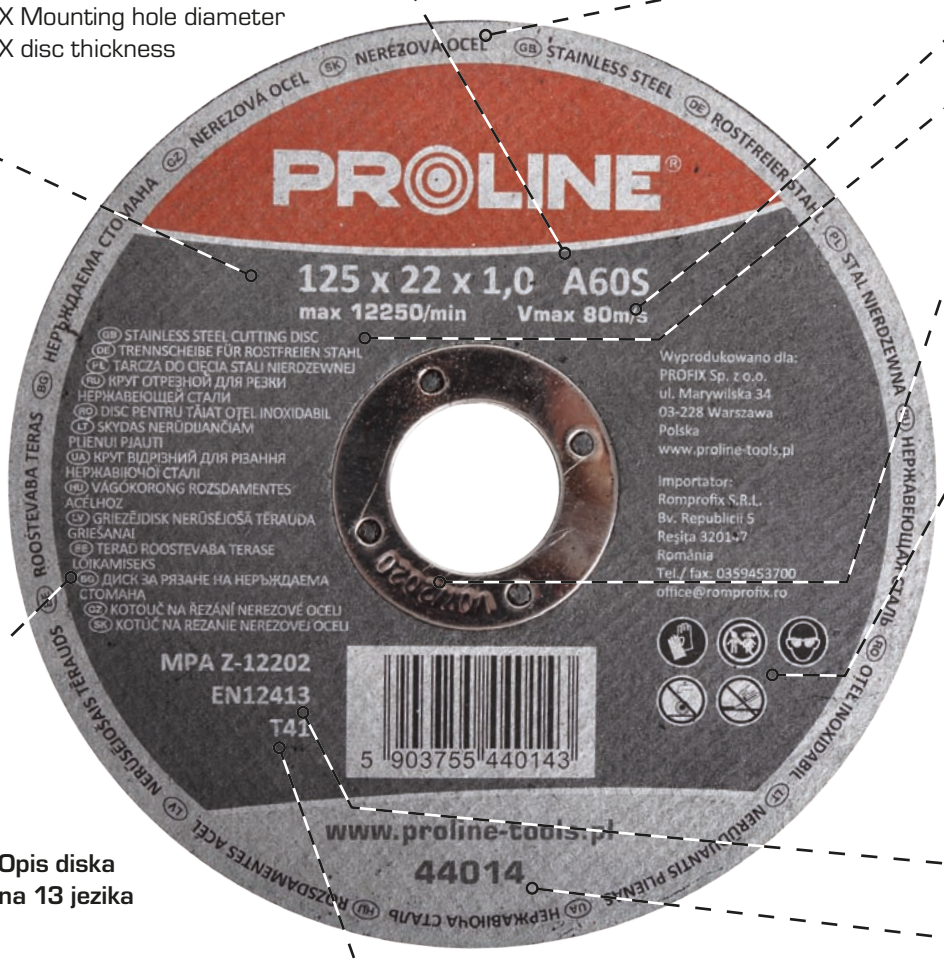
PROLINE DISKOVI ZA REZANJE I BRUŠENJE

Diskovi za rezanje ili brušenje metala i kamena proizvode se pomoću mješavine nekoliko sastojaka. Glavni je aluminijev oksid ili silicij karbid (SiC). Ostali su tekuće i labave smole, stakloplastična mreža i punila. Kvaliteta proizvodnje diska je pod utjecajem prije svega visokokvalitetnog abrazivnog materijala, visokokvalitetnih smola i ispravnog ojačanja konstrukcije u obliku podloge od stakloplastike. Za maksimalnu učinkovitost rezanja uz održavanje sigurnosti korisnika preporučljivo je koristiti samo rezne i brusne ploče s brusilicama istog vanjskog promjera.

Objašnjenje oznaka:

A - disk za rezanje metala. Kao abrazivni materijal korišten je aluminijev oksid (aluminijev oksid).
C - disk za rezanje kamena. Silicij karbid (SiC) je abraziv koji se koristi
60 - veličina zrna (granulacija). Što je veći broj, više zrna pristaje na 1 mm3 površine, tj. zrnca su manja, što znači da je površina rezanja čistija.
Manja veličina zrna znači agresivniji disk, ali rubovi nakon rezanja bit će više nazubljeni.
S - tvrdoća tijela diska koja se sastoji od punila i smole. Što je oznaka bliže kraju abecede, to je disk tvrđi.
L do **O** - srednje, **P** do **S** - tvrdo, od **T** do **W** - vrlo tvrdo

Disc dimensions in mm:
Outer diameter
X Mounting hole diameter
X disc thickness



Za koji se materijal disk koristi

Dozvoljene brzine korištenja

Maksimalna brzina korištenja

Datum isteka:
Diskovi se mogu bez ograničenja koristiti do njihova datuma isteka, npr.:
V 01/2020= 1 Kvartal 2020
V 04/2020= 2 Kvartal 2020
V 07/2020 = 3 Kvartal 2020
V 10/2020= 4 Kvartal 2020

Sigurnosne oznake

Koristite zaštitne rukavice

Držite izvan dohvata djece

Uvijek koristite zaštitne naočale

Držite izvan dohvata djece. Abrazivni proizvod namijenjen samo za suho korištenje. NIJE DOZVOLJENO MOKRO KORIŠTENJE

Proizvod namijenjen samo za suho rezanje, MOKRO REZANJE NIJE DOZVOLJENO

Opis diska na 13 jezika

Proizvedeno sukladno EN12413 standardu

Kod proizvoda

Simbol oblika diska

VRSTE BRUSNIH DISKOVA



41
Ravni disk



42
Depresirani središnji disk



27
Brusni diskovi s nižim središtem

PROLINE DISKOVI ZA REZANJE I BRUŠENJE

Diskovi za rezanje ili brušenje metala i kamena proizvode se pomoću mješavine nekoliko sastojaka. Glavni je aluminijev oksid ili silicij karbid (SiC). Ostali su tekuće i labave smole, stakloplastična mreža i punila. Kvalitet proizvodnje diska je pod uticajem prije svega visokokvalitetnog abrazivnog materijala, visokokvalitetnih smola i ispravnog ojačanja konstrukcije u obliku podloge od stakloplastike. Za maksimalnu učinkovitost rezanja uz održavanje sigurnosti korisnika preporučljivo je koristiti samo rezne i brusne ploče s brusilicama istog vanjskog prečnika.

Objašnjenje oznaka

A - disk za rezanje metala. Kao abrazivni materijal korišten je aluminijev oksid (aluminijev oksid).
C - disk za rezanje kamena. Silicij karbid (SiC) je abraziv koji se koristi
60 - veličina zrna (granulacija). Što je veći broj, više zrna pristaje na 1 mm^3 površine, tj. zrnca su manja, što znači da je površina rezanja čišća.
Manja veličina zrna znači agresivniji disk, ali rubovi nakon rezanja bit će više nazubljeni.
S - tvrdoća tijela diska koja se sastoji od punila i smole. Što je oznaka bliže kraju abecede, to je tvrđi disk.
L do **O** - srednje, **P** do **S** - tvrdo, od **T** do **W** - vrlo tvrdo

Disc dimensions in mm:
Outer diameter
X Mounting hole diameter
X disc thickness



Za koji se materijal disk koristi

Dozvoljene brzine korištenja

Maksimalna brzina korištenja

Datum isteka:
Diskovi se mogu bez ograničenja koristiti do njihova datuma isteka, npr.:
V 01/2020= 1 Kvartal 2020
V 04/2020= 2 Kvartal 2020
V 07/2020 = 3 Kvartal 2020
V 10/2020= 4 Kvartal 2020

Sigurnosne oznake


Koristite zaštitne rukavice


Držite izvan dohvata djece


Uvijek koristite zaštitne naočale


Držite izvan dohvata djece. Abrazivni proizvod namijenjen samo za suho korištenje. NIJE DOZVOLJENO MOKRO KORIŠTENJE


Proizvod namijenjen samo za suho rezanje, MOKRO REZANJE NIJE DOZVOLJENO

Opis diska na 13 jezika

Proizvedeno sukladno EN12413 standardu

Kod proizvoda

Simbol oblika diska

VRSTE BRUSNIH DISKOVA



41
Ravni disk



42
Depresirani središnji disk



27
Brusni diskovi s nižim središtem

1 REZALNA PLOŠČA ZA REZANJE NERJAVEČEGA JEKLA

• REZNI DISK ZA REZANJE NEHRĐAJUĆEG ČELIKA
• REZNI DISK ZA REZANJE NEHRĐAJUĆEG ČELIKA



• Flat disc T41 • For cutting mild steel, aluminium, nonferrous metals, stainless steel, plexiglass

Code	Size (mm)	Opening (mm)	Type	
44011	115 x 1.2	22	A60S	25/500
44012	125 x 1.2	22	A60S	25/500
44013	115 x 1.0	22	A60S	25/500
44014	125 x 1.0	22	A60S	25/500
44018	180 x 1.6	22	A36S	10/200
44023	230 x 2.0	22	A36S	10/100
44030	300 x 3.2	32	A24Q	10
44035	350 x 3.5	32	A24Q	10
44040	400 x 4.0	32	A24Q	10

2 REZALNA PLOŠČA ZA REZANJE KOVIN

• REZNI DISK ZA REZANJE METALA • REZNI DISK ZA REZANJE METALA



• For cutting metal • Flat disc T41

Code	Size (mm)	Opening (mm)	Type	
44110	115 x 1.0	22	A60S	25/500
44111	115 x 2.5	22	A30S	25/200
44112	125 x 2.5	22	A30S	25/200
44113	125 x 1.0	22	A60S	25/500
44118	180 x 2.5	22	A30S	10/100
44123	230 x 3.0	22	A30R	10/50

3 VBOČENA REZALNA PLOŠČA ZA REZANJE KOVIN

• UBOČEN REZNI DISK ZA REZANJE METALA • DEPRESIRANI REZNI DISK ZA REZANJE METALA



• For cutting metal • Convex disc T42

Code	Size (mm)	Opening (mm)	Type	
44211	115 x 2.5	22	A30S	25/200
44212	125 x 2.5	22	A36S	25/200
44223	230 x 3.0	22	A30R	10/50

4 VBOČENA REZALNA PLOŠČA ZA REZANJE KOVIN

• UBOČEN BRUSNI DISK ZA REZANJE METALA • DEPRESIRANI BRUSNI DISK ZA REZANJE METALA



• For grinding metal • Convex disc T27

Code	Size (mm)	Opening (mm)	Type	
44411	115 x 6.0	22	A24R	25/100
44412	125 x 6.0	22	A24R	25/100
44418	180 x 6.0	22	A24R	10/50
44423	230 x 6.0	22	A24R	10/40

5 REZALNA PLOŠČA ZA KAMEN

• REZNI DISK ZA KAMEN • REZNI DISK ZA KAMEN



• For cutting mineral materials • Flat disc T41

Code	Size (mm)	Opening (mm)	Type	
44511	115 x 3.0	22	C30R	25/200
44512	125 x 3.0	22	C30S	25/200
44518	180 x3.0	22	C30S	10/100
44523	230 x 3.0	22	C30S	10/50

6 VBOČENA REZALNA PLOŠČA ZA KAMEN

• UBOČEN REZNI DISK ZA REZANJE KAMENA • DEPRESIRANI REZNI DISK ZA REZANJE KAMENA



• For cutting mineral materials • Convex disc T42

Code	Size (mm)	Opening (mm)	Type	
44611	115 x 3.0	22	C30S	25/200
44612	125 x 3.0	22	C30S	25/200
44623	230 x 3.0	22	C30S	10/50

1 KERAMIČNA PLOŠČA ZA BRUŠENJE

• KERAMIČKI DISK ZA BRUŠENJE
• KERAMIČKI DISK ZA BRUŠENJE



• Grain - 95A alumina. **Use:** for steel, stainless steel, cast iron

Code	Size (mm)	Granulation	
44870	125 x 16 x 12,7	60	20
44871	150 x 20 x 12,7	60	20
44872	200 x 20 x 16	60	20
44873	200 x 40 x 20	60	8

• Grain - 98C silicon carbide. **Use:** tungsten-carbide-tipped (TCT), high-speed steel (HSS), non-ferrous metals, ceramics, glass, concrete, stone, hard cast iron.

Code	Size (mm)	Granulation	
44874	125 x 16 x1 2,7	60	20
44875	150 x 20 x 12,7	60	20
44876	200 x 20 x 16	60	20
44877	200 x 40 x 20	60	8

2 LAMELNA PLOŠČA

• LAMELNI DISK
• LAMELNI DISK







• Flap discs made from abrasive linen with corundum grain, applied evenly on the glass fibre body • **Application:** perfect for machining edges, seams on stainless steel, steel sheets, aluminium, brass, bronze, wood, plastic, paint and lacquer

Code	Size (mm)	Granulation	
44801	115	40	10/200
44802	115	60	10/200
44803	115	80	10/200
44804	115	120	10/200
44811	125	40	10/200
44812	125	60	10/200
44813	125	80	10/200
44814	125	120	10/200

3 BRUSNA PLOŠČA Z LISTIČI

• LAMELASTI DISK
• LISNI BRUSNI DISK





• Zirconia flap disc grinder • For grinding steel, stainless steel, acid resistant steel, non-ferrous metals, etc. Opening

Code	Diameter (mm)	Granulation	
44850	115	40	10/200
44851	115	60	10/200
44852	115	80	10/200
44853	115	120	10/200
44854	125	40	10/200
44855	125	60	10/200
44856	125	80	10/200
44857	125	120	10/200
44858	180	40	10/200
44859	180	60	10/100
44860	180	80	10/100
44861	180	120	10/100

4 PAHLJAČASTO BRUSNO KOLO

• BRUSNI DISK NA OSOVINI
• BRUSNI DISK S KRILCIMA





• Flap discs made from abrasive linen with corundum grain applied radially • **Application:** cleaning, finish polishing of components with complex shapes

Code	Size (mm)	Granulation	
44821	40 x 20	40	250
44822	40 x 20	60	250
44823	40 x 20	80	250
44824	40 x 20	100	250
44825	40 x 20	120	250
44831	60 x 30	40	100
44832	60 x 30	60	100
44833	60 x 30	80	100
44834	60 x 30	100	100
44835	60 x 30	120	100
44841	80 x 30	40	100
44842	80 x 30	60	100
44843	80 x 30	80	100
44844	80 x 30	100	100
44845	80 x 30	120	100

5 BRUSNA MREŽICA

• BRUSNO PLATNO
• BRUSNA MREŽICA



• Flexible fabric Type J • Full solid alumina coating • Binder – synthetic resin • **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood

Code	Size (mm)	Granulation	
49060	150 x 3000	40	4
49061	150 x 3000	60	4
49062	150 x 3000	80	4
49063	150 x 3000	100	4
49064	150 x 3000	120	4
49065	150 x 3000	240	4
49070	150 x 5000	40	2
49071	150 x 5000	60	2
49072	150 x 5000	80	2
49073	150 x 5000	100	2
49074	150 x 5000	120	2
49075	150 x 5000	240	2
49080	200 x 5000	40	2
49081	200 x 5000	60	2
49082	200 x 5000	80	2
49083	200 x 5000	100	2
49084	200 x 5000	120	2
49085	200 x 5000	240	2

6 BRUSNI PAPIR Z JEŽKOM

• BRUSNI PAPIR ČIČAK
• BRUSNI PAPIR ČIČAK





• Substrate: heavy paper Type E • Normal semi-open alumina coating • Synthetic resin binder • **Use:** wood, plywood, MDF, metal, plastic • Sold in packs of 5 pcs.

Code	Diameter (mm)	Granulation	
49130	125 mm	40	180
49131	125 mm	60	180
49132	125 mm	80	180
49133	125 mm	100	180
49134	125 mm	120	180
49135	125 mm	150	240
49136	125 mm	180	240
49137	125 mm	220	240
49138	125 mm	240	240

1 BRUSNI PAPIR Z JEŽKOM

• BRUSNI DISK S ČIČAK VRPCOM
• BRUSNI DISK ČIČAK SA RUPAMA



x5 | 125 mm

• Substrate: heavy paper Type E. Normal semi-open alumina coating. Synthetic resin binder. **Use:** wood, plywood, MDF, metal, plastic

Code	Diameter (mm)	Granulation	
49140	125	40	180
49141	125	60	180
49142	125	80	180
49143	125	100	180
49144	125	120	180
49145	125	150	240
49146	125	180	240
49147	125	220	240
49148	125	240	240

2 BRUSNI PAPIR TRIKOTNI

• DELTA BRUSNI LISTOVI
• DELTA BRUSNI LISTOVI



x5

• Substrate: heavy paper Type E • Normal semi-open alumina coating • Synthetic resin binder • **Use:** wood, plywood, MDF, metal, plastic

Code	Size (mm)	Granulation	
49150	93x93	40	320
49151	93x93	60	320
49152	93x93	80	320
49153	93x93	120	320
49154	93x93	240	320

3 VLAKNASTI BRUSNI DISKI

• FIBER DISK
• VLAKNASTI FIBER DISK



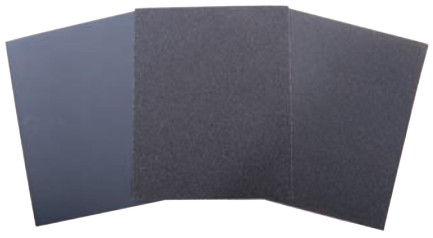
x5 | 180 mm | FIBRA

• Substrate - fibre. Coating – normal full alumina. Binder - synthetic resin. **Use:** working metal, removing rust, scales, grinding welds. For angle grinders equipped with a disk for fibre disc pads (Proline, Code-27026)

Code	Diameter (mm)	Granulation	
49160	180	40	8/80
49161	180	60	10/100
49162	180	80	10/100
49163	180	100	12/120
49164	180	120	12/120
49165	180	180	12/120
49166	180	240	12/120

4 BRUSNI PAPIR VODOODPORNI

• VODOOTPORNI BRUSNI PAPIR • VODONEPROPUSNI BRUSNI PAPIR



• Abrasive paper, waterproof. Substrate latex-backed paper Type A. Full coating - silicon carbide. Synthetic resin binder. **Use:** for wet and dry grinding. For metal surfaces, plastics, paints and varnishes, glass, etc.
• Sold in bulk packs of 50 pieces – Code means 1 item

Code	Dimension (mm)	Granulation	
49100	280 x 230	60	50/500
49101	280 x 230	80	50/500
49102	280 x 230	100	50/500
49103	280 x 230	120	50/500
49104	280 x 230	150	50/500
49105	280 x 230	180	50/1000
49106	280 x 230	220	50/1000
49107	280 x 230	240	50/1000
49108	280 x 230	280	50/1000
49109	280 x 230	320	50/1000
49110	280 x 230	360	50/1000
49111	280 x 230	400	50/1000
49112	280 x 230	500	50/1000
49113	280 x 230	800	50/1000
49114	280 x 230	1200	50/1000
49115	280 x 230	1500	50/1000
49116	280 x 230	2000	50/1000
49117	280 x 230	2500	50/1000

5 BRUSNI PAPIR

• BRUSNI PAPIR • BRUSNI PAPIR

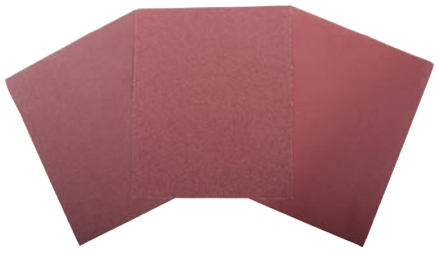


• Substrate - paper Type C. Coating - normal solid alumina. Binder – synthetic resin. **Use:** wood, metal, plastics, paints and varnishes, etc. • Sold in bulk packs of 50 pcs – Product code means 1 pc.

Code	Dimension (mm)	Granulation	
49090	280x230	40	50/500
49091	280x230	60	50/500
49092	280x230	80	50/500
49093	280x230	100	50/1000
49094	280x230	120	50/1000
49095	280x230	150	50/1000
49096	280x230	180	50/1000
49097	280x230	220	50/1000
49098	280x230	240	50/1000

6 BRUSNA MREŽICA

• BRUSNO PLATNO • BRUSNA MREŽICA



• Elastic cloth Type J. Normal solid alumina coating. Synthetic resin binder. • **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood. • Sold in bulk packs of 50 pcs – Product code means 1 pc.

Code	Dimension (mm)	Granulation	
49120	280x230	40	50/250
49121	280x230	60	50/500
49122	280x230	80	50/500
49123	280x230	100	50/500
49124	280x230	120	50/500
49125	280x230	180	50/1000
49126	280x230	220	50/1000
49127	280x230	240	50/1000

1 BRUSNI PAPIR

• BRUSNI PAPIR • BRUSNI PAPIR

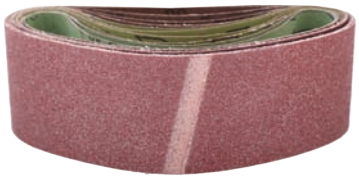


• Substrate - paper Type D. Coating - normal semi-open alumina. Binder - synthetic resin. Width: 115 mm **Use:** wood, metal, plastics, paints and varnishes, gypsum, plaster, etc.

Code	Length (m)	Granulation	
49040	5	40	50
49041	5	60	50
49042	5	80	50
49043	5	100	50
49044	5	120	50
49045	5	240	50
49046	5	320	50
49050	50	40	4
49051	50	60	4
49052	50	80	4
49053	50	100	4
49054	50	120	4
49055	50	240	4
49056	50	320	4

2 ABRAZIVNI TRAKOVI

• BRUSNE TRAKE • ABRAZIVNE TRAKE



x10

• Flexible heavy cloth Type X • Normal full alumina coating. • Synthetic resin binder
• **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood

Code	Size (mm)	Granulation	
49020	75 x 457	40	40
49021	75 x 457	60	40
49022	75 x 457	80	40
49023	75 x 457	100	40
49024	75 x 457	120	40
49025	75 x 533	40	40
49026	75 x 533	60	40
49027	75 x 533	80	40
49028	75 x 533	100	40
49029	75 x 533	120	40
49030	100 x 610	40	30
49031	100 x 610	60	30
49032	100 x 610	80	30
49033	100 x 610	100	30
49034	100 x 610	120	30

3 GUMIJASTA PODLOGA ZA BRUSNI PAPIR

• NOSAČ FIBER DISKA NA OSOVINI
• DRŽAČ PLOČICA ZA BRUSNI PAPIR



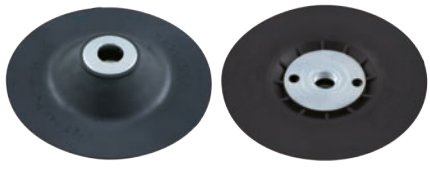
6mm

• **Application:** as an adapter for a drill on abrasive discs Ø 125 mm

Code	Ø (mm)	Max. rpm [1/min.]		
27034	125	3250	x	100

4 PODLOGA ZA BRUSNI PAPIR

• NOSAČ FIBER DISKA M14
• DRŽAČ PLOČICA ZA BRUSNI PAPIR



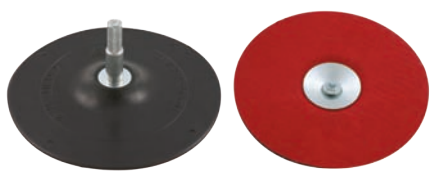
M14

• **Application:** as an adapter for an angle grinder on fibre discs Ø 125 mm

Code	Ø (mm)	Max. rpm [1/min.]		
27023	115	10000	x	100
27024	125	10000	x	100
27026	180	6000	x	100

5 PODLOGA ZA BRUSNI PAPIR

• NOSAČ FIBER DISKA NA OSOVINI
• DRŽAČ PLOČICA ZA BRUSNI PAPIR



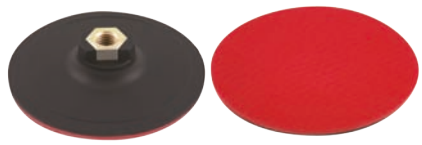
6mm

• **Application:** as an adapter for a drill on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27035	125	3250	x	100

6 PODLOGA ZA BRUSNI PAPIR

• NOSAČ BRUSNOG PAIPIRA ČIČAK M14
• PODLOGA ZA BRUSNI PAPIR



M14

• **Application:** as an adapter for an angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27036	125	12500	x	100

7 PODLOGA ZA BRUSNI PAPIR

• NOSAČ BRUSNOG PAPIRA ČIČAK NA OSOVINI
• DRŽAČ PLOČICA ZA BRUSNI PAPIR



M14 8mm

• **Application:** as an adapter for a drill and angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27037	125	12500	x	100

8 PODLOGA ZA BRUSNI PAPIR

• NOSAČ BRUSNOG PAPIRA MEKI M14
• DRŽAČ PLOČICA ZA BRUSNI PAPIR



M14

• **Application:** as an adapter for an angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27038	125	12500	x	100

LAHTI PRO®



www.g-mm.si

Lahti Pro je dinamično razvijajoča blagovna znamka profesionalnih oblačil in osebne zaščitne opreme. Izdelke pod to blagovno znamko odlikujejo originalen in sodoben dizajn, visokokakovostni MATERIALI in natančna zaključna obdelava. To pomeni, da bodo vsi tisti, ki iščejo profesionalne izdelke, ki so udobni in izgledajo dobro, našli v asortimanu Lahti Pro. Lahti Pro je sinonim za raznolikost dizajna, uporabljenih materialov in na voljo v različnih cenovnih skupinah. Izhajajoč iz osnovnih rešitev, preko modelov, ki ponujajo najboljšo funkcionalnost, do setov, ki so jih dizajnirali Lahti Pro strokovnjaki in nudijo izjemen slog in uporabo najnovejših tehnologij MATERIALOV.

Lahti Pro vključuje tudi veliko izbiro obutve in rokavic. Vsi razpoložljivi modeli združujejo izjemno trpežnost in trajnost glede poškodb, kar potrjujejo številni testi.

Lahti Pro ima sodoben center za nadzor kakovosti. Vsak izdelek, ki je na voljo za prodajo, mora prestati večstopenjski postopek testiranja, ki vključuje uporabljene materiale in izdelavo. Izdelki Lahti Pro se proizvajajo v najboljših tekstilnih tovarnah na svetu in specializiranih proizvodnih obratih, ki izpolnjujejo visoke zahteve glede kakovosti. Vsak izdelek pod blagovno znamko Lahti Pro izpolnjuje predpisane zahteve glede varnosti pri delu. Imajo vse potrebne certifikate in izpolnjujejo standarde za delo, za katerega so namenjena.



Lahti Pro je marka profesionalne odjeće i osobne zaštitne opreme koja se dinamički razvija. Proizvodi pod ovom markom odlikuju se originalnim i modernim dizajnom, visokokvalitetnim MATERIJALIMA i preciznim završnim obradama. To znači da će svatko tko traži profesionalne proizvode koji su udobni i izgledaju dobro, naći upravo ono što mu treba u Lahti Pro asortimanu. Lahti Pro je sinonim za raznolikost dizajna, korištenih materijala i, što je vrlo važno, kolekcija pripremljenih za različite budžete. Počevši od osnovnih rješenja, kroz modele koji nude povećanu funkcionalnost do konačno, setova koje su osmislili Lahti Pro stručnjaci koji nude izniman stil i koriste najnovija dostignuća u tehnologiji MATERIJALA.

Lahti Pro također uključuje veliki izbor obuće i rukavica. Svi dostupni modeli kombiniraju iznimnu udobnost s izdržljivošću i otpornošću na oštećenja, što potvrđuju brojni testovi. Lahti Pro ima moderan centar za kontrolu kvalitete. Svaki proizvod koji je dostupan za prodaju prolazi kroz postupak višestupanjskog testiranja koji obuhvaća korištene materijale i izradu. Lahti Pro proizvodi se proizvode u najboljim tvornicama tekstila na svijetu i specijaliziranim proizvodnim pogonima koji zadovoljavaju visoke zahtjeve kvalitete. Svaki proizvod pod robnom markom Lahti Pro ispunjava zahtjeve propisane zaštitom na radu. Posjeduju sve potrebne certifikate i ispunjavaju standarde za rad za koji su namijenjeni.

Lahti Pro je marka profesionalne odjeće i lične zaštitne opreme koja se dinamički razvija. Proizvodi pod ovom markom odlikuju se originalnim i modernim dizajnom, visokokvalitetnim MATERIJALIMA i preciznim završnim obradama. To znači da će svako ko traži profesionalne proizvode, koji su udobni i izgledaju dobro, naći upravo ono što mu treba u Lahti Pro asortimanu. Lahti Pro je sinonim za raznolikost dizajna, korištenih materijala i, što je vrlo važno, kolekcija pripremljenih za različite budžete. Počevši od osnovnih rješenja, kroz modele koji nude povećanu funkcionalnost, do konačno, setova koje su osmislili Lahti Pro stručnjaci, koji nude poseban stil i koriste najnovija dostignuća u tehnologiji MATERIJALA. Lahti Pro također uključuje veliki izbor obuće i rukavica. Svi dostupni modeli kombinacija su odlične udobnosti s izdržljivošću i otpornošću na oštećenja, što potvrđuju brojni testovi.

Lahti Pro ima moderan centar za kontrolu kvaliteta. Svaki proizvod, koji je dostupan za prodaju, prolazi kroz postupak testiranja na više nivoa, koji obuhvata korištene materijale i izradu. Lahti Pro proizvodi se proizvode u najboljim tvornicama tekstila na svijetu i specijaliziranim proizvodnim pogonima, koji zadovoljavaju visoke zahtjeve kvaliteta. Svaki proizvod robne marke Lahti Pro ispunjava zahtjeve propisane zaštitom na radu. Proizvodi posjeduju sve potrebne certifikate i ispunjavaju standarde za poslove, za koje su namijenjeni.

ZAŠČITNA OBLAČILA
ZAŠTITNA ODJEČA





hlače z naramnicami/
hlače sa naramnicami

srajce/košulje

jakne flis/jakna flis

kombinezoni/kombinezoni

dežni plašči/kabanice

nogavice/čarape

softshell jakne/softshell jakne

majice/majice

hlače/hlače

brezrokavniki/prsluki

oblačila za varjenje/odjeća za zavarivanje

in mnogo drugih/i puno drugih..

1 ZAŠČITNA JAKNA - OZEK KROJ

• ZAŠTITNA JAKNA - USKI KROJ • ZAŠTITNA JAKNA - USKI KROJ

270 g/m²

4 WAY STRETCHLINE

EMF CELL PHONE PROTECTION







Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 5 pockets, including 3 with zippers. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Reflective inserts that increase safety during work. Double stitching. Zipper. Sleeves, neck and pockets reinforced with an abrasion-resistant fabric (500D polyester). Bottom of the sweatshirt and sleeves adjustable with Velcro straps. Stylish and interesting design. Slim fit. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4041001**	158-164	84-88	74-78	20
M	**L4041002**	164-170	92-96	82-86	20
L	**L4041003**	170-176	100-104	90-94	20
XL	**L4041004**	176-182	108-112	98-102	20
2XL	**L4041005**	182-188	116-120	106-110	20
3XL	**L4041006**	188-194	126-130	116-120	20

1 ZAŠČITNE HLAČE - OZEK KROJ

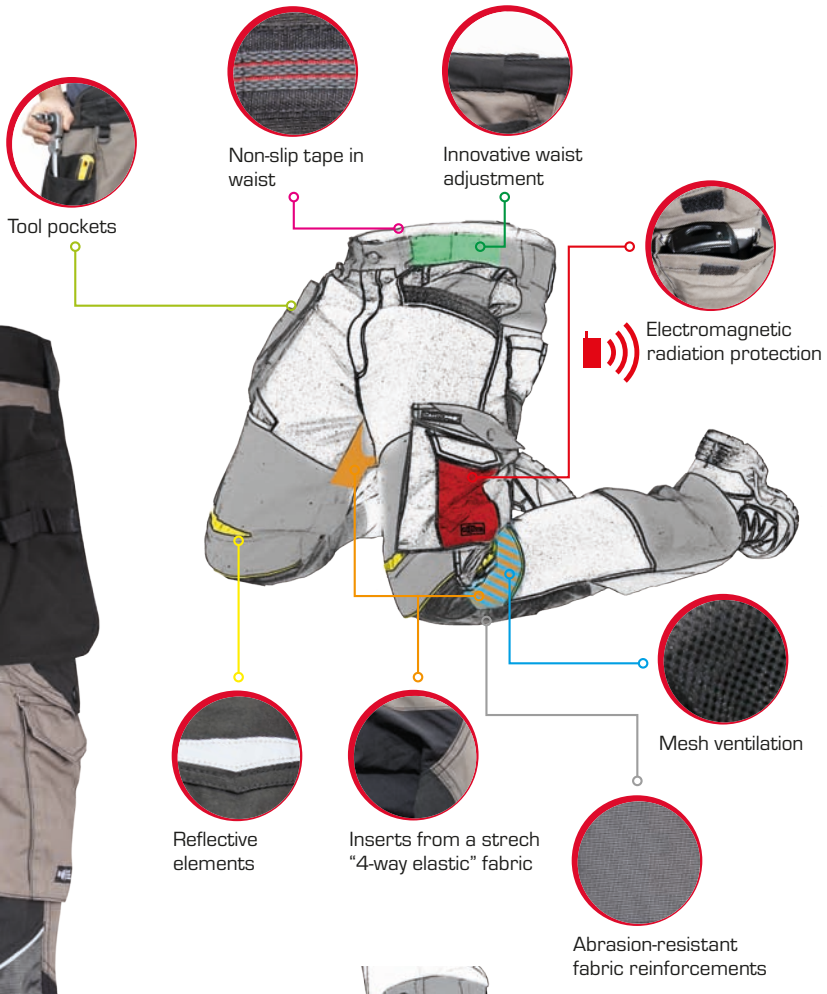
• ZAŠTITNE HLAČE - USKI KROJ • ZAŠTITNE HLAČE - USKI KROJ

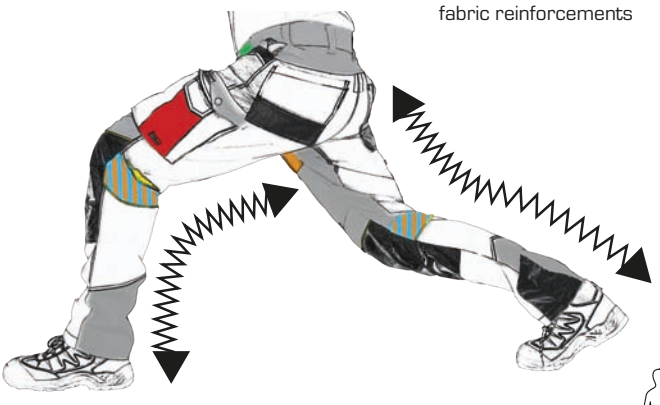
270 g/m²

4 WAY STRETCHLINE

EMF CELL PHONE PROTECTION

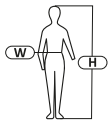








Knee pads for protective trousers and bibpants
- see **page 398**





- MATERIAL: 35% cotton, 65% polyester
- 13 pockets, including 1 with a zipper. Practical tool pockets. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Mesh ventilation at the knees. Reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Anti-slip tape at the waist (on the inside) preventing the upper body garment from slipping out of the trousers. Key ring. Loop for a hammer. 3 tape measure holders. Belt loops. Reinforced pockets, knee protector pockets and trouser bottom reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050901**	158-164	74-78	20
M	**L4050902**	164-170	82-86	20
L	**L4050903**	170-176	90-94	20
XL	**L4050904**	176-182	98-102	20
2XL	**L4050905**	182-188	106-110	20
3XL	**L4050906**	188-194	116-120	20

1 ZAŠČITNE HLAČE Z NARAMNICAMI, OZEK KROJ

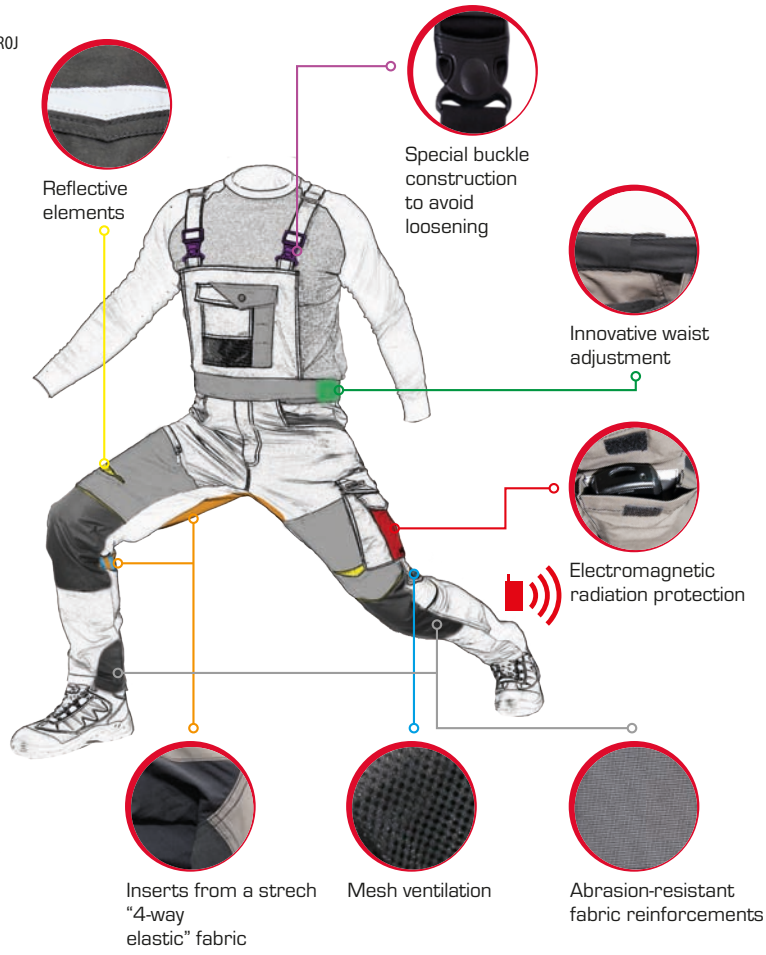
• ZAŠTITNE HLAČE S NARAMENICAMA, USKI KROJ • ZAŠTITNE HLAČE S NARAMENICAMA, USKI KROJ

270 g/m²

4 WAY STRETCHLINE

EMF CELL PHONE PROTECTION

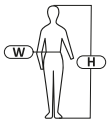






Knee pads for protective trousers and bibpants
- see **page 398**





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester
- 13 pockets, including 1 with a zipper. Practical tool pockets. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Mesh ventilation at the knees. Reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band.Key ring. Loop for a hammer. Length–adjustable braces. Reinforced pockets, knee protector pockets and trouser bottom reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060901**	158-164	74-78	20
M	**L4060902**	164-170	82-86	20
L	**L4060903**	170-176	90-94	20
XL	**L4060904**	176-182	98-102	20
2XL	**L4060905**	182-188	106-110	20
3XL	**L4060906**	188-194	116-120	20

1 JEANS HLAČE, OZEK KROJ

• JEANS HLAČE, USKI KROJ • JEANS HLAČE, USKI KROJ

340 g/m²

EMF CELL PHONE PROTECTION

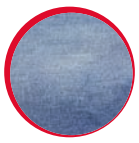


Electromagnetic radiation protection





Innovative waist adjustment



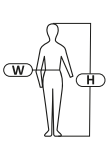
Elastic material with strech



Abrasion-resistant fabric reinforcements



Knee pads for protective trousers and bibpants
- see **page 398**





- MATERIAL: 70% cotton, 28% polyester, 2% elastane
- 12 pockets, including 2 with a snap fastener. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch fabric provides flexibility and comfort during use. Double stitching. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Key ring. Loop for a hammer. Belt loops. Pockets and knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Slim fit. Stylish and interesting design. ID insert
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4051001**	158-164	74-78	20
M	**L4051002**	164-170	82-86	20
L	**L4051003**	170-176	90-94	20
XL	**L4051004**	176-182	98-102	20
2XL	**L4051005**	182-188	106-110	20
3XL	**L4051006**	188-194	116-120	20



1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

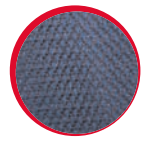
270 g/m²

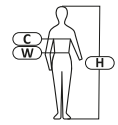
9 POCKETS




Reflective stripes


9 pockets


Mesh lining



Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 9 pockets, including 6 zipped ones. Mobile phone pocket. Zip. Ventilation openings and mesh lining to increase air circulation. Reflective stripes to improve work safety. Jacket sleeves and bottom adjustable with strong Velcros. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

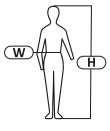
Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040301**	158-164	86-90	80-84	10
M	**L4040302**	164-170	94-98	86-90	10
L	**L4040303**	170-176	102-106	92-96	10
XL	**L4040304**	176-182	110-114	98-102	10
2XL	**L4040305**	182-188	118-122	104-108	10
3XL	**L4040306**	188-194	126-130	110-114	10

2 ZAŠČITNE HLAČE

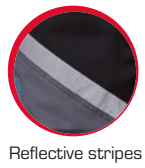
• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

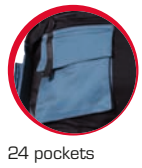
270 g/m²

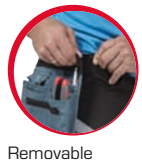
24 POCKETS






Reflective stripes


24 pockets


Removable and adjustable tool pockets


Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 24 pockets, including 4 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with strong Velcros. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

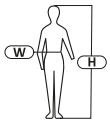
Size	Code	H (cm)	W (cm)	
S	**L4050201**	158-164	80-84	10
M	**L4050202**	164-170	86-90	10
L	**L4050203**	170-176	92-96	10
XL	**L4050204**	176-182	98-102	10
2XL	**L4050205**	182-188	104-108	10
3XL	**L4050206**	188-194	110-114	10

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

270 g/m²

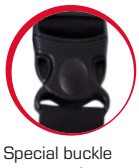
18 POCKETS






Reflective stripes


18 pockets


Special buckle construction to avoid loosening


Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 18 pockets, including 3 zipped ones. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch Waist width adjustable with buttons and a rubber band. Key ring. 2 hammer loops. 2 tape measure loops. Length–adjustable braces. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060201**	158-164	80-92	10
M	**L4060202**	164-170	86-96	10
L	**L4060203**	170-176	92-102	10
XL	**L4060204**	176-182	98-108	10
2XL	**L4060205**	182-188	104-114	10
3XL	**L4060206**	188-194	110-120	10

1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

270 g/m²

100% COTTON

9 POCKETS

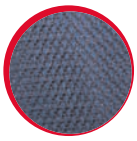




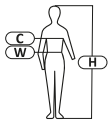
Reflective stripes



9 pockets



Mesh lining



Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 9 pockets, including 6 zipped ones. Mobile phone pocket. Zip. Ventilation openings and mesh lining to increase air circulation. Reflective stripes to improve work safety. Jacket sleeves and bottom adjustable with strong Velcros. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040601**	158-164	86-90	80-84	10
M	**L4040602**	164-170	94-98	86-90	10
L	**L4040603**	170-176	102-106	92-96	10
XL	**L4040604**	176-182	110-114	98-102	10
2XL	**L4040605**	182-188	118-122	104-108	10
3XL	**L4040606**	188-194	126-130	110-114	10

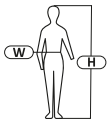
2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

270 g/m²

100% COTTON

24 POCKETS





Knee pads for protective trousers and bibpants
- see **page 398**





Reflective stripes



24 pockets



Removable and adjustable tool pockets

Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 24 pockets, including 4 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with strong Velcros. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050501**	158-164	80-84	10
M	**L4050502**	164-170	86-90	10
L	**L4050503**	170-176	92-96	10
XL	**L4050504**	176-182	98-102	10
2XL	**L4050505**	182-188	104-108	10
3XL	**L4050506**	188-194	110-114	10

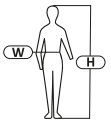
3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

270 g/m²

100% COTTON

18 POCKETS





Knee pads for protective trousers and bibpants
- see **page 398**





Reflective stripes



18 pockets



Special buckle construction to avoid loosening

Kat. I
Cat. I

CE

- MATERIAL: 100% bawełna
- 18 pockets, including 3 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with buttons and strong elastic band. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert. Length–adjustable braces.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060501**	158-164	80-92	10
M	**L4060502**	164-170	86-96	10
L	**L4060503**	170-176	92-102	10
XL	**L4060504**	176-182	98-108	10
2XL	**L4060505**	182-188	104-114	10
3XL	**L4060506**	188-194	110-120	10

1 ZAŠČITNA JAKNA

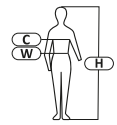
• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

245 g/m²




Reflective stripes


Abrasion-resistant fabric reinforcements



Kat. I
Cat. I

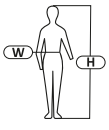
- MATERIAL: 35% cotton, 65% polyester
- 4 pockets, including 2 with Velcro straps. Double stitching. Zipper. Reflective strips that improve safety during work. Sleeves reinforced with an abrasion-resistant fabric (600D polyester). Bottom of the jacket and sleeves adjustable with Velcro straps. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040801**	158-164	84-88	72-76	10
M	**L4040802**	164-170	92-96	82-86	10
L	**L4040803**	170-176	100-104	90-94	10
XL	**L4040804**	176-182	108-112	98-102	10
2XL	**L4040805**	182-188	116-120	106-110	10
3XL	**L4040806**	188-194	126-130	116-120	10

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

245 g/m²






Reflective stripes


Tool pockets


Abrasion-resistant fabric reinforcemen


Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

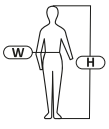
- MATERIAL: 35% cotton, 65% polyester
- 16 pockets, including 1 with a Velcro strap. Practical tool pockets. Reflective strips that improve safety during work. Double stitching. Additional reinforcement of seams in the crotch area. Adjustable waist with an elastic band. Key ring. 6 loops for a hammer/measuring tape. Belt loops. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). ID insert
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050701**	158-164	72-76	10
M	**L4050702**	164-170	82-86	10
L	**L4050703**	170-176	90-94	10
XL	**L4050704**	176-182	98-102	10
2XL	**L4050705**	182-188	106-110	10
3XL	**L4050706**	188-194	116-120	10

3 ZAŠČITNE HLAČE Z NARAMNICAMI

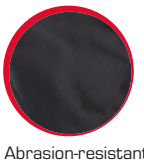
• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

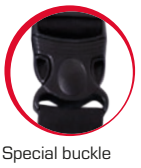
245 g/m²






Reflective stripes


Abrasion-resistant fabric reinforcemen


Special buckle construction to avoid loosening


Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 12 pockets, including 2 with Velcro straps. Reflective strips that improve safety during work. Double stitching. Additional reinforcement of seams in the crotch area. Adjustable waist with buttons and an elastic band. Key ring. Adjustable-length braces. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060701**	158-164	72-76	10
M	**L4060702**	164-170	82-86	10
L	**L4060703**	170-176	90-94	10
XL	**L4060704**	176-182	98-102	10
2XL	**L4060705**	182-188	106-110	10
3XL	**L4060706**	188-194	116-120	10

1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

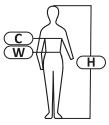
CERTYFIKAT
CIOP – PIB

267 g/m²





Abrasion-resistant fabric reinforcemen



Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings with a mesh, zipped. Sleeves, yoke and pockets strengthened with a fabric (600D polyester). Sleeves ended with flexible cuffs. Width adjustment at the jacket bottom with buttons ID insert.
- NORM: EN ISO 13688

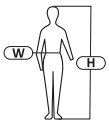
Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**LPBR0148**	164-170	88-96	78-84	x	10
M (50)	**LPBR0150**	170-176	96-104	82-86	x	10
L (52)	**LPBR0152**	176-182	104-108	84-90	x	10
2L (54)	**LPBR0154**	176-182	108-116	88-96	x	10
XL (56)	**LPBR0156**	182-188	116-124	96-102	x	10
3XL (60)	**LPBR0160**	194-200	124-132	104-110	x	10

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

CERTYFIKAT
CIOP – PIB

267 g/m²







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket Triple seams. Waist width adjustment with buttons Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester) resistant to chafing.
- NORM: EN ISO 13688

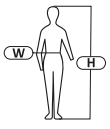
Size	Code	H (cm)	W (cm)		
S (48)	**LPSR0148**	164-170	78-84	x	10
M (50)	**LPSR0150**	170-176	82-86	x	10
L (52)	**LPSR0152**	176-182	84-90	x	10
2L (54)	**LPSR0154**	176-182	88-96	x	10
XL (56)	**LPSR0156**	182-188	96-102	x	10
3XL (60)	**LPSR0160**	194-200	104-110	x	10

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

CERTYFIKAT
CIOP – PIB

267 g/m²







Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

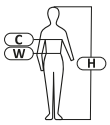
- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band. Key ring. Hammer loop. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric a fabric (600D polyester)
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**LPSR0248**	164-170	78-90	x	10
M (50)	**LPSR0250**	170-176	82-92	x	10
L (52)	**LPSR0252**	176-182	84-96	x	10
2L (54)	**LPSR0254**	176-182	88-102	x	10
XL (56)	**LPSR0256**	182-188	96-108	x	10
3XL (60)	**LPSR0260**	194-200	104-116	x	10

1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

190 g/m²







Abrasion-resistant fabric reinforcemen

Kat. I Cat. I CE

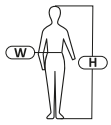
- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with a fabric (300D polyester) Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4040448**	164-170	88-96	78-84	20
M (50)	**L4040450**	170-176	96-104	82-86	20
L (52)	**L4040452**	176-182	104-108	84-90	20
2L (54)	**L4040454**	176-182	108-116	88-96	20
XL (56)	**L4040456**	182-188	116-124	96-102	20
3XL (60)	**L4040460**	194-200	124-132	104-110	20

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

190 g/m²





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen

Kat. I Cat. I CE

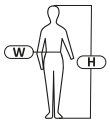
- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with a fabric (300D polyester). Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4050348**	164-170	78-84	20
M (50)	**L4050350**	170-176	82-86	20
L (52)	**L4050352**	176-182	84-90	20
2L (54)	**L4050354**	176-182	88-96	20
XL (56)	**L4050356**	182-188	96-102	20
3XL (60)	**L4050360**	194-200	104-110	20

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

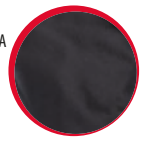
190 g/m²





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid self loosening

Kat. I Cat. I CE

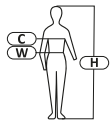
- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket Triple seams. Waist width adjustment with buttons and a rubber band Key ring. Hammer loop. Adjustable braces Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4060348**	164-170	78-90	20
M (50)	**L4060350**	170-176	82-92	20
L (52)	**L4060352**	176-182	84-96	20
2L (54)	**L4060354**	176-182	88-102	20
XL (56)	**L4060356**	182-188	96-108	20
3XL (60)	**L4060360**	194-200	104-116	20

4 ZAŠČITNI KOMBINEZON

• ZAŠTITNI KOMBINEZON • ZAŠTITNI KOMBINEZON

190 g/m²





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen

Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket Two-way zip. Ventilation openings to increase air circulation. Sleeves adjustable with Velcro Triple seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Sleeves, yoke, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester) resistant to chafing. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4150148**	164-170	88-96	78-84	20
M (50)	**L4150150**	170-176	96-104	82-86	20
L (52)	**L4150152**	176-182	104-108	84-90	20
2L (54)	**L4150154**	176-182	108-116	88-96	20
XL (56)	**L4150156**	182-188	116-124	96-102	20
3XL (60)	**L4150160**	194-200	124-132	104-110	20

1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠČITNA JAKNA

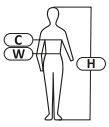
270 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings with a mesh, zipped. Reflective components. Sleeves, yoke and pockets strengthened with an abrasion-resistant fabric (600D polyester). Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with buttons. ID insert.
- NORM: EN ISO 13688

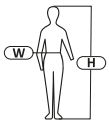
Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**L4040148**	164-170	88-96	78-84	x	10
M (50)	**L4040150**	170-176	96-104	82-86	x	10
L (52)	**L4040152**	176-182	104-108	84-90	x	10
2L (54)	**L4040154**	176-182	108-116	88-96	x	10
XL (56)	**L4040156**	182-188	116-124	96-102	x	10
3XL (60)	**L4040160**	194-200	124-132	104-110	x	10

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

270 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

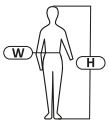
Size	Code	H (cm)	W (cm)		
S (48)	**L4050148**	164-170	78-84	x	10
M (50)	**L4050150**	170-176	82-86	x	10
L (52)	**L4050152**	176-182	84-90	x	10
2L (54)	**L4050154**	176-182	88-96	x	10
XL (56)	**L4050156**	182-188	96-102	x	10
3XL (60)	**L4050160**	194-200	104-110	x	10

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

270 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 10 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band Key ring. Hammer loop. Reflective components. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4060148**	164-170	78-90	x	10
M (50)	**L4060150**	170-176	82-92	x	10
L (52)	**L4060152**	176-182	84-96	x	10
2L (54)	**L4060154**	176-182	88-102	x	10
XL (56)	**L4060156**	182-188	96-108	x	10
3XL (60)	**L4060160**	194-200	104-116	x	10

1 ZAŠČITNA JAKNA

• ZAŠTITNE JAKNE • ZAŠTITNE JAKNE

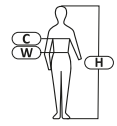
270 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings with a mesh, zipped. Reflective components. Sleeves, yoke and pockets strengthened with (600D polyester). Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with buttons. ID insert.
- NORM: EN ISO 13688

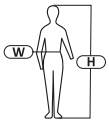
Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**L4040748**	164-170	88-96	78-84	x	10
M (50)	**L4040750**	170-176	96-104	82-86	x	10
L (52)	**L4040752**	176-182	104-108	84-90	x	10
2L (54)	**L4040754**	176-182	108-116	88-96	x	10
XL (56)	**L4040756**	182-188	116-124	96-102	x	10
3XL (60)	**L4040760**	194-200	124-132	104-110	x	10

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

270 g/m²

100% COTTON





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

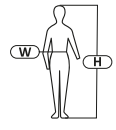
Size	Code	H (cm)	W (cm)		
S (48)	**L4050648**	164-170	78-84	x	10
M (50)	**L4050650**	170-176	82-86	x	10
L (52)	**L4050652**	176-182	84-90	x	10
2L (54)	**L4050654**	176-182	88-96	x	10
XL (56)	**L4050656**	182-188	96-102	x	10
3XL (60)	**L4050660**	194-200	104-110	x	10

2 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA
• ZAŠTITNE HLAČE S NARAMENICAMA

270 g/m²

100% COTTON





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 10 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band. Key ring. Hammer loop. Reflective components. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4060648**	164-170	78-90	x	10
M (50)	**L4060650**	170-176	82-92	x	10
L (52)	**L4060652**	176-182	84-96	x	10
2L (54)	**L4060654**	176-182	88-102	x	10
XL (56)	**L4060656**	182-188	96-108	x	10
3XL (60)	**L4060660**	194-200	104-116	x	10

1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNE JAKNE

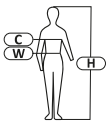
190 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with an abrasion-resistant fabric (300D polyester). Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

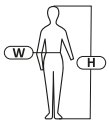
Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4040548**	164-170	88-96	78-84	20
M (50)	**L4040550**	170-176	96-104	82-86	20
L (52)	**L4040552**	176-182	104-108	84-90	20
2L (54)	**L4040554**	176-182	108-116	88-96	20
XL (56)	**L4040556**	182-188	116-124	96-102	20
3XL (60)	**L4040560**	194-200	124-132	104-110	20

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

190 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustable with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

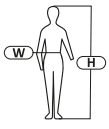
Size	Code	H (cm)	W (cm)	
S (48)	**L4050448**	164-170	78-84	20
M (50)	**L4050450**	170-176	82-86	20
L (52)	**L4050452**	176-182	84-90	20
2L (54)	**L4050454**	176-182	88-96	20
XL (56)	**L4050456**	182-188	96-102	20
3XL (60)	**L4050460**	194-200	104-110	20

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

190 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustable with buttons and a rubber band. Key ring. Hammer loop. Adjustable braces. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4060448**	164-170	78-90	20
M (50)	**L4060450**	170-176	82-92	20
L (52)	**L4060452**	176-182	84-96	20
2L (54)	**L4060454**	176-182	88-102	20
XL (56)	**L4060456**	182-188	96-108	20
3XL (60)	**L4060460**	194-200	104-116	20

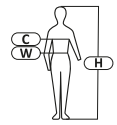
1 ZAŠČITNA JAKNA

• ZAŠTITNA JAKNA • ZAŠTITNA JAKNA

245 g/m²



Allton



Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 3 with Velcro fastening. Mobile phone pocket. Triple seams. Zip. Width adjustment at the jacket bottom, with snap fasteners. Cuffs fastened with snap fasteners, enabling adjustment. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

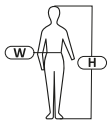
Size	Code	H (cm)	C (cm)	W (cm)	
S	**LPAB64S**	164	84-88	72-76	10
M	**LPAB70M**	170	92-96	82-86	10
M	**LPAB76M**	176	92-96	82-86	10
L	**LPAB76L**	176	100-104	90-94	10
L	**LPAB82L**	182	100-104	90-94	10
L	**LPAB88L**	188	100-104	90-94	10
XL	**LPAB76XL**	176	108-112	98-102	10
XL	**LPAB82XL**	182	108-112	98-102	10
XL	**LPAB88XL**	188	108-112	98-102	10
2XL	**LPAB822XL**	182	116-120	106-110	10
2XL	**LPAB882XL**	188	116-120	106-110	10
3XL	**LPAB943XL**	194	126-130	116-120	10

2 ZAŠČITNE HLAČE

• ZAŠTITNE HLAČE • ZAŠTITNE HLAČE

Allton

245 g/m²







Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 2 with Velcro fastening. Double seams. Waist width adjustment with a rubber band. Key ring. Knee pad pockets with Velcro fastening. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

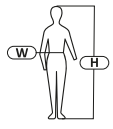
Size	Code	H (cm)	W (cm)	
S	**LPAS64S**	164	72-76	10
M	**LPAS70M**	170	82-86	10
M	**LPAS76M**	176	82-86	10
L	**LPAS76L**	176	90-94	10
L	**LPAS82L**	182	90-94	10
L	**LPAS88L**	188	90-94	10
XL	**LPAS76XL**	176	98-102	10
XL	**LPAS82XL**	182	98-102	10
XL	**LPAS88XL**	188	98-102	10
2XL	**LPAS822XL**	182	106-110	10
2XL	**LPAS882XL**	188	106-110	10
3XL	**LPAS943XL**	194	116-120	10

3 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

Allton

245 g/m²







Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with buttons and a rubber band. Key ring. Braces adjustable with a fastener and a rubber band. Knee pad pockets with Velcro fastening. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**LPAO64S**	164	72-76	10
M	**LPAO70M**	170	82-86	10
M	**LPAO76M**	176	82-86	10
L	**LPAO76L**	176	90-94	10
L	**LPAO82L**	182	90-94	10
L	**LPAO88L**	188	90-94	10
XL	**LPAO76XL**	176	98-102	10
XL	**LPAO82XL**	182	98-102	10
XL	**LPAO88XL**	188	98-102	10
2XL	**LPAO822XL**	182	106-110	10
2XL	**LPAO882XL**	188	106-110	10
3XL	**LPAO943XL**	194	116-120	10

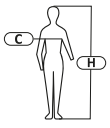
1 ZAŠČITNI TELOVNIK

• ZAŠTITNI PRSLUK • ZAŠTITNI PRSLUK

Allton

245 g/m²





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 8 pockets, including 2 zipped ones. Mobile phone pocket. Zip. Key ring. Tape measure loop. Mesh lining. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPAK1S**	158-164	84-88	20
M	**LPAK1M**	164-170	92-96	20
L	**LPAK1L**	170-176	100-104	20
XL	**LPAK1XL**	176-182	108-112	20
2XL	**LPAK12XL**	182-188	116-120	20
3XL	**LPAK13XL**	188-194	126-130	20

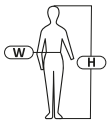
2 ZAŠČITNE KRATKE HLAČE

• ZAŠTITNE KRATKE HLAČE • ZAŠTITNE KRATKE HLAČE

Allton

245 g/m²





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Width adjustment with a rubber band. Key ring. Narrow side pocket. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**LPAS1S**	158-164	72-76	20
M	**LPAS1M**	164-170	82-86	20
L	**LPAS1L**	170-176	90-94	20
XL	**LPAS1XL**	176-182	98-102	20
2XL	**LPAS12XL**	182-188	106-110	20
3XL	**LPAS13XL**	188-194	116-120	20

3 ZAŠČITNE KRATKE HLAČE

• ZAŠTITNE KRATKE HLAČE • ZAŠTITNE KRATKE HLAČE

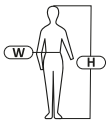
Allton

245 g/m²



Adjustable widht of the leg bottom with a special drawstring.





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Width adjustment with a rubber band. Width adjustment at the pants' bottom with a special drawstring. Key ring. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L1714012**	158-164	72-76	20
M	**L1714013**	164-170	82-86	20
L	**L1714014**	170-176	90-94	20
XL	**L1714015**	176-182	98-102	20
2XL	**L1714016**	182-188	106-110	20
3XL	**L1714017**	188-194	116-120	20

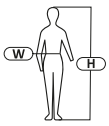
1 ZAŠČITNE KRATKE HLAČE

• ZAŠTITNE KRATKE HLAČE • ZAŠTITNE KRATKE HLAČE

245 g/m²

100% COTTON





Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 10 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Tape measure loop. Narrow side pocket. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4070401**	158-164	72-76	20
M	**L4070402**	164-170	82-86	20
L	**L4070403**	170-176	90-94	20
XL	**L4070404**	176-182	98-102	20
2XL	**L4070405**	182-188	106-110	20
3XL	**L4070406**	188-194	116-120	20

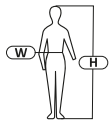
2 ZAŠČITNE KRATKE HLAČE

• ZAŠTITNE KRATKE HLAČE • ZAŠTITNE KRATKE HLAČE

245 g/m²

100% COTTON





Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 10 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Tape measure loop. Narrow side pocket. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4070301**	158-164	72-76	20
M	**L4070302**	164-170	82-86	20
L	**L4070303**	170-176	90-94	20
XL	**L4070304**	176-182	98-102	20
2XL	**L4070305**	182-188	106-110	20
3XL	**L4070306**	188-194	116-120	20



1 ZAŠČITNA OBLAČILA - KOMPLETI (JAKNA IN HLAČE Z NARAMNICAMI)

• ZAŠTITNA ODJEĆA - KOMPLETI (JAKNA I HLAČE S NARAMENICAMA) • ZAŠTITNA ODJEĆA - KOMPLETI (JAKNA I HLAČE S NARAMENICAMA)

Quest

210 g/m²



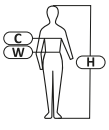
Special buckle construction to avoid self loosening











Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- **Jacket:** 2 pockets with Velcro fastening. Double seams. Ventilation openings to improve air circulation. Width adjustment at the jacket bottom with a rubber band. Buttoned-up cuffs. ID insert. **Bib pants:** 6 pockets, including 1 with a zip fastener. Double seams. Waist width adjustment with buttons and a rubber band. Adjustable braces with a fastener and a rubber band. Loop for hammer and tape measure. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	W (cm)	
S	**LPQK64S**		**LPQA64S**		**LPQC64S**		**LPQE64S**		164	84-88	72-76	5
M	**LPQK70M**		**LPQA70M**		**LPQC70M**		**LPQE70M**		170	92-96	82-86	5
M	**LPQK76M**		**LPQA76M**		**LPQC76M**		**LPQE76M**		176	92-96	82-86	5
L	**LPQK76L**		**LPQA76L**		**LPQC76L**		**LPQE76L**		176	100-104	90-94	5
L	**LPQK82L**		**LPQA82L**		**LPQC82L**		**LPQE82L**		182	100-104	90-94	5
L	**LPQK88L**		**LPQA88L**		**LPQC88L**		**LPQE88L**		188	100-104	90-94	5
XL	**LPQK76XL**		**LPQA76XL**		**LPQC76XL**		**LPQE76XL**		176	108-112	98-102	5
XL	**LPQK82XL**		**LPQA82XL**		**LPQC82XL**		**LPQE82XL**		182	108-112	98-102	5
XL	**LPQK88XL**		**LPQA88XL**		**LPQC88XL**		**LPQE88XL**		188	108-112	98-102	5
2XL	**LPQK822XL**		**LPQA822XL**		**LPQC822XL**		**LPQE822XL**		182	116-120	106-110	5
2XL	**LPQK882XL**		**LPQA882XL**		**LPQC882XL**		**LPQE882XL**		188	116-120	106-110	5
3XL	**LPQK943XL**		**LPQA943XL**		**LPQC943XL**		**LPQE943XL**		194	126-130	116-120	5

1 ZAŠČITNE HLAČE Z NARAMNICAMI

• ZAŠTITNE HLAČE S NARAMENICAMA • ZAŠTITNE HLAČE S NARAMENICAMA

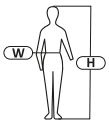
Quest

210 g/m²



Special buckle construction to avoid self loosening





Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 6 pockets, including 1 with Zip. Double seams. Waist width adjustment with buttons and a rubber band. Braces adjustable with a fastener and a rubber band. Loop for hammer and tape measure. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**LPQL64S**		**LPQB64S**		**LPQD64S**		164	72-76	10
M	**LPQL70M**		**LPQB70M**		**LPQD70M**		170	82-86	10
M	**LPQL76M**		**LPQB76M**		**LPQD76M**		176	82-86	10
L	**LPQL76L**		**LPQB76L**		**LPQD76L**		176	90-94	10
L	**LPQL82L**		**LPQB82L**		**LPQD82L**		182	90-94	10
L	**LPQL88L**		**LPQB88L**		**LPQD88L**		188	90-94	10
XL	**LPQL76XL**		**LPQB76XL**		**LPQD76XL**		176	98-102	10
XL	**LPQL82XL**		**LPQB82XL**		**LPQD82XL**		182	98-102	10
XL	**LPQL88XL**		**LPQB88XL**		**LPQD88XL**		188	98-102	10
2XL	**LPQL822XL**		**LPQB822XL**		**LPQD822XL**		182	106-110	10
2XL	**LPQL882XL**		**LPQB882XL**		**LPQD882XL**		188	106-110	10
3XL	**LPQL943XL**		**LPQB943XL**		**LPQD943XL**		194	116-120	10

1 OBLAČILA ZA VARJENJE Z OJAČITVIJO - KOMPLET (JAKNA, HLAČE Z NARAMNICAMI)

- ODJEĆA ZA ZAVARIVANJE S OJAČANJEM - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)
- ODJEĆA ZA ZAVARIVANJE S POJAČANJEM - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)

380 g/m²

100% COTTON

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1

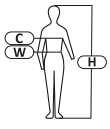


Special buckle construction to avoid self loosening

CERTYFIKAT CIOP – PIB







Kat. II Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), convection heat (performance level B1) and thermal radiation (performance level C1). Made from thick cotton textile with a special satin weave and fire-retardant finish. The front of the jacket and the bib pants and the lower part of the sleeves are reinforced with the double textile layer to improve protection. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: Zip covered with a snap-fastened fold. 2 zipped inner pockets. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners to enable adjustment. High-quality zip from a renowned supplier and YKK snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140511**	164-170	96-104	84-92	20
M (A)	**L4140512**	170-176	96-104	84-92	20
M (B)	**L4140522**	170-176	104-112	92-100	20
L (A)	**L4140513**	176-182	96-104	84-92	20
L (B)	**L4140523**	176-182	104-112	92-100	20
L (C)	**L4140533**	176-182	112-120	100-108	20
XL (A)	**L4140514**	182-188	96-104	84-92	20
XL (B)	**L4140524**	182-188	104-112	92-100	20
XL (C)	**L4140534**	182-188	112-120	100-108	20
2XL (B)	**L4140525**	188-194	104-112	92-100	20
2XL (C)	**L4140535**	188-194	112-120	100-108	20
3XL (C)	**L4140536**	194-200	112-120	100-108	20

2 OBLAČILA ZA VARJENJE Z OJAČITVIJO NA MANŠETAH - KOMPLET (JAKNA, HLAČE Z NARAMNICAMI)

- ODJEĆA ZA ZAVARIVANJE S OJAČANJEM NA MANŠETAMA - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)
- ODJEĆA ZA ZAVARIVANJE S POJAČANJEM NA MANDŽETAMA - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)

380 g/m²

100% COTTON

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1

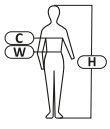


Special buckle construction to avoid self loosening

CERTYFIKAT CIOP – PIB







Kat. II Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), convection heat (performance level B1) and thermal radiation (performance level C1). Made from thick cotton textile with a special satin weave and fire-retardant finish. The jacket cuffs are reinforced with the double textile layer to improve protection. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: Zip covered with a snap-fastened fold. 2 zipped inner pockets. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners to enable adjustment. High-quality zip from a renowned supplier and YKK snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

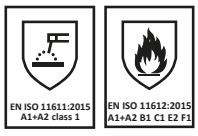
Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140611**	164-170	96-104	84-92	20
M (A)	**L4140612**	170-176	96-104	84-92	20
M (B)	**L4140622**	170-176	104-112	92-100	20
L (A)	**L4140613**	176-182	96-104	84-92	20
L (B)	**L4140623**	176-182	104-112	92-100	20
L (C)	**L4140633**	176-182	112-120	100-108	20
XL (A)	**L4140614**	182-188	96-104	84-92	20
XL (B)	**L4140624**	182-188	104-112	92-100	20
XL (C)	**L4140634**	182-188	112-120	100-108	20
2XL (B)	**L4140625**	188-194	104-112	92-100	20
2XL (C)	**L4140635**	188-194	112-120	100-108	20
3XL (C)	**L4140636**	194-200	112-120	100-108	20

1 OBLAČILA ZA VARJENJE - KOMPLET (JAKNA, HLAČE Z NARAMNICAMI)

• ODJEĆA ZA ZAVARIVANJE - KOMPLET (JAKNA, HLAČE S NARAMENICAMA) • ODJEĆA ZA ZAVARIVANJE - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)

320 g/m²

100% COTTON

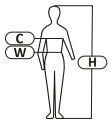




Special buckle construction to avoid self loosening







Kat. II
Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), molten iron spatter (performance level E2), convection heat (performance level B1), contact heat (performance level F1) and thermal radiation (performance level C1). Made from thick cotton textile with a fire-retardant finish. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: buttoned-up, buttons covered with a fold. Zipped inner pocket. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140311**	164-170	96-104	84-92	20
M (A)	**L4140312**	170-176	96-104	84-92	20
M (B)	**L4140322**	170-176	104-112	92-100	20
L (A)	**L4140313**	176-182	96-104	84-92	20
L (B)	**L4140323**	176-182	104-112	92-100	20
L (C)	**L4140333**	176-182	112-120	100-108	20
XL (A)	**L4140314**	182-188	96-104	84-92	20
XL (B)	**L4140324**	182-188	104-112	92-100	20
XL (C)	**L4140334**	182-188	112-120	100-108	20
2XL (B)	**L4140325**	188-194	104-112	92-100	20
2XL (C)	**L4140335**	188-194	112-120	100-108	20
3XL (C)	**L4140336**	194-200	112-120	100-108	20

2 OBLAČILA ZA VARJENJE - KOMPLET (JAKNA, HLAČE Z NARAMNICAMI)

• ANTISTATIČKA ODJEĆA ZA ZAVARIVANJE - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)
• ANTISTATIČKA ODJEĆA ZA ZAVARIVANJE - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)

310 g/m²

99% COTTON

1% ANTISTATIC THREAD

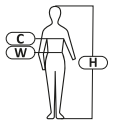




Special buckle construction to avoid self loosening







Kat. II
Cat. II CE

- MATERIAL: 99% cotton, 1% antistatic thread.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame, with antistatic properties. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), molten iron spatter (performance level E2), convection heat (performance level B1), contact heat (performance level F1), thermal radiation (performance level C1) and prevent static discharge able to start ignition. Made from thick cotton textile with a fire-retardant and antistatic finish. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN 1149-5:2008, EN ISO 13688:2013.
  Jacket: buttoned-up, buttons covered with a fold. Zipped inner pocket. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners.
  Bip pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN 1149-5:2008, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140411**	164-170	96-104	84-92	20
M (A)	**L4140412**	170-176	96-104	84-92	20
M (B)	**L4140422**	170-176	104-112	92-100	20
L (A)	**L4140413**	176-182	96-104	84-92	20
L (B)	**L4140423**	176-182	104-112	92-100	20
L (C)	**L4140433**	176-182	112-120	100-108	20
XL (A)	**L4140414**	182-188	96-104	84-92	20
XL (B)	**L4140424**	182-188	104-112	92-100	20
XL (C)	**L4140434**	182-188	112-120	100-108	20
2XL (B)	**L4140425**	188-194	104-112	92-100	20
2XL (C)	**L4140435**	188-194	112-120	100-108	20
3XL (C)	**L4140436**	194-200	112-120	100-108	20

1 ANTISTATIČNA OBLAČILA - KOMPLET (JAKNA, HLAČE Z NARAMNICAMI)

- ANTISTATIČKA ODJEĆA - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)
- ANTISTATIČKA ODJEĆA - KOMPLET (JAKNA, HLAČE S NARAMENICAMA)

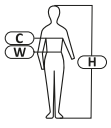
CERTYFIKAT
CIOP – PIB

243 g/m²

1% ANTISTATIC THREAD

EN 1149-5:2008





Kat. II
Cat. II

- MATERIAL: 35% cotton, 64% polyester, 1% antistatic thread.
- Antistatic protective clothes able to dissipate and discharge static charges. Prevent electrostatic discharge able to start ignition. Made from a textile with antistatic finish. The clothes meet the requirements of the following standards: EN 1149-5:2008 and EN ISO 13688:2013.
  Jacket: Buttoned-up, buttons covered with a fold. Two buttoned-up pockets. Width adjustment at the jacket bottom with a rubber. Buttoned-up cuffs.
  Bib pants: 4 pockets, including 1 buttoned-up pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN 1149-5:2008 i EN ISO 13688:2013

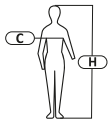
Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140711**	164-170	96-104	84-92	20
M (A)	**L4140712**	170-176	96-104	84-92	20
M (B)	**L4140722**	170-176	104-112	92-100	20
L (A)	**L4140713**	176-182	96-104	84-92	20
L (B)	**L4140723**	176-182	104-112	92-100	20
L (C)	**L4140733**	176-182	112-120	100-108	20
XL (A)	**L4140714**	182-188	96-104	84-92	20
XL (B)	**L4140724**	182-188	104-112	92-100	20
XL (C)	**L4140734**	182-188	112-120	100-108	20
2XL (B)	**L4140725**	188-194	104-112	92-100	20
2XL (C)	**L4140735**	188-194	112-120	100-108	20
3XL (C)	**L4140736**	194-200	112-120	100-108	20

2 ZAŠČITNA HALJA

- ZAŠTITNA BLUZA • ZAŠTITNA BLUZA

260 g/m²





Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 2 with a snap fastener. Key ring. Double seams. Pocket bottom strengthened with double textile layer, protecting from chafing. Adjustable, buttoned-up cuffs. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4160101**	158-164	84-88	20
M	**L4160102**	164-170	92-96	20
L	**L4160103**	170-176	100-104	20
XL	**L4160104**	176-182	108-112	20
2XL	**L4160105**	182-188	116-120	20
3XL	**L4160106**	188-194	126-130	20

1 POLO MAJICA

• POLO MAJICA • POLO MAJICE

220 g/m²

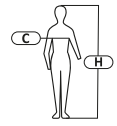
100% COTTON

RING-SPUN





Decorative reinforcements



Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- T-shirts with a collar and two buttons. Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. 220 g/m². Decorative reinforcements from checked textile on the sleeves, button placket and inside the collar increase product quality and extend its usable life.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4030901		L4030701		L4030601		L4030501		L4030301		L4030801		L4030401		158-164	84-88	40
M	L4030902		L4030702		L4030602		L4030502		L4030302		L4030802		L4030402		164-170	92-96	40
L	L4030903		L4030703		L4030603		L4030503		L4030303		L4030803		L4030403		170-176	100-104	40
XL	L4030904		L4030704		L4030604		L4030504		L4030304		L4030804		L4030404		176-182	108-112	40
2XL	L4030905		L4030705		L4030605		L4030505		L4030305		L4030805		L4030405		182-188	116-120	40
3XL	L4030906		L4030706		L4030606		L4030506		L4030306		L4030806		L4030406		188-194	126-130	40

2 POLO MAJICA

• POLO MAJICE • POLO MAJICE

190 g/m²

100% COTTON

RING-SPUN



Kat. I Cat. I CE

- MATERIAL: 100% cotton
- Shirts with collar fastened with 3 buttons. Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4031301		L4031201		L4031101		L4031001		158-164	84-88	50
M	L4031302		L4031202		L4031102		L4031002		164-170	92-96	50
L	L4031303		L4031203		L4031103		L4031003		170-176	100-104	50
XL	L4031304		L4031204		L4031104		L4031004		176-182	108-112	50
2XL	L4031305		L4031205		L4031105		L4031005		182-188	116-120	50
3XL	L4031306		L4031206		L4031106		L4031006		188-194	126-130	50

1 MAJICA

• MAJICA • MAJICA

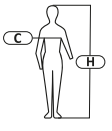
180 g/m²

100% COTTON

RING-SPUN









- MATERIAL: 100% cotton
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. Bands on scruff and arms ensure additional reinforcement. Double seams increase usable life. Sufficiently high weight (180 g/m²) is perfect for prints.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4020601		L4020101		L4020201		L4020301		L4020501		L4020401		L4021901		L4021801		L4021701		158-164	84-88	80
M	L4020602		L4020102		L4020202		L4020302		L4020502		L4020402		L4021902		L4021802		L4021702		164-170	94-100	80
L	L4020603		L4020103		L4020203		L4020303		L4020503		L4020403		L4021903		L4021803		L4021703		170-176	100-106	80
XL	L4020604		L4020104		L4020204		L4020304		L4020504		L4020404		L4021904		L4021804		L4021704		176-182	106-112	80
2XL	L4020605		L4020105		L4020205		L4020305		L4020505		L4020405		L4021905		L4021805		L4021705		182-188	112-116	80
3XL	L4020606		L4020106		L4020206		L4020306		L4020506		L4020406		L4021906		L4021806		L4021706		188-194	116-122	80

1 ŽENSKA MAJICA

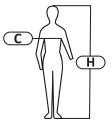
• ŽENSKA MAJICA • ŽENSKA MAJICA

180 g/m²

100% COTTON

RING-SPUN





Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- Ring-spun cotton, characterised with high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. Double seams increase usable life. Sufficiently high weight (180 g/m²) is perfect for prints.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4021101		L4021201		L4021301		L4021401		158-164	84-88	50
M	L4021102		L4021202		L4021302		L4021402		164-170	92-96	50
L	L4021103		L4021203		L4021303		L4021403		170-176	100-104	50
XL	L4021104		L4021204		L4021304		L4021404		170-176	110-116	50
2XL	L4021105		L4021205		L4021305		L4021405		176-182	122-128	50
3XL	L4021106		L4021206		L4021306		L4021406		176-182	134-140	50

2 FUNKCIONALNA MAJICA

• FUNKCIONALNA MAJICA • FUNKCIONALNA MAJICA

120 g/m²



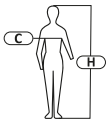


Mesh inserts under the arms ensure excelent ventilation





Reflective elements increasing visibility



Kat. I Cat. I CE

- MATERIAL: 100% polyester.
- Moisture is removed outside to ensure comfort and cool feeling during workout. The T-shirt is made from pleasant, flexible knitwear 120 g/m² which fits the body perfectly. Mesh inserts under the arms. Extra reflective components thanks to which the user is more visible also at night.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4021001		L4021501		L4021601		158-164	84-88	50
M	L4021002		L4021502		L4021602		164-170	92-96	50
L	L4021003		L4021503		L4021603		170-176	100-104	50
XL	L4021004		L4021504		L4021604		176-182	108-112	50
2XL	L4021005		L4021505		L4021605		182-188	116-120	50
3XL	L4021006		L4021506		L4021606		188-194	126-130	50

1 MAJICA BREZ ROKAVOV

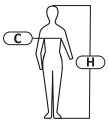
• MAJICA BEZ RUKAVA • MAJICA BEZ RUKAVA

160 g/m²

100% COTTON

RING-SPUN





Kat. I Cat. I CE

- MATERIAL: 100% cotton
- Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4022201		L4022001		L4022101		158-164	84-88	100
M	L4022202		L4022002		L4022102		164-170	92-96	100
L	L4022203		L4022003		L4022103		170-176	100-104	100
XL	L4022204		L4022004		L4022104		176-182	108-112	100
2XL	L4022205		L4022005		L4022105		182-188	116-120	100
3XL	L4022206		L4022006		L4022106		188-194	126-130	100

2 MAJICA Z DOLGIMI ROKAVI

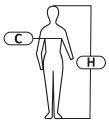
• MAJICA DUGOG RUKAVA • MAJICA DUGOG RUKAVA

190 g/m²

100% COTTON

RING-SPUN





Kat. I Cat. I CE

- MATERIAL: 100% cotton
- Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort. Elastic welt cuffs.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4022301		L4022401		158-164	84-88	50
M	L4022302		L4022402		164-170	92-96	50
L	L4022303		L4022403		170-176	100-104	50
XL	L4022304		L4022404		176-182	108-112	50
2XL	L4022305		L4022405		182-188	116-120	50
3XL	L4022306		L4022406		188-194	126-130	50

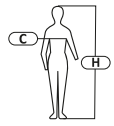
1 KARIRASTA FLANEL SRAJCA

• KARIRANA FLANEL KOŠULJA • KARIRANA FLANEL KOŠULJA

170 g/m²

100% COTTON





Kat. I Cat. I CE

- MATERIAL: 100% cotton 170 g/m².
- Buttoned-up. High-quality soft and smooth woven cotton ensures comfortable use. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180301**	158-164	84-88	20
M	**L4180302**	164-170	92-96	20
L	**L4180303**	170-176	100-104	20
XL	**L4180304**	176-182	108-112	20
2XL	**L4180305**	182-188	116-120	20
3XL	**L4180306**	188-194	126-130	20

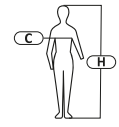
2 KARIRASTA FLANEL SRAJCA

• KARIRANA FLANEL KOŠULJA • KARIRANA FLANEL KOŠULJA

170 g/m²

100% COTTON





Kat. I Cat. I CE

- MATERIAL: 100% cotton 170 g/m².
- Buttoned-up. High-quality soft and smooth woven cotton ensures comfortable use. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180401**	158-164	84-88	20
M	**L4180402**	164-170	92-96	20
L	**L4180403**	170-176	100-104	20
XL	**L4180404**	176-182	108-112	20
2XL	**L4180405**	182-188	116-120	20
3XL	**L4180406**	188-194	126-130	20

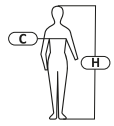
3 KARIRASTA FLANEL SRAJCA

• KARIRANA FLANEL KOŠULJA • KARIRANA FLANEL KOŠULJA

120 g/m²

100% COTTON





Kat. I Cat. I CE

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF2S**	164-170	84-88	48
M	**LPKF2M**	170-176	92-96	48
L	**LPKF2L**	176-182	100-104	48
XL	**LPKF2XL**	182-188	108-112	48
2XL	**LPKF22XL**	188-194	116-120	48

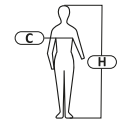
4 KARIRASTA FLANEL SRAJCA

• KARIRANA FLANEL KOŠULJA • KARIRANA FLANEL KOŠULJA

120 g/m²

100% COTTON





Kat. I Cat. I CE

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF1S**	164-170	84-88	48
M	**LPKF1M**	170-176	92-96	48
L	**LPKF1L**	176-182	100-104	48
XL	**LPKF1XL**	182-188	108-112	48
2XL	**LPKF12XL**	188-194	116-120	48

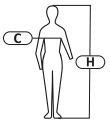
1 KARIRASTA FLANEL SRAJCA

• KARIRANA FLANEL KOŠULJA • KARIRANA FLANEL KOŠULJA

120 g/m²

100% COTTON





Kat. I Cat. I CE

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF3S**	164-170	84-88	48
M	**LPKF3M**	170-176	92-96	48
L	**LPKF3L**	176-182	100-104	48
XL	**LPKF3XL**	182-188	108-112	48
2XL	**LPKF32XL**	188-194	116-120	48

2 KARIRASTA FLANEL SRAJCA

• OBLOŽENA FLANEL KOŠULJA • OBLOŽENA FLANEL KOŠULJA

120 g/m² COATING

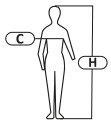
120 g/m² PADDING

100% COTTON





Quilted lining



Kat. I Cat. I CE

- MATERIAL: Coating: 100% cotton 120 g/m². Padding: 120 g/m². Lining: taffeta 50 g/m².
- Buttoned-up. 4 pockets, including 2 with button fastening. Buttoned-up cuffs.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180201**	158-164	84-88	20
M	**L4180202**	164-170	92-96	20
L	**L4180203**	170-176	100-104	20
XL	**L4180204**	176-182	108-112	20
2XL	**L4180205**	182-188	116-120	20
3XL	**L4180206**	188-194	126-130	20



1 JOPICA S KAPUCO IN ZADRGO

• PULOVER S KAPULJAČOM NA PATENT ZATVARAČ • DUKSERICA S KAPULJAČOM NA PATENT ZATVARAČ

320 g/m²

RING-SPUN





Kat. I Cat. I

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. Practical hood with cotton lining and adjustment by means of straps, as well as high collar, offer perfect protection from cold and wind. 2 pockets. Hoodie cuffs and bottom with an elastic band.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4011201		L4010801		158-164	84-88	20
M	L4011202		L4010802		164-170	92-96	20
L	L4011203		L4010803		170-176	100-104	20
XL	L4011204		L4010804		176-182	108-112	20
2XL	L4011205		L4010805		182-188	116-120	20
3XL	L4011206		L4010806		188-194	126-130	20

2 JOPICA S KAPUCO

• PULOVER S KAPULJAČOM • DUKSERICA S KAPULJAČOM

320 g/m²

RING-SPUN





Kat. I Cat. I

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. A practical hood with a cotton lining and strap adjustments offers perfect protection from cold and wind. A large kangaroo front pocket. Cuffs and hoodie bottom ended with an elastic strip.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4010701		L4010401		158-164	84-88	20
M	L4010702		L4010402		164-170	92-96	20
L	L4010703		L4010403		170-176	100-104	20
XL	L4010704		L4010404		176-182	108-112	20
2XL	L4010705		L4010405		182-188	116-120	20
3XL	L4010706		L4010406		188-194	126-130	20

1 PULOVER

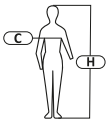
• PULOVER • DŽEMPERI

320 g/m²

RING-SPUN







Kat. I Cat. I CE

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. Cuffs and bottom with an elastic band.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4011701		L4011301		158-164	84-88	20
M	L4011702		L4011302		164-170	92-96	20
L	L4011703		L4011303		170-176	100-104	20
XL	L4011704		L4011304		176-182	108-112	20
2XL	L4011705		L4011305		182-188	116-120	20
3XL	L4011706		L4011306		188-194	126-130	20

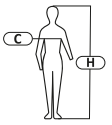
2 JAKNA IZ FLISA Z OJAČITVAMI

• JAKNA OD FLISA S OJAČANJIMA • JAKNA OD FLISA S POJAČANJIMA

290 g/m²







Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling. Inserts: Oxford 600D 100% polyester 230 g/m².
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring. Sleeves, yoke and bottom strengthened with a abrasion resistant textile.
- NORM: EN ISO 13688

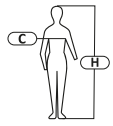
Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4011401		L4011501		158-164	84-88	20
M	L4011402		L4011502		164-170	92-96	20
L	L4011403		L4011503		170-176	100-104	20
XL	L4011404		L4011504		176-182	108-112	20
2XL	L4011405		L4011505		182-188	116-120	20
3XL	L4011406		L4011506		188-194	126-130	20

1 JAKNA IZ FLISA Z OJAČITVAMI

• JAKNA OD FLISA S OJAČANJIMA • JAKNA OD FLISA S POJAČANJIMA

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling. Inserts: Oxford 600D 100% polyester 230 g/m².
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring. Sleeves, yoke and bottom strengthened with a abrasion resistant textile.
- NORM: EN ISO 13688

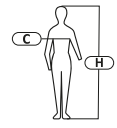
Size	Code	H (cm)	C (cm)	
S	**L4010501**	158-164	84-88	20
M	**L4010502**	164-170	92-96	20
L	**L4010503**	170-176	100-104	20
XL	**L4010504**	176-182	108-112	20
2XL	**L4010505**	182-188	116-120	20
3XL	**L4010506**	188-194	126-130	20

2 JAKNA IZ FLISA

• JAKNA OD FLISA • JAKNA OD FLISA

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

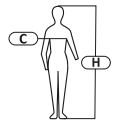
Size	Code	H (cm)	C (cm)	
S	**LPBP1S**	158-164	84-88	20
M	**LPBP1M**	164-170	92-96	20
L	**LPBP1L**	170-176	100-104	20
XL	**LPBP1XL**	176-182	108-112	20
2XL	**LPBP12XL**	182-188	116-120	20
3XL	**LPBP13XL**	188-194	126-130	20

3 JAKNA IZ FLISA

• JAKNA OD FLISA • JAKNA OD FLISA

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4011601**	158-164	84-88	20
M	**L4011602**	164-170	92-96	20
L	**L4011603**	170-176	100-104	20
XL	**L4011604**	176-182	108-112	20
2XL	**L4011605**	182-188	116-120	20
3XL	**L4011606**	188-194	126-130	20

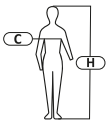


1 JAKNA IZ FLISA

• JAKNA OD FLISA • JAKNA OD FLISA

290 g/m²





- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

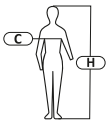
Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**LPBP2S**		**L4010201**		**L4010101**		**L4011801**		158-164	84-88	20
M	**LPBP2M**		**L4010202**		**L4010102**		**L4011802**		164-170	92-96	20
L	**LPBP2L**		**L4010203**		**L4010103**		**L4011803**		170-176	100-104	20
XL	**LPBP2XL**		**L4010204**		**L4010104**		**L4011804**		176-182	108-112	20
2XL	**LPBP22XL**		**L4010205**		**L4010105**		**L4011805**		182-188	116-120	20
3XL	**LPBP23XL**		**L4010206**		**L4010106**		**L4011806**		188-194	126-130	20

2 JAKNA IZ FLISA Z DELNO ZADRGO

• JAKNA OD FLISA S PATENTNIM ZATVARAČEM • JAKNA OD FLISA S KRATKIM PATENTNIM ZATVARAČEM

180 g/m²







- MATERIAL: Fleece 100% polyester 180 g/m², short pile, brushed bilaterally and anti-pilling.
- Practical zipped pocket on the sleeve. Half zip. Wind-proof zips. Zip cover. Sleeves ended with an elastic cuff ensuring perfect fit.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPBP3S**	158-164	84-88	20
M	**LPBP3M**	164-170	92-96	20
L	**LPBP3L**	170-176	100-104	20
XL	**LPBP3XL**	176-182	108-112	20
2XL	**LPBP32XL**	182-188	116-120	20
3XL	**LPBP33XL**	188-194	126-130	20

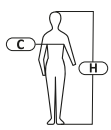


1 ŽENSKA JAKNA IZ FLISA

• ŽENSKA JAKNA • ŽENSKA JAKNA OD FLISA

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 2 zipped pockets. Zip. Wind-proof zips. Zip cover.
- NORM: EN ISO 13688

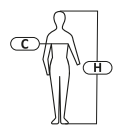
Size	Code	H (cm)	C (cm)	
S	**L4010301**	158-164	82-86	20
M	**L4010302**	164-170	88-92	20
L	**L4010303**	170-176	94-98	20
XL	**L4010304**	170-176	100-104	20
2XL	**L4010305**	176-182	106-110	20
3XL	**L4010306**	176-182	112-116	20

2 ŽENSKA JAKNA IZ FLISA

• ŽENSKA JAKNA OD FLISA • ŽENSKA JAKNA OD FLISA

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 2 zipped pockets. Zip. Wind-proof zips. Zip cover
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4010601**	158-164	82-86	20
M	**L4010602**	164-170	88-92	20
L	**L4010603**	170-176	94-98	20
XL	**L4010604**	170-176	100-104	20
2XL	**L4010605**	176-182	106-110	20
3XL	**L4010606**	176-182	112-116	20

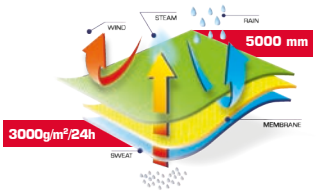


1 JAKNE

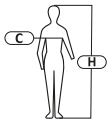
• JAKNE • JAKNE

400 g/m²











- MATERIAL: 100% polyester. Special 3-ply textile with TPU membrane, waterproof (5000 mm), breathable (3000g/m2/24 h), guaranteeing excellent wearing.
- 4 zipped pockets, including a practical one on the sleeve. Zip cover. Reflective components. Sleeves finished with cuffs with Velcro adjustment. Width adjustment at the jacket bottom, with a two-side drawstring with a stopper.
- NORM: EN ISO 13688

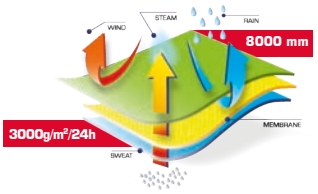
Size	Code	H (cm)	C (cm)	
S	**L4092001**	158-164	84-88	20
M	**L4092002**	164-170	92-96	20
L	**L4092003**	170-176	100-104	20
XL	**L4092004**	176-182	108-112	20
2XL	**L4092005**	182-188	116-120	20
3XL	**L4092006**	188-194	126-130	20

2 JAKNA IZ SOFTSHELLA S KAPUCO

• JAKNA OD SOFTSHELLA S KAPULJAČOM • JAKNE OD SOFTSHELLA S KAPULJAČOM

300 g/m²

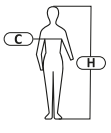






Material with reflective print increasing the visibility after dark.







- MATERIAL: Shell: soft-shell fabric, 100% polyester with a weight of 300 g/m². Lining: microfleece with a weight of 160 g/m².
- Special 3-layer soft-shell fabric with a TPU membrane, waterproof (8000 mm), breathable (3000 g/m2/24h), ensuring high comfort of use. Fabric with a reflective print that increases visibility after dark. 5 pockets (3 outer with a zipper and 2 inner). Detachable, adjustable width hood. Zipper. Zipper cover. Sleeves with Velcro strap adjustment. Jacket bottom width adjustment with a special drawstring.
- NORM: EN ISO 13688

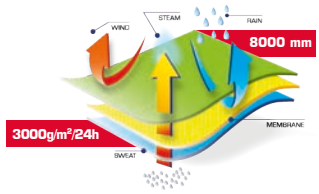
Size	Code	H (cm)	C (cm)	
S	**L4092301**	158-164	84-88	20
M	**L4092302**	164-170	92-96	20
L	**L4092303**	170-176	100-104	20
XL	**L4092304**	176-182	108-112	20
2XL	**L4092305**	182-188	116-120	20
3XL	**L4092306**	188-194	126-130	20

1 JAKNA IZ SOFTSHELLA S KAPUCO

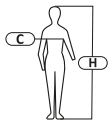
• JAKNA OD SOFTSHELLA S KAPULJAČOM • JAKNA OD SOFTSHELLA S KAPULJAČOM

310 g/m²











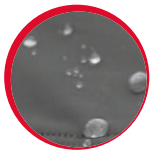
- MATERIAL: Coating: soft-shell textile, 100% polyester 310 g/m². Lining: microfleece 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, waterproof (8000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. 5 pockets (3 outer with zip fasteners and 2 inner ones). Detachable hood with width adjustment. Zip fastener. Zip cover. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

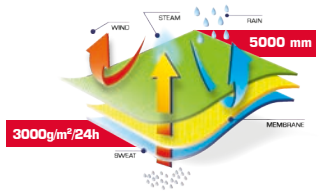
Size	Code	H (cm)	C (cm)	
S	**L4091601**	158-164	84-88	20
M	**L4091602**	164-170	92-96	20
L	**L4091603**	170-176	100-104	20
XL	**L4091604**	176-182	108-112	20
2XL	**L4091605**	182-188	116-120	20
3XL	**L4091606**	188-194	126-130	20

2 JAKNA IZ SOFTSHELLA S KAPUCO

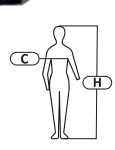
• JAKNA OD SOFTSHELLA S KAPULJAČOM • JAKNA OD SOFTSHELLA S KAPULJAČOM

310 g/m²













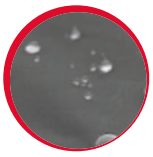
- MATERIAL: Coating: soft-shell textile, 94% polyester, 6% elastane, 310 g/m². Lining: microfleece, 140 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 zipped pockets, including a practical one on the sleeve. Detachable, width-adjustable hood. Water-proof zips to increase rain protection. Zip. Zip cover. Reflective components. Sleeves ended with a cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

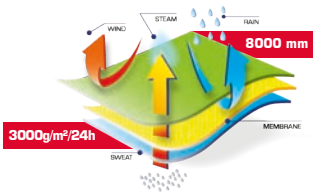
Size	Code	H (cm)	C (cm)	
S	**LPKS2S**	158-164	84-88	20
M	**LPKS2M**	164-170	92-96	20
L	**LPKS2L**	170-176	100-104	20
XL	**LPKS2XL**	176-182	108-112	20
2XL	**LPKS22XL**	182-188	116-120	20
3XL	**LPKS23XL**	188-194	126-130	20

1 JAKNA IZ SOFTSHELLA

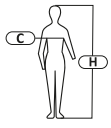
• JAKNA OD SOFTSHELLA • JAKNA OD SOFTSHELLA

310 g/m²









Kat. I Cat. I

- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (8000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 5 pockets (3 outer, zipped and 2 inner). Wind-proof zips. Zip. Zip cover. A reflective component. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom, with a special drawstring.
- NORM: EN ISO 13688

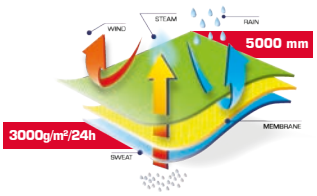
Size	Code	H (cm)	C (cm)	
S	**L4090101**	158-164	84-88	20
M	**L4090102**	164-170	92-96	20
L	**L4090103**	170-176	100-104	20
XL	**L4090104**	176-182	108-112	20
2XL	**L4090105**	182-188	116-120	20
3XL	**L4090106**	188-194	126-130	20

2 JAKNA IZ SOFTSHELLA

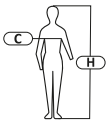
• JAKNA OD SOFTSHELLA • JAKNA OD SOFTSHELLA

310 g/m²









Kat. I Cat. I

- MATERIAL: Coating: soft-shell textile, 94% polyester, 6% elastane, 310 g/m². Lining: microfleece, 150 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 6 pockets (3 outer, zipped and 3 inner, including one for a mobile). Water-proof zips to increase rain protection. Zip. Zip cover. Reflective components. Sleeves ended with a cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

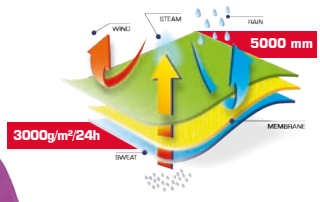
Size	Code	H (cm)	C (cm)	
S	**LPKS1S**	158-164	84-88	20
M	**LPKS1M**	164-170	92-96	20
L	**LPKS1L**	170-176	100-104	20
XL	**LPKS1XL**	176-182	108-112	20
2XL	**LPKS12XL**	182-188	116-120	20
3XL	**LPKS13XL**	188-194	126-130	20

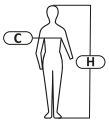
1 ŽENSKA JAKNA IZ SOFTSHELLA S KAPUCO

• ŽENSKA JAKNA OD SOFTSHELLA S KAPULJAČOM • ŽENSKA JAKNA OD SOFTSHELLA S KAPULJAČOM

310 g/m²









- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 pockets (2 outer, zipped and 2 inner). Width-adjustable hood. Wind-proof zips. Zip. Zip cover. Reflective components. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

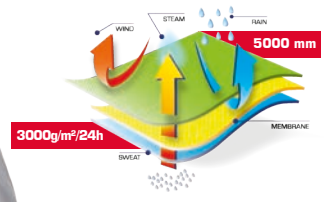
Size	Code	H (cm)	C (cm)	
S	**L4090501**	158-164	82-86	20
M	**L4090502**	164-170	88-92	20
L	**L4090503**	170-176	94-98	20
XL	**L4090504**	170-176	100-104	20
2XL	**L4090505**	176-182	106-110	20
3XL	**L4090506**	176-182	112-116	20

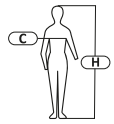
2 ŽENSKA JAKNA IZ SOFTSHELLA

• ŽENSKA JAKNA OD SOFTSHELLA • ŽENSKA JAKNA OD SOFTSHELLA

310 g/m²









- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 pockets (2 outer, zipped and 2 inner). Wind-proof zips. Zip. Zip cover. Reflective components. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4090401**	158-164	82-86	20
M	**L4090402**	164-170	88-92	20
L	**L4090403**	170-176	94-98	20
XL	**L4090404**	170-176	100-104	20
2XL	**L4090405**	176-182	106-110	20
3XL	**L4090406**	176-182	112-116	20

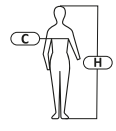
3 JAKNA

• JAKNA • JAKNA

70 g/m²

LIGHT WEIGHT







- MATERIAL:Shell: 100% polyester taffeta 210T coated with PA, Lining: 190T polyester.
- The lightweight, waterproof fabric ensures comfortable use. Watertight seams. 3 pockets (2 outer with a zipper and 1 inner). Windproof zippers. Zipper cover. Waterproof, adjustable hood, hidden in a Velcro collar. Cuffs finished with an elastic welt that provides protection against wind and water. Ventilation openings in the jacket's back improve air circulation. Jacket bottom width adjustment with a double-sided, lockable drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092101**	158-164	84-88	20
M	**L4092102**	164-170	92-96	20
L	**L4092103**	170-176	100-104	20
XL	**L4092104**	176-182	108-112	20
2XL	**L4092105**	182-188	116-120	20
3XL	**L4092106**	188-194	126-130	20

1 VODOODPORNA JAKNA

• VODOOTPORNA JAKNA • VODOOTPORNA JAKNA



- MATERIAL: 100% polyurethane
- The lightweight material used (100% Polyurethane) ensures comfortable use, increases durability and provides resistance to mechanical damage. Ventilation openings under the arms improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Jacket bottom width adjustment with a welt. Zipper with additional flap fastened with press studs. 2 outer pockets.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4091701		L4091801		158-164	84-88	10
M	L4091702		L4091802		164-170	92-96	10
L	L4091703		L4091803		170-176	100-104	10
XL	L4091704		L4091804		176-182	108-112	10
2XL	L4091705		L4091805		182-188	116-120	10
3XL	L4091706		L4091806		188-194	126-130	10

2 VODOODPORNE HLAČE

• VODOOTPORNE HLAČE • VODOOTPORNE HLAČE



- MATERIAL: 100% polyurethane
- The lightweight material used (100% Polyurethane) ensures comfortable use, increases durability and provides resistance to mechanical damage. Waist adjustable with a welt. Pant leg width adjustable with a zipper. 2 side openings for access to the pocket.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4101001		L4101101		158-164	74-78	10
M	L4101002		L4101102		164-170	82-86	10
L	L4101003		L4101103		170-176	98-102	10
XL	L4101004		L4101104		176-182	108-112	10
2XL	L4101005		L4101105		182-188	106-110	10
3XL	L4101006		L4101106		188-194	116-120	10

3 DELOVNA OBLEKA ZA ZAŠČITO PRED DEŽJEM (JAKNE, HLAČE)

• RADNA ODJEĆA ZA ZAŠTITU OD KIŠE (JAKNE, HLAČE) • RADNA ODJEĆA ZA ZAŠTITU OD KIŠE (JAKNE, HLAČE)



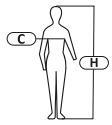
- MATERIAL: PVC, polyester
- **Jackets:** Watertight seams. Ventilation openings under the arms and on the back improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Jacket bottom width adjustment with a welt. 2 outer pockets.
  Pants: Watertight seams. Waist adjustable with a welt. Pant leg width adjustable with. Snap fasteners 2 side openings for access to the pocket.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	W (cm)	
S	L4140101		L4140201		L4140801		158-164	84-88	74-78	20
M	L4140102		L4140202		L4140802		164-170	92-96	82-86	20
L	L4140103		L4140203		L4140803		170-176	100-104	90-94	20
XL	L4140104		L4140204		L4140804		176-182	108-112	98-102	20
2XL	L4140105		L4140205		L4140805		182-188	116-120	106-110	20
3XL	L4140106		L4140206		L4140806		188-194	126-130	116-120	20

1 DEŽNI PLAŠČ

• KABANICA • KABANICA





Kat. I
Cat. I CE

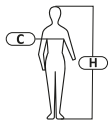
- Material: PVC, polyester
- Waterproof seams. Ventilation openings under the arms and on the back improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Zipper with additional flap fastened with snap fasteners. 2 outer pockets
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4170201		L4170301		L4170401		158-164	84-88	20
M	L4170202		L4170302		L4170402		164-170	92-96	20
L	L4170203		L4170303		L4170403		170-176	100-104	20
XL	L4170204		L4170304		L4170404		176-182	108-112	20
2XL	L4170205		L4170305		L4170405		182-188	116-120	20
3XL	L4170206		L4170306		L4170406		188-194	126-130	20

2 DEŽNI PLAŠČ

• KABANICA • KABANICA





Kat. I
Cat. I CE

- MATERIAL: 70% PVC, 30% polyester.
- Sleeves with a cuff protecting from wind. Back and under arms ventilation. With a zip and snap fasteners. Two side pockets. Hood with straps. Water-proof textile. Unisex raincoat, both for men and women.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
M	LPPP1M	164-170	84-92	10
L	LPPP1L	170-176	92-100	10
XL	LPPP1XL	176-182	100-108	10
2XL	LPPP12XL	182-188	108-116	10

3 DEŽNI PLAŠČ

• KABANICA • KABANICA



Kat. I
Cat. I CE

- MATERIAL: 100% polietylen.
- Unisex raincoat, for women and men. In a ziplock bag. Hood with drawstring. Snap fastening.
- NORM: EN ISO 13688

Size	Code	
one size	LPPP01U	50/300

4 PONČO DEŽNI PLAŠČ

• PONČO KABANICA• PONČO KABANICA



Kat. I
Cat. I CE

- MATERIAL: PVC.
- Hood with straps. Snap fastening.
- NORM: EN ISO 13688

Size	Code	Colour	
one size	LPPP11U		50
	LPPP12U		50



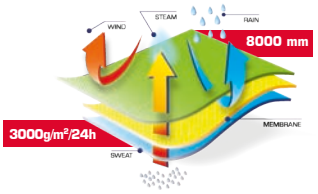
1 PODLOŽEN TELOVNIK

• PODSTAVLJEN PRSLUK • PODSTAVLJEN PRSLUK

70 g/m² POLYESTER COATING

310 g/m² SOFT-SHELL COATING

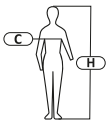
120 g/m² PADDING











Kat. I Cat. I

- MATERIAL: Coating: 100% polyester 70 g/m² and soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Padding: 120g/m². Lining: taffeta 50 g/m² and microfleece 160 g/m².
- Inserts from 3-ply soft-shell textile with TPU membrane, waterproof (8000 mm), breathable (3000g/m²/24 h), guaranteeing excellent wearing experience. 3 zipped pockets (2 outer and 1 inner one). Zip fastener. Zip cover. Width adjustment at the vest bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4130701		L4131001		L4131101		158-164	84-88	20
M	L4130702		L4131002		L4131102		164-170	92-96	20
L	L4130703		L4131003		L4131103		170-176	100-104	20
XL	L4130704		L4131004		L4131104		176-182	108-112	20
2XL	L4130705		L4131005		L4131105		182-188	116-120	20
3XL	L4130706		L4131006		L4131106		188-194	126-130	20

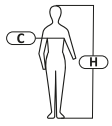
1 BREZROKAVNIK

• PRSLUK • PRSLUK

155 g/m² COATING

180 g/m² PADDING





Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, pognee type, 155 g/m². Padding: 180 g/m². Lining: taffeta, 50 g/m².
- Waterproof, PVC-coated textile, preventing water absorption. 8 pockets (7 outer, including 4 zipped ones, and 1 inner). Mobile phone pocket. Key ring. Zip. Reflective components. Width adjustment at the bottom with a special drawstring. Arm openings finished inside with cuffs protecting from wind.
- NORM: EN ISO 13688

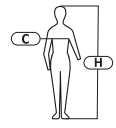
Size	Code	H (cm)	C (cm)	
S	**LPBO1S**	158-164	84-88	20
M	**LPBO1M**	164-170	92-96	20
L	**LPBO1L**	170-176	100-104	20
XL	**LPBO1XL**	176-182	108-112	20
2XL	**LPBO12XL**	182-188	116-120	20
3XL	**LPBO13XL**	188-194	126-130	20

2 ŽENSKI TELOVNIK IZ FLISA

• ŽENSKI PRSLUCI OD FLISA • ŽENSKI PODSTAVLJENI PRSLUCI

290 g/m²





Kat. I Cat. I CE

- MATERIAL: High quality fleece, 100% polyester, 290 g/m², short-cut, brushed on both sides and non pilling.
- 3 pockets, including one with a Velcro strap. Windproof zipper. Zipper cover.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4131201**	158-164	82-86	20
M	**L4131202**	164-170	88-92	20
L	**L4131203**	170-176	94-98	20
XL	**L4131204**	170-176	100-104	20
2XL	**L4131205**	176-182	106-110	20
3XL	**L4131206**	176-182	112-116	20

3 PODLOŽEN BREZROKAVNIK

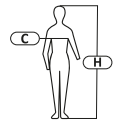
• PODSTAVLJENI PRSLUK • PODSTAVLJENI PRSLUK

160 g/m² COATING

160 g/m² PADDING







Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, pognee type, 160 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
- PVC-covered textile, protecting against water infiltration. 3 zipped pockets. Zip fastener. Zip cover.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4130801**		**L4130901**		158-164	84-88	20
M	**L4130802**		**L4130902**		164-170	92-96	20
L	**L4130803**		**L4130903**		170-176	100-104	20
XL	**L4130804**		**L4130904**		176-182	108-112	20
2XL	**L4130805**		**L4130905**		182-188	116-120	20
3XL	**L4130806**		**L4130906**		188-194	126-130	20

1 PODLOŽENA JAKNA Z ODSTRANLJIVIMI ROKAVI

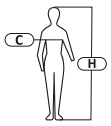
• PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA • PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA

275 g/m² COATING
160 g/m² PADDING
2in1




Reflective stripes


Abrasion-resistant fabric reinforcemen



Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 6 pockets, including 2 with zippers. Reflective strips that improve safety during work. Sleeves reinforced with an abrasion-resistant fabric (600D polyester). Removable sleeves. Double stitching. Insulated, adjustable hood, with zipper and Velcro fastening. Zipper with additional flap fastened with Velcro. Zipper cover. Sleeves finished with a welted cuff with Velcro strap. Jacket bottom width adjustment with an elastic band. Ventilation openings improve air circulation. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092401**	158-164	84-88	10
M	**L4092402**	164-170	92-96	10
L	**L4092403**	170-176	100-104	10
XL	**L4092404**	176-182	108-112	10
2XL	**L4092405**	182-188	116-120	10
3XL	**L4092406**	188-194	126-130	10

2 PODLOŽENE HLAČE

• PODSTAVLJENE HLAČE • PODSTAVLJENE HLAČE

275 g/m² COATING
160 g/m² PADDING

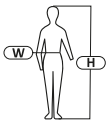



Reflective stripes


Adjustable leg width


Abrasion-resistant fabric reinforcemen


Knee pads for protective trousers and bibpants
- see **page 398**



Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 9 pockets, including 1 with a zipper. Reflective strips that improve safety during work. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Triple-stitched seams. Adjustable waist with an elastic band. Key ring. 2 loops for a hammer. 2 tape measure holders. Belt loops. Bottom pant leg width adjustable with a zipper. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4101201**	158-164	74-78	10
M	**L4101202**	164-170	82-86	10
L	**L4101203**	170-176	90-94	10
XL	**L4101204**	176-182	98-102	10
2XL	**L4101205**	182-188	106-110	10
3XL	**L4101206**	188-194	116-120	10

3 PODLOŽENE HLAČE Z NARAMNICAMI

•PODSTAVLJENE HLAČE S NARAMENICAMA • PODSTAVLJENE HLAČE S NARAMENICAMA

275 g/m² COATING
160 g/m² PADDING



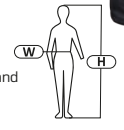

Reflective stripes


Adjustable leg width


Special buckle construction to avoid self loosening


Abrasion-resistant fabric reinforcements


Knee pads for protective trousers and bibpants
- see **page 398**



Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 11 pockets, including 1 with a zipper. Reflective strips that improve safety during work. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Triple-stitched seams. Adjustable waist with buttons and an elastic band. Key ring. 2 loops for a hammer. 2 tape measure holders. Adjustable-length braces. Bottom pant leg width adjustable with a zipper. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110901**	158-164	74-78	10
M	**L4110902**	164-170	82-86	10
L	**L4110903**	170-176	90-94	10
XL	**L4110904**	176-182	98-102	10
2XL	**L4110905**	182-188	106-110	10
3XL	**L4110906**	188-194	116-120	10

1 PODLOŽENA JAKNA Z ODSTRANLJIVO PODLOGO IZ FLISA

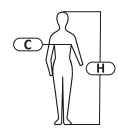
• PODSTAVLJENA JAKNA S ODVOJIVOM PODSTAVOM OD FLISA • PODSTAVLJENA JAKNA S ODVOJIVOM PODSTAVOM OD FLISA

275 g/m² COATING

3in1







Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, pognee type, 275 g/m². Lining: taffeta, 50 g/m². Detachable lining: taffeta, 280 g/m².
- Waterproof rip-stop textile, PVC-coated, strong and resistant to mechanical damage. 7 pockets: jacket — 3 outer, zipped, and 2 inner. fleece lining — 2 outer, zipped, and 1 inner. Hood hidden in a collar fastened with Velcro. Double hood adjustment (width and depth). Zipped ventilation openings with mesh. Watertight zips and seams. A zip with an extra flap with Velcros and snap fasteners. Zip cover. Width adjustment at the jacket and fleece lining bottom with a special drawstring. Reflective components. Sleeves with Velcro fastening.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKZ2S**	158-164	84-88	10
M	**LPKZ2M**	164-170	92-96	10
L	**LPKZ2L**	170-176	100-104	10
XL	**LPKZ2XL**	176-182	108-112	10
2XL	**LPKZ22XL**	182-188	116-120	10
3XL	**LPKZ23XL**	188-194	126-130	10

2 PODLOŽENE HLAČE Z NARAMNICAMI

• PODSTAVLJENE HLAČE S NARAMENICAMA
• PODSTAVLJENE HLAČE S NARAMENICAMA

275 g/m² COATING

160 g/m² PADDING

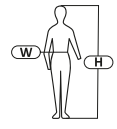




Adjustable leg width



Special buckle construction to avoid loosening



Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, pongee type, 275 g/m². Padding: density 160 g/m². Lining: taffeta, 50 g/m².
- Waterproof rip-stop textile, PVC-covered, strong and resistant to mechanical damage. 7 pockets, including 1 zipped. Mobile phone pocket. Waist width adjustment with a rubber band. Zip with extra flap with Velcro. Reflective components. Adjustable braces. Leg width adjustment at the bottom with a zip.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110801**	158-164	74-78	10
M	**L4110802**	164-170	82-86	10
L	**L4110803**	170-176	90-94	10
XL	**L4110804**	176-182	98-102	10
2XL	**L4110805**	182-188	106-110	10
3XL	**L4110806**	188-194	116-120	10

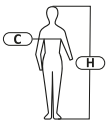
1 PREŠITA JAKNA

• PROŠIVENA JAKNA • PROŠIVENA JAKNA

200 g/m² COATING

200 g/m² PADDING





Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 200 g/m². Lining: fleece 260 g/m² and taffeta, 50 g/m².
- Strong, Waterproof PU textile. 10 pockets (9 outer, including 3 zipped and 1 inner). Mobile phone pocket. Padded adjustable hood, zip-fastened. Zip with extra flap with snap fasteners. Watertight zip. Reflectible elements. Sleeves ended with cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring. Ventilation openings to increase air circulation.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKZ1S**	158-164	84-88	10
M	**LPKZ1M**	164-170	92-96	10
L	**LPKZ1L**	170-176	100-104	10
XL	**LPKZ1XL**	176-182	108-112	10
2XL	**LPKZ12XL**	182-188	116-120	10
3XL	**LPKZ13XL**	188-194	126-130	10

2 PODLOŽENE HLAČE

• PODSTAVLJENE HLAČE • PODSTAVLJENE HLAČE

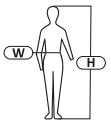
200 g/m² COATING

160 g/m² PADDING





Adjustable leg width



Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
- Strong waterproof, PU-covered textile, 7 pockets, including 4 with Velcro fastening. Waist width adjustment with a rubber band. Belt loops. Reflective components. Leg width adjustment at the bottom with a zip.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4100701**	158-164	74-78	10
M	**L4100702**	164-170	82-86	10
L	**L4100703**	170-176	90-94	10
XL	**L4100704**	176-182	98-102	10
2XL	**L4100705**	182-188	106-110	10
3XL	**L4100706**	188-194	116-120	10

3 PODLOŽENE HLAČE Z NARAMNICAMI

• PODSTAVLJENE HLAČE SA NARAMENICAMA • PODSTAVLJENE HLAČE S NARAMENICAMA

200 g/m² COATING

160 g/m² PADDING

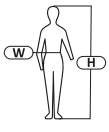




Adjustable leg width



Special buckle construction to avoid self loosening



Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
- Strong waterproof PU-covered textile, 6 pockets, including 3 with Velcro fastening. Mobile phone pocket. Waist width adjustment with a rubber band. Zip with extra flap with Velcro. Reflective components. Adjustable braces. Leg width adjustment at the bottom with a zip.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110101**	158-164	74-78	10
M	**L4110102**	164-170	82-86	10
L	**L4110103**	170-176	90-94	10
XL	**L4110104**	176-182	98-102	10
2XL	**L4110105**	182-188	106-110	10
3XL	**L4110106**	188-194	116-120	10

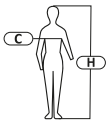
1 PREŠITE JAKNE

• PROŠIVENE JAKNE • PROŠIVENE JAKNE

200 g/m² COATING

450 g/pc PADDING





Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester rip-stop type, 200 g/m². Padding: 450 g/pc. Lining: taffeta, 60 g/m².
- Waterproof rip-stop textile, PVC-covered, extra strong and resistant to mechanical damage. 5 pockets (3 outer zipped and 2 inner, including 1 made from mesh). Pocket for a mobile phone/wallet. Padded hood with double adjustment (depth and width), attached by means of a zip and snap fasteners. Practical peak at the hood. Zip. Zip cover. Flexible inner cuffs, protecting from wind and cold. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4090801**	158-164	84-88	10
M	**L4090802**	164-170	92-96	10
L	**L4090803**	170-176	100-104	10
XL	**L4090804**	176-182	108-112	10
2XL	**L4090805**	182-188	116-120	10
3XL	**L4090806**	188-194	126-130	10

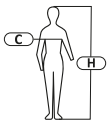
2 PODLOŽENA JAKNA

• PODSTAVLJENA JAKNA • PODSTAVLJENA JAKNA

140 g/m² COATING

200 g/m² PADDING





Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester, 300D Oxford, 140 g/m². Padding: 200 g/m². Lining: taffeta, 50 g/m².
- Waterproof PU-covered textile. 7 pockets (6 outer, including 1 zipped and 1 inner). Padded, adjustable hood, attached by means of a zip and snap fasteners. A zip with extra flap with snap fasteners. Snap fasteners covered with plastic protecting from water. Flexible inner cuffs, protecting from wind and cold.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4091501**	158-164	84-88	10
M	**L4091502**	164-170	92-96	10
L	**L4091503**	170-176	100-104	10
XL	**L4091504**	176-182	108-112	10
2XL	**L4091505**	182-188	116-120	10
3XL	**L4091506**	188-194	126-130	10

1 PODLOŽENA JAKNA Z ODSTRANLJIVIMI ROKAVI

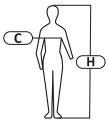
• PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA • PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA

120 g/m²

180 g/m² PADDING







Kat. I
Cat. I

- MATERIAL: Coating: 100% polyester, 200D Oxford, 120 g/m² polyuretane coated. Padding: 100% polyester, 180 g/m². Lining: 190T polyester taffeta, 54 g/m².
- Hood hidden in a collar fastened with Velcro. Sleeves ended with cuff with Velcro adjustment. Width adjustment at the jacket bottom with a welt. reflective elements. A zip with an extra flap with Velcro. Detachable sleeves. 5 pockets including one zipped (4 outer and 1 inner)
- NORM: EN ISO 13688

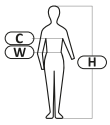
Size	Code	H (cm)	C (cm)	
S	**L4092701**	158-164	84-88	10
M	**L4092702**	164-170	92-96	10
L	**L4092703**	170-176	100-104	10
XL	**L4092704**	176-182	108-112	10
2XL	**L4092705**	182-188	116-120	10
3XL	**L4092706**	188-194	126-130	10



1 TERMOAKTIVNA MAJICA

• TERMOAKTIVNA MAJICA • TERMOAKTIVNA MAJICA







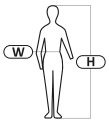
- MATERIAL: 72% polyamide, 21% polyester, 7% elastane.
- This honeycomb textile ensures perfect ventilation. Special weave absorbs moisture, removing it from the areas with increased perspiration. Cuffs guarantee perfect fit, ensuring comfort of wearing and protecting from cold. High- weave offers thermal protection.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
S/M	**L4120101**	158-175	86-96	64-86	x	40
L/XL	**L4120103**	175-185	98-108	76-98	x	40
2XL/3XL	**L4120105**	185-195	110-120	88-110	x	40

2 TERMOAKTIVNE HLAČE

• TERMOAKTIVNE HLAČE • TERMOAKTIVNE HLAČE







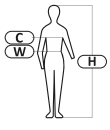
- MATERIAL: 72% polyamide, 21% polyester, 7% elastane.
- This honeycomb textile ensures perfect ventilation. Special weave absorbs moisture, removing it from the areas with increased perspiration. Cuffs guarantee perfect fit, ensuring comfort of wearing and protecting from cold. High- weave offers thermal protection.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S/M	**L4120201**	158-175	64-86	x	40
L/XL	**L4120203**	175-185	76-98	x	40
2XL/3XL	**L4120205**	185-195	88-110	x	40

3 TERMO MAJICA

• TERMO MAJICA • TERMO MAJICA







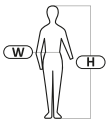
- MATERIAL: 35% cotton, 65% polyester.
- A combination of cotton (35%) and polyester (65%) ensures good breathing properties. Double-weave fabric ensures high heat insulation and the unique fabric brushing makes the product softer without compromising its durability. Sleeves ended with an elastic cuff.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
M	**LPKT1M**	170-175	99-104	84-89	x	72
L	**LPKT1L**	175-180	107-112	91-99	x	72
XL	**LPKT1XL**	180-185	114-119	102-107	x	72
XXL	**LPKT12XL**	185-190	122-127	110-115	x	72

4 TERMO HLAČE

• TERMO HLAČE • TERMO HLAČE







- MATERIAL: 35% cotton, 65% polyester.
- A combination of cotton (35%) and polyester (65%) ensures good breathing properties. Double-weave fabric ensures high heat insulation and the unique fabric brushing makes the product softer without compromising its durability. Legs ended with a cuff.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
M	**LPKA1M**	170-175	84-89	x	72
L	**LPKA1L**	170-175	91-99	x	72
XL	**LPKA1XL**	175-180	102-107	x	72
XXL	**LPKA12XL**	180-185	110-115	x	72

1 DOLGE TERMO DELOVNE NOGAVICE

• DUGE TERMO RADNE ČARAPE • DUGE TERMO RADNE ČARAPE



- MATERIAL: 38% cotton, 38% polyester (Coolmax®), 20% polyester, 4% elastane.
- Coolmax fibres ensure high breathability and fast moisture evaporation. Areas with special weave provide extra warmth to the feet and shin. Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090639**	x	10/100
43-46	**L3090643**	x	10/100

2 TERMO DELOVNE NOGAVICE

• TERMO RADNE ČARAPE • TERMO RADNE ČARAPE



- MATERIAL: 60% cotton, 30% polyester (Coolmax ®), 5% polyamide, 5% elastane.
- The use of Coolmax fibres ensures high breathability and quick moisture evaporation. Flexible zones with a special weave keep the socks in place. Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090539**	x	10/100
43-46	**L3090543**	x	10/100

3 DELOVNE NOGAVICE

• RADNE ČARAPE • RADNE ČARAPE



- MATERIAL: 80% cotton, 15% polyester, 3% polyamide, 2% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090439**	x	10/100
43-46	**L3090443**	x	10/100

4 TERMO DELOVNE NOGAVICE, EKSTRA DEBELE

• TERMO RADNE ČARAPE, EKSTRA DEBLJINE
• TERMO RADNE ČARAPE, EKSTRA DEBLJINE



- MATERIAL: 91% acrylic, 5% nylon, 3% polyester, 1% elastane.
- The use of acrylic weave offers great thermal properties and softness. Ended with a cuff.

Size	Code		
39-42	**L3090339**	x	10/80
43-46	**L3090343**	x	10/80

5 DELOVNE NOGAVICE SREDNJE DEBELE

• RADNE ČARAPE SREDNJE DEBLJINE
• RADNE ČARAPE SREDNJE DEBLJINE



- MATERIAL: 50% cotton, 45% polyester, 5% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090239**	x	10/60
43-46	**L3090243**	x	10/60

6 TANKE DELOVNE NOGAVICE

• TANKE RADNE ČARAPE • TANKE RADNE ČARAPE



- MATERIAL: 75% cotton, 20% polyester, 5% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090139**	x	10/80
43-46	**L3090143**	x	10/80

7 DELOVNE NOGAVICE

• RADNE ČARAPE • RADNE ČARAPE



- MATERIAL: 80% cotton, 17% polyester, 3% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090739**	x	10/80
43-46	**L3090743**	x	10/80

8 KRATKE DELOVNE NOGAVICE

• KRATKE RADNE ČARAPE • KRATKE RADNE ČARAPE



- MATERIAL: 80% cotton, 17% polyester, 3% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090839**	x	10/80
43-46	**L3090843**	x	10/80

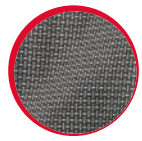
1 VISOKO VIDNA JAKNA - OZEK KROJ

• VISOKO VIDLJIVA JAKNA - USKI KROJ • VISOKO VIDLJIVA JAKNA - USKI KROJ

270 g/m²

CLASS 1

CERTYFIKAT
CIOP – PIB

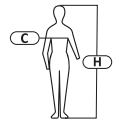


Reinforcements



Additional reflective elements







- MATERIAL: 35% cotton, 65% polyester, 270 g/m²; 60% cotton, 40% polyester, 270 g/m²
- Double-stitched reflective strips in accordance with EN ISO 20471. Additional reflective inserts that increase safety during work. 5 pockets, including 2 with zippers. Triple-stitched seams. Neck and pockets reinforced with an abrasion-resistant fabric (500D polyester). Bottom of the jacket and sleeves adjustable with Velcro straps. Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4041101**		**L4041201**		158-164	84-88	20
M	**L4041102**		**L4041202**		164-170	92-96	20
L	**L4041103**		**L4041203**		170-176	100-104	20
XL	**L4041104**		**L4041204**		176-182	108-112	20
2XL	**L4041105**		**L4041205**		182-188	116-120	20
3XL	**L4041106**		**L4041206**		188-194	126-130	20

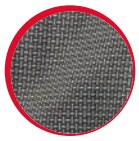
1 VISOKO VIDNE HLAČE - OZEK KROJ

• VISOKO VIDLJIVE HLAČE, USKI KROJ • HLAČE VISOKE VIDLJIVOSTI, USKI KROJ

270 g/m²

CLASS 1

CERTYFIKAT CIOP – PIB



Reinforcements



Reflective elements

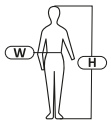


Innovative waist widht regulation



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II Cat. II CE

- MATERIAL: 35% cotton, 65% polyester, 270 g/m2; 60% cotton, 40% polyester, 270 g/m²
- Reflective strips in accordance with EN ISO 20471. 8 pockets, including 1 with a zipper. Pocket for mobile phone. Additional reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Loop for a hammer. Belt loops. Knee protector pockets reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4051101		L4051201		158-164	74-78	20
M	L4051102		L4051202		164-170	82-86	20
L	L4051103		L4051203		170-176	90-94	20
XL	L4051104		L4051204		176-182	98-102	20
2XL	L4051105		L4051205		182-188	106-110	20
3XL	L4051106		L4051206		188-194	116-120	20

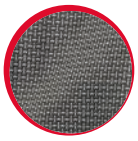
2 VISOKO VIDNE HLAČE Z NARAMNICAMI - OZEK KROJ

• VISOKO VIDLJIVE HLAČE S NARAMENICAMA - USKI KROJ
• HLAČE S NARAMENICAMA VISOKE VIDLJIVOSTI - USKI KROJ

270 g/m²

CLASS 1

CERTYFIKAT CIOP – PIB



Reinforcements



Reflective elements



Innovative waist widht regulation

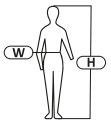


Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II Cat. II CE

- MATERIAL: 35% cotton, 65% polyester, 270 g/m2; 60% cotton, 40% polyester, 270 g/m²
- Reflective strips in accordance with EN ISO 20471. 9 pockets, including 1 with a zipper. Pocket for mobile phone. Additional reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Loop for a hammer. Adjustable-length braces. Knee protector pockets reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4061001		L4061101		158-164	74-78	20
M	L4061002		L4061102		164-170	82-86	20
L	L4061003		L4061103		170-176	90-94	20
XL	L4061004		L4061104		176-182	98-102	20
2XL	L4061005		L4061105		182-188	106-110	20
3XL	L4061006		L4061106		188-194	116-120	20

1 VISOKO VIDNA PREMIUM JAKNA

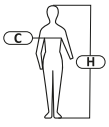
• VISOKO VIDLJIVA PREMIUM JAKNA • VISOKO VIDLJIVA PREMIUM JAKNA

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2





Kat. II
Cat. II

- MATERIAL: 60% cotton, 40% polyester, 270 g/m².
- Reflective stripes according to EN ISO 20471. High visibility grade: grade 2. Double seams. Zip. Adjustable cuffs with snap fasteners. Jacket bottom adjustable with snap fasteners. Snap fasteners coated with plastic protecting from water. 7 pockets, including 3 with Velcro fasteners. Mobile phone pocket. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4091201**		**L4091101**		158-164	84-88	20
M	**L4091202**		**L4091102**		164-170	92-96	20
L	**L4091203**		**L4091103**		170-176	100-104	20
XL	**L4091204**		**L4091104**		176-182	108-112	20
2XL	**L4091205**		**L4091105**		182-188	116-120	20
3XL	**L4091206**		**L4091106**		188-194	126-130	20

2 HLAČE VISOKE VIDLJIVOSTI PREMIUM

• HLAČE VISOKE VIDLJIVOSTI PREMIUM
• HLAČE VISOKE VIDLJIVOSTI PREMIUM

CERTYFIKAT
CIOP – PIB

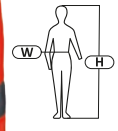
270 g/m²

CLASS 2



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II
Cat. II

- MATERIAL: 60% cotton, 40% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with a drawstring. Belt loops. Snap fastener coated with plastic to protect from water. 10 pockets, including 4 with Velcro fasteners. Knee-pad pockets with Velcro fasteners. Hammer loop. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4100601**		**L4100501**		158-164	74-78	20
M	**L4100602**		**L4100502**		164-170	82-86	20
L	**L4100603**		**L4100503**		170-176	90-94	20
XL	**L4100604**		**L4100504**		176-182	98-102	20
2XL	**L4100605**		**L4100505**		182-188	106-110	20
3XL	**L4100606**		**L4100506**		188-194	116-120	20

3 VISOKO VIDLJIVE PREMIUM HLAČE Z NARAMNICAMI

• VISOKO VIDLJIVE PREMIUM HLAČE S NARAMENICAMA • VISOKO VIDLJIVE PREMIUM HLAČE S NARAMENICAMA

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 3

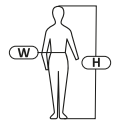


Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II
Cat. II

- MATERIAL: 60% cotton/ 40% polyester 270 g/m².
- Reflective stripes to EN ISO 20471. Highest visibility grade: grade 3. Double seams. Waist adjustment with buttons and a drawstring. Snap fasteners coated with plastic to protect from water. Adjustable braces. 11 pockets, including 5 with Velcro fastener. Knee-pad pockets with Velcro. Hammer loop. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4110701**		**L4110601**		158-164	74-78	20
M	**L4110702**		**L4110602**		164-170	82-86	20
L	**L4110703**		**L4110603**		170-176	90-94	20
XL	**L4110704**		**L4110604**		176-182	98-102	20
2XL	**L4110705**		**L4110605**		182-188	106-110	20
3XL	**L4110706**		**L4110606**		188-194	116-120	20

1 VISOKO VIDNA JAKNA

• VISOKO VIDLJIVA JAKNA • VISOKO VIDLJIVA JAKNA

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2



Kat. II
Cat. II CE

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes according to EN ISO 20471. High visibility grade: grade 2. Double seams. Ended with a collar. Buttoned-up. 5 pockets, including 2 with Velcro fasteners. Mobile phone pockets. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4091001		L4090901		158-164	84-88	20
M	L4091002		L4090902		164-170	92-96	20
L	L4091003		L4090903		170-176	100-104	20
XL	L4091004		L4090904		176-182	108-112	20
2XL	L4091005		L4090905		182-188	116-120	20
3XL	L4091006		L4090906		188-194	126-130	20

2 HLAČE VISOKE VIDLJIVOSTI

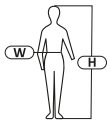
• HLAČE VISOKE VIDLJIVOSTI • HLAČE VISOKE VIDLJIVOSTI

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2





Kat. II
Cat. II CE

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with a drawstring. Belt loops. Snap fastener coated with plastic to protect from water. 6 pockets, including 2 with Velcro fasteners. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4100401		L4100301		158-164	74-78	20
M	L4100402		L4100302		164-170	82-86	20
L	L4100403		L4100303		170-176	90-94	20
XL	L4100404		L4100304		176-182	98-102	20
2XL	L4100405		L4100305		182-188	106-110	20
3XL	L4100406		L4100306		188-194	116-120	20

3 VISOKO VIDLJIVE HLAČE Z NARAMNICAMI

• VISOKO VIDLJIVE HLAČE S NARAMENICAMA • VISOKO VIDLJIVE HLAČE S NARAMENICAMA

CERTYFIKAT
CIOP – PIB

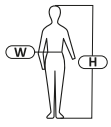
270 g/m²

CLASS 2



Specjalna konstrukcja klamry zapobiegająca jej zsuwaniu się





Kat. II
Cat. II CE

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with buttons and a drawstring. Adjustable braces. 7 pockets, including 3 with Velcro fasteners. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4110501		L4110401		158-164	74-78	20
M	L4110502		L4110402		164-170	82-86	20
L	L4110503		L4110403		170-176	90-94	20
XL	L4110504		L4110404		176-182	98-102	20
2XL	L4110505		L4110405		182-188	106-110	20
3XL	L4110506		L4110406		188-194	116-120	20

1 VISOKO VIDNA PODLOŽENA JAKNA

• VISOKO VIDLJIVA PODSTAVLJENA JAKNA • VISOKO VIDLJIVA PODSTAVLJENA JAKNA

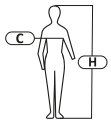
180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 3

CERTYFIKAT
CIOP – PIB



High grade quality waterproof material (2000 mm)





Kat. II
Cat. II
CE

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- Highest visibility grade: grade 3. Reflective stripes according to EN ISO 20471. Watertight seams. Snap fasteners coated with plastic protecting from water. Waterproof adjustable hood, concealed in a collar. Inner flexible cuffs to protect from wind and cold. Width adjustment at the jacket bottom with a two-sided drawstring with a stop. A zip with extra flap with snap-fasteners. 7 pockets (4 outer ones, including one for a mobile and 3 inner). Ventilation openings to improve air circulation.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4090701		L4090601		158-164	84-88	10
M	L4090702		L4090602		164-170	92-96	10
L	L4090703		L4090603		170-176	100-104	10
XL	L4090704		L4090604		176-182	108-112	10
2XL	L4090705		L4090605		182-188	116-120	10
3XL	L4090706		L4090606		188-194	126-130	10

2 VISOKO VIDNE PODLOŽENE HLAČE

• VISOKO VIDLJIVE PODSTAVLJENE HLAČE • PODSTAVLJENE HLAČE VISOKE VIDLJIVOSTI

180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 2

CERTYFIKAT
CIOP – PIB

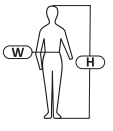




High grade quality waterproof material (2000 mm)



Zip regulated leg width



Kat. II
Cat. II
CE

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- High visibility grade: grade 2. Reflective stripes according to EN ISO 20471. Watertight seams. Waist width adjustment with a drawstring. Belt loops. A snap fastener coated with plastic to protect from water. 6 pockets.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4100201		L4100101		158-164	74-78	10
M	L4100202		L4100102		164-170	82-86	10
L	L4100203		L4100103		170-176	90-94	10
XL	L4100204		L4100104		176-182	98-102	10
2XL	L4100205		L4100105		182-188	106-110	10
3XL	L4100206		L4100106		188-194	116-120	10

1 VISOKO VIDNE PREŠITE HLAČE Z NARAMNICAMI

• VISOKO VIDLJIVE PROŠIVENE HLAČE S NARAMENICAMA
• VISOKO VIDLJIVE PROŠIVENE HLAČE S NARAMENICAMA

CERTYFIKAT
CIOP – PIB

180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 3





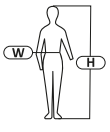
Special buckle construction to avoid self loosening



High grade quality waterproof material (2000 mm)



Zip regulated leg width



Kat. II Cat. II CE

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- Highest visibility grade: grade 3. Reflective stripes according to EN ISO 20471. Watertight seams. Waist width adjustment with buttons and a drawstring. Adjustable braces. 5 pockets
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4110301		L4110201		158-164	74-78	10
M	L4110302		L4110202		164-170	82-86	10
L	L4110303		L4110203		170-176	90-94	10
XL	L4110304		L4110204		176-182	98-102	10
2XL	L4110305		L4110205		182-188	106-110	10
3XL	L4110306		L4110206		188-194	116-120	10

2 VISOKO VIDNA PODLOŽENA JAKNA Z ODSTRANLJIVIMI ROKAVI

• VISOKO VIDLJIVA PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA • VISOKO VIDLJIVA PODSTAVLJENA JAKNA S ODVOJIVIM RUKAVIMA

CERTYFIKAT
CIOP – PIB

180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 1





High grade quality waterproof material (2000 mm)

180 g/m² | Kat. II Cat. II CE

- Material: Coating: 100% Oxford polyester 300D 180 g/m² with polyurethane (PU) coating. Padding: 100% polyester 160 g/m². Lining: 190T polyester taffeta 54 g/m².
- Reflective strips in accordance with EN ISO 20471. Watertight seams. Waterproof, adjustable hood, hidden in a Velcro collar. Cuffs finished with a welt with Velcro strap adjustment. Jacket bottom width adjustment with a welt. Zipper with additional flap fastened snaps. Removable sleeves. 5 pockets, including 1 with a zipper (4 outer and 1 inner).
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4092501		L4092601		158-164	84-88	10
M	L4092502		L4092602		164-170	92-96	10
L	L4092503		L4092603		170-176	100-104	10
XL	L4092504		L4092604		176-182	108-112	10
2XL	L4092505		L4092605		182-188	116-120	10
3XL	L4092506		L4092606		188-194	126-130	10

1 VISOKO VIDNI DVOSTRANSKI PODLOŽEN BREZROKAVNIK

- VISOKO VIDNI DVOSTRANI PODSTAVLJEN PRSLUK
- VISOKO VIDNI DVOSTRANI PODSTAVLJEN PRSLUK

CERTYFIKAT
CIOP – PIB

180 g/m² COATING

160 g/m² PADDING

2000 mm

CLASS 1





High grade quality waterproof material (2000 mm)

Kat. II Cat. II CE

- Material: Coating: 100% Oxford polyester 300D 180 g/m² with polyurethane (PU) coating. Padding: 100% polyester 160 g/m². Lining: Fleece 100% polyester 220 g/m².
- Reflective strips in accordance with EN ISO 20471. Watertight seams. 6 pockets, including 5 with a zipper (3 outer and 2 inner). Vest bottom width adjustment with a special drawstring.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4131301		L4131401		158-164	84-88	20
M	L4131302		L4131402		164-170	92-96	20
L	L4131303		L4131403		170-176	100-104	20
XL	L4131304		L4131404		176-182	108-112	20
2XL	L4131305		L4131405		182-188	116-120	20
3XL	L4131306		L4131406		188-194	126-130	20

2 JAKNA IZ FLISA VISOKE VIDLJIVOSTI

- JAKNA OD FLISA VISOKE VIDLJIVOSTI • JAKNA OD FLISA VISOKE VIDLJIVOSTI

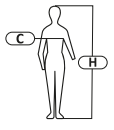
CERTYFIKAT
CIOP – PIB

300 g/m²

CLASS 2







Kat. II Cat. II CE

- MATERIAL: High-quality fleece 100% polyester, 300 g/m², short pile, brushed bilaterally and anti-pilling.
- Reflective stripes EN ISO 20471 combined with a high-visibility fabric ensure high visibility grade: grade 2. 3 zipped pockets. Wind-tight zips. Width adjustment at the jacket bottom with a two-sided drawstring with a stop.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4010901		L4011001		158-164	84-88	20
M	L4010902		L4011002		164-170	92-96	20
L	L4010903		L4011003		170-176	100-104	20
XL	L4010904		L4011004		176-182	108-112	20
2XL	L4010905		L4011005		182-188	116-120	20
3XL	L4010906		L4011006		188-194	126-130	20



1 JAKNA IZ SOFTSHELLA VISOKE VIDLJIVOSTI, Z ODSTRANLJIVIMI ROKAVI

• JAKNA OD SOFTSHELLA VISOKE VIDLJIVOSTI, S ODVOJIVIM RUKAVIMA • JAKNA OD SOFTSHELLA VISOKE VIDLJIVOSTI, S ODVOJIVIM RUKAVIMA

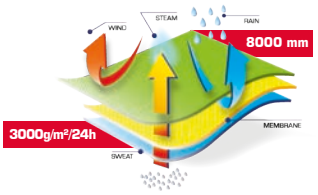
CERTYFIKAT
CIOP – PIB

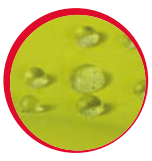
320 g/m²

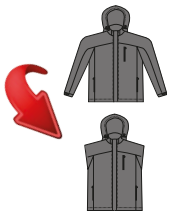
CLASS 1

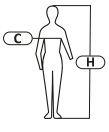
2in1











Kat. II
Cat. II

- MATERIAL: 100% polyester.
- Special 3-ply soft-shell textile with TPU membrane, waterproof (8000 mm), breathable (3000 g/m²/24 h), guaranteeing excellent wearing experience. Reflective stripes compliant with standard EN ISO 20471. 3 zipped pockets. Wind-proof zip fasteners. Detachable hood with width adjustment. Detachable sleeves. Zip cover. Sleeves finished with cuffs with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4091901		L4092201		158-164	84-88	20
M	L4091902		L4092202		164-170	92-96	20
L	L4091903		L4092203		170-176	100-104	20
XL	L4091904		L4092204		176-182	108-112	20
2XL	L4091905		L4092205		182-188	116-120	20
3XL	L4091906		L4092206		188-194	126-130	20

1 VISOKO VIDNA JAKNA ZA ZAŠČITO PRED DEŽJEM

• VISOKO VIDLJIVA JAKNA ZA ZAŠTITU OD KIŠE • JAKNA ZA ZAŠTITU OD KIŠE VISOKE VIDLJIVOSTI

180 g/m²

2000 mm

CLASS 3

CERTYFIKAT
CIOP – PIB



High grade quality waterproof material (2000 mm)



Kat. II
Cat. II

CE

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility textile ensure the highest visibility grade: grade 3. Watertight seams. Waterproof adjustable hood, concealed in a collar, zipped. Sleeves ended with a Velcro-adjustable cuff. Width adjustment at the jacket bottom with a drawstring. 2 outer pockets with snap fasteners. Ventilation openings on the jacket front and back to increase air circulation.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4091301		L4091401		158-164	84-88	20
M	L4091302		L4091402		164-170	92-96	20
L	L4091303		L4091403		170-176	100-104	20
XL	L4091304		L4091404		176-182	108-112	20
2XL	L4091305		L4091405		182-188	116-120	20
3XL	L4091306		L4091406		188-194	126-130	20

2 HLAČE VISOKE VIDLJIVOSTI ZA ZAŠČITO PRED DEŽJEM

• HLAČE VISOKE VIDLJIVOSTI ZA ZAŠTITU OD KIŠE • HLAČE VISOKE VIDLJIVOSTI ZA ZAŠTITU OD KIŠE

180 g/m²

2000 mm

CLASS 2

CERTYFIKAT
CIOP – PIB

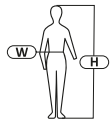


Zip regulated leg width



High grade quality waterproof material (2000 mm)





Kat. II
Cat. II

CE

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility fabric ensure high visibility grade: grade 2. Watertight seams. Width adjustment in the waist with a drawstring. Leg width adjustment with zip. 2 side openings enable to reach the pockets.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4100801		L4100901		158-164	74-78	20
M	L4100802		L4100902		164-170	82-86	20
L	L4100803		L4100903		170-176	90-94	20
XL	L4100804		L4100904		176-182	98-102	20
2XL	L4100805		L4100905		182-188	106-110	20
3XL	L4100806		L4100906		188-194	116-120	20

3 VISOKO VIDEN DEŽNI PLAŠČ

• KABANICE VISOKE VIDLJIVOSTI • KABANICE VISOKE VIDLJIVOSTI

180 g/m²

2000 mm

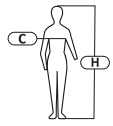
CLASS 3

CERTYFIKAT
CIOP – PIB



High grade quality waterproof material (2000 mm)





Kat. II
Cat. II

CE

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility fabric ensure the high visibility grade: grade 3. Watertight seams. Width adjustment in the waist with a drawstring. Zip regulated leg width. Two side openings enable to access pockets easily.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	H (cm)	C (cm)	Colour	
S	L4170101	158-164	84-88		20
M	L4170102	164-170	92-96		20
L	L4170103	170-176	100-104		20
XL	L4170104	176-182	108-112		20
2XL	L4170105	182-188	116-120		20
3XL	L4170106	188-194	126-130		20

1 POLO MAJICA VISOKE VIDLJIVOSTI

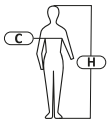
• POLO MAJICA VISOKE VIDLJIVOSTI • POLO MAJICA VISOKE VIDLJIVOSTI

CERTYFIKAT CIOP – PIB

140 g/m²

CLASS 2





Kat. II Cat. II CE

- MATERIAL: 100% Bird-eye polyester 140 g/m².
- Reflective stripes to EN ISO 20471 combined with the high-visibility fabric ensure high visibility grade: grade 2. Bird-eye textile improving air circulation. Finished with a collar. Buttoned-up. Pocket. Nape tape ensuring extra reinforcement.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4030201		L4030101		158-164	84-88	50
M	L4030202		L4030102		164-170	92-96	50
L	L4030203		L4030103		170-176	100-104	50
XL	L4030204		L4030104		176-182	108-112	50
2XL	L4030205		L4030105		182-188	116-120	50
3XL	L4030206		L4030106		188-194	126-130	50

2 MAJICA VISOKE VIDLJIVOSTI

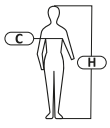
• MAJICA VISOKE VIDLJIVOSTI • MAJICA VISOKE VIDLJIVOSTI

CERTYFIKAT CIOP – PIB

140 g/m²

CLASS 2





Kat. II Cat. II CE

- MATERIAL: 100% Bird-eye polyester 140 g/m².
- Reflective stripes EN ISO 20471 combined with a high-visibility fabric ensure high visibility grade: grade 2. Bird-eye fabric to increase air circulation. Tape on the nape provides extra strengthening.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4020801		L4020701		158-164	84-88	50
M	L4020802		L4020702		164-170	92-96	50
L	L4020803		L4020703		170-176	100-104	50
XL	L4020804		L4020704		176-182	108-112	50
2XL	L4020805		L4020705		182-188	116-120	50
3XL	L4020806		L4020706		188-194	126-130	50

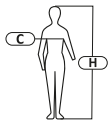
3 MREŽAST TELOVNIK Z ODSEVNIMI TRAKOVI

• MREŽASTI PRSLUK S REFLEKTIRAJUĆIM TRAKAMA • MREŽASTI PRSLUK S REFLEKTIRAJUĆIM TRAKAMA

120 g/m²







- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes. Mesh fabric structure ensures high breathability. Application: identification of people.

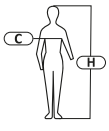
Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4130501		L4130601		158-164	86-90	100
M	L4130502		L4130602		164-170	92-96	100
L	L4130503		L4130603		170-176	100-104	100
XL	L4130504		L4130604		176-182	108-112	100
2XL	L4130505		L4130605		182-188	116-120	100
3XL	L4130506		L4130606		188-194	126-130	100

4 ODSEVNI TELOVNIK

• REFLEKTIRAJUĆI PRSLUK • REFLEKTIRAJUĆI PRSLUK

120 g/m²





Kat. II Cat. II CE

- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes.
- NORM: EN ISO 13688, EN ISO 20471

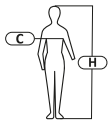
Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	LPKO1S		LPKO2S		158-164	84-88	100
M	LPKO1M		LPKO2M		164-170	92-96	100
L	LPKO1L		LPKO2L		170-176	100-104	100
XL	LPKO1XL		LPKO2XL		176-182	108-112	100
2XL	LPKO12XL		LPKO22XL		182-188	116-120	100
3XL	LPKO13XL		LPKO23XL		188-194	126-130	100

1 VISOKO VIDNI TELOVNIK ZA OTROKE

• VISOKO VIDLJIVI PRSLUK ZA DJECU • PRSLUK ZA DJECU VISOKE VIDLJIVOSTI

120 g/m²





Kat. II
Cat. II

- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes.
- NORM: EN 1150

Size/ Age category	Code	Colour	Code	Colour	H (cm)	C (cm)	
S/4-6 Years	**L4130101**		**L4130201**		120-134	75-85	100
M/7-9 Years	**L4130102**		**L4130202**		134-150	85-95	100
L/10-12 Years	**L4130103**		**L4130203**		150-165	95-105	100

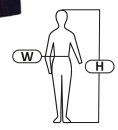
2 KRATKE HLAČE VISOKE VIDLJIVOSTI

• KRATKE HLAČE VISOKE VIDLJIVOST • KRATKE HLAČE VISOKE VIDLJIVOST

270 g/m²

CLASS 1





Kat. II
Cat. II

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. Visibility grade: 1. Waist width adjustment with a drawstring. Double seams. Belt loops. Snap fastener covered with plastic to protect from water. 4 pockets, including 2 with Velcro fastening. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4070101**		**L4070201**		158-164	74-78	20
M	**L4070102**		**L4070202**		164-170	82-86	20
L	**L4070103**		**L4070203**		170-176	90-94	20
XL	**L4070104**		**L4070204**		176-182	98-102	20
2XL	**L4070105**		**L4070205**		182-188	106-110	20
3XL	**L4070106**		**L4070206**		188-194	116-120	20

3 ELASTIČNI ODSEVNI TRAK

• ELASTIČNA REFLEKTIVNA TRAKA • ELASTIČNA REFLEKTIVNA TRAKA



Kat. II
Cat. II

- MATERIAL: PVC
- Reflective film according to EN 13356:2001. High flexibility ensures perfect fit. Soft inner material ensures high comfort of use.
- NORM: EN 13356:2001

Dimensions [cm]	Code	
3 x 34	**L9010100**	200/1000



CAPS AND TUBE SCARFS MADE OF HIGH VISIBILITY FABRIC
- PAGES 332, 334-335

4 PAS

• POJAS • POJAS



130cm MAX
50% COTTON 50% POLYESTER

- MATERIAL: 50% cotton / 50% polyester
- Strong metal clamp with a quick and easy fastening system. 130 cm long, can be shortened. 3.7 cm wide. Durable material.

Code	Size (cm)	Colour	
L9020100	one size (max. length 130 cm)		50
L9020200	one size (max. length 130 cm)		50

1 ZAŠČITNI KOMINEZON

• ZAŠTITNI KOMBINEZON • ZAŠTITNI KOMBINEZON

50 g/m²



Kat. I Cat. I CE

- MATERIAL: polypropylene non-woven fabric 50 g/m².
- **Application:**
  any dirty works, gardening, car repair, preliminary varnishing works, visits to plants, coveralls for visitors, building works, industrial coating, inspections of machines and devices, protection from dust not hazardous to health, protection of work and daily clothes, hobby.
  Properties/Features:
  - Rubber cuffs at the sleeves, legs and hood
  - Rubber at the waist, ensuring optimum fit of the coverall to the body

Size	Code	
M	**L4150202**	50
L	**L4150203**	50
XL	**L4150204**	50
2XL	**L4150205**	50
3XL	**L4150206**	50

2 KOMBINEZON TYVEK® 500 XPERT, MODEL CHF5

• KOMBINEZON TYVEK® 500 XPERT, MODEL CHF5
• KOMBINEZON TYVEK® 500 XPERT, MODEL CHF5



Anti-chemical protective clothes — Category III

EN 1149-5

TYP 5 *

TYP 6 *

EN 14126

EN 1073-2

CE

- New protection standard for Type 5 and 6 coveralls. Colour: white. Durable but lightweight (coveralls weight < 180 g). Three-part hood with a rubber band, offering optimum fit for the head and face, even when the user moves. Wide gusset in the crotch offers unrestricted movements. Zip with a lock, made from Tyvek®. Large slider, easy to grasp. Flap covering the zip to improve protection. Sleeves which do not fall down even when you raise your hands. Elastic cuffs on sleeves and legs Glued-in rubber band at the waist. Tyvek® Classic Xpert coveralls are anti-chemical protective clothes, category III, Type 5-B i 6-B. It is a barrier for biological agents (only the textile) to EN 14126, and also protects from radioactive solids to EN 1073-2. Antistatic finish to EN 1149, both sides. Outer sewn seams. Very small infiltration of solids inside the coveralls thanks to the optimised clothes' design. Sample coveralls application areas: chemical industry, vehicle coating, pharmaceutical industry, non-automatic laminate production, e.g. the production of boats or wind turbine components.

TYVEK® is a registered trade mark of DuPont or its subsidiaries.
* - DuPont pictogram
Typ 5 - Protection from solids
Typ 6 - Protection from sprayed liquid
EN 1149-1:2006 oraz EN 1149-5:2008 -Anti-static. properties provided the appropriate grounding is ensured. and the relative humidity is above 25%
EN 1073-2:2002 - Protection from radioactive solids

Size	Code	
S	**DU001S**	100
M	**DU001M**	100
L	**DU001L**	100
XL	**DU001XL**	100
2XL	**DU0012XL**	100
3XL	**DU0013XL**	100

1 PROSHIELD® BASIC, MODEL CHF5 ZAŠČITNI KOBINEZON

• PROSHIELD® BASIC, MODEL CHF5 ZAŠTITNI KOMBINEZON
• PROSHIELD® BASIC, MODEL CHF5 ZAŠTITNI KOMBINEZON



Anti-chemical protective clothes — Category III

EN 1149-5

TYP 5 *

TYP 6 *

EN 1073-2

CE

- Limited protection from solids and yet high comfort of work. Fabric: SMS. Coveralls with a hood with a rubber band. Flexible cuffs on the sleeves and legs. Rubber band at the waist (sewn in). A flap covering the zip. Antistatic finish. (EN 1149-5) inside. Protection from radioactive contamination (EN1073-2 Class 1). Designed to protect from dirt during light works, e.g. in workshops and other industries.

* - DuPont pictogram
Typ 5 - Protection from solids
Typ 6 - Protection from sprayed liquid
EN 1149-5:2008 - Anti-static. properties provided the appropriate grounding is ensured. and the relative humidity is above 25%
EN 1073-2:2002 - Protection from. radioactive solids

Size	Code	
S	**DU012S**	50
M	**DU012M**	50
L	**DU012L**	50
XL	**DU012XL**	50
2XL	**DU0122XL**	50
3XL	**DU0123XL**	50

2 ZAŠČITNI KOMBINEZON

• ZAŠTITINI KOMBINEZON
• ZAŠTITINI KOMBINEZON

60 g/m²



Kat. III
Cat. III
CE

- MATERIAL: multilayer non-woven fabric (polypropylene/polyethylene/polypropylene) 60 g/m²
- **Application:** removal of impurities (e.g. asbestos), decontamination work, work with solid and liquid dangerous substances (not under pressure), maintenance, maintenance and repair of industrial lines, inspections of machines and equipment, visiting facilities, construction works, performing industrial coatings, cleaning ducts, work in agriculture and the food industry
- **Features/properties:** - elastic in the waist for optimal coverall fit - cuffs on sleeves, legs and hood - relaxed cut with reinforcement in the crotch - ergonomic, three-part hood - zipper cover extending to the chin - internal overlock seams (green) assuring greater tightness - thumb loops

Size	Code	
L	**46194**	50
XL	**46195**	50
2XL	**46196**	50
3XL	**46197**	50

3 ZAŠČITNI KOMBINEZON

• ZAŠTITINI KOMBINEZON
• ZAŠTITINI KOMBINEZON



Kat. I
Cat. I
CE

- MATERIAL: polypropylene non-woven fabric 50 g/m²
- **Use:** dirty work, gardening, car repairs, preliminary work in varnishing, visiting industrial work areas, coveralls for guests, construction work, applying industrial coatings, inspections of machinery and equipment, protection against non-hazardous dust, protection of work and everyday clothing, hobby.
- **Features/properties:** - cuffs on sleeves, legs and hood - ergonomic, three-part hood - elastic in the waist for optimal coverall fit - zipper cover extending to the chin - external overlock seams assuring greater tightness - relaxed cut with reinforcement in the crotch

Size	Code	
M	**46188**	100
L	**46189**	100
XL	**46190**	100
2XL	**46191**	100
3XL	**46192**	100

ZAŠČITA GLAVE IN SLUHA
ZAŠTITA GLAVE I SLUHA





kape/kape

obrazne maske/obrazne maske

ščitniki ušes/štitnici za uši

čepki za ušesa/čepići za ušesa

čelade/kaciege

šali/šali

1 PODLOŽENA KAPA Z NAUŠNIKI

• PODSTAVLJENA KAPA S NAUŠNJACIMA • PODSTAVLJENA KAPA S NAUŠNJACIMA

215 g/m² COATING
100 g/m² PADDING



x12 Kat. I Cat. I CE

- Coating: 100% polyester, 215 g/m². Lining: 100% polyester, 120 g/m². Padding: faux sheepskin 800 g/m². Filling: 100% polyester, 100 g/m². Waterproofed. PVC-coated textile.
- Flaps fastened up with a buckle. Cap padding with high-quality faux sheepskin. Extra ear protection adjustable with a button.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020100		8
one size (57-61)	L1020200		8
one size (57-61)	L1020300		8

2 PODLOŽENA KAPA Z NAUŠNIKI

• PODSTAVLJENA KAPA S NAUŠNJACIMA • PODSTAVLJENA KAPA S NAUŠNJACIMA

175 g/m² COATING
120 g/m² PADDING
100% COTTON



x12 Kat. I Cat. I CE

- MATERIAL: Coating: 100% cotton, 175 g/m². Lining: 100% polyester, 120 g/m². Padding: faux sheepskin 800 g/m². Filling: 100% polyester, 120 g/m².
- Double layer construction ensures good termal insulation form cold.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
60	L1915160		8

3 AKRILNA KAPA S PODLOGO

• AKRILNA KAPA S PODSTAVOM • AKRILNA KAPA S PODSTAVOM

420 g/m²



Kat. I Cat. I

- MATERIAL: Coating: 100% acrylic. Padding: 160 g/m².
- Two-layer padding inside ensures very good thermal insulation from cold.

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L102060S		12/96

4 AKRILNA KAPA S PODLOGO

• AKRILNA KAPA • AKRILNA KAPA S PODSTAVOM

320 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: Coating: 100% acrylic. Padding: 160 g/m².
- Two-layer padding inside ensures very good thermal insulation from cold. Length adjustment thanks to folding out.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1934100		8
one size (57-61)	L1937100		8
one size (57-61)	L1938100		8

5 AKRILNA KAPA

• AKRILNA KAPA • AKRILNA KAPA

320 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic
- Adjustable length thanks to folding out. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1922100		8

1 AKRILNA OBRAZNA MASKA

• AKRILNA OBRAZNA MASKA • KRILNA OBRAZNA MASKA

280 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic.
- Balaclava with two holes. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020500	■	8

2 AKRILNA OBRAZNA MASKA

• AKRILNA OBRAZNA MASKA • AKRILNA OBRAZNA MASKA

340 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic.
- Balaclava with one hole. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020400	■	8



1 KAPA S ŠILTOM

• KAPA • KAPA

260 g/m²

100% COTTON



x12 Kat. I Cat. I CE

- MATERIAL: 100% cotton 260 g/m².
- Adjustable with a metal buckle. Reflective components. Metal-finished ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanging appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1010300		8



2 KAPA S ŠILTOM

• KAPA • KAPA

290 g/m²

100% COTTON





x12 Kat. I Cat. I CE

- MATERIAL: 100% cotton 290 g/m².
- Velcro adjustment. Ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanging appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1811300		8
one size (57-61)	L1812300		8
one size (57-61)	L1813300		8
one size (57-61)	L1814300		8
one size (57-61)	L1815300		8
one size (57-61)	L1816300		8

3 KAPA S ŠILTOM

• KAPA • KAPA

290 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 60% cotton, 40% polyester, density 290 g/m².
- Velcro adjustment. Reflective components. Ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanged appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1010100		8
one size (57-61)	L1010200		8

1 VEČNAMENSKI CEVASTI ŠAL

• VIŠENAMJENSKI CIJEVNI ŠAL • VIŠENAMJENSKI CIJEVNI ŠAL

128 g/m²









- MATERIAL: 100% microfibre polyester, breathable, 128 g/m2.
- Seamless structure. Reflective stripes improve safety of use. Flexibility. Protection from wind, sunshine, sand, cold or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour		
one size	L1030100		x	50/200
one size	L1030200		x	50/200
one size	L1030300		x	50/200

2 VEČNAMENSKI CEVASTI ŠAL IZ FLISA

• VIŠENAMJENSKI CIJEVNI ŠAL OD FLISA
• VIŠENAMJENSKI CIJEVNI ŠAL OD FLISA

220 g/m² FLEECE

128 g/m² MICROFIBRE









- MATERIAL: 100% polyester mikrofibre/ fleece, breathable, 128 g/m² (mikrofibre), 220 g/m² (fleece).
- Reflective stripes improve safety of use. Seamless structure of the microfibre part. Flexibility. Excellent protection from frost, cold, wind or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour	
one size	L1030400		50/200
one size	L1030600		50/200

3 VEČNAMENSKI CEVASTI ŠAL IZ FLISA

• SVENAMJENSKI CIJEVNI ŠAL OD FLISA • SVENAMJENSKI CIJEVNI ŠAL OD FLISA

160 g/m²













- MATERIAL: Fabric: high-quality fleece 100% polyester, 160 g/m², short-pile, brushed bilaterally and anti-piling.
- Two-layer design provides very good insulation from cold and the ability to use on two sides. Width adjustment with a special drawstring ensures perfect fit and user comfort. Excellent protection from frost, cold, wind or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour	
one size	L1030700		50/200

1 ZAŠČITNA ČELADA ZA DELO NA VIŠINI

• ZAŠTITNA KACIGA ZA RAD NA VISINI • ZAŠTITNA KACIGA ZA RAD NA VISINI







Kat. III
Cat. III

- MATERIAL: ABS
- Protects from mechanical injuries and low voltage up to 1000 V A.C. or 1500 V D.C. Suitable for use in temperatures ranging from -30°C to +50°C. Practical 3-point chin strap. A short peak ensures excellent visibility. Size adjusted with a knob. Six-strap head structure ensures stable fitting of the helmet on the head.
- NORM: EN 397, EN 50365 Grade 0

Size (cm)	Code	Colour	
52-63	**L1040402**		20

2 ZAŠČITNA ČELADA

• ZAŠTITNA KACIGA • ZAŠTITNA KACIGA





Face shields suitable for protective helmet LAHTI PRO
- see page 347



Noise-protection earmuffs suitable for protective helmet LAHTI PRO
- see page 338



Kat. II
Cat. II

- SHELL MATERIAL: ABS
- Protects against mechanical injuries. Suitable for use in temperatures ranging from -10 °C to +50 °C. Functional four-point chinstrap. Vents in the upper part of the shell assure optimum airflow. Size adjustment by means of a knob. Six-arm suspension guarantees stable fitting of the helmet on the head. Universal openings on the sides for mounting accessories. For use with LAHTI PRO ear protectors with the SKU: L1700200 and face shields: L1520400, L1520500
- NORM: EN 397

Size (cm)	Code	Colour	
52-64	**L1040501**		24
	L1040502		24
	L1040503		24
	L1040504		24
	L1040505		24
	L1040506		24

1 ZAŠČITNA ČELADA

• ZAŠTITNA KACIGE • ZAŠTITNA KACIGA

CERTYFIKAT

CIOP – PIB





Kat. III
Cat. III

- MATERIAL: HDPE
- Protect from mechanical injuries and short-term contact with electric conductors with the current value up to 440 V (Cat. III). Suitable for use in temperatures ranging from -20°C to +50°C. The harness has four bearing straps made from textile tapes and a main strap in the form of polyethylene pressure moulding. They have a non-woven sweatband and chin strap from textile tape. Groove protecting from dripping water. Universal openings on the sides. Application: building works, industry.
- NORM: EN 397

Size (cm)	Code	Colour	
53-59	L1040201		20
	L1040202		20
	L1040203		20
	L1040204		20
	L1040205		20
	L1040206		20

2 ZAŠČITNA ČELADA

• ZAŠTITNA KACIGA • ZAŠTITNA KACIGA





Face shields suitable for protective helmet LAHTI PRO
- see page 347



Noise-protection earmuffs suitable for protective helmet LAHTI PRO
- see page 338

Kat. II
Cat. II

- MATERIAL: HDPE
- Protect from mechanical injuries. Suitable for use in temperatures from -10°C to +50°C. Practical chin strap. Six-band harness ensures stable helmet placement on the head. Groove protecting from dripping water. Universal openings on the sides to attach accessories. Application: building works, industry. Compatible with noise-protection earmuffs LAHTI PRO, code: L1700200.
- NORM: EN 397

Size (cm)	Code	Colour	
53-64	L1040101		40
	L1040102		40
	L1040103		40
	L1040104		40
	L1040105		40
	L1040106		40



1 ŠČITNIK UŠES ZA ZAŠČITNO ČELADO PRED HRUPOM

• ŠTITNICI ZA ZAŠTITU OD BUKE
• ŠTITNICI ZA ZAŠTITU OD BUKE

SNR: 26dB







L10401, L10405

Kat. III Cat. III CE

• MATERIAL: ABS
• Sound insulation: SNR: 26dB, H: 27dB, M: 26dB, L: 18dB. Thick and soft earmuff cushions ensure comfort during long-term use. Smooth earmuff height adjustment guarantees perfect fit. Deflecting and rotary earpieces enable work without earmuffs installed, without the need to detach them from the helmet. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405.
• NORM: EN 352-3

Code		
L1700200	x	10/60

2 ŠČITNIK UŠES ZA ZAŠČITO PRED HRUPOM

• ŠTITNICI ZA ZAŠTITU OD BUKE
• ŠTITNICI ZA ZAŠTITU OD BUKE

SNR: 29dB



Kat. III Cat. III CE

• MATERIAL: ABS
• Sound insulation: SNR: 29dB, H: 32dB, M: 27dB, L: 19dB. Smooth earmuff height adjustment guarantees perfect fit to the head. Thick and soft earmuff cushions ensure comfort during long-term use.
• NORM: EN 352-1

Code		
46032	x	10/60

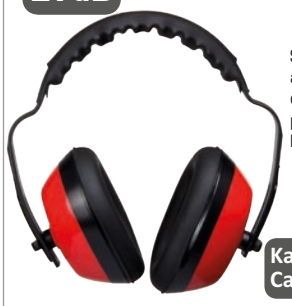
3 ŠČITNIK UŠES ZA ZAŠČITO PRED HRUPOM

• ŠTITNICI ZA ZAŠTITU OD BUKE
• ŠTITNICI ZA ZAŠTITU OD BUKE

SNR: 27dB



Smooth adjustment of the earmuffs assures perfect fit to the head



Kat. III Cat. III CE

• MATERIAL: ABS
• Sound insulation: SNR: 27dB, H: 29dB, M: 25dB, L: 19dB. A soft pad on a bow ensures excellent wearing experience. Smooth earmuff adjustment ensures perfect fit to the head.
• NORM: EN 352-1

Code		
L1700100	x	10/60

4 PENASTI ČEPKI ZA UŠESA

• PJENASTI ČEPIĆI ZA UŠI • PJENASTI ČEPIĆI ZA UŠI

SNR: 34dB





L171010K (5 pairs)



L171010B (100 pairs)



L171010D (200 pairs)

7-12 mm Kat. III Cat. III CE

• MATERIAL: Made from slow-expandable, soft and elastic polyurethane foam.
• Sound insulation: SNR: 34dB, H: 34dB, M: 31dB, L: 29dB. Hearing protection from excessive noise: excellent insulation of high-frequency sounds. Perfect fit in the hearing duct thanks to the self-forming material. Even pressure distribution on the hearing duct, ensuring high comfort of use. Smooth and dirt-proof surface, preventing accumulation of dirt. Disposable product.
• NORM: EN 352-2

Code	Quantity per package	Package	
L171010K	5 pairs	blister	40/800
L171010B	100 pairs	box	20
L171010D	200 pairs	dispenser	20

5 PENASTI ČEPKI ZA UŠESA

• PJENASTI ČEPIĆI ZA UŠI • PJENASTI ČEPIĆI ZA UŠI



SNR: 36dB Kat. II Cat. II CE

• MATERIAL:Polyurethane foam
• Sound insulation: SNR: 36dB, H: 34dB, M: 34dB, L: 31dB. Thanks to the self-forming polyurethane foam, the ear plug evenly distributes pressure on the hearing duct. Elastic. Very good protection from excessive noise. Application: food industry. Sold in plastic bags - 10 pairs in a package.
• NORM: EN 352-2

Code	Dimensions (mm)	
46002	11 x 25	10

6 SILIKONSKI ČEPKI ZA UŠESA

• SILIKONSKI ČEPIĆI ZA UŠI • SILIKONSKI ČEPIĆI ZA UŠI

SNR: 32dB





8-10 mm Kat. III Cat. III CE

• MATERIAL: Soft and flexible silicagel.
• Sound insulation: SNR: 32dB, H: 32dB, M: 29dB, L: 28dB. Protection from excess noise; perfect insulation of high-frequency sounds. Special ring shape enables easy fitting in the hearing duct. Smooth and dirt-proof surface preventing accumulation of dirt. Disposable product.
• NORM: EN 352-2

Code	Quantity per package		
L171020K	5 pairs	x	40/800

7 ČEPKI ZA UŠESA

• ČEPIĆI ZA UŠI • ČEPIĆI ZA UŠI

SNR: 21dB



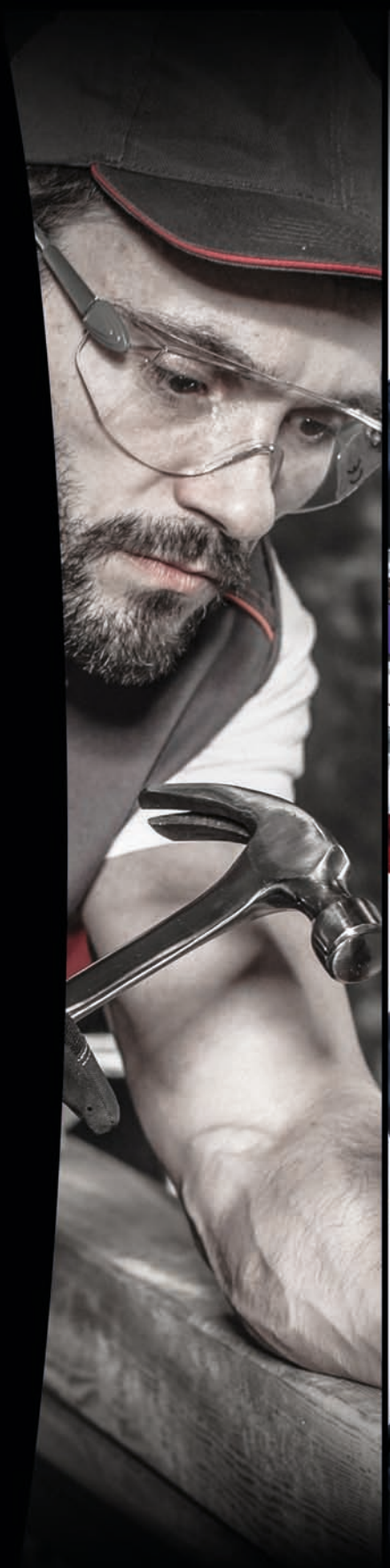


Kat. III Cat. III CE

• MATERIAL: Tips: thermoplastic elastomer. Bow: ABS.
• Sound insulation: SNR: 21dB, H: 22dB, M: 17dB, L: 15dB. Hearing protection from excessive noise; very good insulation of high-frequency sounds. Comfortable bow which ensures easy plug manipulation. Smooth and dirt-proof surface preventing accumulation of dirt. Lightweight and comfortable alternative to earmuffs. Reusable product.
• NORM: EN 352-2

Code		
L1710300	x	15/300

ZAŠČITA GLAVE IN OČI
ZAŠTITA GLAVE I OČIJU





ščitniki obraza/štitniki obraz

očala/naočale

varilne maske/maske za zavarivanje

LAHTI PRO

1 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE

FT MECHANICAL RESISTANCE
UV
ANTI-SCRATCH
ANTI-FOG
-5°C 55°C EXTREME TEMPERATURE RESISTANCE



Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses with UV filter, covered with a special coating preventing fogging, resistant to scratching.
- Their inside is finished with EVA foam (dismountable) which seals, absorbs shock and improves the comfort of use. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed resistance from -5°C ± 2°C to 55°C ± 2°C). Resistance grade - FT.
- NORM: EN 166, EN 170

Code		
L1500500	x	48

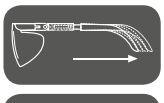
2 PROZORNA ZAŠČITNA OČALA

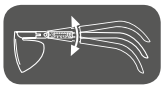
• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE







Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Earpiece length and angle adjustment. Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Wide field of vision. Lightweight and robust structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46037	x	48

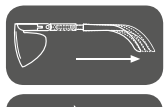
3 SIVA ZAŠČITNA OČALA

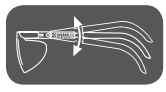
• SIVE ZAŠTITNE NAOČALE • SIVE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE
SPF SUN PROTECTIVE FACTOR







Kat. II Cat. II CE

- MATERIAL: Grey polycarbonate lenses with glare protection.
- Earpiece length and angle adjustment. Soft nosepiece reducing the risk of irritation. Wide field of vision. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46038	x	48

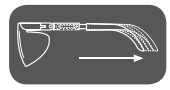
4 RUMENA ZAŠČITNA OČALA

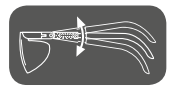
• ŽUTE ZAŠTITNE NAOČALE • ŽUTE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE
UV







Kat. II Cat. II CE

- MATERIAL: Yellow polycarbonate lenses with UV filter.
- Earpiece length and angle adjustment. Openings on the earpiece ends to attach a string/suspension. A soft nosepiece to reduce the risk of irritation. Wide field of vision. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46039	x	48

1 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



FT MECHANICAL RESISTANCE

UV

EXTREME TEMPERATURE RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses with UV filter. Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C) Resistance class - FT.
- NORM: EN 166, EN 170

Code		
L1500200	x	12/300

2 SIVA ZAŠČITNA OČALA

• SIVE ZAŠTITNE NAOČALE • SIVE ZAŠTITNE NAOČALE



FT MECHANICAL RESISTANCE

SPF SUN PROTECTIVE FACTOR

EXTREME TEMPERATURE RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Grey polycarbonate lenses with glare protection. Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - FT.
- NORM: EN 166, EN 172

Code		
L1500300	x	12/300

3 RUMENA ZAŠČITNA OČALA

• ŽUTE ZAŠTITNE NAOČALE • ŽUTE ZAŠTITNE NAOČALE



FT MECHANICAL RESISTANCE

UV

EXTREME TEMPERATURE RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Yellow polycarbonate lenses with UV filter . Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and robust structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - FT.
- NORM: EN 166, EN 170

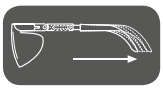
Code		
L1500400	x	12/300

4 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE



Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Lightweight and robust structure. Designed for personal eye protection against mechanical damage.Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46033	x	12/300

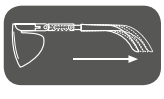
5 SIVA ZAŠČITNA OČALA

• SIVE ZAŠTITNE NAOČALE • SIVE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE

SPF SUN PROTECTIVE FACTOR



Kat. II Cat. II CE

- MATERIAL: Grey polycarbonate lenses with glare protection.
- Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46035	x	12/300

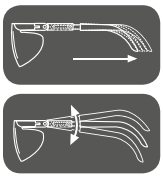
6 RUMENA ZAŠČITNA OČALA

• ŽUTE ZAŠTITNE NAOČALE • ŽUTE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE

UV



Kat. II Cat. II CE

- MATERIAL: Yellow polycarbonate lenses with UV filter.
- Earpiece length and angle adjustment. Openings on the earpiece ends to attach a string/suspension. A soft nosepiece to reduce the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 170

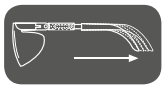
Code		
46051	x	12/300

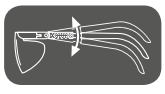
1 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE





Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Adjustable earpieces (angle and length adjustment). Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
L2011300	x	12/300

2 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46018	x	12/300

3 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection in the hazard of splinters and splashes created when grinding, drilling, cutting, mowing, chiselling, coating etc.. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46023	x	10/100

4 PROZORNA ZAŠČITNA OČALA

• PROZIRNE ZAŠTITNE NAOČALE • PROZIRNE ZAŠTITNE NAOČALE



S MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection in the hazard of splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc.. Protect from impact with particles weighing 43 g at 5.1 m/s. Resistance class - S.
- NORM: EN 166

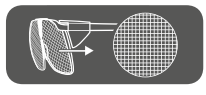
Code		
L1500100	x	12/240

5 ZAŠČITNA OČALA MREŽASTA

• ZAŠTITNE NAOČALE S MREŽICOM • ZAŠTITNE NAOČALE S MREŽICOM



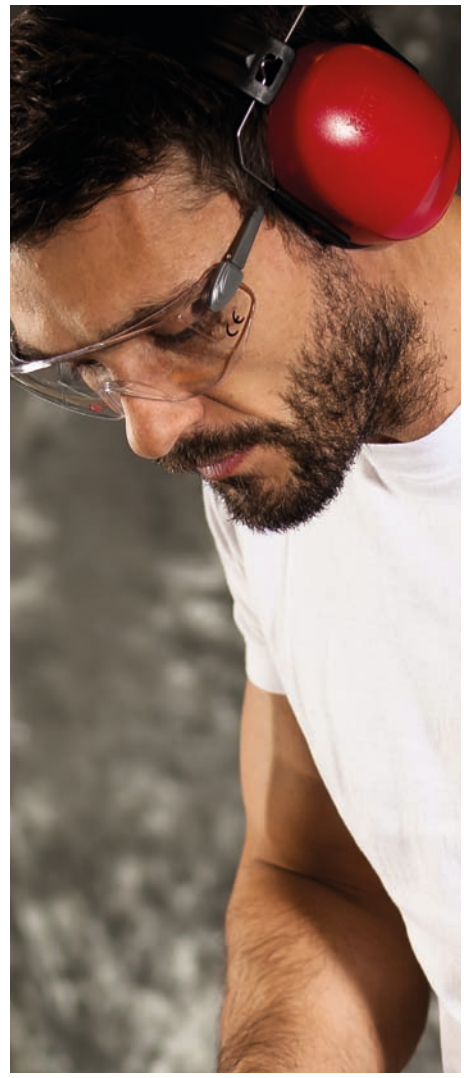
F MECHANICAL RESISTANCE



Kat. II Cat. II CE

- MATERIAL: Metal mesh/plastic.
- No steaming effect thanks to lenses replaced with metal mesh. Special shape of earpieces, offering additional side protection and not reducing the field of vision. Openings on the earpiece ends to attach a string/ suspension . Lightweight and strong structure ensuring high comfort of use. Designed for personal eye protection against mechanical damage resulting from solids. Protect from impact with particles weighing 0.86 g at 45 m/s. Application: gardening works, i.e. shrub trimming, lawn mowing etc., tree felling, manual and machine treatment of wood, metals, plastic, stone and aggregates. Resistance class - F.
- NORM: EN 1731

Code		
LPOS01	x	12/300



1 ZAŠČITNA OČALA

• ZAŠTITNE NAOČALE • ZAŠTITNE NAOČALE



BT MECHANICAL RESISTANCE
UV
ANTI-FOG
EXTREME TEMPERATURE RESISTANCE
Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate glass with UV filter with anti-fog coating.
- Protect from splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Wide, adjustable flexible rubber band, ensuring perfect fit. Ventilation openings to ensure excellent air circulation. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 120 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - BT.
- NORM: EN 166, EN 170

Code		
L1510500	x	5/100

2 ZAŠČITNA OČALA

• ZAŠTITNE NAOČALE • ZAŠTITNE NAOČALE



B MECHANICAL RESISTANCE
Kat. II Cat. II CE

- MATERIAL: The transparent polycarbonate glass.
- The transparent polycarbonate pane offers eye protection against splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Wide, adjustable flexible rubber band, ensuring perfect fit. Ventilation openings ensure perfect circulation of air. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 120 m/s. Resistance class - B.
- NORM: EN 166

Code		
L1510400	x	10/60

3 ZAŠČITNA OČALA

• ZAŠTITNE NAOČALE • ZAŠTITNE NAOČALE



F MECHANICAL RESISTANCE
Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate glass.
- Adjustable elastic rubber band, ensuring perfect fit. Cut-out openings preventing glass fogging. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46017	x	20/200

4 ZAŠČITNA OČALA

• ZAŠTITNE NAOČALE • ZAŠTITNE NAOČALE



S MECHANICAL RESISTANCE
Kat. II Cat. II CE

- MATERIAL: The transparent polycarbonate glass.
- Protect against splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Adjustable elastic rubber band, ensuring perfect fit. Cut-out openings preventing glass fogging. Protect from impact with particles weighing 43 g at 5.1 m/s. Resistance class - S.
- NORM: EN 166

Code		
L1510100	x	20/120

5 ZAŠČITNA OČALA

• ZAŠTITNE NAOČALE • ZAŠTITNE NAOČALE



B MECHANICAL RESISTANCE
ANTI-FOG
Kat. II Cat. II CE

- MATERIAL: Transparent PC glass, resistant to fogging.
- The goggles are well-ventilated which improves the comfort of work. Protect from impact with particles weighing 0.86 g at 120 m/s. Resistance class - B.
- NORM: EN 166

Code	
46028	10

1 OČALA ZA VARJENJE

• NAOČALE ZA ZAVARIVANJE • NAOČALE ZA ZAVARIVANJE

CERTYFIKAT
CIOP – PIB



F MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: metal
- Designed to protect the eyes and their vicinity against welding radiation, hot and cold splinters of melted metal, sinter, sun rays, when firing and melting certain metals, seam heating. Resistant to low-energy impact with a ball weighing 0.86 g at 45 m/s. The two glasses are connected with a special connector enabling to adjust them to any face. Not subject to deformation. Resistant to changing weather conditions and corrosion. Tilting frame with a filter, enabling to view without the need to remove the goggles.
- NORM: EN 175

Code	Dimensions (mm)	
L1510200	200 x 100 x 70	8/80

2 OČALA ZA VARJENJE

• NAOČALE ZA ZAVARIVANJE • NAOČALE ZA ZAVARIVANJE



x6

Kat. II Cat. II CE

- MATERIAL: made from plastic.
- Designed to protect eyes and their vicinity against welding radiation and sun rays. Tilting frame with a filter enabling to view without removing the goggles. With a replaceable protection pane and welding filter with dimming rate of 5 DIN. 6 ventilation openings. Weight 90 g.
- NORM: EN 175

Code	Dimensions (mm)	
L1510300	180 x 100 x 90	60

3 VARILNA MASKA

• MASKA ZA ZAVARIVANJE • MASKA ZA ZAVARIVANJE

CERTYFIKAT
CIOP – PIB

L1530100



L1530200



L1530300



L1530400



Kat. II Cat. II CE

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN (for the window shield, the window filter has the dimming rate of 5 DIN).
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Dimensions (mm)	Handle type	
L1530100	50 x 100	no	470 x 290 x 105	wooden	30
L1530200	80 x 100	no	390 x 230 x 85	wooden	40
L1530300	50 x 100	no	390 x 230 x 85	plastic	35
L1530400	50 x 100 + 20 x 100	yes	390 x 230 x 85	wooden	40

4 VARILNA MASKA

• MASKA ZA ZAVARIVANJE • MASKA ZA ZAVARIVANJE

CERTYFIKAT
CIOP – PIB

L1530500





L1530600

Kat. II Cat. II CE

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. Recommended especially for works in places difficult to reach. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN. Extra lightweight. Easily replaced filter and protective pane thanks to the plastic frame they are installed in.
- NORM: EN 175

Code	Filter size (mm)	Filter size	Dimensions	Handle type	
L1530500	50 x 100	no	350 x 260 x 85	plastic	40
L1530600	50 x 100	no	275 x 200 x 50	plastic	60

1 VARILNA MASKA

CERTYFIKAT CIOP – PIB

• MASKA ZA ZAVARIVANJE
• MASKA ZA ZAVARIVANJE



Kat. II Cat. II CE

- MATERIAL: composite
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN. Easily replaced filter and protective pane. Resistant to cracking and moisture. Perfect for working outdoors.
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Dimensions (mm)	Handle type	
L1530700	50 x 100	nie	420 x 265 x 120	plastic	20

2 VARILNA MASKA

CERTYFIKAT CIOP – PIB

• MASKA ZA ZAVARIVANJE • MASKA ZA ZAVARIVANJE



Adjustable head straps

Kat. II Cat. II CE

- MATERIAL: plastic
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable welding filter with the dimming rate of 11 DIN, glass transparent filter and polycarbonate protective pane. Comfortable, adjustable head strap. Tilting frame with a filter enabling to see without the need to raise the visor helmet. Resistant to cracking and moisture. Perfect for working outdoors.
- NORM: EN 175

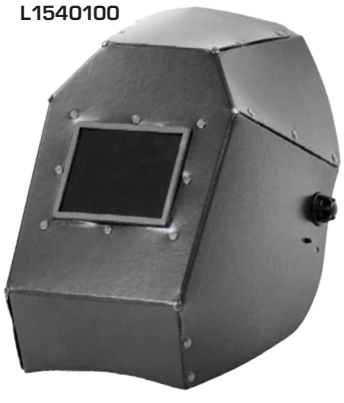
Code	Filter size (mm)	Helmet size (mm)	
L1540300	90 x 110	320 x 220 x 190	20

3 VARILNE MASKE

CERTYFIKAT CIOP – PIB

• MASKA ZA ZAVARIVANJE • MASKA ZA ZAVARIVANJE

L1540100





Adjustable head straps



L1540200

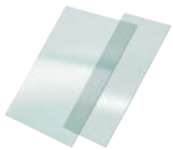
Kat. II Cat. II CE

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN (for the window-equipped version, the window filter has the dimming rate of 5 DIN). Comfortable, adjustable head strap.
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Helmet size (mm)	Collar (leather)	
L1540100	80 x 100	no	325 x 220 x 175	no	20
L1540200	50 x 100 + 20 x 100	yes	325 x 220 x 175	yes	20

1 ČELADA ZA VARJENJE S SAMODEJNO ZATEMNITVIJO

• KACIGA ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM • KACIGE ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM



Replaceble glass
L1540401
- see page 347

















- MATERIAL: polyamide
- Two-range dimming 5–8/9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 98 x 55 mm. 4 light sensors. Automatic switching on/off. Filter test. Grinding function. Response time: 1/25000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 CR2450 batteries. Adjustable head straps. Replaceble glass L1540401 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540400	98 x 55	241 x 230 x 330	6

2 ČELADA ZA VARJENJE S SAMODEJNO ZATEMNITVIJO

• KACIGA ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM • KACIGE ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM



Replaceble glass
L1540501
- see page 347

















- MATERIAL: polyamide
- Dimming range 9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 100 x 50 mm. 2 light sensors. Automatic switching on/off. Filter test. Grinding function. Response time: 1/25000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 CR2032 batteries. Adjustable head straps. Replaceble glass L1540501 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540500	100 x 50	241 x 230 x 330	6

3 ČELADA ZA VARJENJE S SAMODEJNO ZATEMNITVIJO

• KACIGA ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM • KACIGE ZA ZAVARIVANJE S AUTOMATSKIM ZATAMNJENJEM



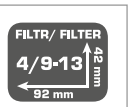
Replaceble glass
L1540601
- see page 347















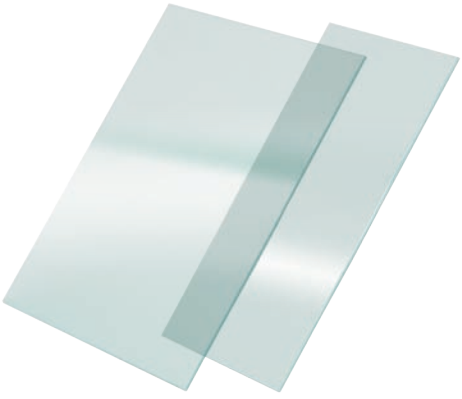


- MATERIAL: polyamide
- Dimming range 9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 92 x 42 mm. 2 light sensors. Automatic switching on/off. Grinding function. Response time: 1/15000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 non-replaceable CR2032 batteries. Adjustable head straps. Replaceble glass L1540601 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540600	92 x 42	241 x 230 x 330	6

1 STEKLO ZA ČELADO ZA VARJENJE

- STAKLO ZA KACIGU ZA ZAVARIVANJE
- STAKLO ZA KACIGU ZA ZAVARIVANJE



- MATERIAL: polycarbonate
- Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 45 m/s. Resistance class - F. Thickness 0.8 mm. For use as replaceable parts in L1540400, L1540500, L1540600 face masks.
- NORM: EN 166

Code	Helmet type	
L1540401	L1540400	50
L1540501	L1540500	50
L1540601	L1540600	50

2 ŠČITNIK OBRAZA ZA ČELADO INDUSTRIAL PRO

- ZAŠTITA ZA LICE ZA ZAŠTITNU KACIGU (L10401)
- ZAŠTITA ZA LICE ZA ZAŠTITNU KACIGE (L10401)



- MATERIAL: polycarbonate
- First optical class. Resistant to solid spatter. Resistant to splashes of non-aggressive liquids created when working (e.g. manual and machine treatment of metal, wood, plastic etc.). Resistant to medium-energy impact with a ball weighing 0.86 g at 120 m/s. Resistance grade - B. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405 and noise-protection earmuffs L1700200.

Code	Helmet size (mm)	
L1520400	200	25/50



3 MREŽASTA ZAŠČITA ZA OBRAZ ZA ZAŠČITNO ČELADO (L10401)

- MREŽASTA ZAŠTITA ZA LICE ZA ZAŠTITNU KACIGU (L10401)
- MREŽASTA ZAŠTITA ZA LICE ZA ZAŠTITNU KACIGU (L10401)



- MATERIAL: metal
- Resistant to solid spatter created when working (e.g. manual and machine treatment of metal, wood, plastic etc.). Resistant to low-energy impact with a ball weighing 0.86 g at 45 m/s. Resistance grade - F. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405 and noise-protection earmuffs L1700200.

Code	Shield height (mm)	
L1520500	210	25/50

LAHTI PRO

1 OBRAZNI ŠČITNIK

• ŠTITNIK ZA LICE • ŠTITNIK ZA LICE

B MECHANICAL RESISTANCE

240 mm

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with a visor and adjustable head straps, made from polycarbonate 1 mm thick. First optical class. Resistant to solid spatter. Resistant to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonia
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 245 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520300	240	40

2 OBRAZNI ŠČITNIK

• ŠTITNIK ZA LICE • ŠTITNIK ZA LICE

B MECHANICAL RESISTANCE

240 mm

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with adjustable head straps , made from polycarbonate 1 mm thick. First optical class. Resistance to solid splinters. Resistance to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonia
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 215 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520200	240	45

3 OBRAZNI ŠČITNIK

• ŠTITNIK ZA LICE • ŠTITNIK ZA LICE

B MECHANICAL RESISTANCE

200 mm

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with Velcro-adjustable head straps , made from polycarbonate 1 mm thick. First optical class. Resistant to solid spatter. Resistant to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonium hydroxide
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils.

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 107 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520100	200	100

4 OBRAZNI ŠČITNIK

• ŠTITNIK ZA LICE • ŠTITNIK ZA LICE

B MECHANICAL RESISTANCE

200 mm



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Projectile guard with visor and adjustable headband. Made of polycarbonate. Resistant to solid spatter Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 120 m/s, Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520600	200	10/40

5 MREŽASTI ŠČITNIKI ZA OBRAZ

• MREŽASTI ŠTITNIK ZA LICE •MREŽASTI ŠTITNIK ZA LICE

F MECHANICAL RESISTANCE

180 mm



Kat. II Cat. II CE

- MATERIAL: metal mesh
- Projectile guard with visor and adjustable headband. Made of metal mesh. Resistant to solid spatter. Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 45 m/s. Resistance class - F.
- NORM: EN 166

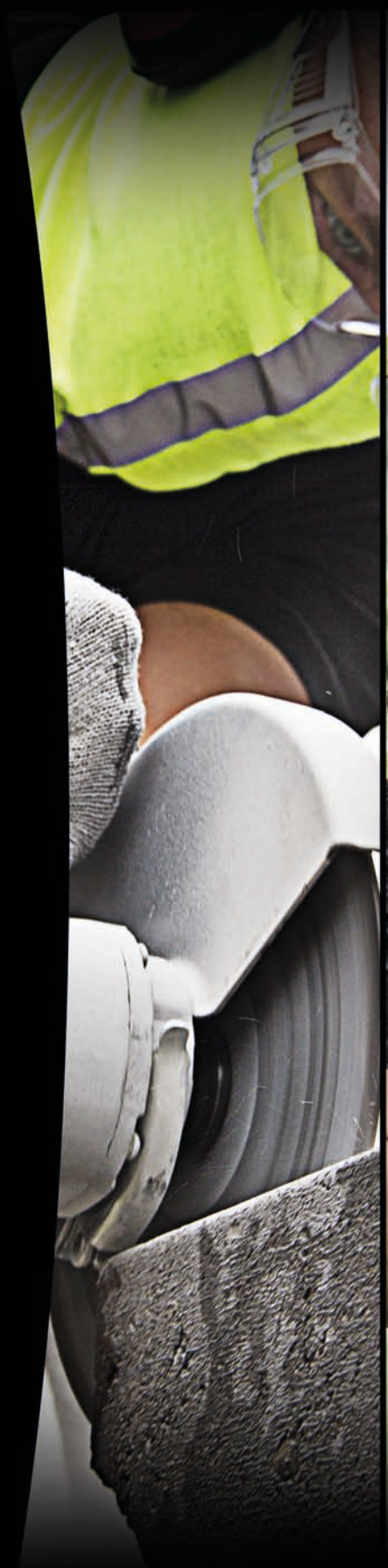
Code	Pane height (mm)	
L1520700	180	10/40

ZAŠČITA DIHAL
ZAŠTITA DIHAL

absorber/apsorbers

polmaske/pola maske

maske/maske





1 MASKA ZA ZAŠČITO PRED PRAHOM FFP1

- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE
- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200100	5	x	100

2 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP1

- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM
- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200200	3	x	100

3 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP1

- MASKA FFP1 ZA ZAŠTITU OD PRAŠINE S VENTILOM
- MASKA FFP1 ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1200600	5	x	150

4 MASKA ZA ZAŠČITO PRED PRAHOM Z AKTIVNIM OGLJEM FFP1

- MASKA FFP1 ZA ZAŠTITU OD PRAŠINE SA SLOJEM AKTIVNOG UGLJENA
- MASKA FFP1 ZA ZAŠTITU OD PRAŠINE SA SLOJEM AKTIVNOG UGLJENA

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. The activated carbon layer reduces the adverse effects related to odours. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L120090S	1	x	200

5 MASKA ZA ZAŠČITO PRED PRAHOM FFP2

- FFP2 MASKA ZA ZAŠTITU OD PRAŠINE
- FFP2 MASKA ZA ZAŠTITU OD PRAŠINE

FFP2



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 10 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200300	5	x	100

6 MASKA ZA ZAŠITO PRED PRAHOM Z VENTILOM FFP2

- FFP2 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM
- FFP2 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP2



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 10 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200400	3	x	100

1 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP2

- MASKA FFP2 ZA ZAŠTITU OD PRAŠINE S VENTILOM
- MASKA FFP2 ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP2



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 10 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1200700	5	x	150

2 MASKA ZA ZAŠČITO PRED PRAHOM Z AKTIVNIM OGLJEM FFP2

- MASKA FFP2 ZA ZAŠTITU OD PRAŠINE SA SLOJEM AKTIVNOG UGLJENA
- MASKA FFP2 ZA ZAŠTITU OD PRAŠINE SA SLOJEM AKTIVNOG UGLJENA

FFP2



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 10 x TLV. The activated carbon layer reduces the adverse effects related to odours. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1201005	5	x	200

3 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP3

- FFP3 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM
- FFP3 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP3



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 30 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face. The insert improves tightness.
- NORM: EN 149

Code	Quantity per package		
L120050S	1	x	140

4 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP3

- FFP3 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM
- FFP3 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP3



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 30 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L120080S	1	x	200

5 MASKA ZA ZAŠČITO PRED PRAHOM FFP1

- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE BEZ VENTILA
- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE BEZ VENTILA

FFP1



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
46006	5	x	100

6 MASKA ZA ZAŠČITO PRED PRAHOM Z VENTILOM FFP1

- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM
- FFP1 MASKA ZA ZAŠTITU OD PRAŠINE S VENTILOM

FFP1



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

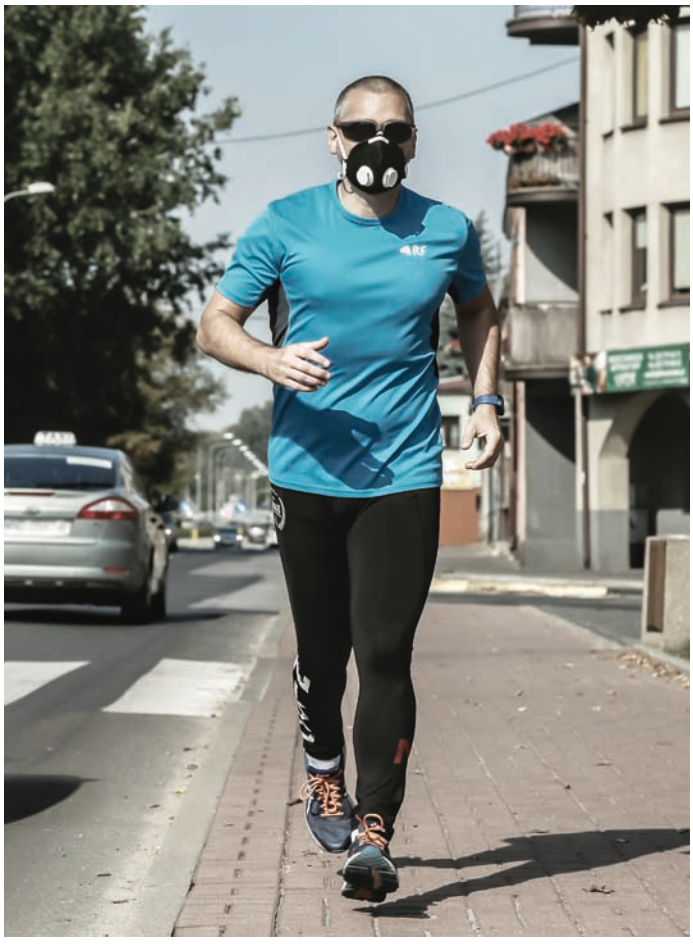
Code	Quantity per package		
46007	3	x	100

LAHTI PRO

1 POLMASKA ZA ZAŠČITO PRED DIMOM Z AKTIVNIM OGLJEM - 2 VENTILA

• MASKA ZA ZAŠTITU OD DIMA PREKO POLA LICA S DVA VENTILA I SLOJEM AKTIVNOG UGLJENA
• MASKA ZA ZAŠTITU OD DIMA PREKO POLA LICA S DVA VENTILA I SLOJEM AKTIVNOG UGLJENA





- MATERIAL: Non-woven fabric with active carbon.
- Foldable mask design makes them easy to store. Multi-layer filter provides respiratory protection. A nose clip and polyurethane foam gasket guarantee comfortable use. Two valves makes exhaling easier. Headbands made of rubber threads in a braid ensure perfect adhesion of the mask to the face. Headband holders allow smooth adjustment.

Code	Quantity per package	
46008	1	200

2 SILIKONSKA POLMASKA "EURMASK"

• SILIKONSKA POLUMASKA „EURMASK" • SILIKONSKA POLUMASKA „EURMASK"



Kat. III
Cat. III
CE

- MATERIAL: silicon
- High comfort of work and good fit to the user's face in workplaces with gas, vapour and mist hazard. After combining with appropriate absorbers or filtering absorbers with diameter 70 mm it can be used for protecting respiratory tract against hazardous chemicals.
  Application:
  - With absorbers 46055 - A1 - organic vapours up to the concentration of 0.1% in air, 46058 - A1B1E1K1 - any other gases up to the concentration of 0.1% in air
  - With filtering absorbers 46056 - A1P2 - organic vapours up to the concentration of 0.1% in air and dusts up to 10 X TLV. Easy operation. Absorbers not included. Half-masks are permitted only when the oxygen concentration in the air is not lower than 17% of the volume.
- NORM: EN 149

Code	Type	
46063	two absorbers	16

3 ABSORBERJI ZA POLMASKE "EURMASK"

• APSORBERI ZA POLUMASKE „EURMASK"
• APSORBERI ZA POLUMASKE „EURMASK"



Kat. III
Cat. III
CE

- A1 - vapours and gases of organic substances
  B1 - vapours and gases of inorganic substances
  E1 - acid vapours
  K1 - vapours of ammonium hydroxide and its organic derivatives
  P2 - dust, smoke and mist - class 2 - longer lifecycle
  ABEK - mixtures of toxic gases and vapours (multi-gas)
  In the set of 2. 46058 - EN 14387 standard.
- NORM: EN 149, EN 14387

Code	Typ	
46055	A1	4/64
46056	A1, P2	4/64
46058	A1, B1, E1, K1 (ABEK)	4/64

DELO NA VIŠINI
RAD NA VISINI



konektorji/konektori

varnostni pasovi/sigurnosni pojasi

samozavorne naprave/samobokirajući uređaj

kovinske kljuke/čelične kuke

1 VARNOSTNI PAS

• UPRTAČI • SIGURNOSNI POJASEVI



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Two front textile catches. A belt for guided harness hanging with side clamps. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010300	x	15

2 VARNOSTNI PAS

• UPRTAČI • SIGURNOSNI POJASEVI



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Two front textile catches. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010200	x	40

3 VARNOSTNI PAS

• UPRTAČI • SIGURNOSNI POJASEVI



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010100	x	40

4 SET ZA DELO NA VIŠINI

• SET ZA RAD NA VISINI • SET ZA RAD NA VISINI



Kat. III
Cat. III

- MATERIAL: polyester
- The set includes: Safety harness L8010200: the rear back catch in the form of a metal clamp. Two front textile catches. Adjustable breast strap and thigh straps. Safety shock absorber L8020100: length: 1.5 m, tape endings stitched together and covered with a protective sleeve. Steel snaphooks with a lock L8050100, 2 pieces: maximum opening: 18 mm. With a locking nut.
- NORM: EN 361, EN 362, EN 355

Code		
L8060100	x	25

5 SAMOZAVORNA NAPRAVA

• SAMOBLOKIRAJUĆI UREĐAJ • SAMOBLOKIRAJUĆI UREĐAJ



Kat. III
Cat. III

- Working length: 6 m. Finished with a snaphook with a lock on the fixing eye side and with a revolving hook on the opposite side. Integrated locking mechanism.
- NORM: EN 360

Code	
L8040300	10

6 SAMOZAVORNA NAPRAVA

• SAMOBLOKIRAJUĆI UREĐAJ • SAMOBLOKIRAJUĆI UREĐAJ



Kat. III
Cat. III

- Working length: 2.5 m. Finished with steel snaphooks with a lock. With a safety shock absorber. Integrated locking mechanism.
- NORM: EN 360

Code	
L8040200	20

1 VARNOSTNI BLAŽILNIK PADCA Z DVOJNO OBJEMKO

• SIGURNOSNI UBLAŽIVAČ PADA S DVOSTRUKOM STEZALJKOM • SIGURNOSNI UBLAŽIVAČ PADA S DVOSTRUKOM STEZALJKOM



Kat. III Cat. III CE

- MATERIAL: polyester
- Length: 1.75 m. Lanyard endings with steel snaphooks. Lanyard loops with extra eyelets protecting from abrasion. Finished with a steel snaphook with a lock on the shock absorber side.
- NORM: EN 355

Code	
L8020200	10

2 VARNOSTNI BLAŽILNIK S PASOM

• SIGUNOSTNI UBLAŽIVAČ PADA S POJASOM • SIGURNOSNI UBLAŽIVAČ PADA S POJASOM



Kat. III Cat. III CE

- MATERIAL: polyester
- Length: 1.75 m. Endings with steel snaphooks. Lanyard loops with eyelets protecting from abrasion.
- NORM: EN 355

Code	
L8020300	20

3 BLAŽILEC PADCA

• UBLAŽIVAČ PADA • UBLAŽIVAČ PADA



Kat. III Cat. III CE

- MATERIAL: polyester
- Length: 1.5 m. Tape endings stitched together and covered with a protective sleeve.
- NORM: EN 355

Code	
L8020100	50

4 VRV ZA PODPORO PRI DELU

• VRPAC ZA PODRŠKU RADA • VRPAC ZA PODRŠKU RADA



Kat. III Cat. III CE

- MATERIAL: polyester
- Adjustable length: 0.85 m–1.35 m. Lanyard ending with an eyelet protecting from abrasion.
- NORM: EN 358

Code	
L8030100	50

5 POVEZOVALNE VRVI

• POVEZNI KONOPI
• POVEZNI KONOPI



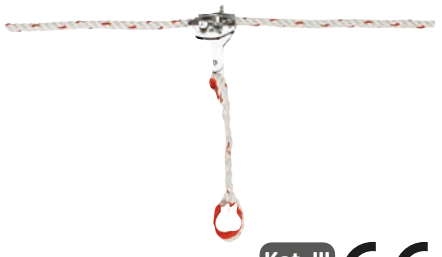
Kat. III Cat. III CE

- MATERIAL: polyester
- Rope endings with eyelets protecting from abrasion.
- NORM: EN 353-2

Code	Length (m)	
L8030210	10	20
L8030220	20	10

6 SAMOZAVORNA NAPRAVA

• SAMOBLOKIRAJUĆI UREĐAJ • SAMOBLOKIRAJUĆI UREĐAJ



Kat. III Cat. III CE

- MATERIAL: polyester
- With a rope for connecting with the user's harness. Lever with automatic locking system. To be used with connection lanyards dia. 14 mm (L8030210, L8030220).
- NORM: EN 353-2

Code	
L8040100	30

7 KOVINSKA KLJUKA Z BLOKADO

• ČELIČNA KUKA S BLOKADOM
• ČELIČNA KUKA S BLOKADOM



Kat. III Cat. III CE

- MATERIAL: steel
- Maximum opening: 18 mm. With a locking nut.
- NORM: EN 362

Code	
L8050100	150

ZAŠČITA ROK
ZAŠTITA RUKU





rokavice/rukavice:

anti-vibracijske/
anti-ibracioni

antistatične/antistatički

bombažne/iz pamuka

iz kravjega usnja/od
kravlje kože

za enkratno uporabo/za
jednokratnu upotrebu

s pikami/s točkama

s kozjim usnjem/s kozjom
kožom

nedrseče/non-slip

podložene/podložene

ojačane/pojačan

umetno usnje/umjetna
koža

varjenje/za zavarivanje

za delavnice/za radionice

in ostale/i drugi

1 ODSEVNE ZAŠČITNE ROKAVICE S PVC OJAČANJEM

- REFLEKTIRAJUĆE ZAŠTITNE RUKAVICE S PVC OJAČANJEM
- REFLEKTIRAJUĆE ZAŠTITNE RUKAVICE S PVC POJAČANJEM



- MATERIAL: PVC, microfibre, elastane, reflective fabric, neoprene.
- The top made from flexible fabric ensures perfect fit to hands. Reflective fabric on the fingers improves the user's visibility. Multiple PVC reinforcements on the grip part, fingers and thumb protect from abrasion. Terry on the thumb collects perspiration. Long, flexible cuff with a Velcro fastening ensures safety and comfort of use.
- NORM: EN 420

Size	Code		
9 (L)	**L280709K**	x	10/100
10 (XL)	**L280710K**	x	10/100
11 (2XL)	**L280711K**	x	10/100

2 ZAŠČITNE ROKAVICE PREVLEČENE Z NEDRSEČIM SLOJEM

- ZAŠTITNE RUKAVICE PRESVUČENE NEKLIZAJUĆIM SLOJEM
- ZAŠTITNE RUKAVICE PRESVUČENE NEKLIZAJUĆIM SLOJEM



- MATERIAL: polyester, nylon, elastane, microfibre, silicone
- Silicone mesh on the glove palm improves comfort of work with slippery objects. SBR pads protect from corns and vibrations. Flexible elastane layers ensure perfect fit to the hand. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280108K**	x	10/100
9 (L)	**L280109K**	x	10/100
10 (XL)	**L280110K**	x	10/100
11 (2XL)	**L280111K**	x	10/100



LAHTI PRO

1 ZAŠČITNE ROKAVICE PREVLEČENE Z NEDRSEČIM SILIKONSKIM SLOJEM

• ZAŠTITNE RUKAVICE PRESVUČENE NEKLIZAJUĆIM SILIKONSKIM SLOJEM
• ZAŠTITNE RUKAVICE PRESVUČENE NEKLIZAJUĆIM SILIKONSKIM SLOJEM



- MATERIAL: microfibre, polyester, nylon, silicone
- The top made from flexible fabric ensures perfect fit. Silicone pattern on the glove palm improves comfort of work with slippery objects. PVC reinforcement on the index finger protects from abrasion. Reflective material on the top improves the user's visibility. Flexible cuff with a Velcro fastening ensures comfort of use.
- NORM: EN 420

Size	Code		
8 (M)	**L281108K**	x	10/100
9 (L)	**L281109K**	x	10/100
10 (XL)	**L281110K**	x	10/100
11 (2XL)	**L281111K**	x	10/100

2 ZAŠČITNE ROKAVICE S PVC PODLOGO

• ZAŠTITNE RUKAVICE S PVC PODSTAVOM • ZAŠTITNE RUKAVICE S PVC PODSTAVOM



- MATERIAL: microfibre, elastane, PVC, neoprene
- Additional PVC reinforcements on fingertips and part of index finger and thumb prevent rapid wear of the glove. The top made from flexible elastane ensures perfect fit. Thick, soft PVC pad protects from corns and vibrations, and prevents excess wear of the grip part. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
9 (L)	**L280809K**	x	10/100
10 (XL)	**L280810K**	x	10/100
11 (2XL)	**L280811K**	x	10/100

3 ZAŠČITNE ROKAVICE VISOKO VIDLJIVE S PODLOGO ODPORNO NA DRSENJE

• ZAŠTITNE RUKAVICE VISOKE VIDLJIVOSTI S PODSTAVOM OTPORNOM NA KLIZANJE
• ZAŠTITNE RUKAVICE VISOKE VIDLJIVOSTI S PODSTAVOM OTPORNOM NA KLIZANJE



- MATERIAL: microfibre, elastane
- The top of the glove, made from flexible elastane with improved visibility, ensures perfect fit to the hand and increases the user's visibility. Reinforcements on the grip part protect from excess wear. Soft pad on the grip part protects from corns and vibrations. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280508K**	x	6/72
9 (L)	**L280509K**	x	6/72
10 (XL)	**L280510K**	x	6/72
11 (2XL)	**L280511K**	x	6/72

4 ZAŠČITNE ROKAVICE - PVC OJAČANE

• ZAŠTITNE RUKAVICE PVC OJAČANE • ZAŠTITNE RUKAVICE PVC OJAČANE



- MATERIAL: Mikrofibra, PVC, elastan, poliester, neopren.
- The top of the glove, made from flexible elastane, ensures perfect fit to the hand. Reinforcements on the grip part protect from excess wear. Terry on the thumb collects perspiration.
- NORM: EN 420

Size	Code		
9 (L)	**L280909K**	x	6/72
10 (XL)	**L280910K**	x	6/72
11 (2XL)	**L280911K**	x	6/72

1 ZAŠČITNE ROKAVICE - PVC

• ZAŠTITNE RUKAVICE - PVC • ZAŠTITNE RUKAVICE - PVC



- MATERIAL: polyester, cotton, elastane, neoprene, PVC
- The glove palm, with rough surface, ensures perfect grip. The top of the glove, made from flexible fabric, ensures perfect fit to the hand. Terry on the thumb collects perspiration. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L281008K**	x	6/60
9 (L)	**L281009K**	x	6/60
10 (XL)	**L281010K**	x	6/60
11 (2XL)	**L281011K**	x	6/60

2 ZAŠČITNE ROKAVICE VISOKO VIDLJIVE

• ZAŠTITNE RUKAVICE VISOKE VIDLJIVOSTI
• ZAŠTITNE RUKAVICE VISOKE VIDLJIVOSTI



- MATERIAL: microfibre, elastane, polyester
- The top of the glove is made from high-visibility fabric. Ventilated microfibre on the fingers ensures air circulation inside the glove. Flexible cuff with a velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280308K**	x	6/72
9 (L)	**L280309K**	x	6/72
10 (XL)	**L280310K**	x	6/72
11 (2XL)	**L280311K**	x	6/72

3 ZAŠČITNE ROKAVICE Z DVEMA PRSTOMA S PODLOGO ODPORNO NA DRSENJE

• ZAŠTITNE RUKAVICE S DVA PRSTA S PODSTAVOM OTPORNOM NA KLIZANJE
• ZAŠTITNE RUKAVICE S DVA PRSTA S PODSTAVOM OTPORNOM NA KLIZANJE



- MATERIAL: microfibre, elastane
- Soft pad on the grip part protects from corns and vibrations. The top of the glove, made from flexible elastane, prevents hand sweating and ensures perfect fit. Open finger tips offer high manual dexterity, enabling the user to do high-precision works and feel the object held. The insets on the tips of middle fingers make it easier to remove the glove. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L281208K**	x	6/72
9 (L)	**L281209K**	x	6/72
10 (XL)	**L281210K**	x	6/72
11 (2XL)	**L281211K**	x	6/72

4 ZAŠČITNE ROKAVICE BEZ PRSTOV S PODLOGO ODPORNO NA DRSENJE

• ZAŠTITNE RUKAVICE BEZ PRSTIJU S PODSTAVOM OTPORNOM NA KLIZANJE
• ZAŠTITNE RUKAVICE BEZ PRSTIJU S PODSTAVOM OTPORNOM NA KLIZANJE



- MATERIAL: microfibre, elastane
- Open finger tips enable the user to feel the object held and do high-precision works. The top of the glove, made from flexible elastane, ensures perfect fit. Ventilated microfibre on the fingers ensures air circulation inside the glove. The insets on the tips of middle fingers make it easier to remove the glove. Soft, reinforced pad on the grip part protects from corns and vibrations. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280608K**	x	6/72
9 (L)	**L280609K**	x	6/72
10 (XL)	**L280610K**	x	6/72
11 (2XL)	**L280611K**	x	6/72

1 ZAŠČITNE ROKAVICE - UMETNI MATERIAL

• ZAŠTITNE RUKAVICE OD UMJETNOG MATERIJALA • ZAŠTITNE RUKAVICE OD UMJETNOG MATERIJALA



Kat. I Cat. I CE

- MATERIAL: microfibre, elastane
- Single-piece gripping part increases the glove's durability.
- NORM: EN 420

Size	Code		
8 (M)	**L271508K**	x	12/120
9 (L)	**L271509K**	x	12/120
10 (XL)	**L271510K**	x	12/120
11 (2XL)	**L271511K**	x	12/120

2 ZAŠČITNE ROKAVICE - UMETNI MATERIAL

• ZAŠTITNE RUKAVICE OD UMJETNOG MATERIJALA • ZAŠTITNE RUKAVICE OD UMJETNOG MATERIJALA



Kat. I Cat. I CE

- MATERIAL: microfibre, elastane
- Single-piece gripping part increases the glove's durability. Wide cuff provides additional wrist protection.
- NORM: EN 420

Size	Code		
7 (S)	**L271407K**	x	12/120
8 (M)	**L271408K**	x	12/120
9 (L)	**L271409K**	x	12/120



1 ZAŠČITNE ROKAVICE - SVINJSKO USNJE

• ZAŠTITNE RUKAVICE - SVINJSKA KOŽA • ZAŠTITNE RUKAVICE - SVINJSKA KOŽA



Kat. I
Cat. I

- MATERIAL: pigskin, microfibre, elastane, polyester, neoprene
- The top of the glove, made from flexible elastane, ensures perfect fit. Ventilated microfibre on the fingers ensures air circulation inside the glove. Double layer of leather on the part of thumb prevents rapid wear. The grip part made from a single leather piece increases the glove durability. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
9 (L)	**L280409K**	x	10/100
10 (XL)	**L280410K**	x	10/100
11 (2XL)	**L280411K**	x	10/100

2 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I
Cat. I

- MATERIAL: goatskin, cotton elastane
- The grip part made from a single leather piece increases glove durability. The top made from elastic material ensures perfect fit to the hand. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L270808K**	x	12/120
9 (L)	**L270809K**	x	12/120
10 (XL)	**L270810K**	x	12/120
11 (2XL)	**L270811K**	x	12/120

3 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I
Cat. I

- MATERIAL: goatskin, cotton, elastane
- Single-piece leather grip increases the glove's durability. Inserts of high-visibility material. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L271808K**	x	12/120
9 (L)	**L271809K**	x	12/120
10 (XL)	**L271810K**	x	12/120
11 (2XL)	**L271811K**	x	12/120

4 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA

EN 388
2123x



Kat. II
Cat. II

- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability. Elastic cuff with Velcro ensures comfort.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L270208K**	x	12/120
9 (L)	**L270209K**	x	12/120
10 (XL)	**L270210K**	x	12/120
11 (2XL)	**L270211K**	x	12/120

1 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I
Cat. I

- MATERIAL: goatskin, cotton
- The grip part made from a single leather piece increases glove durability. Elastic cuff with Velcro ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L270608K**	x	12/120
9 (L)	**L270609K**	x	12/120
10 (XL)	**L270610K**	x	12/120
11 (2XL)	**L270611K**	x	12/120

2 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA

EN 388
2123x



Kat. II
Cat. II

- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L270708K**	x	12/120
9 (L)	**L270709K**	x	12/120
10 (XL)	**L270710K**	x	12/120
11 (2XL)	**L270711K**	x	12/120

3 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I
Cat. I

- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability.
- NORM: EN 420

Size	Code		
8 (M)	**L271608K**	x	12/120
9 (L)	**L271609K**	x	12/120
10 (XL)	**L271610K**	x	12/120
11 (2XL)	**L271611K**	x	12/120



1 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE OD KOZJE KOŽE • ZAŠTITNE RUKAVICE OD KOZJE KOŽE



Kat. I Cat. I CE

- MATERIAL: goatskin
- Gloves made entirely from leather are more durable. A wrist cuff ensures high work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L271008K**	x	12/120
9 (L)	**L271009K**	x	12/120
10 (XL)	**L271010K**	x	12/120
11 (2XL)	**L271011K**	x	12/120

2 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE OD KOZJE KOŽE • ZAŠTITNE RUKAVICE OD KOZJE KOŽE



Kat. I Cat. I CE

- MATERIAL: goatskin
- Gloves made entirely from leather are more durable. Ended with a cuff with extra wrist protection made from leather.
- NORM: EN 420

Size	Code		
8 (M)	**L271108K**	x	12/120
9 (L)	**L271109K**	x	12/120
10 (XL)	**L271110K**	x	12/120
11 (2XL)	**L271111K**	x	12/120

3 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I Cat. I CE

- MATERIAL: goatskin, cotton
- Single-piece leather grip increases the glove's durability. Finished with a welt.
- NORM: EN 420

Size	Code	
8 (M)	**L271708W**	10
9 (L)	**L271709W**	10
10 (XL)	**L271710W**	10
11 (2XL)	**L271711W**	10

12 pairs in a pack.

4 ZAŠČITNE ROKAVICE - KOZJE USNJE

• ZAŠTITNE RUKAVICE - KOZJA KOŽA • ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I Cat. I CE

- MATERIAL: goatskin, cotton
- The grip part made from a single leather piece increases glove durability. Stiffened cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code		
10 (XL)	**L270910K**	x	12/120

1 ZAŠČITNE ROKAVICE - GOVEJE USNJE

• ZAŠTITNE RUKAVICE - KRAVLJA KOŽA • ZAŠTITNE RUKAVICE - KRAVLJA KOŽA





Kat. I
Cat. I

- MATERIAL: split cowhide, cotton
- The grip part made from a single leather piece increases glove durability. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code		
10 (XL)	**L270110K**	x	12/120

2 ZAŠČITNE ROKAVICE - GOVEJE USNJE

• ZAŠTITNE RUKAVICE - KRAVLJA KOŽA • ZAŠTITNE RUKAVICE - KRAVLJA KOŽA



Kat. I
Cat. I

- MATERIAL: split cowhide, cotton
- Stitched glove grip part. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code	
10 (XL)	**L270510W**	10

12 pairs in a pack.



3 ZAŠČITNE ROKAVICE - GOVEJE USNJE

• ZAŠTITNE RUKAVICE - KRAVLJA KOŽA
• ZAŠTITNE RUKAVICE - KRAVLJA KOŽA



Kat. I
Cat. I

- MATERIAL: cowhide, cotton
- Stitched contact part. Leather cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code	
10 (XL)	**L271310W**	10

12 pairs in a pack.

1 ZAŠČITNE ROKAVICE

• ZAŠTITNE RUKAVICE • SIGURNOSNE RUKAVICE



Kat. I Cat. I CE

- MATERIAL: full-grain leather, cotton
- Stitched grip part of the glove. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code		
10 (XL)	**L271210W**	x	10

12 pairs in a pack.

2 ROKAVICE ZA VARJENJE

• RUKAVICE ZA ZAVARIVANJE • RUKAVICE ZA ZAVARIVANJE

NIĆ NIEPALNA NON-FLAMMABLE THREAD

EN 407 423x4x

EN 388 3244



Kat. II Cat. II CE

- MATERIAL: split cowhide, cotton
- Glove length 35 cm. The grip part made from a single leather piece. High comfort of work and improved thermal insulation thanks to the inner lining. Non-flammable thread on the seams increases glove resistance to heat. High resistance to chafing, tearing and piercing (resistance level 4) . High resistance to flame, convection heat and small splinters of melted metal (resistance level 4). Application: welding.
- NORM: EN 420, EN 407, EN 388, EN12477-A

Size	Code		
11 (2XL)	**L270311K**	x	12/60

3 ROKAVICE ZA VARJENJE

• RUKAVICE ZA ZAVARIVANJE • RUKAVICE ZA ZAVARIVANJE

NIĆ NIEPALNA NON-FLAMMABLE THREAD

EN 407 412x3x

EN 388 2132x



Kat. II Cat. II CE

- MATERIAL: goatskin, cowhide
- Glove length 35 cm. Single-piece leather grip increases the glove's durability. Non-flammable thread at the seams improves the glove's resistance to high temperatures. High ignition resistance (level 4 resistance). Finished with a welt. Application: Welding
- NORM: EN 420, EN 407, EN388, EN12477-A

Size	Code		
10 (XL)	**L271910K**	x	12/120

4 ROKAVICE ZA VARJENJE

• RUKAVICE ZA ZAVARIVANJE • RUKAVICE ZA ZAVARIVANJE

EN 407 413x4x

EN 388 3133



Kat. II Cat. II CE

- MATERIAL: split cowhide, cotton
- Glove length 35 cm. The grip part made from a single leather piece. High resistance to flame, convection heat and small splinters of melted metal (resistance level 4). Application: welding.
- NORM: EN 420, EN 407, EN 388, EN12477-A

Size	Code		
11 (2XL)	**L270411K**	x	12/60

1 ZAŠČITNE ROKAVICE PRED UREZNINAMI Z VERIGO

• RUKAVICE ZA ZAŠTITU PRED UREZOM LANČANE PILE • RUKAVICE ZA ZAŠTITU PRED UREZOM LANČANE PILE

EN 388 2122

EN 381-7 Klasa 1 Wzór A



Kat. III Cat. III CE

- MATERIAL: cow leather, polyamide
- Cut-proof insert on the left glove top prevents cutting with the chain saw moving at 20 m/s. The grip part made from a single leather piece increases glove durability. Extra leather reinforcement on the grip part prevents rapid wear. Ended with a cuff. Application: chainsaw use.

IMPORTANT: Only the left glove has the said protection from chainsaw cutting on its upper part. The cut-proof insert does not protect the left hand thumb and fingers.

- NORM: EN 388, EN 381-7

Size	Code		
10 (XL)	**L290210K**	x	10/50
11 (2XL)	**L290211K**	x	10/50

2 ANTI - VIBRACIJSKE ZAŠČITNE ROKAVICE

• ANTI - VIBRACIJSKE ZAŠTITNE RUKAVICE • ANTI - VIBRACIJSKE ZAŠTITNE RUKAVICE

EN 388 4142

ANTI-VIBRATION





Kat. II Cat. II CE

- MATERIAL: polyester, rubber
- The grip part of the glove with rubber pads to reduce vibration. High resistance to chafing and tearing (resistance level 4).
- NORM: EN 420, EN 388, EN ISO 10819

Size	Code		
10 (XL)	**L290110K**	x	12/60

3 BOMBAŽNE ZAŠČITNE ROKAVICE

• PAMUČNE ZAŠTITNE RUKAVICE • PAMUČNE ZAŠTITNE RUKAVICE

100% COTTON



Kat. I Cat. I CE

- MATERIAL: cotton
- Elastic and stretchy, fit the hand perfectly. Ensure high manual abilities and perfect feel of the object kept in hand. Perfect for use inside other gloves. Finished with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L290308W**	25
9 (L)	**L290309W**	25
10 (XL)	**L290310W**	25
11 (2XL)	**L290311W**	25

12 pairs in a pack.



1 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX

EN 388 2241



Kat. II Cat. II CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. High-quality knitwear - weave 10. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code	
8 (M)	**L210208W**	10
9 (L)	**L210209W**	10
10 (XL)	**L210210W**	10
11 (2XL)	**L210211W**	10

Size	Code		
9 (L)	**L210209K**		12/120

L210208W-L210211W 12 pairs in a pack.
L210209K 1 pair on a card.

2 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, cotton, latex.
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L210308W**	10
9 (L)	**L210309W**	10
10 (XL)	**L210310W**	10
11 (2XL)	**L210311W**	10

Size	Code		
9 (L)	**L210309K**		12/120

L210308W-L210311W 12 pairs in a pack.
L210309K 1 pair on a card.

3 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX

EN 388 4141



Kat. II Cat. II CE

- MATERIAL: nylon, polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. High resistance to chafing, tearing and piercing (resistance level 4). Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code	
7 (S)	**L210407W**	10
8 (M)	**L210408W**	10
9 (L)	**L210409W**	10
10 (XL)	**L210410W**	10

Size	Code		
9 (L)	**L210409K**		12/120

L210407W-L210410W 12 pairs in a pack.
L210409K 1 pair on a card.

4 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: nylon, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L211207W**	20
8 (M)	**L211208W**	20
9 (L)	**L211209W**	20
10 (XL)	**L211210W**	20
11(2XL)	**L211211W**	20

Size	Code		
9 (L)	**L211209K**		12/240
10 (XL)	**L211210K**		12/240

L211207W-L211211W 12 pairs in a pack.
L211209K, L211210K 1 pair on a card.

5 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L210507W**	20
8 (M)	**L210508W**	20
9 (L)	**L210509W**	20
10 (XL)	**L210510W**	20

Size	Code		
9 (L)	**L210509K**		12/120

L210507W-L210510W 12 pairs in a pack.
L210509K 1 pair on a card.

6 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
9 (L)	**L211109W**	20
10 (XL)	**L211110W**	20

12 pairs in a pack.

1 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX





Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with a porous latex foam with a structure that increases resistance to abrasion and tears, and increases adhesion. Flexible and stretchable - ensure very good grip and high work comfort. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L211507K**	x	12/120
8 (M)	**L211508K**	x	12/120
9 (L)	**L211509K**	x	12/120

2 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, cotton, latex
- Coated with a thick layer of porous latex, improving resistance to chafing and tearing and increasing grip. Additional thick latex surface on the top of the glove protects the metacarpal bones from abrasion. Ended with a cuff.
- NORM: EN 420

Size	Code	
10 (XL)	**L210910W**	10

Size	Code		
10 (XL)	**L210910K**		12/120

L210910W 12 pairs in a pack.
L210910K 1 pair on a card.

3 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX



Kat. I Cat. I CE

- MATERIAL: cotton, polyester, latex
- Coated with latex, improving resistance to chafing and tearing. Ended with a cuff. Called "latex-dipped" gloves.
- NORM: EN 420

Size	Code	
9 (L)	**L210609W**	50

12 pairs in a pack.

4 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM
- ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

LATEX





Kat. I Cat. I CE

- MATERIAL: cotton, polyester, latex
- Coated with latex on the grip part and half of the top. Porous surface ensures improved grip. Ended with a cuff.
- NORM: EN 420

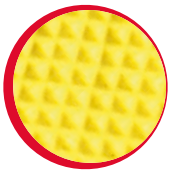
Size	Code	
10 (XL)	**L211410W**	10

12 pairs in a pack.

5 GOSPODINJSKE ROKAVICE

- KUĆANSKE RUKAVICE
- KUĆANSKE RUKAVICE

FLOCK-COVERED
LATEX
NON-SLIP SURFACE







Kat. I Cat. I CE

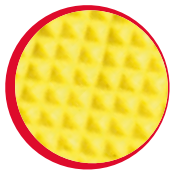
- MATERIAL: latex
- Rough, non-slip surface ensures improved grip. Flock inside to facilitate glove putting on and taking off.
- NORM: EN 420

Size	Code		
8 (M)	**L211008K**	x	12/240
9 (L)	**L211009K**	x	12/240

6 GOSPODINJSKE ROKAVICE

- KUĆANSKE RUKAVICE
- KUĆANSKE RUKAVICE

FLOCK-COVERED
LATEX







Kat. I Cat. I CE

- MATERIAL: latex
- Rough grip surface ensures improved grip. Flock inside to facilitate glove putting on and taking off.
- NORM: EN 420

Size	Code		
8 (M)	**L211308K**	x	12/240
9 (L)	**L211309K**	x	12/240
10 (XL)	**L211310K**	x	12/240

1 TERMO ZAŠČITNE ROKAVICE - KOZJE USNJE

• TERMO ZAŠTITNE RUKAVICE - KOZJA KOŽA • TERMO ZAŠTITNE RUKAVICE - KOZJA KOŽA



Kat. I
Cat. I

- MATERIAL: goatskin, cotton, polyester
- The contact part made from a single leather piece increases the glove durability. Fleece lining protects the user from cold and ensures higher work comfort. Stiffened cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code		
10 (XL)	**L250610K**	x	12/120

2 PODLOŽENE ZAŠČITNE ROKAVICE

• PODSTAVLJENE ZAŠTITNE RUKAVICE • PODSTAVLJENE ZAŠTITNE RUKAVICE



Kat. I
Cat. I

- MATERIAL: goatskin, elastane, polyester.
- Single-piece gripping part increases the durability of the glove. Top surface part of the glove made from an elastic fabric assures a perfect fit to the hand. Fleece lining protects the user against cold and increases work comfort. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L251208K**	x	12/120
9 (L)	**L251209K**	x	12/120
10 (XL)	**L251210K**	x	12/120
11 (2XL)	**L251211K**	x	12/120

3 PODLOŽENE ZAŠČITNE ROKAVICE

• PODSTAVLJENE ZAŠTITNE RUKAVICE • PODSTAVLJENE ZAŠTITNE RUKAVICE



Kat. I
Cat. I

- MATERIAL: polyurethane, elastane, polyester
- The contact part made from a single piece increases the glove durability. The outer surface of the glove, made from high-visibility flexible material, ensures perfect fit to the hand. A reflective component along the index finger improves the user's visibility. Fleece lining protects the user from cold and ensures higher work comfort. A wrist cuff ensures high work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L250708K**	x	12/120
9 (L)	**L250709K**	x	12/120
10 (XL)	**L250710K**	x	12/120
11 (2XL)	**L250711K**	x	12/120

4 PODLOŽENE ZAŠČITNE ROKAVICE

• PODSTAVLJENE ZAŠTITNE RUKAVICE • PODSTAVLJENE ZAŠTITNE RUKAVICE



Kat. I
Cat. I

- MATERIAL: polyurethane, elastane, polyester
- Single-piece gripping part increases the glove's durability. Top surface of the glove made from a high-visibility fabric also assures a perfect fit. A reflective element along the index finger increases the user's visibility. Fleece lining protects the user against cold and increases work comfort. Wrist welt provides good work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L250908K**	x	12/120
9 (L)	**L250909K**	x	12/120
10 (XL)	**L250910K**	x	12/120
11 (2XL)	**L250911K**	x	12/120

1 PODLOŽENE ZAŠČITNE ROKAVICE

• PODSTAVLJENE ZAŠTITNE RUKAVICE • PODSTAVLJENE ZAŠTITNE RUKAVICE



Kat. I
Cat. I

- MATERIAL: polyurethane, elastane, polyester
- Single-piece gripping part increases the glove's durability. Top surface part of the glove made from an elastic fabric assures a perfect fit. Fleece lining protects the user against cold and increases work comfort. A special insert between the insulation lining and the outer material limits water penetration inside the glove. A reflective element along the index finger increases the user's visibility. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L251108K**	x	12/120
9 (L)	**L251109K**	x	12/120
10 (XL)	**L251110K**	x	12/120
11 (2XL)	**L251111K**	x	12/120

2 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

UP TO -50°C PROTECTION AGAINST COLD
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



Kat. II
Cat. II

- MATERIAL: acrylic, latex
- Coated with porous latex, improving resistance to chafing and tearing and improving grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250108K**	x	12/120
9 (L)	**L250109K**	x	12/120
10 (XL)	**L250110K**	x	12/120
11 (2XL)	**L250111K**	x	12/120

3 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

UP TO -50°C PROTECTION AGAINST COLD
HI-VIS
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



Kat. II
Cat. II

- MATERIAL: acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250308K**	x	12/120
9 (L)	**L250309K**	x	12/120
10 (XL)	**L250310K**	x	12/120
11 (2XL)	**L250311K**	x	12/120

4 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

UP TO -50°C PROTECTION AGAINST COLD
HI-VIS
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



Kat. II
Cat. II

- MATERIAL acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250208K**	x	12/120
9 (L)	**L250209K**	x	12/120
10 (XL)	**L250210K**	x	12/120
11 (2XL)	**L250211K**	x	12/120

1 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

HI-VIS
LATEX
ACRYLIC PADDING



Kat. I
Cat. I

- MATERIAL: acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code		
8 (M)	**L250408K**	x	12/120
9 (L)	**L250409K**	x	12/120
10 (XL)	**L250410K**	x	12/120
11 (2XL)	**L250411K**	x	12/120

2 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

HI-VIS
LATEX
EXTRA THICK ACRYLIC PADDING



Kat. I
Cat. I

- MATERIAL: acrylic, latex
- Made of a material that increases visibility. Coated with a porous latex that increases resistance to abrasion and tears, while also increasing adhesion. They protect the user from the cold and increase work comfort. Finished with a welt.
- NORM: EN 420

Size	Code		
8 (M)	**L251008K**	x	12/120
9 (L)	**L251009K**	x	12/120
10 (XL)	**L251010K**	x	12/120
11 (2XL)	**L251011K**	x	12/120

3 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

HI-VIS
LATEX
POLYESTER PADDING



Kat. I
Cat. I

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L250508W**	10
9 (L)	**L250509W**	10
10 (XL)	**L250510W**	10
11 (2XL)	**L250511W**	10

Size	Code		
9 (L)	**L250509K**		12/120
10 (XL)	**L250510K**		12/120

L250508W-L250511W 12 pairs in a pack.
L250509K, L250510K 1 pair on a card.

4 ZAŠČITNE ROKAVICE PREVLEČENE Z LATEKSOM

• ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM • ZAŠTITNE RUKAVICE PRESVUČENE LATEKSOM

HI-VIS
LATEX
POLYESTER PADDING



Kat. I
Cat. I

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Elastic and flexible, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L250808W**	10
9 (L)	**L250809W**	10
10 (XL)	**L250810W**	10
11 (2XL)	**L250811W**	10

Size	Code		
9 (L)	**L250809K**		12/120
10 (XL)	**L250810K**		12/120

L250808W-L250811W 12 pairs in a pack.
L250809K, L250810K 1 pair on a card.

1 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM S POVEČANO ODPORNOSTJO NA UREZNINE

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM S POVEĆANOM OTPORNOŠĆU NA POREZOTINE
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM S POVEĆANOM OTPORNOŠĆU NA POSJEKOTINE

NITRILE

EN 388 4544

LEVEL 5 BLADE CUT RESISTANCE



Kat. II Cat. II CE

- MATERIAL: HDPE, glass fibre, nylon, elastane
- Made from a mixture of fibres offering utmost protection to blade cutting (resistance level 5). The grip part of the glove is coated with nitrile, increasing resistance to grease and oils. High resistance to abrasion, tear and piercing (resistance level 4).
- NORM: EN 420, EN 388

Size	Code		
9 (L)	**L200209K**	x	12/120
10 (XL)	**L200210K**	x	12/120
11 (2XL)	**L200211K**	x	12/120

2 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE

EN 388 4122



Kat. II Cat. II CE

- MATERIAL: polyamide, polyester, nitrile
- The grip part of the glove is coated with nitrile, increasing improved resistance to grease and oils. Nitrile coating with a special texture increases comfort of work with slippery objects. Elastic and stretchy, fit the hand shape perfectly. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L220608K**	x	12/120
9 (L)	**L220609K**	x	12/120
10 (XL)	**L220610K**	x	12/120
11 (2XL)	**L220611K**	x	12/120

3 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I Cat. I CE

- MATERIAL: nylon, elastane, nitrile.
- Nitrile coating on the gripping part and half of the upper. Foamed nitrile coating provides high breathability. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt
- NORM: EN 420

Size	Code		
7 (S)	**L221207K**	x	12/120
8 (M)	**L221208K**	x	12/120
9 (L)	**L221209K**	x	12/120
10 (XL)	**L221210K**	x	12/120
11 (2XL)	**L221211K**	x	12/120

4 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I Cat. I CE

- MATERIAL: nylon, elastane, nitrile
- Nitrile coating on the gripping part and half of the upper. Thin, foamed nitrile coating provides high breathability, good dexterity and a perfect feel for the held object. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt
- NORM: EN 420

Size	Code		
7 (S)	**L221307K**	x	12/120
8 (M)	**L221308K**	x	12/120
9 (L)	**L221309K**	x	12/120
10 (XL)	**L221310K**	x	12/120
11 (2XL)	**L221311K**	x	12/120

1 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I



- MATERIAL: nylon, elastane, nitrile
- Nitrile coating on the gripping part and half of the upper. Additional sprinkling of nitrile on the gripping part increases work comfort with slippery objects. Upper surface of the glove made from a high-visibility fabric. Foamed nitrile coating provides high breathability. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L221407K**	x	12/120
8 (M)	**L221408K**	x	12/120
9 (L)	**L221409K**	x	12/120
10 (XL)	**L221410K**	x	12/120
11 (2XL)	**L221411K**	x	12/120

2 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE

EN 388
4121





Kat. II
Cat. II

- MATERIAL: nylon, nitrile
- Coated with double nitrile layer on the contact surface and half of the outer part. Nitrile coating with a special texture increases comfort of work with slippery objects. High abrasion resistance (resistance level 4). Improved resistance to grease and oil. Finished with a cuff.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L221008K**	x	12/120
9 (L)	**L221009K**	x	12/120
10 (XL)	**L221010K**	x	12/120
11 (2XL)	**L221011K**	x	12/120

3 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: polyester, nitrile
- Coated with nitrile on the grip and top part, to ensure higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L220708W**	10
9 (L)	**L220709W**	10
10 (XL)	**L220710W**	10
11 (2XL)	**L220711W**	10

12 pairs in a pack.

4 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: polyester, nitrile
- Coated with nitrile on the contact surface and half of the outer part. Improved resistance to grease and oil. Finished with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L221108W**	10
9 (L)	**L221109W**	10
10 (XL)	**L221110W**	10
11 (2XL)	**L221111W**	10

12 pairs in a pack.

1 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: polyester, nitrile
- Coated with nitrile, ensuring higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L220307W**	20
8 (M)	**L220308W**	20
9 (L)	**L220309W**	20
10 (XL)	**L220310W**	20
11 (2XL)	**L220311W**	20

Size	Code		
9 (L)	**L220309K**		12/240
10 (XL)	**L220310K**		12/240

L220307W-L220311W 12 pairs in a pack.
L220309K, L220310K 1 pair on a card.

2 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE

EN 388
4111



Kat. II
Cat. II

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip surface and half of the top. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
9 (L)	**L220209W**	20
10 (XL)	**L220210W**	20

12 pairs in a pack.

3 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM
• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip surface and half of the top. Improved resistance to grease and oil.
- NORM: EN 420

Size	Code	
8 (M)	**L220108W**	20
9 (L)	**L220109W**	20
10 (XL)	**L220110W**	20

12 pairs in a pack.

4 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE

EN 388
4121x



Kat. II
Cat. II

- MATERIAL: cotton, polyester, nitrile
- Coated with nitrile on the grip and top part. Stiffened cuff. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
10 (XL)	**L220510W**	10

Size	Code		
10 (XL)	**L220510K**		12/120

L220510W 12 pairs in a pack.
L220510K 1 pair on a card.

5 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip part and top, to ensure improved resistance to grease and oil.
- NORM: EN 420

Size	Code	
10 (XL)	**L220910W**	10

12 pairs in a pack.

1 ZAŠČITNE ROKAVICE PREVLEČENE Z NITRILOM

• ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM • ZAŠTITNE RUKAVICE PRESVUČENE NITRILOM

NITRILE



Kat. I
Cat. I

- MATERIAL: polyester, nitrile
- Coated with nitrile along the entire grip part and on the finger tips outside, to ensure improved resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code		
7 (S)	**L220407K**	x	12/120
8 (M)	**L220408K**	x	12/120
9 (L)	**L220409K**	x	12/120

2 ZAŠČITNE ROKAVICE ZA 1X UPORABO

• ZAŠTITNE RUKAVICE ZA JEDNOKRATNU UPOTREBU
• ZAŠTITNE RUKAVICE ZA JEDNOKRATNU UPOTREBU

NITRILE



Kat. I
Cat. I

- MATERIAL: nitrile
- Made from nitrile, ensuring higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Porous pattern on fingertips improves the comfort of work with slippery objects.
- NORM: EN 420

Size	Code	
7 (S)	**L220807B**	10
8 (M)	**L220808B**	10
9 (L)	**L220809B**	10
10 (XL)	**L220810B**	10

100 pcs. in package.

3 ZAŠČITNE ROKAVICE PREVLEČENE S POLIURETANOM S POVEČANO ODPORNOSTJO NA UREZNINE

• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM S POVEĆANOM OTPORNOŠĆU NA POREZOTINE
• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM S POVEĆANOM OTPORNOŠĆU NA POSJEKOTINE

PU

EN 388
4543

LEVEL 5
BLADE CUT RESISTANCE





Kat. II
Cat. II

- MATERIAL: modified synthetic fibre, polyester, polyurethane
- PU-coating ensures high manual dexterity and perfect feel of the object held. High resistance to chafing (resistance level 4). Made from modified synthetic fibre with the highest resistance to blade cutting (resistance level 5). Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code		
10 (XL)	**L200110K**	x	12/240

4 ANTISTATIČNE ZAŠČITNE ROKAVICE

• ANTISTATIČNE ZAŠTITNE RUKAVICE • ANTISTATIČNE ZAŠTITNE RUKAVICE

ANTI-STATIC

PU

EN 388
4131x



Kat. II
Cat. II

- MATERIAL: nylon, carbon fibre, polyurethane
- Coated with polyurethane to ensure high manual dexterity and perfect feel of the object held. Carbon fibre prevents accumulation of static charge on the glove surface. Elastic and stretchy, fit the hand perfectly. High resistance to static charge (can be used in explosive atmosphere). Ended with a cuff. Wide scope of application (e.g. precision works, works related to installing electronic components, works in explosive atmosphere).

IMPORTANT: To ensure comprehensive static discharge protection, the gloves should be worn with protective clothes, shoes and headgear carefully selected and made from proven anti-static fabric.

- NORM: EN 420, EN 388, EN 16350:2014

Size	Code		
7 (S)	**L230407K**	x	12/120
8 (M)	**L230408K**	x	12/120
9 (L)	**L230409K**	x	12/120
10 (XL)	**L230410K**	x	12/120
11 (2XL)	**L230411K**	x	12/120

1 ZAŠČITNE ROKAVICE PREVLEČENE S POLIURETANOM

• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM
• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM



PU

Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L230107W**	25
8 (M)	**L230108W**	25
9 (L)	**L230109W**	25
10 (XL)	**L230110W**	25
11 (2XL)	**L230111W**	25

Size	Code	
9 (L)	**L230109K**	12/300
10 (XL)	**L230110K**	12/300



L230107W-L230111W 12 pairs in a pack.
L230109K, L230110K 1 pair on a card.

2 ZAŠČITNE ROKAVICE PREVLEČENE S POLIURETANOM

• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM
• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM

PU



Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L230207W**	25
8 (M)	**L230208W**	25
9 (L)	**L230209W**	25
10 (XL)	**L230210W**	25
11 (2XL)	**L230211W**	25

Size	Code	
9 (L)	**L230209K**	12/300
10 (XL)	**L230210K**	12/300



L230207W-L230211W 12 pairs in a pack.
L230209K, L230210K 1 pair on a card.

3 ZAŠČITNE ROKAVICE PREVLEČENE S POLIURETANOM

• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM
• ZAŠTITNE RUKAVICE PRESVUČENE POLIURETANOM

PU

EN 388
4131



Kat. II
Cat. II

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual abilities and perfect feel of the object kept in hand. High abrasion resistance (resistance level 4). Elastic and stretchy, fit the hand perfectly. Finished with a cuff.
- NORM: EN 420, EN 388

Size	Code	
8 (M)	**L230507W**	10
9 (L)	**L230508W**	10
10 (XL)	**L230509W**	10
11 (2XL)	**L230510W**	10

12 pairs in a pack.

4 ZAŠČITNE ROKAVICE PU

• ZAŠTITNE RUKAVICE PU • ZAŠTITNE RUKAVICE PU

PU



Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane along the entire grip part and on the finger tips outside, to ensure improved manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code		
7 (S)	**L230307K**	x	12/240
8 (M)	**L230308K**	x	12/240
9 (L)	**L230309K**	x	12/240

5 ZAŠČITNE ROKAVICE PVC

• ZAŠTITNE RUKAVICE PVC
• ZAŠTITNE RUKAVICE PVC

PVC

EN 388
4121



Kat. II
Cat. II

- MATERIAL: cotton, PVC
- PVC-coated on the top and palm. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
9 (L)	**L240109W**	10
10 (XL)	**L240110W**	10

Size	Code	
10 (XL)	**L240110K**	12/120



L240109W, L240110W 12 pairs in a pack.
L240110K 1 pair on a card.

6 ZAŠČITNE ROKAVICE PVC

• PVC ZAŠTITNE RUKAVICE • PVC ZAŠTITNE RUKAVICE

PVC

EN 388
4121



Kat. II
Cat. II

- MATERIAL: cotton, PVC
- Coated with PVC in whole, to ensure improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
10 (XL)	**L240210W**	10

12 pairs in a pack.

1 ZAŠČITNE ROKAVICE S TOČKASTO OJAČITVIJO

• ZAŠTITNE RUKAVICE S TOČKASTIM OJAČANJEM • ZAŠTITNE RUKAVICE S TAČKASTIM POJAČANJEM

PVC





Kat. I
Cat. I

- MATERIAL: cotton, PVC.
- PVC spots assure a non-slip effect and excellent grip. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L240507K**	x	12/120
8 (M)	**L240508K**	x	12/120
9 (L)	**L240509K**	x	12/120



2 ZAŠČITNE ROKAVICE S TOČKASTO OJAČITVIJO

• ZAŠTITNE RUKAVICE S TOČKASTIM OJAČANJEM • ZAŠTITNE RUKAVICE S TAČKASTIM POJAČANJEM

PVC



Kat. I
Cat. I

- MATERIAL: cotton, PVC
- PVC dots offer non-slip properties and excellent grip. Finished with a cuff.
- NORM: EN 420

Size	Code	
10 (XL) 12 pairs in a pack.	**L240310W**	25

3 ZAŠČITNE ROKAVICE S TOČKASTO OJAČITVIJO

• ZAŠTITNE RUKAVICE S TOČKASTIM OJAČANJEM • ZAŠTITNE RUKAVICE S TAČKASTIM POJAČANJEM

PVC



Kat. I
Cat. I

- MATERIAL: cotton, polyester
- PVC spots provide a non-slip effect and excellent grip
- NORM: EN 420

Size	Code	
10 (XL) 12 pairs in a pack.	**L240410W**	10

ZAŠČITNA OBUTEV
ZAŠTITNA OBUĆA





gležnarji/gležnjače

cokli/cokli

vložki za čevlje/ulošči za čarape

ščitniki kolen/štitnici za koljena

škornji/čizme

sandali/sandali

vezalke/vezice

čevlji/čevlji

snežni škornji/čizme za snijeg

1 SANDALI (ZAŠČITNA OBUTEV)

• SANDALE (ZAŠTITNA OBUĆA) • SANDALE (ZAŠTITNA OBUĆA)

S1 SRA · METAL FREE · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The sandals have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30603XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 SANDALI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• SANDALE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• SANDALE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)

O1 SRA · METAL FREE · NO TOE CAP · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The sandals have antistatic properties and a covered heelcap. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347: 2011

L30606XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 ŽENSKI SANDALI (ZAŠČITNA OBUTEV)

• ŽENSKE SANDALE (ZAŠTITNA OBUĆA) • ŽENSKE SANDALE (ZAŠTITNA OBUĆA)

S1 SRC · METAL FREE · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic and steel surface), resistant to diesel oil.
- SAFETY CAT.: S1 SRC
- The sandals have a composite toe cap, antistatic properties, reflective elements and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30604XX XX: 36, 37, 38, 39, 40, 41, 42 — 10



1 SANDALI (ZAŠČITNA OBUTEV)

• SANDALE (ZAŠTITNA OBUĆA) • SANDALE (ZAŠTITNA OBUĆA)

S1 SRC





- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345: 2011

L30601XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 SANDALI (ZAŠČITNA OBUTEV)

• SANDALE (ZAŠTITNA OBUĆA) • SANDALE (ZAŠTITNA OBUĆA)

S1 SRC





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345: 2011

LPSOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 SANDALI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• SANDALE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• SANDALE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)

O1 SRC

METAL FREE

NO TOE CAP





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The sandals have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30602XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ŽENSKI SANDALI (ZAŠČITNA OBUTEV)

• ŽENSKE SANDALE (ZAŠTITNA OBUĆA) • ŽENSKE SANDALE (ZAŠTITNA OBUĆA)

S1 SRC





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap, covered heelcap and antistatic properties. They absorb energy in their heel part.
- NORM: ISO 20345:2011

L30605XX XX: 36, 37, 38, 39, 40, 41, 42 10

1 ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBLAČILA)

• CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



- MATERIAL: Upper: high-quality full-grain trekking „crazy horse" leather, outer boot front and back strengthened with TPR, high-quality metal eyelets. Lining: leather. Insole: replaceable leather. Sole: non-slip rubber (ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The low-cut shoes offer the following features: anti-electrostatic properties, energy absorption in the heel area, a covered heel, and limited permeability and water absorption.
- NORM: ISO 20347:2011

L30415XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: nubuck / knitwear mesh, outer shoe side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a composite toe cap, polymer anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30403XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather / Oxford knitwear, outer shoe back strengthened with TPR. Lining: knitwear mesh Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The shoes have a steel toe cap.
- NORM: ISO 20345:2011

L30402XX XX: 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



- MATERIAL: Upper: nubuck / knitwear mesh, outer shoe side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRA
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30409XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



- MATERIAL: Upper: suede / Oxford knitwear, outer shoe back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: OB FO SRA
- The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30408XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: suede, outer shoe front and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30410XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil.
- SAFETY CAT.: SB FO SRA
- The shoes have a steel toe cap.
- NORM: ISO 20345:2011

L30407XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ŽENSKI ČEVLJI (ZAŠČITNA OBUTEV)

• ŽENSKE CIPELE (ZAŠTITNA OBUĆA) • ŽENSKE CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The shoes have a steel toe cap and antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345:2011

L30406XX XX: 36, 37, 38, 39, 40, 41, 42 10

1 ŽENSKI ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• ŽENSKE CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• ŽENSKE CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



O1 SRC

METAL FREE

NO TOE CAP

RUBBER



SRC Kat. II Cat. II CE

- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on steel and ceramic surfaces).
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30411XX XX: 36, 37, 38, 39, 40, 41, 42 10

2 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



S3 SRC



S SRC PU/PU Kat. II Cat. II CE

- MATERIAL: Upper: nubuck. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The low-cut shoes offer the following features: a steel toe cap, polymer insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption.
- NORM: ISO 20345: 2011

L30414XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



S1P SRA



S SRA PU/PU Kat. II Cat. II CE

- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30405XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



S1P SRC



S SRC PU/PU Kat. II Cat. II CE

- MATERIAL: Upper: suede/ knitwear mesh, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRC
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30404XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRA
- The shoes have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

LPPOMBXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip one-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The shoes have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption, and reflective elements.
- NORM: ISO 20345:2011

LPPOMCXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA) • CIPELE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The shoes have a steel toe cap and antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements
- NORM: ISO 20345:2011

LPPOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30401XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ŽENSKI ČEVLJI (ZAŠČITNA OBUTEV)

• ŽENSKE CIPELE (ZAŠTITNA OBUĆA) • ŽENSKE CIPELE (ZAŠTITNA OBUĆA)



S1 SRC



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRC
- The shoes have a steel toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30412XX XX: 36, 37, 38, 39, 40, 41, 42 10

2 ŽENSKI ČEVLJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• ŽENSKE CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• ŽENSKE CIPELE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



O1 SRC

NO TOE CAP



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30413XX XX: 36, 37, 38, 39, 40, 41, 42 10



1 GLEŽNARJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• GLEŽNJAČE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • GLEŽNJERICE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)

O2 SRA
HIGH QUALITY CRAZY HORSE LEATHER
LEATHER INSOLE LEATHER LINING
NO TOE CAP
RUBBER





SRA Kat. II Cat. II CE

- MATERIAL: Upper: high-quality full-grain trekking „crazy horse" leather, outer boot front and back strengthened with TPR, high-quality metal eyelets. Lining: leather. Insole: replaceable leather. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The boots display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20347:2011

L30115XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S3 SRA
METAL FREE
RUBBER



SRA Kat. II Cat. II CE

- MATERIAL: Upper: nubuck, outer boot front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRA
- The over-ankle shoes offer the following features: a composite toe cap, polymer insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30117XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S3 SRA
METAL FREE



SRA PU/PU Kat. II Cat. II CE

- MATERIAL: Upper: nubuck, TPR reinforced outer boot side and back. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRA
- The over-ankle shoes offer the following features: a composite toe cap, polymer anti-puncture insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption, and include reflective elements. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30118XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

LAHTI PRO

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

SB SRC

RUBBER





- MATERIAL: Upper: nubuck, outer boot front, side and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on steel and ceramic surfaces), a deep tread with a modern design ensures high footwear stability.
- SAFETY CAT.: SB SRC
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30103XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

SB SRA

RUBBER





- MATERIAL: Upper: nubuck, outer boot front, side and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30102XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRA

METAL FREE

RUBBER



- MATERIAL: Upper: nubuck / knitwear mesh, outer boot side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a composite toe cap, polymer anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part. The boots do not have any metal components.
- NORM: ISO 20345:2011

L30104XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

SB SRA

RUBBER



- MATERIAL: Upper: leather / Oxford knitwear, outer boot side and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30107XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRA

RUBBER





- MATERIAL: Upper: suede, outer boot front and back strengthened with TPR, side cushions provide additional ankle protection, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30110XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• GLEŽNJAČE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• GLEŽNJERICE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)

O1 SRA

NO TOE CAP

RUBBER





- MATERIAL: Upper: suede, outer boot front, side and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRA
- The boots have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30111XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• GLEŽNJAČE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• GLEŽNJERICE BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)

O2 SRA

NO TOE CAP

RUBBER







- MATERIAL: Upper: nubuck, outer boot front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The boots display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20347:2011

L30114XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

SB FO SRA

RUBBER







- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil.
- SAFETY CAT.: SB FO SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30108XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

SB SRA

RUBBER





- MATERIAL: Upper: suede, outer boot back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap and The shoes do not have any metal components.

L30105XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S3 SRC





- MATERIAL: Upper: nubuck. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30113XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRA





- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

LPTOMFXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRC





- MATERIAL: Upper: suede/ knitwear mesh, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRC
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30106XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRA





- MATERIAL: Upper: suede. Lining: knitwear mesh Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30109XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1P SRC







- MATERIAL: Upper: leather. Lining: cambrella knitwear. Insole: replaceable. Sole: non-slip single-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability and comfort of walking.
- SAFETY CAT.: S1P SRC
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

LPTOMEXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S1 SRA

METAL FREE







- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRA
- The boots have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The boots do not have any metal components.
- NORM: ISO 20345:2011

LPTOMDXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)

S3 SRC







- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

LPTOMGXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The boots have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements
- NORM: ISO 20345:2011

LPTOMCXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The boots have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30101XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip one-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: SB FO SRC
- The over-ankle shoes have a steel toe cap.
- NORM: ISO 20345: 2011

L30116XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10



1 VISOKI PODLOŽENI ČEVLJI (ZAŠČITNA OBUTEV)

- VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)
- VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)

S3 SRC

METAL FREE







- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a composite toe cap and polymer anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absreflective elements components. The boots do not have any metal components.
- NORM: ISO 20345:2011

L30301XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 VISOKI PODLOŽENI ČEVLJI (ZAŠČITNA OBUTEV)

- VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)
- VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)

S3 SRC







- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30302XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 GLEŽNARJI PODLOŽENI (ZAŠČITNA OBUTEV)

• PODSTAVLJENE GLEŽNJAČE (ZAŠTITNA OBUĆA) • PODSTAVLJENE GLEŽNJERICE (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30303XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 ŠKORNJI ZA SNEG

• ČIZME ZA SNIJEG • ČIZME ZA SNIJEG



- MATERIAL: Upper: suede/ Oxford knitwear, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable fur. Sole: high-quality TPR.

L30801XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 12

3 ŠKORNJI ZA SNEG

• ČIZME ZA SNIJEG • ČIZME ZA SNIJEG



- MATERIAL: Upper: artificial suede. Lining: knitwear mesh. Insole: replaceable fur. Sole: high-quality TPR.

L30804XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 12

4 ŠKORNJI ZA SNEG

• ČIZME ZA SNIJEG • ČIZME ZA SNIJEG



- MATERIAL: Upper: artificial leather. Lining: replaceable fur knitwear, tinfoil improving thermal insulation properties. Sole: high-quality TPR.

L30802XX XX: 39, 40, 41, 42, 43, 44, 45, 46 — 8

1 VISOKI WELLINGTON ŠKORNJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



SRA PVC Kat. II Cat. II CE

- MATERIAL: Upper: PVC. Lining: knitwear Sole: Non-slip PVC (on ceramic surface).
- SAFETY CAT.: O4 SRA
- The wellingtons have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

LPKOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 VISOKI WELLINGTON ŠKORNJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA) • VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



SRA PVC Kat. II Cat. II CE

- MATERIAL: Upper: PVC. Lining: knitwear Sole: Non-slip PVC (on ceramic surface).
- SAFETY CAT.: OB SRA
- NORM: ISO 20347:2011

L30702XX XX: 40, 41, 42, 43, 44, 45,46, 47 — 5

3 SREDNJE-VISOKI WELLINGTON ŠKORNJI BREZ ZAŠČITNE KAPICE (DELOVNA OBUTEV)

• SREDNJE-VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)
• SREDNJE-VISOKE WELLINGTON ČIZME BEZ ZAŠTITNE KAPICE (RADNA OBUĆA)



PVC Kat. I Cat. I CE

- MATERIAL: Upper: PVC. Lining: knitwear Sole: PVC.
- SAFETY CAT.: OB E
- The wellingtons absorb energy in the heel part.
- NORM: EN ISO 20347:2004

L30701XX XX: 41, 42, 43, 44 — 8
XX: 45,46, 47 — 6

4 VISOKI WELLINGTON ŠKORNJI (ZAŠČITNA OBUTEV)

• VISOKE WELLINGTON ČIZME (ZAŠTITNA OBUĆA)
• VISOKE WELLINGTON ČIZME (ZAŠTITNA OBUĆA)



S5 Kat. II Cat. II CE

- MATERIAL: Upper: modified PVC. Lining: polyester knitwear. Sole: oil-proof PVC.
- SAFETY CAT.: S5
- Additional ankle protection.
- NORM: PN EN ISO 20345:2012

DKRMCXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

5 VISOKI WELLINGTON ŠKORNJI S PODLOGO

• VISOKE WELLINGTON ČIZME S PODSTAVOM
• VISOKE WELLINGTON ČIZME S PODSTAVOM



EVA CE

- MATERIAL: Upper: EVA. Sole: EVA.
- Highly durable, offering thermal insulation, flexible, ultralight; hardened sole and toe cap. Can be used with padding or without it (removable).

DKMBXX XX: 41, 42, 43, 44, 45, 46, 47 — 4

6 SREDNJE - VISOKI WELLINGTON ŠKORNJI Z MANŠETO IN PODLOGO

• SREDNJE - VISOKE WELLINGTON ČIZME S MANŠETOM I PODSTAVOM
• SREDNJE - VISOKE WELLINGTON ČIZME S MANDŽETOM I PODSTAVOM



EVA

- MATERIAL: Upper: EVA / waterproof polyester collar with adjustable width. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15361XX XX: 42, 43, 44, 45, 46, 47, 48 — 5

1 SREDNJE - VISOKI WELLINGTON ŠKORNJI S PODLOGO

• SREDNJE - VISOKE WELLINGTON ČIZME S PODSTAVOM
• SREDNJE - VISOKE WELLINGTON ČIZME S PODSTAVOM





EVA

- MATERIAL: Upper: EVA. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15461XX XX: 42, 43, 44, 45, 46, 47, 48 — 5

2 SREDNJE - VISOKI ŽENSKI WELLINGTON ŠKORNJI S PODLOGO

• SREDNJE - VISOKE ŽENSKE WELLINGTON ČIZME S PODSTAVOM
• SREDNJE - VISOKE ŽENSKE WELLINGTON ČIZME S PODSTAVOM





EVA

- MATERIAL: Upper: EVA. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15162XX XX: 36, 37, 38, 39, 40, 41, 42 — 7

3 FLIS WELLINGTON ŠKORNJI

• FLIS WELLINGTON ČIZME • FLIS WELLINGTON ČIZME

OB FO CI SRC

NO TOE CAP





PVC Kat. II Cat. II

- MATERIAL: Upper: Italian PVC/felt. Lining: felt/tinfoil (improving thermal insulation properties). Sole: PVC, special design, ensuring improved grip to the ground
- NORM: ISO 20347:2012

K15121XX XX: 40, 41, 42, 43, 44, 45, 46 — 5

4 SREDNJE - VISOKI ŽENSKI WELLINGTON ŠKORNJI

• SREDNJE - VISOKE ŽENSKE WELLINGTON ČIZME
• SREDNJE - VISOKE ŽENSKE WELLINGTON ČIZME

Demar.





- MATERIAL: Upper: PVC insole: chemically bonded nonwoven fabric. Sole: PVC.

DKDPXX XX: 36/37, 37/38, 38/39, 39/40, 40/41 — 10

5 SREDNJE - VISOKI ŽENSKI WELLINGTON ŠKORNJI

• SREDNJE - VISOKE ŽENSKE WELLINGTON ČIZME
• SREDNJE-VISOKE ŽENSKE WELLINGTON ČIZME

Demar.





- MATERIAL: Upper: PVC. Sole: PVC. Lining: polyester knitwear. Insole: replaceable nonwoven fabric.
- NORM: 89/686/EWG

DKDDXX XX: 36, 37, 38, 39, 40, 41, 42 — 5

6 COKLE

• KLOMPE • KLOMPE





EVA

- MATERIAL: Upper: EVA. Sole: EVA. Insert: non-slip inside preventing the foot from slipping off the shoe.
- Highly durable, flexible and with excellent thermal insulation. Perfect for men and women.

K14153XX XX: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 — 16

1 SANDALI (ZAŠČITNA OBUTEV)

• SANDALE (ZAŠTITNA OBUĆA)
• SANDALE (ZAŠTITNA OBUĆA)

demar.



SB SRC

- MATERIAL: Upper: suede. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: LIGHT SOLE, two-thickness polyurethane.
- SAFETY CAT.: SB SRC
- NORM: ISO 20345:2012

DSRMWXX XX: 40, 41, 42, 43, 44, 45, 46, 47 — 5

2 "LOVSKI" ČEVLJI

• „LOVAČKE" CIPELE • „LOVAČKE" CIPELE

demar.



- MATERIAL: Upper: waterproof nubuck leather. Lining: 3D knitwear.Insole: replaceable, 3D knitwear CLIMATIC. Sole: LIGHT SOLE, two-thickness polyurethane.

DPMMAXX XX: 42, 43, 44, 46, — 5

3 SANDALI (ZAŠČITNA OBUTEV)

• SANDALE (ZAŠTITNA OBUĆA)
• SANDALE (ZAŠTITNA OBUĆA)

demar.



S1 SRC

- MATERIAL: Upper: leather. Lining: 3D knitwear Insole: replaceable: anatomically moulded Sole: LIGHT SOLE, two-thickness polyurethane.
- NORM: PN EN ISO 20345:2012

DSRMXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

4 ČEVLJI (ZAŠČITNA OBUTEV)

• CIPELE (ZAŠTITNA OBUĆA)
• CIPELE (ZAŠTITNA OBUĆA)

demar.



S1 SRC



- MATERIAL: Upper: suede, polyester knitwear. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S1 SRC
- NORM: ISO 20345:2012

DPRMCXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

5 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA)
• GLEŽNJERICE (ZAŠTITNA OBUĆA)

demar.



S1 SRC



- MATERIAL: Upper: suede, polyester knitwear. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S1 SRC
- NORM: ISO 20345:2012

DTRMCXX XX: 41, 45 — 5

6 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA)
• GLEŽNJERICE (ZAŠTITNA OBUĆA)

demar.



S2 SRC



- MATERIAL: Upper: waterproof leather. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S2 SRC
- NORM: ISO 20345:2012 Kat. II

DTRMAXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

1 GLEŽNARJI (ZAŠČITNA OBUTEV)

• GLEŽNJAČE (ZAŠTITNA OBUĆA) • GLEŽNJERICE (ZAŠTITNA OBUĆA)



- MATERIAL: Sole: GRIMM, double-density polyurethane with the most modern, aggressive design and a deep non-slip tread; the front part has additional protection for toes.
- SAFETY CAT.: S3 SRC

DTRMBUXX	XX: 40, 41, 42, 43, 44, 45, 46, 47, 48	5

2 VISOKI PODLOŽENI ČEVLJI (ZAŠČITNA OBUTEV)

• VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)
• VISOKE PODSTAVLJENE ČIZME (ZAŠTITNA OBUĆA)



- MATERIAL: Upper: waterproof leather. Lining: fur knitwear. Insole: replaceable, moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S2 SRC
- NORM: ISO 20345:2012

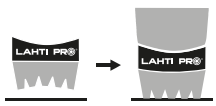
DTRMFXX	XX: 40, 41, 42, 43, 44, 45, 46, 47, 48	5



LAHTI PRO

1 ŠČITNIKI ZA KOLENA Z GEL ZRAČNO BLAZINICO (TIP 1)

- ŠTITNICI ZA KOLJENA S GEL ZRAČNIM JASTUČIĆEM (TIP 1)
- ŠTITNICI ZA KOLJENA S GEL VAZDUŠNIM JASTUČIĆEM (TIP 1)







HEAVY DUTY Kat. I Cat. I CE

- MATERIAL: 600D polyester
- Double protective layer (extra thick). Innovative technology - special shape of the gel and air cushion fits the shape of the surface, ensuring full stability of knees. Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52311	x	6/24

2 ELASTIČNI ŠČITNIKI ZA KOLENA (TIP 1)

- ELASTIČNI ŠTITNICI ZA KOLJENA (TIP 1)
- ELASTIČNI ŠTITNICI ZA KOLJENA (TIP 1)





HEAVY DUTY Kat. I Cat. I CE

- MATERIAL: 600D polyester
- Elastic cushion with the shape adjusting to the knee. Thick protective layer. Double, adjustable Velcro fastening.
- NORM: EN 14404

Code		
52308	x	6/24

3 ŠČITNIKI ZA KOLENA Z GEL ZRAČNO BLAZINICO (TIP 1)

- ŠTITNICI ZA KOLJENA S GEL ZRAČNIM JASTUČIĆEM (TIP 1)
- ŠTITNICI ZA KOLJENA S GEL VAZDUŠNIM JASTUČIĆEM (TIP 1)





HEAVY DUTY Kat. I Cat. I CE

- MATERIAL: 600D polyester
- Gel-air cushion. Double protective layer (extra thick). Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52306	x	6/24

4 ŠČITNIKI ZA KOLENA S PVC BLAZINICO (TIP 1)

- ŠTITNICI ZA KOLJENA S PVC JASTUČIĆEM
- ŠTITNICI ZA KOLJENA S PVC JASTUČIĆEM





HEAVY DUTY Kat. I Cat. I CE

- MATERIAL: 600D polyester
- Hard PVC cushion. Thick protective layer. Double, adjustable velcro fastening.
- NORM: EN 14404

Code		
52310	x	6/24

5 ŠČITNIKI ZA KOLENA Z MEHKO ZAŠČITNO BLAZINICO (TIP 1)

- ŠTITNICI ZA KOLJENA S MEKANIM ZAŠTITNIM JASTUČIĆEM (TIP 1)
- ŠTITNICI ZA KOLJENA S MEKANIM ZAŠTITNIM JASTUČIĆEM (TIP 1)





HEAVY DUTY Kat. I Cat. I CE

- MATERIAL: 600D polyester
- Soft cushion protects the surface from scratching. Thick protective layer. Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52309	x	6/24

6 ŠČITNIKI ZA KOLENA (TIP 2)

- ŠTITNICI ZA KOLJENA (TIP 2)
- ŠTITNICI ZA KOLJENA (TIP 2)



20 mm x 160 mm x 240 mm

Kat. I Cat. I CE

- MATERIAL: EVA/POE.
- Knee-pads for protective trousers and bib pants with pockets for knee pads (it is possible to adjust the knee-pad size by cutting them to match the size of pockets in trousers or bib pants). Thanks to their double thickness, they ensure high comfort of work. Ideal for works requiring kneeling i.e. finishing, construction, gardening works etc.
- NORM: EN 14404

Code		
LPN001	x	50

1 USNJENI ŠČITNIKI ZA KOLENA (TIP 1)

• KOŽNI ŠTITNICI ZA KOLJENA (TIP 1) • KOŽNI ŠTITNICI ZA KOLJENA (TIP 1)



HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: Resin-reinforced Russia leather
- Made of resin-reinforced Russia leather which provides high abrasion resistance. Thick layer of material on the inside adapts to the knee's shape. Adjustable straps ensure smooth adjustment.
- NORM: EN 14404

Code		
L3100201	x	15

2 ŠČITNIKI ZA KOLENA S PVC ZAŠČITO (TIP 1)

• ŠTITNICI ZA KOLJENA S PVC ZAŠČITOM (TIP 1)
• ŠTITNICI ZA KOLJENA S PVC ZAŠČITOM (TIP 1)

MEGA® DOBRY WYBÓR





Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Hard PVC cushion. Double, adjustable velcro fastening.
- NORM: EN 14404

Code		
52300	x	6/36

3 ŠČITNIKI ZA KOLENA (TIP 1)

• ŠTITNICI ZA KOLJENA (TIP 1)
• ŠTITNICI ZA KOLJENA (TIP 1)





HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: Waterproof, synthetic leather
- Flexible, ensuring freedom of movements. Resistant to crumbling and breaking.
  52301 - single Velcro fastening.
  52302 - double Velcro fastening.
- NORM: EN 14404

Code		
52301	x	6
52302	x	6

4 ŠČITNIKI ZA KOLENA (TIP 1)

• ŠTITNICI ZA KOLJENA (TIP 1) • ŠTITNICI ZA KOLJENA (TIP 1)



HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: PU.
- Made of soft and flexible polyurethane, which protects the from scratches and adapts perfectly to the shape of the knee. Adjustable strap.
- NORM: EN 14404

Code		
L3100101	x	36



1 VLOŽKI ZA ŠPORTNO OBUTEV

• ULOŠCI ZA SPORTSKE CIPELE • ULOŠCI ZA SPORTSKE CIPELE



EVA LATEX TPR

- MATERIAL: Three-layer structure - polyester fabric / EVA / inserts: TPR, EVA, latex, 4 mm thick.
- The insoles have a soft and flexible TPR shock-absorbing cushion and latex and EVA bottom inserts to relieve the pressure of the foot on the floor. The structured surface supports and stabilizes the foot, preventing the occurrence of flat foot. The design of the insoles reduces foot fatigue and increases comfort while walking. The perforated surface assures air circulation inside the shoe. Perfect for those who lead an active lifestyle.

L90306XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 40

2 VLOŽKI ZA ČEVLJE IZ ANTISTATIČNIH VLAKEN

• ULOŠCI ZA CIPELE OD ANTISTATIČKIH VLAKANA
• ULOŠCI ZA CIPELE OD ANTISTATIČKIH VLAKANA



Antielectrostatic thread



EVA LATEX

- MATERIAL: Three-layer structure - polyester fabric / EVA / inserts: latex, anti-electrostatic thread, 4.5 mm thickness
- The insoles have latex bottom inserts to relieve the pressure of the foot on the floor. The design of the insoles reduces foot fatigue and increases comfort while walking. The perforated surface assures air circulation inside the shoe. **The insoles are meant for footwear with anti-static properties**

L90307XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 40

3 NOTRANJI VLOŽEK IZ FILCA

• UNUTRAŠNJI DŽON OD FILCA • UNUTRAŠNJI ĐON OD FILSA



x10

- MATERIAL: High quality felt, 6mm thick.
- The insoles ensure thermal protection, absorb moisture and relieve the pressure of the foot on the floor. Perfect for autumn and winter season.

L90301XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 TERMO VLOŽKI

• TERMO ULOŠCI • TERMO ULOŠCI



x10

- MATERIAL: Three-layer construction - high-quality felt/foam/aluminum film, 6 mm thick.
- The insoles provide increased thermal insulation, absorb moisture, facilitate adaptation to the shape of the foot and relieve the pressure of the foot on the ground. Perfect for the autumn and winter season.

L90302XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

5 ANTIBAKTERIJSKI VLOŽKI

• ANTIBAKTERIJSKI ULOŠCI • ANTIBAKTERIJSKI ULOŠCI



x10

- MATERIAL: Two-layer structure - cotton fabric/ latex, thickness 3 mm.
- The insoles contain an antibacterial and fungicidal agent from the Swiss company Sanitized. They protect feet against bacteria, fungi, yeasts and mites that are responsible for unpleasant odors. The perforated surface assures air circulation inside the shoe and gives a fresh feeling. The latex layer prevents the insole from moving inside the shoe. The insoles are recommended for sensitive feet.

L90303XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

6 ANTIPERSPIRANT VLOŽKI

• ULOŠCI • ULOŠCI



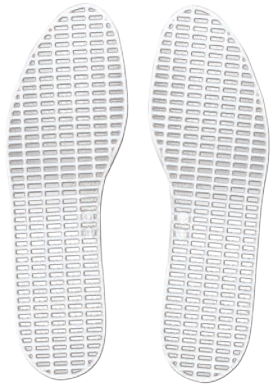
x10

- MATERIAL: Two-layer structure - cotton fabric/ latex, thickness 3 mm
- The insoles contain an agent with activated carbon, reduce excessive sweating and neutralize unpleasant odors. The perforated surface assures air circulation inside the shoe and gives a fresh feeling. The latex layer prevents the insole from moving inside the shoe.

L90304XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

1 VOJAŠKI VLOŽKI ZA OBUTEV

• VOJNI ULOŠCI ZA OBUĆU • VOJNI ULOŠCI ZA OBUĆU



x5

- MATERIAL: polyethylene
- Thanks to a mesh structure the insoles assure excellent air circulation inside the shoe and prevent sweating. The insoles are particularly adapted to closed shoes, with limited ventilation. They are flexible, durable and resistant to damage.

L90305XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 20

2 OKROGLE VEZALKE ZA OBUTEV

• OKROGLE VEZICE ZA OBUĆU • OKROGLE PERTLE ZA OBUĆU



100% POLYESTER x10 PAIRS

- MATERIAL: 100% polyester
- Round, „trekking" laces with a diameter of 4 mm, reinforced with a core increasing resistance to abrasion and tearing. Available in 4 colour versions and lengths: 100 cm, 120 cm and 150 cm

Code	Size (cm)	Colour	
L9040100	100		10/120
L9040120	120		10/120
L9040150	150		10/120
L9040200	100		10/120
L9040220	120		10/120
L9040250	150		10/120
L9040300	100		10/120
L9040320	120		10/120
L9040350	150		10/120
L9040400	100		10/120
L9040420	120		10/120
L9040450	150		10/120

Each pair comes with a bar code

3 PLOŠČATE VEZALKE ZA OBUTEV

• OKROGLE VEZICE ZA OBUĆU • OKROGLE PERTLE ZA OBUĆU



100% COTTON x10 PAIRS

- MATERIAL: 100% cotton.
- Flat cotton laces, 7 mm wide. Available in 2 colour versions and lengths: 100 cm (white and black) and 120 cm (black).

Code	Size (cm)	Colour	
L9040500	100		10/120
L9040520	120		10/120
L9040600	100		10/120

Each pair comes with a bar code

4 PLOŠČATE VEZALKE ZA OBUTEV

• OKROGLE VEZICE ZA OBUĆU • OKROGLE PERTLE ZA OBUĆU



100% POLYESTER x10 PAIRS

- MATERIAL: 100% polyester
- Flat shoelaces 9 mm wide. Available in 2 colour versions and with a standard length of 110 cm (+/-10 cm after stretching)

Code	Size (cm)	Colour	
L9040710	universal		10/120
L9040810	universal		10/120

Each pair comes with a bar code



Zakon o delu

> ***"Delodajalec ne sme zaposlenemu dovoliti opravljanja dela brez osebne zaščitne opreme ter delovnih oblačil ali obutve, namenjene določenemu delovnemu mestu"***
>
> *(Zakon o delu, člen 2379 (1))*
>
> ***"Delodajalec je dolžan delavcem zagotoviti osebno varovalno opremo, ki izpolnjuje posebne zahteve za ugotavljanje skladnosti v skladu s posebnimi določbami"***
>
> (Zakon o delu, člen 2376. (3))

PRAVNA PODLAGA

Uredba (EU) 2016/425 Evropskega parlamenta in Sveta z dne 9. marca 2016 o osebni varovalni opremi, ki razveljavlja Direktivo Sveta 89/686 / EEC. V skladu s pravom Evropske unije (Direktiva 89/686 / EGS z dne 21. decembra 1989 o osebni zaščitni opremi, Uredbe EP in Sveta **2016/425** z dne 9. marca 2016 o osebni zaščitni opremi in razveljavitvi Direktive Sveta **(89/686 / EEC)** in nacionalnimi določbami o varnosti in zdravju in Zakonom o delu, je vsak delodajalec dolžen zagotovi svojim zaposlenim osebno zaščitno opremo, ki bo zadostovala za njihovo zaščito pred vsakim tveganjem na delovnem mestu.

"Osebna varovalna oprema je enota ali oprema, namenjena za nošenje ali rokovanje s strani uporabnika za zaščito pred enim ali več tveganji, ki lahko vplivajo na varnost ali zdravje uporabnika."

Osebna varovalna oprema je razmeroma širok pojem in ni namenjena izključno za zaščito zaposlenih na delovnih mestih, ampak se uporablja tudi za uporabo, ki ni povezano z delom, kot sta šport ali prosti čas. Vključuje lahko tudi: opremo za boljšo vidljivost in oblačila za domačo uporabo. Pred dajanjem osebne varovalne opreme na trg mora njen proizvajalec zaradi ugotavljanja skladnosti dokazati, da je v skladu z bistvenimi varnostnimi in zdravstvenimi zahtevami navedenimi v Uredbi **2016/425**. Eden od načinov dokazovanja skladnosti osebne zaščitne opreme z bistvenimi zahtevami je dokazati izpolnjevanje skladnosti z zahtevami standarda, usklajenega z zgoraj navedeno Direktivo.

Usklajeni standardi so evropski standardi, ki so jih razvile evropske organizacije za standardizacijo. So v skladu z bistvenimi zahtevami smernic in predpisov EU in so za proizvajalca ali uvoznika najlažji način, da dokaže skladnost z ustrezno direktivo ali predpisom.

Za potrditev, da osebna varovalna oprema izpolnjuje bistvene zahteve, proizvajalec le-to označi z oznako CE in izda izjavo o skladnosti z Uredbo o osebni varovalni opremi in usklajenimi standardi.



KATEGORIJE OSEBNE ZAŠČITNE OPREME

Pravilnik o osebni varovalni opremi deli osebno varovalno opremo v tri kategorije zaščite, odvisno od stopnje tveganja, ki ji je delavec izpostavljen pri delu:

Kategorija tveganja	Stopnja tveganja	Opis
I	**Nizka**	Izdelki te kategorije zagotavljajo osnovno raven zaščite pred zunanjimi dejavniki z nizkim tveganjem, katerih učinki so površinski npr. manjše ureznine, odrgnine, umazanija, blagi detergenti, blagi atmosferski vplivi, stik z vročimi površinami, ki ne presegajo 50° C, poškodbe oči zaradi izpostavljenosti sončni svetlobi (razen med opazovanjem sonca) itd.
II	**Srednja**	Proizvodi te kategorije se uporabljajo za zaščito v razmerah, kjer stopnja tveganja ni razvrščena kot nizka ali visoka
III	**Visoka**	Kategorija III zajema samo tveganja, ki lahko povzročijo zelo resne posledice, kot so smrt ali nepopravljiva škoda za zdravje v zvezi s snovmi in zmesmi, ki so nevarne za zdravje, atmosfera s pomanjkanjem kisika, škodljivi biološki agenti, ionizirana radiacija, okolja z visokimi temperaturami, ki so primerljiva s tistimi z zračno temperaturo vsaj 100° C, okolja z nizkimi temperaturami, katerih učinki so primerljivi s temperaturami zraka -50° C ali manj, padci z višine, električni udar in delo z napravami pod napetostjo, utapljanje, poreznine ročne motorne žage, visokotlačne šobe, rane od metkov ali ubodi z nožem, škodljiv hrup itd

Pred izbiro ustreznega PPE (Osebne varovalne opreme):

- določiti stopnjo tveganja
- navesti vrsto nevarnosti
- določiti vrsto nevarnosti
- izberite izdelek z navedenimi parametri zaščite

Razdelitev Parametra zaščite po skupinah:



ZAŠČITA OČI IN OBRAZA

Oprema za zaščito oči in obraza preprečuje poškodbe oči ali obraza zaradi mehanskih, kemičnih, bioloških in toplotnih dejavnikov ter škodljivih sevanj.

Profesionalno opremo za zaščito oči in obraza je treba uporabiti, kadar obstajajo naslednje nevarnosti:

- zunanji vpliv (kot je škropljenje)
- kapljice tekočin in špricanje (kot je špricanje pri prelivanju tekočin)
- optično sevanje (kot je sevanje med varjenjem, bleščanje sonca)
- staljene kovine in vroče trdne snovi (kot so taline rastopljenih kovin med metalurškim procesom)
- prah in plini (kot so premogov prah ali aerosoli škodljivih kemikalij),
- električni oblok (kot nastane med trenutnim delom)

Oprema za zaščito oči in obraza za profesionalno uporabo je razdeljena v tri kategorije:



Očala in zaščitna očala



Ščitniki za obraz



Ščitniki za varjenje (ta kategorija vključuje ščite, očala in varilne maske)



SEZNAM STANDARDOV:

EN 166 – Osebna zaščita oči - specifikacije. Standard določa zahteve za različne vrste osebne varovalne opreme za oči.

EN 169 – Osebna zaščita oči - Varilni filtri in sorodne tehnike - Dovoljena prepustnost in priporočena uporaba. Ta standard določa potrebne oznake in dovoljeno propustnost za filtre, namenjene za zaščito izvajalcev, ki izvajajo dela, ki zahtevajo varjenje, zračno varjenje in plazemsko rezanje.

EN 170 – Osebna zaščita oči - ultravijolična svetloba - dovoljena prepustnost in priporočena uporaba Ta standard vključuje načela za označevanje, identifikacijo, izbiro in uporabo filtrov. Ta standard določa dovoljeno propustnost za filtre, ki ščitijo pred ultravijoličnim sevanjem.

EN 172 – Osebna zaščita oči - filtri za zaščito pred soncem za industrijsko uporabo. Ta standard določa merila za izbor in dovoljeno propustnost ter določa ustrezne preskusne metode za testiranje filtrov za zaščito pred soncem.

EN 1731 – Osebna zaščita oči - Ščitniki za oči in obraz. Ta standard določa materiale, metode oblike, zahteve, testne metode in označevanje ščitnikov za oči in obraz pred mehanskimi vplivi.

EN 175 – osebna zaščita - Oprema za zaščito oči in obraza med varjenjem in sorodnimi postopki. Standard določa zahteve, ki se nanašajo na varnost in testne metode za PPE uporabljene za zaščito oči in obraza proti optičnim sevanjem in ostalim specifičnim virom poškodb, ki so prisotne pri varjenju, rezanju in podobnimi deli.

ZAŠČITNA OČALA

Označevanje zaščitnih očal se uporablja za njihovo identifikacijo in zagotavlja pravilno izbiro glede nevarnosti na določeni delovni postaji.

Leče (okularji) in **okvirji** (nosilci) so posamično označeni. Če pa sestavljajo celoto, morajo biti na okvirju vsi potrebni simboli za označevanje.

OZNAČEVANJE ZAŠČITNIH OČAL



CE 5-3.1 XX 1 FT

OZNAČEVANJE LEČ

- CE oznaka
- tip filtra od 2 do 6
- barva (od 1.2 do 16)
- identifikacijska oznaka proizvajalca
- optični razred (od 1 do 3)
- simbol mehanske trdnosti (“S”, “F”, “B”, “A”)
- oznaka dodatnih značilnosti zaščite (“K”, “N”, “R”, “T”)

OZNAČEVANJE OKVIRJA



CE XX EN 166 F

- CE oznaka
- identifikacijska oznaka proizvajalca
- standardna številka
- simbol mehanske trdnosti (“S”, “F”, “B”, “A”)

KATEGORIJE ZA ZAŠČITO OČI IN OBRAZA – MEHANSKE POŠKODBE

PARAMETRI	ZAŠČITNA OČALA	OČALA	ŠČITNIKI ZA OBRAZ
Povečana odpornost na udar (5,1 m / s) - označite S	+	+	+
Odpornost na nizek energijski udar (45 m / s) - označite F	+	+	+
Odpornost na srednji energijski udar (120 m / s) - oznaka B	-	+	+
Odpornost na visoki energijski udar (190 m / s) - oznaka A	-	-	+

Vrsta filtra Zaščita pred sevanjem:

2	ultravijolični filter
2C or 3	ultravijolični filter (UV), dobra vidljivost barv
4	infrardeči IR filter
5	filter za zaščito pred soncem (zaščita pred soncem) brez zaščite pred infrardečim sevanjem
6	filter za zaščito pred soncem (zaščita pred soncem) z zaščito pred infrardečim sevanjem

Odtenek	Faktor prepuščanja svetlobe
1.2	100 – 74.4 %
1.4	74.4 – 58.1%
1.7	58.1 – 43.2%
2.0	43.2 – 29.1%
2.0	43.2 – 29.1%
2.5	29.1 – 17.8%
3.1	17.8 – 8.0%
4.1	8.0 – 3.0%
...	
16	0.000061 – 0.000023%

Optični razred:

1 za stalno uporabo
2 za prekinjeno uporabo
3 za občasno uporabo

Mehanski simboli trdnosti:

S povečano udarno energijo - odpornost na udarce jeklenih kroglic 43 g nominalnega premera 22 mm pri hitrosti 5,1 m / s

F nizka energija udarca - odpornost na udarce 0,86 g jeklenih kroglic z nominalnim premerom 6 mm pri hitrosti 45 m / s

B srednja udarna energija - odpornost proti udarcem jeklenih kroglic 0,86 g nominalnega premera 6 mm pri hitrosti 120 m / s

A visoka udarna energija - odpornost na udarce jeklenih kroglic 0,86 g z nazivnim premerom 6 mm pri hitrosti 190 m / s (za ščitnike za obraz)

Področja uporabe (za očala)

3 odporne na tekočino (v obliki kapljic ali špricanja)
4 odporne na grobe prašne delce (večje kot 5 µm)
5 odporne na pline in fine prašne delce (pare, meglo in prah z velikostjo delcev manj kot 5 µm)
8 odporen na električni udar zaradi kratkega stika
9 odporne na staljeno kovino i prodiranje vročih trdnih snovi

Dodatni simboli zaščitnih lastnosti:

K odporne na površinske poškodbe z drobnimi delci prahu
N odporne na zameglitev
R povečan koeficient refleksije
T odporne na delce pri ekstremnih temperaturah. Zagotovljen interval odpornosti -5° C - 55° C

OBRAZNI ŠČITNIKI

Obrazni ščitniki zaščitijo celoten obraz. Njihova velika površina zmanjšuje nevarnost škropljenja nevarnih tekočin v notranjost ščitnika. Obrazni ščitniki se lahko uporabljajo v kombinaciji z očali (varnostnimi ali korektivnimi), zaščitnimi očali in nekaterimi vrstami zaščite za dihanje.

Ščitniki se namestijo neposredno na uporabnikovo glavo ali zaščitne čelade. Objektivi takšnih ščitnikov so običajno izdelani iz masivnega polikarbonata ali polikarbonata, prevlečenega s plastmi, ki reflektirajo uporabo toplotnega sevanja, kjer je toplotno sevanje še posebej visoko.

OZNAČEVANJE OBRAZNIH ŠČITNIKOV



- identifikacija proizvajalca, oznaka modela
- standardna številka
- optični razred
- mehanska odpornost
- visoka odpornost na udar velike hitrosti
- odpornost na škropljenje tekočine
- CE oznaka

VARILNE MASKE

Varilne maske in ročne varilne maske se uporabljajo pri obločnem varjenju, plamenskem varjenju, rezanju s kisikom in plazemskem varjenju

Varilne maske so lahko opremljene z enim samim varilnim filtrom ali dvema varilnima filtroma, od katerih je en filter samo za opazovanje, drugi pa je pravi, temnejši filter, ki se uporablja za opazovanje postopka varjenja.

Uporabljajo se tudi varilne čelade z avtomatskimi varilnimi filtri. Takšni filtri samodejno zatemnijo vidno območje med npr. varjenjem z električnim ali plazemskim varjenjem. Ko obloka ni več (postopek hlajenja vara) samodejno osvetlijo vidno polje.

Varilne maske so lahko dodatno opremljene s prezračevalnim sistemom, ki zagotavlja zrak iz zadnje strani varilne glave, kar bistveno zmanjša količino hlapov, ki nastanejo pri varjenju (prah in plini) ali pa so opremljeni z nosilci za filtrirne naprave za filtriranje pri napravah, ki uporabljajo zračno silo. Ročno nošene varilne maske ščitijo oči, celoten obraz in vrat varilca. Osnovna omejitev ročne varilne maske je, da jo je treba med varjenjem držati v roki, kar bistveno zmanjšuje svobodo gibanja varilca in preprečuje, na primer, držanje predmeta, ki se vari.

OZNAČEVANJE VARILNIH MASK



- Identifikacija proizvajalca, oznaka modela
- Standardna številka
- CE oznaka

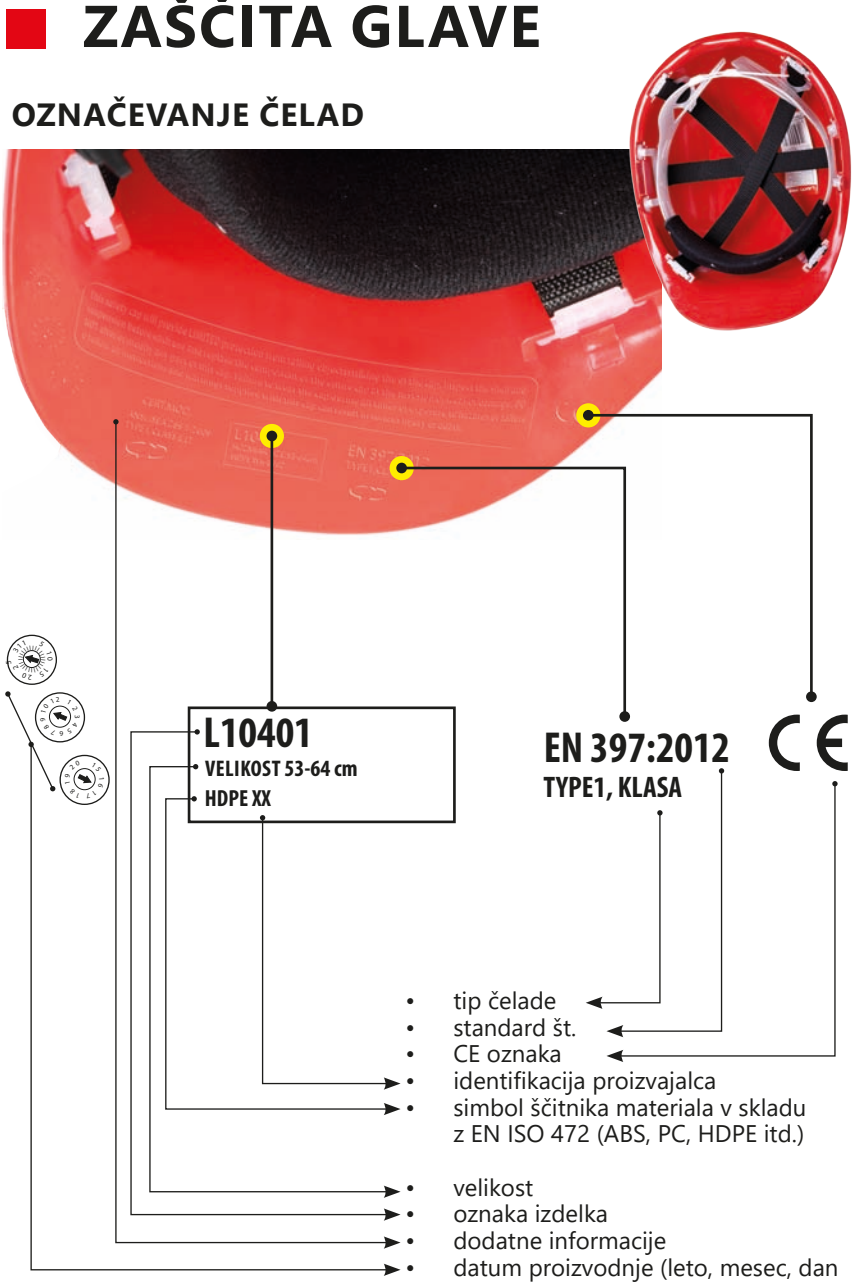
Izbira varilnih filtrov v skladu z EN 169 / EN175

POSTOPEK	TOK [A]																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Pokrite elektrode	8							9		10		11		12			13			14	
MAG	8							9		10		11			12			13			14
TIG	8				9			10			11			12		13					
MAG težke kovine								9		10			11			12		13	14		
MIG lahke zlitine										10			11		12		13		14		
Varjenje s pomočjo plamena	10											11		12		13		14		15	
PAC									9		10		11			12			13		
PAW	4		5		6		7		8		9		10			11			12		

- **MIG** – varjenje s pomočjo potrošne elektrode zaščitene z inertnim plinom
- **MAG** – varjenje s pomočjo potrošne elektrode, zaščitene z aktivnim plinom
- **TIG** – varjenje s pomočjo volframove elektrode, zaščitene z inertnim plinom
- **Varjenje s pomočjo plamena** – varjenje s pomočjo plamena z ogljikovo elektrodo in stisnjenim zrakom, ki pihajo iz staljene kovine
- **PAC** – rezanje s plazemskim oblokom
- **PAW** – plazemsko varjenje

ZAŠČITA GLAVE

OZNAČEVANJE ČELAD



Seznam standardov

EN 397 – Industrijske zaščitne čelade Ta standard določa zahteve in parametre, pomembne za varnost, metode testiranja in zahteve za označevanjem za industrijske zaščitne čelade. Določene so bile obvezne in dodatne zahteve za varnostne parametre

Obvezne zahteve

- **absorpcija udarca** (udarna energija, ki se prenaša na model glave, ne sme presegati 5 kN pri prostem padcu 5 kg z višine 1 m)
- **penetracijska odpornost** (3kg udarec z višine 1m ne sme deformirati čelade na način, da bi se dotaknil glave)
- **Odpornost proti plamenu** (plamen gorilnika pod kotom 45 stopinj mora biti oddaljen od 50 do 100 mm in pride v stik z vrhom čelade za 10 s. Nosilec čelade ne sme goreti in širiti ogenj več kot 5 sekund po izpostavljenosti odprtemu ognju)

Dodatne zahteve:

- absorpcija udarca pri zelo nizkih temperaturah -20°C ali – 30° C
- absorpcija udarca pri zelo visokih temperaturah + 150° C
- električna izolacija – 440 Vac
- vzdolžne deformacije – LD
- škropljenje staljene kovine – **MM**

Trajnost čelade

Datum izdelave čelade je natisnjen na notranji strani čelade (najpogosteje na obodu). Kodiran je v obliki treh ščitov. Glava puščice, ki se nahaja v vsakem ščitu prikazuje leto, mesec in dan proizvodnje. Čelada ima popolne zaščitne lastnosti 2 leti od datuma začetka uporabe ter ne dlje kot 3 leta od datuma proizvodnje.

ZAŠČITA SLUHA

SEZNAM STANDARDOV

EN352-1 – Ščitniki za ušesa – Splošne zahteve Del 1 Zaščitni naušniki. Ta standard določa zahteve, ki se nanašajo na strukturo, dizajn, delovanje, označevanje in informacije za uporabnike naušnikov.

EN352-2 – Ščitniki za ušesa – Splošne zahteve – 2. del: Ušesni čepki. Ta standard določa zahteve, ki se nanašajo na strukturo, zasnovo, delovanje, označevanje in informacijae za ušesne čepke

EN352-3 – Ščitniki za ušesa – Splošne zahteve – 3. del: Naušniki, pritrjeni na industrijske zaščitne čelade. Ta standard določa zahteve, ki se nanašajo na strukturo, zasnovo, delovanje, označevanje in informacije za uporabnika naušnikov, pritrjenih na industrijske zaščitne čelade.

Osnovni parametri standarda EN352

- **prilagoditev** – ocenjuje se možnost prilagajanja naušnikov glavam različnih velikosti
- **pritisk na glavo** – največji tlak na glavi je 14 N
- **tlak zračne blazine** – maksimalni tlak blazine za zmanjšanje hrupa je 4.500 Pa
- **odpornost na poškodbe** – izdelek se spusti z višine 1,5 metra na jekleno ploščo
- **vnetljivost** – površine proizvoda se dotakne s palico, ki je segreta na 650 ± 20° C za 5 sekund; površina se ne sme biti vžgati ali tleti po odstranitvi palice.

ZAHTEVE DIREKTIVE 2003/10 / EC

Minimalne zahteve za zaščito delavcev pred tveganjem zaradi izpostavljenosti hrupu

Izpostavljenost **8 ur do> 85 dB**	Izpostavljenost v času **8 ur do> = 80 dB**	Zpostavljenost v času 8 ur do> **70 dB i> = 80 dB**
Zaščita sluha je obvezna	Zaposlenemu morajo biti na razpolago ščitniki za sluh	Priporoča se zaščita sluha



Ščitniki za ušesa so najpreprostejša in najhitrejša metoda za zaščito sluha pred delovanjem hrupa

Ščitniki za ušesa so razdeljeni v:



- Naušniki
- Ušesni čepki

ZMANJŠANJE

SNR Poenostavljanje zmanjšanje hrupa Vrednost enote zmanjšanja hrupa.

HML Vrednost zmanjšanja šuma je izražena glede na povprečno frekvenco

- **H:** Zmanjšanje visokih frekvenc (visoki toni)
- **M:** Zmanjšanje srednjih frekvenc
- **L:** Zmanjšanje nizkih frekvenc (nizki toni)

NAUŠNIKI ZA ZAŠČITO PRED HRUPOM

Ščitnika za ušesa so izdelani iz dveh posodic za zmanjševanje hrupa, ki pokrivata ušesni školjki in sta trdno pritisnjeni ob glavo z mehkimi tesnili, ki so običajno napolnjeni s plastično peno ali tekočino. Naušniki za dušenje so običajno napolnjeni z materialom, ki absorbira zvok. Naušniki se lahko nosijo ali pritrdijo na zaščitne čelade

ČEPKI ZA UŠESA

Čepki za ušesa so ščitniki za sluh, ki se nosijo v zunanjem slušnem kanalu. Namenjeni so tesnemu zapiranju slušnega kanala. Na voljo sta dve vrsti čepkov za ušesa: za enkratno uporabo in večnamenski čepki. Oblikuje jih lahko proizvajalec (izdelani so iz silikona) ali uporabnik sam (npr. pena). Čepki za ušesa so na voljo v verziji z naglavnim trakom. Naglavni trak služi kot tlačna vzmet in služi za zadrževanje čepka znotraj ali na vstopni točki v slušni kanal. Naglavni trak lahko nosite na vrhu glave, pod brado ali na zadnji strani glave. Velikost čepkov je treba skrbno izbrati za vsakega uporabnika, saj lahko slabo nameščeni čepki povzročajo nelagodje ali draženje slušnega kanala.



OZNAČEVANJE UŠESNIH ČEPKOV

Zaradi narave izdelka je treba oznake na čepkih namestiti na pakiranje ali dozator.

- navodila za nošenje in uporabo
- velikosti
- standardna številka
- oznaka CE



OZNAČEVANJE NAUŠNIKO

- Identifikacijska oznaka proizvajalca
- CE znak
- standard št.
- oznaka spredaj / zadaj, zgoraj / spodaj, če je postavitev naušnikov pomembna

ZAŠČITA DIHAL

OZNAČEVANJE POL - MASK



- Znak CE in telo št
- pozitivni rezultat testa za zamašitev zaradi dolomitnega prahu
- oznaka za ponovno uporabo (NR - enkratna uporaba; R - večkratna uporaba)
- posamezna številka izdelka
- standard št.
- datum izdelave
- oznaka modela
- razred zaščite
- ime proizvajalca

SEZNAM STANDARDOV

EN149:2001 Zaščitni dihalni aparati –filtrirne pol – maske za zaščito pred delci – Zahteve, testiranje, označevanje. Ta standard se uporablja za pol –maske za filtriranje, ki so uvrščene v III. kategorijo zaščite. Zagotovljene so minimalne zahteve za testiranje in označevanje za filtrirne pol – maske, ki se uporabljajo za zaščito dihalnih poti pred delci, razen za maske, ki se uporabljajo v sili (nujnem primeru).

MAC – najvišja dovoljena koncentracija strupene kemične spojine za različne škodljive dejavnike
- vpliv, ki ga imajo na zaposlenega v 8 urah dnevnega povprečja v tedenskem delovnem času, je naveden v Zakonu o delu: v času njihove poklicne dejavnosti ne smejo povzročati nikakršne negativne spremembe v njihovem zdravstvenem stanju.

ZAŠČITA MED DELOM JE POTREBNA, KO

- koncentracija nevarnih snovi v zraku presega najvišjo dovoljeno koncentracijo (MAC) za te snovi
- je vsebnost kisika v vdihnjenem zraku manjša od 17% sestave zraka
- temperatura vdihanega zraka presega sprejemljivi standard za temperaturo, na kateri lahko oseba dela

Filtracijske pol-maske se delijo glede na učinkovitost filtriranja na tri razrede **FPP1, FPP2 in FPP3.**

Učinkovitost filtriranja za vsak razred

	FFP1	FFP2	FFP3
Koncentracija škodljivih snovi	do 4xMAC	do 10xMAC	do 30xMAC
Učinkovitost filtriranja	80%	94%	99%
Prepustnost	20%	6%	1%
Začetni upor pri dihanju 95 l / min	<210 Pa	<240 Pa	<300 Pa

ZAŠČITA ROK

Zaščitne rokavice so izjemno pomemben element zaščite na delovnem mestu. Uporabljajo se za zaščito rok pred neželenimi dejavniki in / ali škodljivimi dejavniki za zdravje in življenje. Ustrezno izbrane zaščitne rokavice ne zagotavljajo le ustrezne zaščite rok, ampak zagotavljajo tudi maksimalno udobje pri uporabi in pozitiven vpliv na varnost in kakovost opravljenega dela.

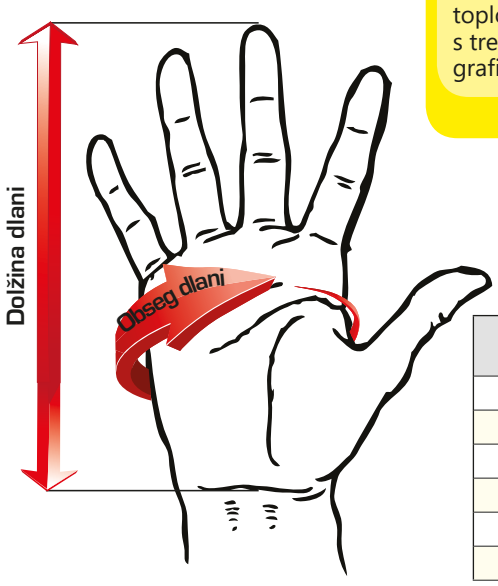




KAKO IZBRATI ZAŠČITNE ROKAVICE

Velikost

Spodnja tabela prikazuje smernice standarda **EN 420** glede na specifično velikost rokavic, ki so dodeljene posameznim velikostim dlani. Lahti Pro zaščitne rokavice zagotavljajo uporabniku optimalen oprijem in zagotavljajo varnost in udobje med uporabo.



Velikost	Dolžina dlani	Obseg dlani
6 [XS]	16.0 cm	to 15.2 cm
7 [S]	17.1 cm	to 17.8 cm
8 [M]	18.2 cm	to 20.3 cm
9 [L]	19.2 cm	to 22.9 cm
10 [XL]	20.4 cm	to 25.4 cm
11 [2XL]	21.5 cm	to 27.9 cm

SEZNAM STANDARDOV

EN 420
Zaščitne rokavice – Splošne zahteve in metode testiranja. Ta standard se uporablja za vse zaščitne rokavice, ne glede na kategorijo zaščite, ki jim rokavice pripadajo (zato se uporablja
glede na stopnjo zaščite I, II in III). V njem se navajajo splošne zahteve in ustrezni postopki testiranja, ki se uporabljajo za konstrukcijo in strukturo rokavic, odpornost materiala na prodor vode, njihovo varnost, udobje uporabe in oznako učinkovitosti, kot tudi podatke, ki jih proizvajalec zagotovi za vse vrste zaščitnih rokavic.

EN 388 – **Zaščitne rokavice za zaščito pred mehanskimi tveganji.**
Ta standard se uporablja za zaščitne rokavice kategorije II. To vključuje zahteve, preskusne metode, označevanje in informacije, ki so na voljo uporabniku. Test rokavic vključuje
odpornost na mehanske poškodbe, kot so abrazija, rezanje z ostrim nožem, trganje in vrtanje. Parametri odpornosti mehanskih rokavic so določeni s štirimi številkami na dnu grafičnega simbola.

EN 407 – **Zaščitne rokavice proti toplotnim tveganjem (vročina in / ali požar).**Ta standard se uporablja za zaščitne rokavice kategorije II. Zajema splošne zahteve, metode testiranj za ocenjevanje stopnje učinkovitosti v okviru toplotnega tveganja, označevanje in informacije, ki se posredujejo uporabniku. Testiranje rokavic vključuje odpornost na toplotne nevarnosti, kot so požar ali visoke temperature. Parametri toplotne odpornosti za rokavice so določeni s šestimi številkami na dnu grafičnega simbola.

EN 511 – Zaščitne rokavice za zaščito pred mrazom. Ta standard se uporablja za zaščitne rokavice kategorije II. Vključuje zahteve za označevanje in informacije, ki se posredujejo uporabniku, kot tudi rokavice, testirane za zaščito pred konvekcijo in hladno prevodnostjo do -50° C. Toplotna odpornost - Parametri toplotne odpornosti rokavic so določeni s tremi številkami na dnu
grafičnega simbola

EN ISO 10819 – **Mehanske vibracije in udarci** – Vibracije rok – Metoda merjenja in ocenjevanja prenosljivosti vibracij z rokavic na dlani. Ta standard se uporablja za zaščitne rokavice kategorije II. Vključuje potrebne oznake in informacije, ki jih je treba dostaviti uporabniku, ter laboratorijsko merilno metodo in metodo za analizo podatkov in pripravo poročil o testiranju prenosa vibracij
rokavice z materialom, ki zmanjšuje vibracije, ki pokrivajo dlan roke in prste s palcem. V skladu z uveljavljenim preskusnim postopkom za rokavice, ki so predložene za zaščito pred vibracijami, sta opredeljena dva numerična koeficienta, ki so značilni za rokavice:

- popravljen prenos vibracij TRM za M--testni signal (frekvenčni razpon 32-200 Hz)
- popravljen prenos vibracij TRH za H--testni signal (frekvenčno območje 200-250 Hz)

EN 12477 – **Zaščitne rokavice za varjenje.** Ta standard velja za zaščitne rokavice v zaščiti kategorije II. Zajema zahteve glede označevanja in informacije, ki jih je predložil proizvajalec, ter preskus varilnih rokavic, ki se uporabljajo pri ročnem varjenju kovin, rezanju in s tem sorodnimi postopki. V skladu z zgoraj navedenim standardom so zaščitne rokavice za varilce razdeljene v naslednje skupine:

- tip A (zagotavlja izpolnjevanje zahtev v okviru zaščitnih lastnosti na višjem nivoju)
- B tip B (uporablja se za delo, ki zahteva veliko spretnosti, npr. Med TIG varjenjem)

EN381-7 – **Rokavice za delo z motorno žago.** Potrebne zahteve za zaščitne rokavice, ki se uporabljajo za zaščito uporabnika med delom z ročno motorno žago. Opredeljeni sta dve konstrukciji rokavic, ki ščitijo pred vrezninami motorne žage, t.j. dizajn A in dizajn B. Določene so zahteve, ki se nanašajo na odpornost na rezanje z motorno žago, mehanske dejavnike, ergonomijo in označevanje, informacije o proizvajalcu in navodil za uporabo. Vključeni so nasveti za izbiro primerne zasnove zaščitnih rokavic. Zaščita pred vrezninami z motorno žago deli rokavice v štiri razrede glede na hitrost verige motorne žage: razred 0 - 16 m / s, razred 1 - 20 m / s, razred 2 - 24 m / s in razred 3 - 28 m / s.

EN388

abcdef

Parameter	1. stopnja	2. stopnja	3. stopnja	4. stopnja	5. stopnja
(a) Odpornost na abrazijo (število ciklov)	100	500	2000	8000	-
(b) odpornost na rezanje (indeks)	1.2	2.5	5.0	10.0	20.0
(c) Odpornost proti trganju [N]	10	25	50	75	-
(d) Odpornost proti predrtjem [N]	20	60	100	150	-

Parameter	A stopnja	B stopnja	C stopnja	D stopnja	E stopnja	F stopnja
(e) Odpornost na rezanje v skladu z ISO 13977 [N]	2	5	10	15	22	30

Parameter	P stopnja
(f) Odpornost proti udarcem v skladu z EN 13594: 2015	DA

Parameters a-d acc. to EN 388:2002; parameters a-f acc. to EN 388:2016

EN407

abcdef

Parameter	1. stopnja	2. stopnja	3. stopnja	4. stopnja
(a) Obnašanje pri gorenju				
Čas po gorenju [s]	≤ 20	≤ 10	≤ 3	≤ 2
Čas po osvetlitvi [s]	No requirements	≤ 120	≤ 25	≤ 5
(b) Odpornost na kontaktno toploto				
Kontaktna temperatura Tc [oC]	100	250	350	500
Čas prehoda praga tt [s]	≥ 15	≥ 15	≥ 15	≥ 15
(c) Odpornost na prenos toplote				
Indeks prenosa toplote HTI [s]	≥ 4	≥ 7	≥ 10	≥ 18
(d) Odpornost na radiacijsko toploto	20	60	100	150
Prenos toplote t24 [s]	≥ 7	≥ 20	≥ 50	≥ 95
(e) Odpornost na kapljice fine kovinske taline				
Število kapljic	≥ 10	≥ 15	≥ 25	≥ 35
(f) Odpornost na veliko količino staljene kovine				

EN12477

Zahteve	Pogoji	
	A tip	B tip
Odpornost na abrazijo - stopnja učinkovitosti (v številu ciklov)	2 (500)	1 (100)
Raven učinkovitosti odpornosti na rezanje (indeks I)	1 (1.2)	1 (1.2)
Raven učinkovitosti odpornosti na trganje (vrednost v N	2 (25)	1 (10)
Odpornost proti prebijanje - stopnja učinkovitosti (vrednost v N	2 (60)	1 (20)
Raven učinkovitosti zaščite pred vžigom	3 (po gorenju ≤ 3 s, po osvetlitvi ≤ 25 s)	2 (po gorenju ≤ 3 s, po osvetlitvi ≤ 25 s)
Stopnja delovanja odpornosti prenosne toplote (kontaktna temperatura v° C)	1 (100)	1 (100)
Nivo odpornosti na fino špricanje staljene kovine (število kapljic)	2 (≥7)	brez zahtev
Spretnost stopnja učinkovitosti - (premer palice v mm)	1 (11)	4 (6.5)

EN511

abc

Parameter (premer palice v mm)	1. stopnja	2. stopnja	3. stopnja	4. stopnja
(a) Toplotna izolacija				
Toplotna izolacija ITR [m2K / W]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(b) Toplotna odpornost				
Toplotna odpornost R [m2K / W]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

C - parameter - odpornost na prodiranje vode - 0 ali 1



Material za prema-zovanje / oprijem

"DELOVNE" ROKAVICE IZ SINTETIČNEGA USNJA

Sintetično usnje je material, ki ga odlikuje izdržljivost in odpornost proti obrabi. Sintetične usnjene rokavice imajo običajno več ojačitev, blazinice, ki ščitijo pred žulji in vibracijami ter velcro trak za zapestje. Trpežnost, udobje uporabe in dodaten občutek predmeta, ki se ga drži, pripomorejo, da so te rokavice priljubljene v avtomobilskih delavnicah in so zato znane kot "delovne" rokavice. Vendar pa so zelo priljubljene tudi v transportni industriji, skladiščih in pri ostalih opravilih.

NARAVNE USNJENE ROKAVICE

Naravne usnjene rokavice kažejo visoko odpornost na obrabo. Za njih je značilna tudi dobra zračnost. Zagotavljajo maksimalno udobje pri uporabi in dober oprijem predmeta, s tem pa zadovoljujejo tudi najzahtevnejše uporabnike. Zaradi široke palete uporabe se usnjene rokavice uporabljajo v številnih sektorjih, kot so gradbeništvo, transport, avtomobilska industrija in kmetijstvo

ROKAVICE IZ LATEKSA

Lateks je najbolj priljubljen premaz zaščitnih rokavic. Rokavice so prevlečene ali izdelane iz lateksa. So visoko fleksibilne pri nizkih temperaturah, visoko odpornost na trganje,

in zagotavljajo izjemne lastnosti tudi v najtežjih vremenskih razmerah. Velika raznolikost lateksov in relativno nizki proizvodni stroški pomenijo, da se te vrste rokavic uporabljajo v gradbeništvu, v prometni industriji, kmetijstvu, gospodinjstvih, vrtovih in na drugih področjih.

TOPLOTNO IZOLACIJSKE ROKAVICE

Izolacijske rokavice so namenjene za delo v težkih vremenskih razmerah, vključno z nizkimi temperaturami. Njihov premaz zagotavlja vsestranskost. Mešanica sintetičnih vlaken, ki ne vpijajo vodo in ohranjajo toploto, varujejo uporabnika pred mrazom, dežjem, snegom in vetrom. Izolacijske rokavice se uporabljajo na gradbiščih, v transportni industriji in pri delu v hladilnih komorah.

ROKAVICE Z NITRILNIM PREMAZOM

Nitril, iz katerega so izdelane rokavice znamke Lahti Pro je sintetična gumijasta zmes akrilonitrila in butadiena, ki ne vsebuje lateksnih beljakovin. S kombinacijo teh dveh komponent se proizvaja fleksibilen material, ki je zelo odporen proti abraziji in hkrati zagotavlja odlično odpornost na neosvinčeni bencin, dizel, olje, heksan in parafin. Prav tako zagotavlja idealno zaščito pred oljem in maščobami. Rokavice, obložene z nitrilom, se pogosto uporabljajo v transportni in avtomobilski industriji ter v kmetijstvu in vrtnarstvu. So tudi odlična alternativa za osebe, ki so alergične na lateks.

POLIURETANSKE ROKAVICE

Poliuretan je material z zelo visoko fleksibilnostjo in visoko odpornostjo na abrazije in trganje. Zaradi teh lastnosti je idealen za izdelavo rokavic s tankim premazom in istočasno zelo odpornim premazom. Poliuretanske rokavice zagotavljajo odlično spretnost in občutek držanja predmeta, s tem pa zagotavljajo odlične zmogljivosti, zlasti med delom, ki zahteva visoko natančnost. Te rokavice pogosto uporabljajo mehaniki, delavci v skladišču in domači uporabi.

PVC-OBLOŽENE ROKAVICE

Rokavice obložene s PVC - jem odlikuje izvrstna odpornost proti maščobam, oljem, mastem, blagim čistilnim sredstvom in tudi na vodo, zato zagotavljajo relativno dobre zmogljivosti pri nizkih temperaturah. Uporablja se v mnogih sektorjih, vključno z avtomobilsko industrijo, kmetijstvo in prevoz.



Lastnosti premaznih / lepilnih materialov

Premazne lastnosti	Vrsta prevleke / oprijema					
	Sintetično usnje	Naravno usnje	Lateks	Nitril	Poliuretan	PVC
Elastičnost	1	1	5	4	5	3
Protizdrsne lastnosti	1	2	4	5	3	5
Adhezija (občutek držanja predmeta)	5	4	3	4	5	3
Odpornost na abrazije	5	5	2	5	5	4
Odpornost na trganje	5	5	5	1	5	1
Odpornost proti prebodu	5	5	2	5	2	3
Odpornost na vodo in njene derivate	1	2	5	3	3	5
Odpornost na masti in olja	2	3	2	5	4	5
Odpornost na ogljikovodike	1	1	1	4	1	2
Odpornost na pralna sredstva	1	1	5	4	4	5
Odpornostna ketonska topila itd.	1	1	4	1	2	1

1 Zelo nizka · 2 Nizka · 3 Srednja · 4 Visoka · 5 Zelo visoka

*Številni modeli Lahti Pro sintetičnih usnjenih rokavic ima številne PVC vložke, silikonske protizdrsne mreže itd., ki bistveno izboljšajo uporabnost rokavic. Podatki v zgornji tabeli se nanašajo samo za sintetično usnje in zato ne vključujejo lastnosti dodatnih materialov.

Opomba: Zgornja tabela predstavlja ilustrativno primerjavo lastnosti, značilnih za določeno vrsto prevleke / oprijema. Značilnosti oprijema se lahko razlikujejo glede na model rokavic.



Vrsta tkanine iz katere bi morale biti izdelane rokavice

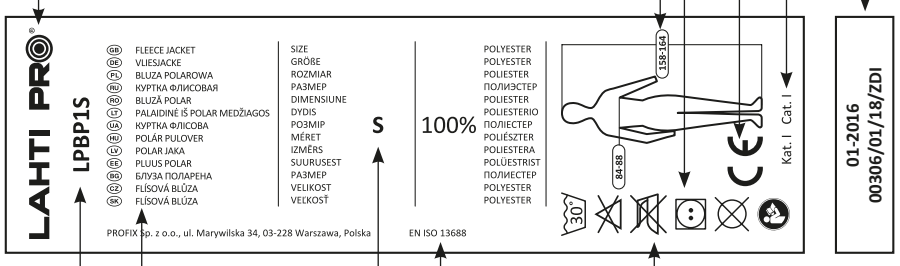
Spodnja tabela prikazuje glavne prednosti tkanin, ki se uporabljajo pri zaščitnih rokavicah:

Vrsta tkanine	Prednosti	
Poliester	⊕ Lahko se zmeša z bombažem, da se poveča udobje uporabe ⊕ Močan je in vzdržljiv ⊕ Odporen na abrazijo in raztezanje	⊕ Odporen na prodirnje tekočine ⊕ Hitro se suši ⊕ Elastičen
Bombaž	⊕ Visoko zračen, hladen, prenaša toploto ⊕ Mehek na dotik (zelo udoben) ⊕ Odporen na abrazijo	⊕ Absorbira znoj ⊕ Brez statične elektrike
Najlon	⊕ Močan in vzdržljiv ⊕ Visoka odpornost na abrazijo in raztezanje ⊕ Odpornost na olja, masti in bencin	⊕ Elastičen ⊕ Odporen na prodirnje tekočine
Akril	⊕ Popolna zaščita pred mrazom ⊕ Visoka odpornost na abrazijo in raztezanje ⊕ Mehek na dotik (zelo udoben)	⊕ Odporen na olje ⊕ Odporen na prodirnje tekočine
Modificirana sintetična vlakna	⊕ Visoka odpornost na ureznine ⊕ Odporen na prodirajoče tekočine	⊕ Zelo odporna na abrazijo in raztezanje ⊕ Elastičnost

ZAŠČITA TELESA

OZNAČEVANJE ZAŠČITNIH OBLAČIL

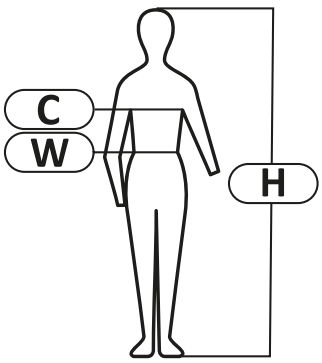
- CE oznaka
- kategorija zaščite
- metoda vzdrževanja
- datum proizvodnje - dan, mesec in leto
- zaščitni znak
- obseg velikosti



- Logo proizvajalca
- velikost
- vrsta izdelka
- standard št.

VELIKOST

C – širina prsnega koša
W – pas
H – višina



SIMBOLOV	OPIS
	Ne perite
	Ročno pranje
30°	Perite pri 30° C - normalni postopek
30°	Perite pri 30° C - nežen postopek
30°	Perite pri 30° C - zelo nežen postopek
	Ne likati
	Likanje do 110° C
	Likanje do 150° C
	Likanje do 200° C
	Ne sušite v sušilniku
	Lahko se suši v sušilnem stroju - nižja temperatura
	Lahko se suši v sušilnem stroju - normalna temperatura
	Sušiti na sušilu
	Sušiti na zraku
	Sušiti na sušilu
	Sušiti na sušilu brez likanja
P	Profesionalno suho čiščenje s perkloretilenom
	Ne beliti

SEZNAM STANDARDOV

EN ISO 13688 - **Varovalna obleka** - Splošne zahteve. Ta mednarodni standard določa splošne zahteve glede dizajna, ergonomije, neškodljivosti, označevanja velikosti, staranja, kompatibilnosti in označevanja zaščitnih oblačil ter informacij, ki jih mora proizvajalec namestiti na zaščitno obleko. Ta mednarodni standard je namenjen uporabi v kombinaciji z drugimi standardi, ki vsebujejo posebne zahteve glede zaščite in ne samostojno.

EN ISO 20471 – **Oblačila visoke vidljivosti -** Preskusne metode in zahteve. Ta standard določa zahteve za dobro vidna oblačila, ki lahko vizualno signalizirajo prisotnost uporabnika. Oblačila z visoko vidljivostjo so oblikovana tako, da zagotavljajo vidljivost nosilca v vseh svetlobnih pogojih, ko jih osvetlijo upravljavci vozil ali druge mehanske naprave pri dnevni svetlobi in pod žarometi v temi. To jasno opredeljuje zahteve glede barve, retrorefleksije, kot tudi za minimalne zahtevane površine in za vstavljanje materiala v zaščitno obleko. Poleg tega nalaga obveznost obveščanja uporabnika o največjem številu ciklov in priporočeni metodi pranja oblačil, da se ohrani ustrezna raven zaščite.

EN ISO 20471

Ta standard ohranja klasifikacijo oblačil v 3 kategorijah glede na najmanjšo površino odsevnega materiala na m2. Kategorija 1 je najnižja kategorija, kategorija 3 pa predstavlja najvišjo stopnjo vidljivosti.

	Kategorija oblačil 1	Kategorija oblačil 2	Kategorija oblačil 3
Materiali v ozadju	0.8 m²	0.5 m²	0.14 m²
Odsevni material	0.2 m²	0.13 m²	0.10 m²
Material s kombiniranimi lastnostmi	...	...	0.2 m²

OBLAČILA ZA VARJENJE

Kot osebna zaščitna oprema kategorije II mora biti varilna obleka certificirana v skladu z EC tipskim pregledom v skladu z Direktivo 89/686 / EEC.

NAMEN

Zaščitna oblačila za varjenje je potrebna za varilska dela, vključno z varjenjem, spajkanjem, lepljenjem in termičnim rezanjem kovin ter termoplastov. Med varjenjem so varilci izpostavljeni nevarnostim, kot so odsev, brizganje, strupene in rakotvorne varilne pare in prah, elektromagnetno polje, UV in toplotno sevanje, električnemu šoku, požaru, zastrupitvi in boleznim kože, oči in pljuč.

POGOJI ZA MATERIAL

Zaščitna obleka za varjenje je pretežno izdelana iz ognjevarne bombažne tkanine, impregnirane z visoko gostoto površin in iz naravnega usnja, ki je prevlečen zaradi odpornosti na ogenj.

POGOJI ZA IZDELAVO

Zaščitna obleka za varjenje mora izpolnjevati posebne konstrukcijske zahteve za zmanjšanje TVEGANJA vročega brizganja in prodiranja v oblačila:

- Zaščitna obleka mora med varjenjem pokrivati celotno telo uporabnika: zgornji in spodnji del telesa, vrat, ramena, roke in noge.
- Če so oblačila sestavljena iz jakne in hlač, naj seže jakna okoli pasu preko hlač vsaj 20 cm. Minimalno prekrivanje je treba vzdrževati pri vseh aktivnostih in gibanjih na delu.
- Deli oblačil, ki delujejo kot dodatna zaščita, kot so ščitnik za vrat, kapuca, rokavi, predpasnik in rokavice, morajo biti oblikovani in uporabljeni za preprečevanje prodiranja isker in kovinskih kapljic v oblačila.
- Če imajo oblačila žepe, jih je treba prekriti.
- Če imajo hlače žepe, morajo biti le stranski žepi, ki ne štrlijo iz stranskih šivov več kot 10°.
- Hlače ne smejo imeti kovinske dele. Oblačila morajo biti oblikovana tako, da preprečujejo prodor električne energije, na primer preko kovinskih sponk.

RAZREDI

Obstajata dva razreda varilnih oblačil s strogo določenimi zahtevami glede učinkovitosti:

Razred 1: - zaščita pred manj nevarnimi uporabami pri varjenju in situacijah, ki povzročajo zmerno izpostavljenost škropljenju in sevanju.
Razred 2: - zaščita pred nevarnejšimi aplikacijami pri varjenju in situacijah, ki povzročajo znatno izpostavljenost vročim dejavnikom. Z navedenimi oddelki oblačil so dodeljene vrste uporabe varjenja in vrste procesov (vrste uporabljenih strojev) v skladu z EN ISO 11611 za pomoč pri izbiri ustrezne vrste zaščitne obleke za varjenje.

Razred oblačil	Vrsta postopka varjenja	Vrsta dela
Razred 1	Ročni postopki varjenja, pri katerih pride do majhnih količin škropljenja ali kapljic staljene kovine, npr.: • plinsko varjenje, • TIG varjenje, • MIG varjenje, • varjenje z mikroplazmo, • spajkanje, • točkovno varjenje, • elektroda prevlečena z rutilom MMA varjenje	Delovanje stroja, kot so: • stroji za rezanje s kisikom, • Stroji za plazemsko rezanje, • stroji za uporovno varjenje, • toplotno brizganje, • varilne tablice
Razred 2	Ročni postopki varjenje, pri katerih nastajajo velike količine škropljenja ali kapljic staljene kovine, kot so: • MMA varjenje (z uporabo alkalnih ali celuloznih elektrod), • MAG varjenje (z uporabo CO2 ali mešanih plinov) • MIG (visoko tokovno) varjenje • galvansko varjenje s polnilom • rezanje s plazmo • poglabljanje • rezanje z gorilnikom • razprševanje toplote	Delovanje stroja pod pogoji: • v zaprtih prostorih, • za postopke varjenja / rezanja, ki zahtevajo delo iznad glave ali se delo izvaja v podobnih • omejenih položajih



SEZNAM STANDARDOV

EN ISO 11611

EN ISO 11611 Zaščitna obleka za varjenje in s tem povezani postopki.

Ta standard vsebuje minimalne osnovne zahteve in preskusne metode zaščitnih oblačil, ki so namenjene za nošenje med varjenjem in s tem povezanimi postopki s primerljivimi tveganji. Ta vrsta oblačil je namenjena zaščiti uporabnika pred škropljenjem staljene kovine, iskrenjem brušenja kovin, kratkim stikom s plamenom in toplotnim sevanjem iz električnega obloka. Zmanjša možnost električnega udara zaradi kratkotrajnega, naključnega stika z električnimi žicami pod napetostjo do približno 100V pri normalnih pogojih in med varjenjem.
Postopek A1 - metoda preskusa površinskega vžiga
Postopek A2 - preskusna metoda vžiga robov \ T
Skladnost A1 + A2 - omejeno širjenje plamena

EN ISO 11612

EN ISO 11612 Zaščitna obleka - Obleka za zaščito pred toploto in plamenom.

Minimalne zahteve glede izdelave. Standard določa zahteve za zaščitna oblačila, namenjena zaščiti telesa uporabnika, ki ni roka, pred vročino in plamenom. Uporabljajo se zahteve iz norme za široko paleto zaščitnih oblačil, ki morajo pokazati požarno odpornost po kratkem stiku s plamenom, omejiti širjenje plamena (A1 + A2) in zaščititi pred vsaj eno vrsto toplote. Stopnje zaščite pred toploto (večja kot je številka, boljša je zaščita):

- toplotna zaščita (B1, B2, B3)
- toplotno sevanje (C1, C2, C3, C4)
  pršenje staljenega aluminija (D1, D2, D3);
  brizganje staljenega železa (E1, E2, E3);
- kontaktna toplota (F !, F2, F3)

ANTISTATIČNA OBLAČILA

Kot osebna zaščitna oprema razreda 2 morajo biti antistatična oblačila certificirana v skladu z EZ testom v skladu z Direktivo 89/686 / EEC.

NAMEN

Antistatična zaščitna obleka je potrebna na nevarnih območjih (kot so kemična, rudarska, naftna industrija, prevoz nevarnih snovi, plinske instalacije, elektrarne) in zunaj nevarnih območij (kot je proizvodnja elektronike za preprečevanje statičnih poškodb).

POGOJI ZA MATERIAL

Antistatična zaščitna obleka je izdelana iz materialov, ki lahko razpršijo in odvedejo statični naboj, kar preprečuje vnetljiva praznenja.

POGOJI ZA IZDELAVO

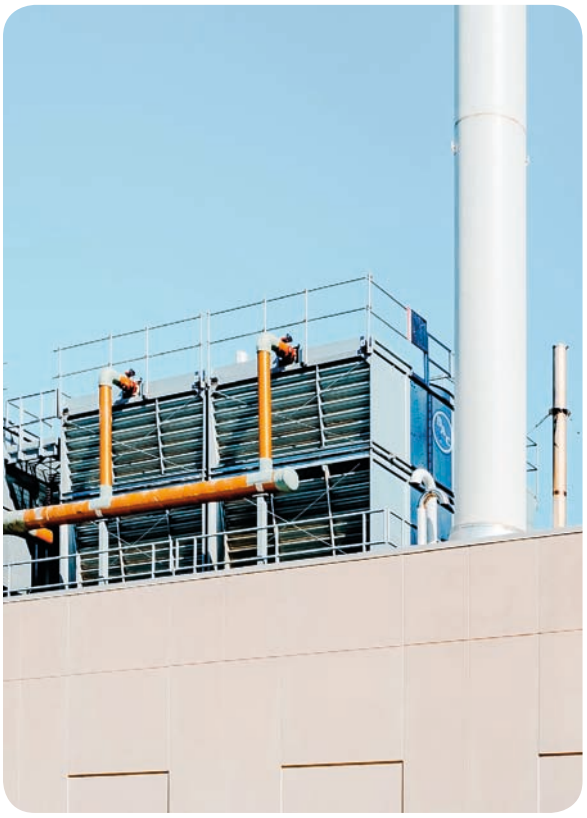
Protistatična oblačila morajo izpolnjevati posebne strukturne zahteve, da se prepreči statično praznjenje:

- Oblačila morajo pokrivati celotno telo uporabnika med gibanjem in v sklonjenem položaju.
- Oblačila se morajo dobro prilegati in ne smejo ovirati gibanja delavca, tudi če so med uporabo zapeta.
- Če so oblačila izdelana iz različnih vrst materialov, mora biti zunanji sloj antistatični material.
- Pritrdilni elementi iz prevodnega materiala, kot so zapirala, gumbi in velcro zapirala, se lahko uporabljajo dokler so prekriti z antistatičnim materialom.
- V materialih, ki vsebujejo vzporedni ali prepleteni vod, razdalja med prevodnimi navoji v isti smeri ne sme presegati 10 mm.

SEZNAM STANDARDOV

EN 1149-5

EN 1149-5 Zaščitna obleka - Elektrostatične lastnosti - 5. Pogoji za material in dizajn. Standard določa metode za testiranje elektrostatičnih lastnosti materialov in konstrukcij
za elektrostatično disipativno zaščitno obleko, ki se uporablja kot del celotnega sistema ozemljitve, da se prepreči vžig. Pogoji v vnetljivih okoljih, obogatenih s kisikom, morda ne zadoščajo. Elektrostatična disipativna zaščitna obleka je znana tudi kot antistatično oblačilo.



PADEC Z VIŠINE

Dela na višinah vključujejo dela na odrih, gradbenih konstrukcijah, talnih sistemih, dimnikih, lestvah ali drugih dvignjenih mestih na višini vsaj 1,0 m nad nivojem pritličja. Višinsko delo ne vključuje dela na površini, ki je z vseh strani obdana z najmanj 1,5 m trdnimi zidovi (vključno z okni) ali je opremljena z drugimi trajnimi konstrukcijami ali napravami, ki ščitijo zaposlene pred padcem, ne glede na čas operativnega delovanja.

Evropski predpisi, ki se nanašajo na zaščito na delu, zavezujejo delodajalce, ki imajo delavce, ki delajo na višini, da zagotovijo ustrezno zaščito pred padcem. Padci so pogosto vzrok za nesreče, ponavadi resne ali smrtne. Delo na nadmorski višini je opredeljeno kot delo z visoko stopnjo nevarnosti, ki ogroža življenje in zdravje zaposlenih, uporaba osebne varovalne opreme pa je uvrščena v III. kategorijo. Med vsakim višinskim delom je zaradi velike nevarnosti za zdravje in življenje zaposlenih potrebno izvajati posebne previdnostne ukrepe.

Da bi bilo dovoljeno delati na višini, delavec:

- mora biti seznanjen s profesionalnim tveganjem povezanim z izvajanjem del;
- imeti osebno varovalno opremo, potrebno za izvajanje takšnih nalog;
- mora imeti veljavno zdravniško potrdilo za delo na višini
- je opravil usposabljanje za varnost na delovnem mestu in usposabljanje na delovnem mestu, da bi spoznal posebnosti dela na višini in nevarnosti, ki so prisotne na delovnem mestu.

V skladu z zahtevami harmoniziranega standarda PNEN365 Osebna varovalna oprema pred padcem z višine - Splošne zahteve za obratovanje, vzdrževanje, periodični pregledi, popravila, označevanje in pakiranje, periodični pregled opreme je treba opraviti vsako leto po prvi uporabi.



Za izpolnjevanje predpisanih zahtev mora vsak komplet za delo na višini vsebovati:

Varnostni pasovi (EN 361) – primarna naloga varnostnih pasov je, da zadržijo telo med padcem in zagotoviti varno razporeditev dinamičnih sil, ki se pojavijo med padcem. Za zaščito pred padcem so dovoljeni samo brezhibni varnostni pasovi za ramena in stegna.

Točka pritrditve (EN 362) – to je prva in ključna povezava sistema za osebno zaščito pred padcem. Njena naloga je povezati spojno in amortizacijsko komponento z nosilno konstrukcijo.

Komponente za povezovanje in amortiziranje (EN 355) – povezuje spojko varnostnega pasu na točko utrditve. Če pride do padca, morata povezovalni element in komponenta za blaženje udarcev ustaviti padanje in zmanjšati silo, ki nastane med upočasnitvijo padca. Funkcije spojnih in amortizacijskih komponent se lahko dosežejo s pomočjo: absorberja energije z trakom, samopovezovalnih naprav, ščitnikov pred padcem in z drugimi napravami.

SEZNAM STANDARDOV

(EN362)
Standard določa zahteve in preskusne metode za enojne in večkratne pritrdilne točke. Nadalje navaja zahteve, ki se nanašajo na označevanje, navodila za uporabo in navodila za namestitev.

(EN355)
Standard določa zahteve, preskusne metode, pravila označevanja in informacije, ki jih je treba zagotoviti uporabniku, in način pakiranja absorberja energije.

(EN361)
Standard določa zahteve, preskusne metode, pravila za označevanje, informacije, ki jih mora zagotoviti proizvajalec, in pakiranje varnostnega pasu.

ZAŠČITA NOG



Zagotavljanje ustrezne zaščite stopal in nog ima ključni vpliv predvsem na varnost pri delu, pa tudi na udobje uporabe. Zaščitna obutev je namenjena zaščiti stopal pred poškodbami, ki se lahko pojavijo med nesrečo. Zaščitna obutev lahko zaščiti stopalo pred mehanskimi in kemičnimi snovmi ter škodljivimi učinki toplote, mraza ali vlage. Zaščitna obutev najpogosteje ščiti pred različnimi vrstami nevarnosti. Raven zaščite je v veliki meri odvisna od dizajna obutve, uporabljenih materialov in opreme, kot so kapice, vložki za čevlje, držala za gležnje itd. Obutev brez zaščitnih lastnosti je namenjena za delo le zato, ker je higienska in se ne sme obravnavati kot varnostna obutev, temveč le kot profesionalna obutev.

SEZNAM STANDARDOV

EN ISO 20345 – Osebna zaščitna oprema - Varnostna obutev.
Standard določa osnovne in dodatne (neobvezne) zahteve za varnostno obutev, ki se uporablja za splošne namene. To vključuje na primer mehanska tveganja, odpornost proti zdrsu, toplotne nevarnosti, ergonomsko obnašanje. Zaščitna obutev (SB, S1 - 4) ima zaščitne lastnosti skupaj z zaščito prstov s kapicami, testiranimi na udarce s silo 200 J.

EN ISO 20347 – Osebna zaščitna oprema - Profesionalna obutev.
Standard določa osnovne in dodatne zahteve za profesionalno obutev. Posebna tveganja so zajeta v dopolnilnih standardih, povezanih z delom (npr. Obutev za gasilce, električna izolacijska obutev). Delovna obutev (OB, O1 - 5) - ima zaščitne lastnosti za zaščito pred poškodbami, ki se lahko pojavijo med nesrečo pri delu. Namenjena je vsakodnevni uporabi na mestih, kjer ni potrebna zaščita nožnih prstov.

DIZAJN OBUTVE



OZNAČEVANJE OBUTVE



KATEGORIJE VARNOSTNE OBUTVE – OSNOVNE ZAHTEVE

Kategorije varnostne obutve (EN ISO 20345)

Razred zaščite	Kapica ščiti prste pred udarcem z 200 J	Odpornost na dizelsko olje	Absorpcija energije na peti	Antistatične lastnosti	Zaščita pete	Odpornost proti prodiranju do 1100N	Omejen prodor vode in absorpcija	Razred
SB	✓							I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			II (obutev iz posameznega materiala)
S5*	✓	✓	✓	✓	✓	✓		II (obutev iz posameznega materiala)

Kategorije varnostne obutve (EN ISO 20347)

Razred zaščite	Kapica ščiti prste pred udarcem z 200 J	Odpornost na dizelsko olje	Absorpcija energije na peti	Antistatične lastnosti	Zaščita pete	Odpornost proti prodiranju do 1100N	Omejen prodor vode in absorpcija	Razred
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			II (obutev iz posameznega materiala)
O5*	x	x	✓	✓	✓	✓		II (obutev iz posameznega materiala)

KATEGORIJE VARNOSTNE OBUTVE – DODATNE ZAHTEVE

Simbol	Dodatne zahteve
P	Odpornost proti penetraciji sile do 1100 N
A	Antistatične lastnosti
C	Funkcije, ki prevajajo tok
I	Električne izolacijske lastnosti
HI	Izolacija dna pred toploto
CI	Izolacija dna pred mrazom
E	Absorpcija energije na peti
WR	Omejen prodor vode in absorpcija celotnega čevlja
WRU	Omejen prodor vode in absorpcija zunanje površine čevlja
HRO	Odpornost na visoke temperature pri kratkem stiku (do 300° C) 5° C / 1 min} 1 s)
CR	Odpornost na rezanje
M	Zaščita notranjega dela podplata
AN	Zaščita pete
FO	Odpornost zunanjega podlata na dizelsko olje
SRA	Odpornost proti zdrsu na keramični površini prekriti z natrijevim lauril sulfatom (SLS)
SRB	Odpornost na zdrs na jekleni površini, prekriti z glicerolom
SRC	Odpornost na drsenje na obeh površinah





Zakon o radu

> ***"Poslodavac ne smije dopustiti zaposleniku da obavlja posao bez osobne zaštitne opreme i radne odjeće ili obuće namijenjene određenoj radnoj stanici "***
>
> *(Zakon o radu, članak 2379 (1))*
>
> ***„Poslodavac je dužan zaposlenicima osigurati osobnu zaštitnu opremu koja ispunjava uvjete ocjenjivanja sukladnosti pod posebnim odredbama"***
>
> (Zakon o radu, članak 2376. (3))

PRAVNA OSNOVA

Uredba (EU) 2016/425 Europskog parlamenta i Vijeća od 9. ožujka 2016. o osobnoj zaštitnoj opremi i koja stavlja izvan snage Direktive Vijeća 89/686 / EEC. U skladu s pravom Europske unije (Direktiva 89/686 / EEZ od 21. prosinca 1989. o osobnoj zaštitnoj opremi, Uredba EP-a i Vijeća EU-a 2016/425 od 9. ožujka 2016. o osobnoj zaštitnoj opremi i ukidanju Direktive Vijeća **(89/686 / EEC)** i nacionalnim odredbama o sigurnosti i zdravlju i Zakonu o radu, svaki poslodavac je dužan svojim zaposlenicima pružiti osobnu zaštitnu opremu koja će biti dovoljna da ih zaštiti od bilo kakvih rizika na njihovim radnim mjestima.

Osobna zaštitna oprema je jedinica ili oprema namijenjena za nošenje ili rukovanje od strane korisnika radi zaštite od jednog ili više rizika koji mogu utjecati na sigurnost ili zdravlje korisnika.

Osobna zaštitna oprema je prilično širok pojam i nije namijenjen samo za zaštitu zaposlenika na njihovim radnim mjestima, već se primjenjuje i na uporabu koja nije povezana s radom, kao što su sport ili slobodno vrijeme. Također može uključivati: opremu za bolju vidljivost i odjeću za ne-profesionalnu uporabu. Prije stavljanja osobne zaštitne opreme na tržište, njezin proizvođač mora dokazati, kao rezultat ocjenjivanja sukladnosti, da je u skladu s bitnim sigurnosnim i zdravstvenim zahtjevima navedenima u Uredbi 2016/425. Jedan od načina dokazivanja usklađenosti osobne zaštitne opreme s osnovnim zahtjevima dokazuje ispunjavanje zahtjevima norme usklađene s gore navedenom Direktivom. Harmonizirani standardi su europski standardi koje su izradile europske organizacije za normizaciju. Oni su u skladu s bitnim zahtjevima EU smjernica i propisa te su najlakši način da proizvođač ili uvoznik pokažu pretpostavljeni proizvod sukladnosti s odgovarajućom direktivom ili propisom. Kako bi potvrdio da osobna zaštitna oprema ispunjava bitne zahtjeve, proizvođač je označava oznakom CE i izdaje izjavu o sukladnosti s Uredbom o osobnoj zaštitnoj opremi i usklađenim standardima.



KATEGORIJE OSOBNE ZAŠTITNE OPREME

Uredba o osobnoj zaštitnoj opremi dijeli osobnu zaštitnu opremu u tri kategorije zaštite, ovisno o razini rizika kojoj je zaposlenik izložen tijekom rada:

Kategorija rizika	Razina rizika	Opis
I	**Nizak**	Proizvodi iz ove kategorije osiguravaju osnovnu razinu zaštite od vanjskih čimbenika niskog rizika čiji su učinci površinski npr. manje posjekotine, ogrebotine, prljavština, blaga sredstva za čišćenje, blagi atmosferski utjecaji, kontakt s vrućim površinama koje ne prelaze 50 ° C, oštećenje očiju zbog izlaganja sunčevoj svjetlosti (osim tijekom promatranja sunca), itd.
II	**Srednji**	Proizvodi iz ove kategorije koriste se za zaštitu u uvjetima u kojima razina rizika nije klasificirana kao niska ili visoka.
III	**Visok**	Kategorija III obuhvaća isključivo rizike koji mogu prouzročiti vrlo ozbiljne posljedice kao što su smrt ili nepopravljiva šteta za zdravlje u vezi s tvarima i smjesama koje su opasne za zdravlje, atmosferu s nedostatkom kisika, štetne biološke agense, okoline s visokim temperaturama, ionizirajuće zračenje čiji učinci usporedivi su s temperaturama zraka koje su najmanje 100 ° C, okoline niske temperature čiji su učinci usporedivi s onima temperature zraka od -50 ° C ili manje, padovi s visine, strujni udari i rad s uređajima pod naponom, utapanja, rezovi od ručne motorne pile, mlaznice pod visokim tlakom, rane od metaka ili ubodi nožem, štetna buka itd.

Prije odabira odgovarajućeg Parametra Zaštite:

- definirati razinu rizika
- navesti vrstu opasnosti
- odrediti vrstu opasnosti
- odaberite proizvod s navedenim parametrima zaštite

Podjela Parametara Zaštite na skupine:



ZAŠTITA OČIJU I LICA

Oprema za zaštitu očiju i lica sprečava oštećenja očiju i lica uzrokovana mehaničkim, kemijskim, biološkim i toplinskim čimbenicima kao i štetnim zračenjem.

Opremu za zaštitu očiju i lica za profesionalnu primjenu treba koristiti gdje god postoje sljedeće opasnosti:

- vanjski utjecaj (kao što je prskanje)
- kapljice tekućine i prskanje (kao što su prskanja prilikom lijevanja tekućina)
- optičko zračenje (kao što je zračenje tijekom zavarivanja, odsjaj sunca)
- rastopljeni metali i vruće krute tvari (kao što su taline rastopljenog metala tijekom metalurških procesa)
- prašina i plinovi (kao što je ugljena prašina ili aerosoli štetnih kemikalija)
- električni luk (kao što nastaje tijekom trenutnog rada)

Oprema za zaštitu očiju i lica za profesionalnu uporabu podijeljena je u tri kategorije:



Naočale i zaštitne naočale



Štitovi za lice



Štitnici za zavarivanje
(ova kategorija uključuje štitnike, naočale i maske za zavarivanje)



POPIS STANDARDA:

EN 166 – Osobna zaštita očiju – Specifikacije. Standard određuje zahtjeve različitih vrsta osobne zaštitne opreme za oči.

EN 169 – Osobna zaštita očiju – filteri za zavarivanje i srodne tehnike – dozvoljena propusnost i preporučena uporaba. Ovaj standard osigurava potrebne oznake i dozvoljenu propusnost za filtre koji su namijenjeni za zaštitu operatera koji obavljaju radove koji zahtijevaju zavarivanje, zračno zavarivanje i plazma rezanje.

EN 170 – Osobna zaštita očiju – ultraljubičasto svjetlo – dozvoljena propusnost i preporučena uporaba Ovaj standard uključuje načela za označavanje, identifikaciju, odjeljak i uporabu filtera. Ovaj standard određuje dozvoljenu propusnost za filtre koji štite od ultraljubičastog zračenja.

EN 172 – Osobna zaštita za oči – filtri za zaštitu od sunca za industrijsku uporabu. Ovaj standard određuje kriterije odabira i dozvoljenu propusnost i uspostavlja odgovarajuće metode ispitivanja za filtre za zaštitu od sunca.

EN 1731 – Osobna zaštita za oči – Štitnici za oči i lice. Ovaj standard određuje metode projektiranja materijala, metode ispitivanja i označavanje mrežnih štitnika za oči i lice koji štite od mehaničkih opasnosti.

EN 175 – Osobna zaštita – Oprema za zaštitu očiju i lica tijekom zavarivanja i srodnih postupaka Ovaj standard određuje zahtjeve koji se odnose na sigurnosne i ispitne metode za ovu vrstu zaštite koja se koristi za zaštitu očiju i lica od optičkog zračenja i drugih specifičnih izvora rizika ili opasnosti koji se obično pojavljuju tijekom zavarivanja, rezanja i srodnih procesa.

LAHTI PRO

NAOČALE I ZAŠTITNE NAOČALE

Označavanje zaštitnih naočala koristi se za njihovo identificiranje i osigurava pravilan odabir u pogledu opasnosti na danoj radnoj stanici.

Leće (okulari) i **okviri** (nosači) označeni su zasebno. Međutim, ako čine cjelinu, svi potrebni simboli za označavanje trebaju biti na okviru.

OZNAČAVANJE NAOČALA I SIGURNOSNIH NAOČALA



CE 5-3.1 XX 1 FT

OZNAČAVANJE OKULARA

- CE oznaka
- tip filtera od 2 do 6
- boja (od 1.2 do 16)
- identifikacijska oznaka proizvođača
- optička klasa (od 1 do 3)
- simbol mehaničke čvrstoće (“S”, “F”, “B”, “A”)
- oznaka dodatnih značajki zaštite (“K”, “N”, “R”, “T”)

OZNAČAVANJE OKVIRA



CE XX EN 166 F

- CE oznaka
- identifikacijska oznaka proizvođača
- standardni broj
- simbol mehaničke čvrstoće (“S”, “F”, “B”, “A”)

Vrsta filtra — **Zaštita od zračenja:**

2	UV ultraljubičasti filter
2C or 3	ultraljubičasti filter UV prepoznavanje boja
4	infracrveni filter IR
5	filter za zaštitu od sunca (zaštita od sunca) bez zaštite od infracrvenog zračenja
6	filter za zaštitu od sunca (zaštita od sunca) sa zaštitom od infracrvenog zračenja

Faktor	**Prijenosa svjetla u sjeni**
1.2	100 – 74.4 %
1.4	74.4 – 58.1%
1.7	58.1 – 43.2%
2.0	43.2 – 29.1%
2.0	43.2 – 29.1%
2.5	29.1 – 17.8%
3.1	17.8 – 8.0%
4.1	8.0 – 3.0%
...	
16	0.000061 – 0.000023%

Optička klasa:

- **1** za kontinuiranu uporabu
- **2** za isprekidanu uporabu
- **3** za povremenu uporabu

Mehanički simboli čvrstoće:

- **S** povećana energija udarca – otpornost na udar čelične kugle od 43 g nominalnog promjera od 22 mm pri brzini od 5,1 m / s
- **F** niska energija udara – otpornost na udar 0,86 g čelične kuglice nominalnog promjera 6 mm pri brzini od 45 m / s
- B srednja energija udarca – otpornost na udaranje čelične kuglice 0,86 g nominalnog promjera 6 mm pri brzini od 120 m / s
- A visoka udarna energija – otpornost na udar 0,86 g čelične kuglice nominalnog promjera 6 mm pri brzini od 190 m / s (za štitnike za lice)

Polja upotrebe (za naočale)

- **3** otporne na tekućinu (u obliku kapljica ili prskanja)
- **4** otporne na grube čestice prašine (veće od 5 µm)
- **5** otporne na plinove i čestice fine prašine(pare, magle i prašine s veličinom čestica manjih od 5 µm)
- **8** otporne na električni udar kratkog spoja
- **9** otporne na rastaljeni metal i prodiranje vrućih krutina

Dodatni simboli značajki zaštite:

- **K** otporne na površinska oštećenja česticama fine prašine
- **N** otporne na zamagljivanje
- **R** povećan koeficijent refleksije
- **T** otporne na čestice pri ekstremnim temperaturama. Zajamčeni interval otpornosti –5 ° C – 55 ° C

KATEGORIJE ZA ZAŠTITU OČIJU I LICA – MEHANIČKE OZLJEDE

PARAMETRI	ZAŠTITNE NAOČALE	NAOČALE	ŠTITNICI ZA LICE
Povećana otpornost na udar (5,1 m / s) - označite S	+	+	+
Otpornost na niski energetski udar (45 m / s) - označite F	+	+	+
Otpornost na srednji energetski udar (120 m / s) - oznaka B	-	+	+
Otpornost na visoki energetski udar (190 m / s) - oznaka A	-	-	+

ŠTITNIK ZA LICE

Štitnici za lice štite cijelo lice. Njihova velika površina smanjuje rizik od opasnog prskanja tekućine u unutrašnjost štita. Štitnici za lice mogu se koristiti u kombinaciji s naočalama (sigurnosnim ili korektivnim), zaštitnim naočalama i nekim vrstama zaštite za disanje.

Štitovi se montiraju izravno na glavu korisnika ili zaštitne kacige. Objektivi takvih štitova obično su izrađeni od masivnog polikarbonata ili polikarbonata obloženog slojevima koji reflektiraju korištenje toplinskog zračenja gdje je toplinsko zračenje posebno visoko.

OBILJEŽAVANJE ŠTITNIKA ZA LICE



- Identifikacija proizvođača, oznaka modela
- Standardni broj
- Optička klasa
- Mehanička otpornost
- Otpornost na udar velike brzine
- Otpornost na prskanje tekućine
- CE oznaka

MASKE ZA ZAVARIVANJE

Maske za zavarivanje i ručne maske za zavarivanje koriste se tijekom elektrolučnog zavarivanja, zavarivanja pomoću plamena, rezanja kisikom i rezanja plazmom. Maske za zavarivanje mogu biti opremljene s jednim filterom za zavarivanje ili s dva filtera za zavarivanje od kojih je jedan filtar koji se koristi samo za promatranje, a drugi je pravi, tamniji filtar koji se koristi za promatranje procesa zavarivanja.

Koriste se još i kacige za zavarivanje s automatskim filterima za zavarivanje. Takvi filtri automatski zatamnjuju područje vida tijekom npr. zavarivanja električnim ili plazma lukom. Nakon što je nestao luk (nastaje hlađenje zavarivanja), oni automatski osvijetle vidno polje. Maske za zavarivanje mogu biti dodatno opremljene ventilacijskim sustavom, koji dovodi zrak sa stražnje strane glave zavarivača, što značajno smanjuje količinu udisajnih para koje nastaju pri zavarivanju (prašina i plinovi) ili mogu biti opremljeni nosačima za uređaje za filtriranje kod uređaja koji koriste silu zraka.

Ručno nošene maske za zavarivanje štite oči, cijelo lice i vrat zavarivača. Osnovno ograničenje ručne maske za zavarivanje je potreba da se drži u ruci tijekom zavarivanja, što značajno smanjuje slobodu kretanja zavarivača i onemogućuje, primjerice, držanje zavarenog objekta.

OBILJEŽAVANJE MASKI ZA ZAVARIVANJE



- identifikacija proizvođača, oznaka modela
- standardni broj
- CE oznaka

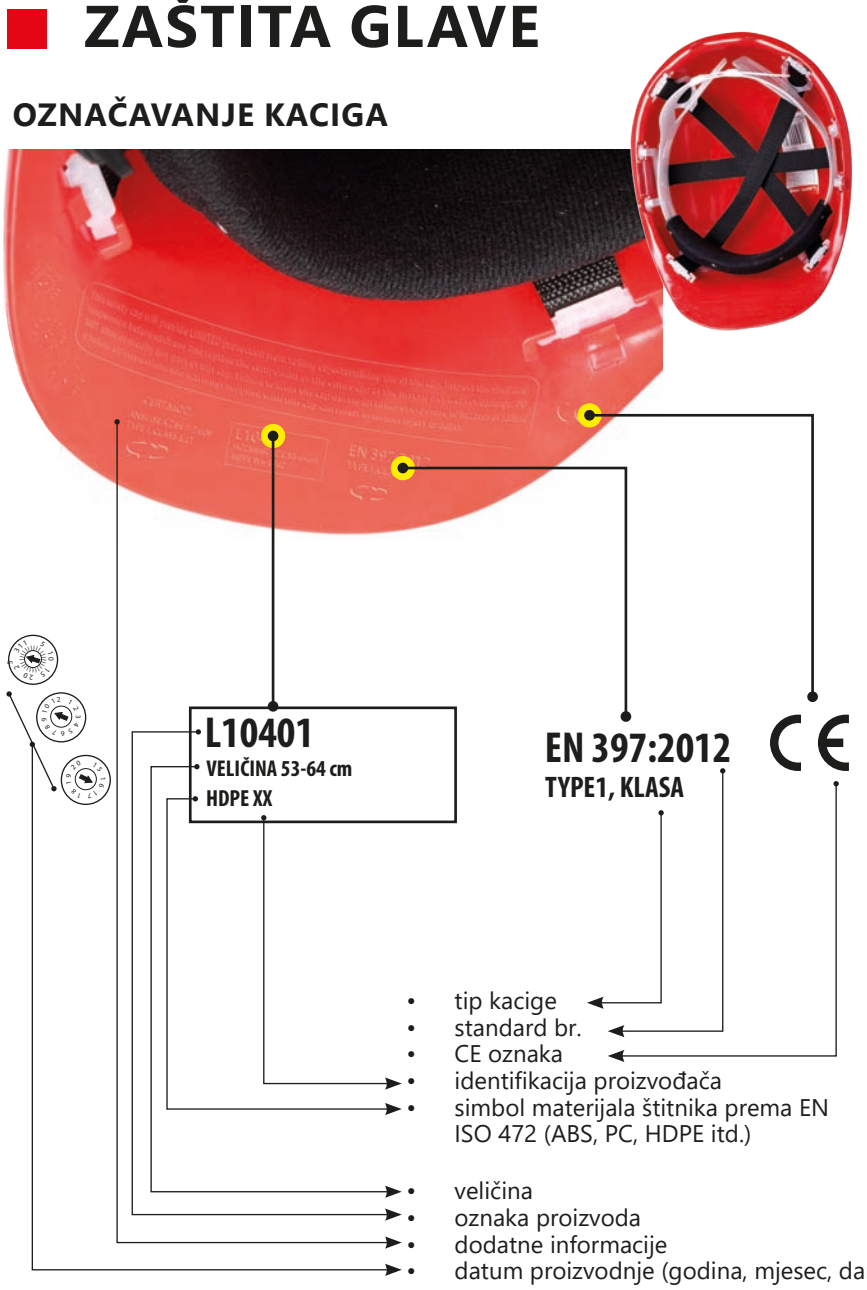
Odabir filtera za zavarivanje prema EN 169 / EN175

POSTUPAK	TRENUTNO [A]																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Pokrivene elektrode	8						9		10		11		12			13			14		
MAG	8							9	10		11			12			13			14	
TIG	8				9			10		11			12			13					
MIG teški metali								9		10			11			12		13		14	
MIG lake legure										10			11		12			13		14	
Zavarivanje pomoću plamena	10												11		12			13		14	15
Pac									9		10	11		12				13			
Paw	4			5			6	7		8		9		10			11			12	

- **MIG** – zavarivanje pomoću potrošne elektrode zaštićene inertnim plinom
- **MAG** – zavarivanje pomoću potrošne elektrode zaštićene aktivnim plinom
- **TIG** – zavarivanje pomoću volframove elektrode zaštićene inertnim plinom
- **Arc-air gouging** – zavarivanje pomoću plamena s ugljičnom elektrodom i komprimiranim zrakom koji puše iz rastaljenog metala
- **PAC** – rezanje plazma lukom
- **PAW** – plazma zavarivanje

ZAŠTITA GLAVE

OZNAČAVANJE KACIGA



POPIS STANDARDA

EN 397 – Industrijske zaštitne kacige. Ovaj standard određuje zahtjeve i parametre koji su relevantni za sigurnost, metode ispitivanja i zahtjeve označavanja za industrijske zaštitne kacige. Utvrđeni su obvezni i dodatni zahtjevi za sigurnosne parametre.

Obvezni zahtjevi

- **apsorpcija udara** (energija udara koja se prenosi na model glave ne smije prelaziti 5 kN tijekom slobodnog pada predmeta od 5 kg s visine od 1 m)
- **otpornost na prodiranje** (bušilica od 3 kg s visine od 1 m ne smije deformirati kacigu na takav način da se dodiruje model glave)
- **Otpornost na plamen** (plamen plamenika pod kutom od 45 stupnjeva trebao bi biti na udaljenosti flame od 50 do 100 mm i dolaziti u dodir s vrhom kacige na 10 s. Nosač kacige ne smije gorjeti i širiti vatru dulje od 5 sekundi nakon prestanka izloženosti otvorenome plamenu)

Dodatni zahtjevi:

- apsorpcija udara pri vrlo niskim temperaturama 20° C ili –30° C
- apsorpcija udara pri vrlo visokim temperaturama + 150° C
- električna izolacija 440 Vac
- uzdužne deformacije - LD
- prskanje rastaljenog metala – **MM**

Trajnost kacige

Datum proizvodnje kacige je utisnut na unutarnjoj strani kacige (najčešće na obodu). Kodiran je u obliku tri štita. Glava strelice koja se nalazi u svakom štitu pokazuje godinu, mjesec i dan proizvodnje. Kaciga zadržava puna zaštitna svojstva 2 godine od datuma ulaska u uporabu, ne dulje od 3 godine od datuma proizvodnje.

ZAŠTITA SLUHA

POPIS STANDARDA

EN352-1 – Štitnici za uši – Opći zahtjevi Dio 1 Naušni nastavci. Ovaj standard određuje zahtjeve koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnike naušnih nastavaka.

EN352-2 – Štitnici za uši – Opći zahtjevi – Dio 2: Čepići za uši. Ovaj standard određuje zahtjeve koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnike čepića za uši.

EN352-3 – Štitnici za uši – Opći zahtjevi – Dio 3: Naušni nastavci pričvršćeni na industrijske zaštitne kacige. Ovaj standard određuje zahtjeve koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnika naušnih nastavaka pričvršćenih na industrijske zaštitne kacige.

Osnovni parametri EN352 standarda

- **podešavanje** – procjenjuje se mogućnost podešavanja naušnika glavama različitih veličina
- **tlak na glavi** – maksimalni tlak na glavi je 14 N
- **tlak zračnog jastuka** – maksimalni tlak jastuka za smanjenje buke iznosi 4.500 Pa
- **otpornost na oštećenje** – proizvod se ispušta s visine od 1,5 metra na čeličnu ploču
- **zapaljivost** – površina proizvoda se dodiruje štapom zagrijanom na 650 ± 20 ° C tijekom 5 sekundi; površina se ne smije zapaliti ili žariti nakon povlačenja šipke.

ZAHTJEVI DIREKTIVE 2003/10 / EC

Minimalni zahtjevi za zaštitu radnika od rizika izloženosti buci

Izloženost od 8 sati do> **85 dB**	Izlaganje tijekom 8 sati do> = **80 dB**	Izloženost tijekom 8 sati do> **70 dB** i> = **80 dB**
Zaštita sluha je obavezna	Štitnici za sluh moraju biti dostupni zaposleniku	Preporučuje se zaštita sluha



Štitnici za uši su najjednostavnija i najbrža metoda za zaštitu sluha od djelovanja buke

Štitnici za slušne aparate dijele se na:



- Naušnici
- Čepići za uši

ATENUACIJA / SMANJENJE

SNR Pojednostavljeno smanjenje buke Jedinična vrijednost smanjenja buke

HML Vrijednost smanjenja šuma je izražena ovisno o prosječnoj frekvenciji

- **H:** Smanjenje visokih frekvencija (visoki tonovi)
- **M:** Smanjenje srednjih frekvencija
- **L:** Smanjenje niskih frekvencija (niski tonovi)

NAUŠNICI ZA ZAŠTITU OD BUKE

Štitnici za uši izrađeni su od dvije posude za smanjenje buke koje pokrivaju ušnu školjku i čvrsto su pritisnute uz glavu mekim brtvenim jastucima koji se obično pune plastičnom pjenom ili tekućinom. Naušnici za prigušivanje obično se pune materijalom koji apsorbira zvuk. Naušnici se mogu se nositi ili montirati na zaštitne kacige

ČEPIĆI ZA UŠI

Čepići za uši su štitnici za sluh koji se nose u vanjskom slušnom kanalu. Namijenjeni su za čvrsto zatvaranje slušnog kanala. Čepići za uši dolaze u dvije vrste: Čepići za jednokratnu upotrebu i višekratni. Mogu ih oblikovati proizvođači (npr. Napravljeni od silikona) ili korisnik (npr. Od pjene). Čepići za uši su također dostupni u verziji s trakom za glavu. Traka za glavu služi kao tlačna opruga i služi za održavanje čepića unutar ili na ulaznoj točki u slušni kanal. Traka za glavu može se nositi na vrhu glave, ispod brade ili na poleđini glave. Veličinu čepića treba pažljivo odabrati za svakog korisnika, budući da loše postavljeni čepići mogu uzrokovati nelagodu ili iritaciju slušnog kanala.





OZNAČAVANJE ČEPIĆA ZA UŠI

Zbog prirode proizvoda, oznake na čepićima za uši treba postaviti.

- upute za nošenje i uporabu
- veličine
- standardni broj
- oznaka CE

OZNAČAVANJE NAUŠNIKA

- identifikacijska oznaka proizvođača
- CE znak
- standard br.
- oznaka naprijed / natrag, gore / dolje ako je raspored naušnika važan

ZAŠTITA DIŠNOG SUSTAVA

OBILJEŽAVANJE POLUMASKI



- CE oznaka i tijelo br
- pozitivan rezultat testa za začepljenje zbog dolomitne prašine
- oznaka za ponovnu upotrebu (NR – jednokratna upotreba; R – višekratna upotreba)
- pojedinačni broj proizvoda
- standard br.
- datum proizvodnje
- oznaka modela
- klasa zaštite
- naziv proizvođača

POPIS STANDARDA

EN149:2001 Zaštitne naprave za disanje – Filtrirajuće polumaske za zaštitu od čestica – Zahtjevi, ispitivanje, označavanje. Ovaj se standard primjenjuje na polumaske za filtriranje koje su svrstane u kategoriju zaštite III. Navedene su minimalni zahtjevi za ispitivanja i obilježavanje za filtrirajuće polumaske koje se koriste kao zaštita dišnih putova od čestica, osim za maske koje se koriste u slučaju hitnog stanja.

MAC – maksimalno dopuštena koncentracija toksičnog kemijskog spoja za različite štetne čimbenike – utjecaj koji na zaposlenika tijekom 8 sati dnevnog prosjeka u tjednom radnom vremenu je naveden u Zakonu o radu: u razdoblju njihove profesionalne aktivnosti ne bi smjelo uzrokovati nikakve negativne promjene u njihovom zdravstvenom stanju.

ZAŠTITA TIJEKOM RADA JE POTREBNA KADA

- koncentracija opasnih tvari u zraku premašuje maksimalnu dopuštenu koncentraciju (MAC) za te tvari
- sadržaj kisika u udahnutome zraku je manji je od 17% sastava zraka
- temperatura zraka koji se udiše prelazi prihvatljiv standard za temperaturu u kojoj osoba može raditi

Filtrirajuće polumaske dijele se djelotvornošću filtriranja u tri razreda **FPP1, FPP2 i FPP3**

Učinkovitost filtriranja za svaki razred

	FFP1	FFP2	FFP3
Koncentracija štetnih tvari	do 4xMAC	do 10xMAC	do 30xMAC
Učinkovitost filtriranja	80%	94%	99%
Propusnost	20%	6%	1%
Početni otpor disanja od 95 l / min	<210 Pa	<240 Pa	<300 Pa

ZAŠTITA RUKU

Zaštitne rukavice su izuzetno važan element zaštite na radnome mjestu
Koriste se za zaštitu ruku od neželjenih čimbenika i / ili štetnih čimbenika za zdravlje i život.
Pravilno odabrane zaštitne rukavice neće samo pružiti odgovarajuću zaštitu ruku, nego također jamče maksimalnu udobnost korištenja i pozitivan utjecaj na sigurnost i kvalitetu izvedenog rada.





KAKO ODABRATI ZAŠTITNE RUKAVICE

Veličina

Donja tablica prikazuje smjernice standarda **EN 420** u pogledu specifičnih veličina rukavica dodijeljenih pojedinim veličinama dlanova. Lahti Pro zaštitne rukavice pružaju korisniku optimalno prianjanje i jamče sigurnost i udobnost korištenja.

POPIS STANDARDA

EN 420
- **Zaštitne rukavice** – Opći zahtjevi i metode ispitivanja. Ovaj se standard primjenjuje na sve zaštitne rukavice, neovisno o kategoriji zaštite, kojima pripadaju rukavice (stoga se primjenjuje prema stupnju zaštite I, II i III). U njemu se navode opći zahtjevi i odgovarajući postupci ispitivanja koji se primjenjuju na konstrukciju i strukturu rukavica, otpornost materijala na prodor vode, njihovu sigurnost, udobnost korištenja i oznaku učinkovitosti te podatke koje proizvođač dostavlja za sve vrste zaštitnih rukavica.

EN 388 – Zaštitne rukavice za zaštitu od mehaničkih rizika
Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. To uključuje zahtjeve, metode ispitivanja, obilježavanje i informacije koje se daju korisniku. Ispitivanje rukavica uključuje otpornost na mehanička oštećenja, kao što je abrazija, rezanje oštrim nožem, trganje i bušenje. Mehanički parametri otpornosti rukavica određeni su pomoću četiri znamenke na dnu grafičkog simbola.

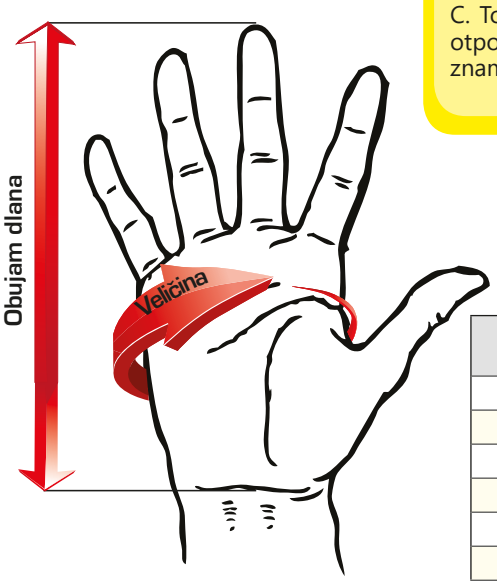
EN 407 – Zaštitne rukavice protiv toplinskog rizika (toplina i / ili požar).
Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Obuhvaća opće zahtjeve, metode ispitivanja razine učinkovitosti u okviru toplinskog rizika, označavanje i informacije koje se dostavljaju korisniku. Ispitivanja rukavica uključuju otpornost na toplinske rizike kao što su požar ili visoke temperature. Parametri toplinske otpornosti za rukavice određeni su sa šest brojeva na dnu grafičkog simbola.

EN 511 – Zaštitne rukavice za zaštitu od hladnoće. Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Obuhvaća zahtjeve za označavanje i informacije koje se daju korisniku, kao i ispitivanja rukavica koje štite od konvekcije i provođenja hladnoće do –50 ° C. Toplinski otpor - Parametri toplinske otpornosti rukavica određeni su s tri znamenke na dnu grafičkog simbola.

EN ISO 10819 – Mehaničke vibracije i udari – Vibracije ruku – Metoda mjerenja i procjene prenosivosti vibracija rukavica na dlanu. Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Uključuje potrebne oznake i informacije koje se dostavljaju korisniku, kao i laboratorijsku metodu mjerenja i metodu za analizu podataka i pripremu izvješća o ispitivanju prenosivosti vibracija rukavice s materijalom koji smanjuje vibracije koje prekrivaju dlan ruke i prste zajedno s palcem. Prema utvrđenom postupku ispitivanja za rukavice koje su predložene za zaštitu protiv vibracija, utvrđena su dva numerička koeficijenta koji karakteriziraju rukavice:
- korigirani prijenos vibracija TRM za M-testni signal (frekvencijski raspon 32–200 Hz)
- korigirani prijenos vibracija TRH za H-ispitni signal (frekvencijski raspon 200–250 Hz)

EN 12477 – Zaštitne rukavice za zavarivanje. Ovaj se standard odnosi na zaštitne rukavice u kategoriji zaštite II. Obuhvaća zahtjeve za obilježavanje i informacije koje daje proizvođač i ispitivanja rukavica za zavarivanje koje se koriste u ručnom zavarivanju metala, rezanju i u srodnim postupcima. U skladu s navedenom normom, zaštitne rukavice za zavarivače podijeljene su u sljedeće skupine:
- Tip A (osigurava ispunjavanje zahtjeva u okviru zaštitnih svojstava na višoj razini)
- Tip B (koristi se za rad koji zahtijeva veliku vještinu, npr. Tijekom TIG zavarivanja)

EN381-7 – Rukavice za rad s motornom pilom. Potrebni zahtjevi koji se odnose na zaštitne rukavice koje se koriste za zaštitu korisnika tijekom rada ručnom motornom pilom. Definirane su dvije konstrukcije rukavica koje štite od rezanja motorne pile, tj. dizajn A i dizajn B. Postavljeni su zahtjevi koji se odnose na otpornost na rezanje motornom pilom, mehaničke faktore, ergonomiju i obilježavanje, informacije o proizvođaču i upute za uporabu. Uključeni su i savjeti za odabir odgovarajućeg dizajna zaštitne rukavice.
Zaštita od rezanja motornom pilom dijeli rukavice u četiri razreda ovisno o brzini lanca motorne pile: Klasa 0 - 16 m / s, Klasa 1 - 20 m / s, Klasa 2 - 24 m / s i Klasa 3 - 28 m / s.



Duljina dlana	Obujam dlana	Veličina
6 [XS]	16.0 cm	do 15.2 cm
7 [S]	17.1 cm	do 17.8 cm
8 [M]	18.2 cm	do 20.3 cm
9 [L]	19.2 cm	do 22.9 cm
10 [XL]	20.4 cm	do 25.4 cm
11 [2XL]	21.5 cm	do 27.9 cm

EN388

abcdef

Parametar	Razina 1	Razina 2	Razina 3	Razina 4	Razina 5
(a) Otpornost na abraziju (broj ciklusa)	100	500	2000	8000	-
(b) Otpornost na rezanje (indeks)	1.2	2.5	5.0	10.0	20.0
(c) Otpornost na kidanje [N]	10	25	50	75	-
(d) Otpornost na probijanje [N]	20	60	100	150	-

Parametar	Razina A	Razina B	Razina C	Razina D	Razina E	Razina F
(**e**) Otpor rezanja prema ISO 13977 [N]	2	5	10	15	22	30

Parametar	Razina P
(**f**) Otpornost na udarce prema EN 13594: 2015	DA

EN407

abcdef

Parametri a-d acc. to EN 388:2002; parametri a-f acc. to EN 388:2016

Parametar	Razina 1	Razina 2	Razina 3	Razina 4
(**a**) Ponašanje pri gorenju				
Vrijeme nakon gorenja [s]	≤ 20	≤ 10	≤ 3	≤ 2
Vrijeme nakon svijetljenja [s]	Nema zahtjeva	≤ 120	≤ 25	≤ 5
(**b**) Otpornost na kontaktnu toplinu				
Kontaktna temperatura Tc [oC] 100 250 350 500	100	250	350	500
Vrijeme prelaska praga tt [s]	≥ 15	≥ 15	≥ 15	≥ 15
(**c**) Otpornost na prijenosnu toplinu				
Indeks prijenosa topline HTI [s]	≥ 4	≥ 7	≥ 10	≥ 18
(**d**) Otpornost na radijacijsku toplinu	20	60	100	150
Prijenos topline t24 [s]	≥ 7	≥ 20	≥ 50	≥ 95
(**e**) Otpornost na kapljice finih talina metala				
Broj kapljica	≥ 10	≥ 15	≥ 25	≥ 35
(**f**) Otpornost na veliku količinu rastaljenog metala				

EN12477

Zahtjevi	Uvjeti	
	A type	B type
Otpornost na abraziju - stupanj učinkovitosti (u broju ciklusa)	2 (500)	1 (100)
Razina učinkovitosti otpornosti na rezanje (I indeks)	1 (1.2)	1 (1.2)
Razina učinkovitosti otpornosti na kidanje (vrijednost u N)	2 (25)	1 (10)
Otpornost na probijanje - razina učinkovitosti (vrijednost u N)	2 (60)	1 (20)
Razina učinkovitosti zaštite protiv paljenja	3 (nakon gorenja ≤ 3 s, after-nakon svijetlenja ≤ 25 s)	2 (nakon gorenja ≤ 3 s, after-nakon svijetlenja ≤ 25 s)
Stupanj djelovanja otpornosti prijenosne topline (kontaktna temp. u ° C)	1 (100)	1 (100)
Resistance to fine splashes of molten metal - level of efficiency (number of droplets)	2 (≥7)	nema zahtjeva
Razina otpornosti na fino prskanje rastopljenog metala (broj kapljica)	1 (11)	4 (6.5)

EN511

abc

Razina učinkovitosti (promjer štapa u mm)	Razina 1	Razina 2	Razina 3	Razina 4
(**a**) Toplinska izolacija				
Toplinska izolacija ITR [m2K / W]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(**b**) Toplinski otpor				
Toplinski otpor R [m2K / W]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

C- parametar - otpornost na prodiranje vode - 0 ili 1

Materijal za premazivanje / prianjanje

"RADNIČKE" RUKAVICE OD SINTETIČKE KOŽE

Sintetička koža je materijal karakteriziran izdržljivošću i otpornošću na habanje. Rukavice od sintetičke kože obično imaju brojna pojačanja, jastučiće koji štite od žuljeva i vibracija te čičak traku za zapešće. Izdržljivost, udobnost korištenja i dodatni osjećaj držanog predmeta čine rukavice popularnim alatom u radionicama za automobile i stoga su nadaleko poznate kao "radničke" rukavice. Međutim, one su također vrlo popularne u industriji transporta, u skladištima i svim vrstama slobodnih aktivnosti.

RUKAVICE OD PRIRODNE KOŽE

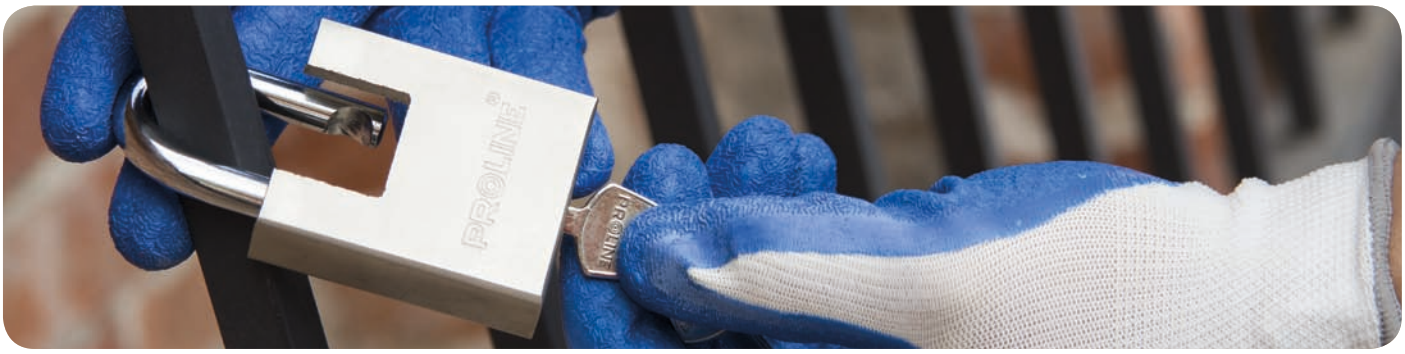
Rukavice od prirodne kože pokazuju visoku otpornost na habanje i trošenje. Također ih odlikuje dobra prozračnost. Pružaju maksimalnu udobnost korištenja i dobar zahvat držanog predmeta, zadovoljavajući i najzahtjevnije korisnike. Zbog širokog spektra primjena, kožne rukavice koriste se u mnogim sektorima, kao što su građevinarstvo, transport, automobilska industriji i poljoprivreda

RUKAVICE OD LATEKSA

Lateks je najpopularniji premaz zaštitnih rukavica. Rukavice su obložene lateksom ili izrađene od njega. Odlikuje ih visoka fleksibilnost i pri niskim temperaturama, visokoj otpornosti na kidanje,
i pružaju izvrsne performanse čak i u najtežim vremenskim uvjetima. Velika raznovrsnost lateksa, kao i relativno niski troškovi proizvodnje znače da se rukavice od lateksa koriste u gradnji, u prometnoj industriji, poljoprivredi, kućanstvima, vrtovima i drugim područjima.

TOPLINSKI IZOLACIJSKE RUKAVICE

Izolacijske rukavice namijenjene su za rad u teškim vremenskim uvjetima, uključujući i pri niskim temperaturama. Njihov premaz osigurava svestranost. Mješavina sintetičkih vlakana koja ne upijaju vodu i čuvaju toplinu, štite korisnika od hladnoće, kiše, snijega i vjetra. Izolacijske rukavice koriste se na gradilištima, u transportnoj industriji i u radu u hladnjačama.



RUKAVICE S NITRILNIM PREMAZOM

Nitril, od kojeg su izrađene rukavice marke Lahti Pro, sintetička je gumena smjesa akrilonitrila i butadiena, koja ne sadrži lateks proteine. Kombinacija od ove dvije komponente proizvodi fleksibilni materijal koji je vrlo otporan na abraziju a istodobno pruža izvrsnu otpornost na bezolovni benzin, dizel, ulje, heksan i parafin. Također pruža idealnu zaštitu od ulja i masti. Rukavice obložene nitrilom često se koriste u transportnoj i automobilskoj industriji, kao i u poljoprivredi i vrtlarstvu. One su također izvrsna alternativa za osobe alergične na lateks.

POLIURETANSKE RUKAVICE

Poliuretan je materijal vrlo visoke fleksibilnosti i velike otpornosti na abraziju i trganje. Zahvaljujući ovim svojstvima, savršen je za izradu rukavica s tankim i istovremeno vrlo otpornim premazom. Poliuretanske rukavice pružaju izvrsnu spretnost i osjećaj držanja predmeta, osiguravajući izvrsne performanse, osobito tijekom radova koji zahtijevaju visoku preciznost. Ove rukavice često koriste mehaničari, radnici u skladištu i vlasnici kuća.

PVC-OBLOŽENE RUKAVICE

Rukavice obložene PVC-om karakterizira odlična otpornost na masti, ulja, blaga sredstva za čišćenje, kao i na vodu, te također pružaju relativno dobre performanse pri niskim temperaturama. Koriste se u mnogim sektorima, uključujući automobilsku industriju, poljoprivredu i prijevoz.



Svojstva materijala za premazivanje / prianjanje

Premazna svojstva	Vrsta premazivanja/prianjanje					
	Sintetička koža	Prirodna koža	Lateks	Nitril	Poliuretan	PVC
Elastičnost	1	1	5	4	5	3
Svojstva protiv sklizanja	1	2	4	5	3	5
Prianjanje (osjećaj držanja predmeta)	5	4	3	4	5	3
Otpornost na abraziju	5	5	2	5	5	4
Otpornost na kidanje	5	5	5	1	5	1
Otpornost na probijanje	5	5	2	5	2	3
Otpornost na vodu i njene derivate	1	2	5	3	3	5
Otpornost na masti i ulja	2	3	2	5	4	5
Otpornost na ugljikovodike	1	1	1	4	1	2
Otpornost na sredstva za pranje i deterdžente	1	1	5	4	4	5
Otpornost na ketonska otapala itd.	1	1	4	1	2	1

1 Vrlo niska 2 Niska 3 Srednja 4 Visoka 5 Vrlo visoka

*Prianjanje mnogih modela Lahti Pro sintetičkih kožnih rukavica ima brojne umetke od PVC-a, silikonske mreže protiv klizanja itd. koji značajno poboljšavaju performanse rukavica. Podaci u gornjoj tablici odnose se samo na sintetičku kožu i stoga ne uključuju svojstva dodatnih materijala.

Napomena: Gornja tablica predstavlja ilustrativnu usporedbu svojstava karakterističnih za određeni tip presvlaka / prianjanja. Svojstva hvata mogu se razlikovati ovisno o modelu rukavica.



Vrsta tkanine od koje bi se trebale izraditi rukavice

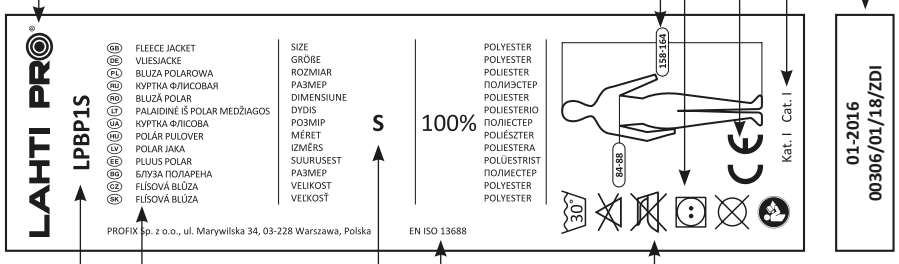
Donja tablica prikazuje glavne prednosti tkanina koje se koriste u zaštitnim rukavicama:

Vrsta tkanine	Prednosti	
Poliester	⊕ Može se miješati s pamukom kako bi se povećala udobnost korištenja	⊕ Otporan na prodiranje tekućine
	⊕ Snažan i izdržljiv	⊕ Brzo se suši
	⊕ Otporan na abraziju i istezanje	⊕ Elastičan
Pamuk	⊕ Visoko prozračan, hladan, prenosi toplinu	⊕ Upija znoj
	⊕ Mekan na dodir (vrlo udoban)	⊕ Nema statičkog elektriciteta
	⊕ Otporan na abraziju	
Najlon	⊕ Snažan i izdržljiv	⊕ Elastičan
	⊕ Visoka otpornost na abraziju i rastezanje	⊕ Otporan na prodiranje tekućine
	⊕ Otpornost na ulja, masti i benzin	
Akril	⊕ Savršena zaštita od hladnoće	⊕ Otporan na ulje
	⊕ Otpornost na abraziju i rastezanje	⊕ Otporan na prodiranje tekućine
	⊕ Mekan na dodir (vrlo udoban)	
Modificirana sintetička vlakna	⊕ Visoka otpornost na porezotine	⊕ Vrlo otporna na abraziju i rastezanje
	⊕ Otporna na prodiranje tekućine	⊕ Elastičnost

ZAŠTITA TIJELA

OBILJEŽAVANJE ZAŠTITNE ODJEĆE

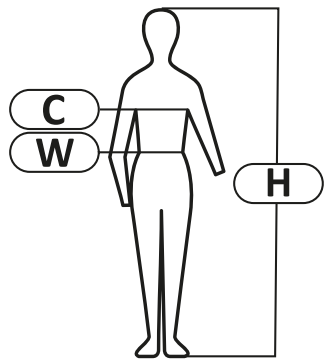
- CE oznaka
- kategorija zaštite
- metoda održavanja
- datum proizvodnje - dan, mjesec i godina
- zaštitni znak
- raspon veličine



- Logo proizvođača
- veličina
- vrsta proizvoda
- standard br

VELIČINA

C – širina prsnog koša
W – struk
H – visina



SIMBOLA	OPIS
	Ne perite
	Ručno pranje
30°	Perite na 30 ° C - normalan postupak
30°	Perite na 30 ° C - blag postupak
30°	Perite na 30 ° C - vrlo blag postupak
	Ne peglati
	Glačanje do 110 ° C
	Glačanje do 150 ° C
	Glačanje do 200 ° C
	Ne sušiti u sušilici
	Može se sušiti u sušilici - niža temperatura
	Može se sušiti u sušilici - normalna temperatura
	Sušiti na sušilu
	Sušiti na zraku
	Sušiti na sušilu
	Sušiti na sušilu bez glačanja
P	Profesionalno suho čišćenje perkloretilenom
	Ne izbjeljivati

POPIS STANDARDA

EN ISO 13688 – **Zaštitna odjeća** – Opći zahtjevi. Ovaj međunarodni standard utvrđuje opće zahtjeve za izvedbu dizajna, ergonomije, neškodljivosti, označavanja veličine, starenja, kompatibilnosti i označavanja zaštitne odjeće i informacija koje proizvođač mora označiti na zaštitnoj odjeći. Ovaj međunarodni standard namijenjen je samo za uporabu u kombinaciji s drugim standardima koji sadrže zahtjeve za specifičnim zaštitnim svojstvima, a ne samostalno.

EN ISO 20471 – **High visibility clothing** – Odjeća visoke vidljivosti – Metode ispitivanja i zahtjevi. Ovaj standard određuje zahtjeve za odjeću visoke vidljivosti koja može vizualno signalizirati prisutnost korisnika. Odjeća s visokom vidljivošću namijenjena je za osiguravanje vidljivosti nositelja u bilo kojem svjetlosnom stanju kada ga osvijetle operateri vozila ili druge mehanički uređaji za vrijeme dnevne svjetlosti i pod svjetlom prednjih svjetala u mraku. To jasno određuje zahtjeve za boju, retrorefleksiju, kao i za minimalna potrebna područja i za postavljanje materijala u zaštitnu odjeću. Osim toga, nameće obvezu informiranja korisnika o maksimalnom broju ciklusa i načinu pranja koji se preporučuje za odjeću kako bi se održala odgovarajuća razina zaštite.

EN ISO 20471

Ovaj standard održava razvrstavanje odjeće u 3 kategorije na temelju minimalne površine retroreflektirajućih materijala po m2. Kategorija 1 je najniža kategorija, a kategorija 3 predstavlja najvišu razinu vidljivosti.

	Kategorija odjeće 3	Kategorija odjeće 2	Kategorija odjeće 1
Pozadinski materijal	0.8 m²	0.5 m²	0.14 m²
Retroreflektirajući materijal	0.2 m²	0.13 m²	0.10 m²
Materijal s kombiniranim svojstvima	...	...	0.2 m²

ODJEĆA ZA ZAVARIVANJE

Kao oprema za osobnu zaštitu kategorije II, odjeća za zavarivanje mora biti certificirana u skladu s EZ testom tipa u skladu s Direktivom 89/686 / EEZ.

NAMJENA

Zaštitna odjeća za zavarivanje potrebna je za zavarivačke radove, uključujući zavarivanje, navarivanje zavarivanjem, lemljenje, lijepljenje i termičko rezanje metala i termoplasta. Tijekom zavarivačkih radova, zavarivači su izloženi opasnosti od odsjaja, prskanja, toksičnih i kancerogenih zavarivačkih para i prašine, elektromagnetskog polja, UV i toplinskog zračenja, strujnog udara, požara, trovanja i bolesti kože, očiju i pluća.

UVJETI ZA MATERIJAL

Zaštitna odjeća za zavarivanje izrađena je uglavnom od vatrostalno otpornih pamučnih tkanina impregniranih visokom gustoćom površine, te od prirodne kože presvučene kako bi bila otporna na vatru.

UVJETI ZA IZRADU

Zaštitna odjeća za zavarivanje mora zadovoljavati specifične zahtjeve izrade kako bi se smanjio rizik od vrućeg prskanja te prodiranja u odjeću:

- Zaštitna odjeća treba pokrivati cijelo tijelo nositelja tijekom zavarivanja: gornji i donji dio trupa, vrat, ramena, ruke i noge.
- Ako se odjeća sastoji od jakne i hlača, jakna bi se trebala preklapati oko pojasa najmanje 20 cm. Minimalno preklapanje treba se održavati tijekom svih aktivnosti i kretanja na poslu.
- Dijelovi odjeće koji djeluju kao dodatna zaštita, kao što su štitnik vrata, kapuljača, rukavi, pregača i rukavice trebaju biti dizajnirani i korišteni kako bi se spriječilo prodiranje iskri i metalnih kapljica u odjeću.
- Ako odjeća ima džepove, treba ih prekriti.
- Ako hlače imaju džepove, to bi trebali biti samo bočni džepovi koji ne strše iz bočnog šava hlača više od 10 °.
- Hlače ne smiju imati metalne dijelove. Odjeća mora biti izrađena tako da spriječi prodor električne energije, na primjer preko metalnih kopči.

RAZREDI

Postoje dvije klase odjeće za zavarivanje sa strogo određenim zahtjevima za učinkovitost:

Klasa 1: - zaštita od manje opasnih primjena u zavarivanju i situacija koje uzrokuju umjereno izlaganje prskanju i zračenju.

Klasa 2: - zaštita od opasnijih primjena zavarivanja i situacija koje uzrokuju značajnu izloženost vrućim faktorima. Navedenim odjeljcima odjeće dodijeljene su vrste primjena zavarivanja i vrste procesa (vrsta korištenih strojeva) prema EN ISO 11611 za pomoć pri odabiru odgovarajuće vrste zaštitne odjeće za zavarivanje.

Klasa odjeće	Vrsta postupka zavarivanja	Vrsta rada
Klasa 1	Ručni postupci zavarivanja tijekom kojih nastaju male količine prskanje ili kapljice rastaljenog metala, npr .: plinsko zavarivanje, • TIG zavarivanje, • MIG zavarivanje, • mikroplazma zavarivanje, • lemljenje, • točkasto zavarivanje, • elektroda oklopljena rutilom • MMA zavarivanje	Rad stroja kao što su strojevi za rezanje kisikom: • strojevi za rezanje pomoću plazme, strojevi za otporno zavarivanje, • termičko raspršivanje, • tablice za zavarivanje
Klasa 2	Ručni postupci zavarivanja tijekom kojih se stvaraju velike količine prskanja ili kapljica rastaljenog metala kao što su: • MMA zavarivanje (upotrebom alkalnih ili celuloznih elektroda), • MAG zavarivanje (koristeći CO2 ili mješovite plinove) • MIG (visoko strujno) zavarivanje • elektrolučno zavarivanje punjenim punjenjem • rezanje plazmom • dubljenje • rezanje pomoću plamenika • toplinsko prskanje	Rad stroja u uvjetima: • u zatvorenim prostorima, • kod operacija zavarivanja / rezanja koje zahtijevaju rad iznad glave ili se rad odrađuje u sličnim ograničenim položajima



POPIS STANDARDA

EN ISO 11611

EN ISO 11611 Zaštitna odjeća za zavarivanje i srodne postupke.
Ovaj standard sadrži minimalne osnovne zahtjeve i metode ispitivanja zaštitne odjeće namijenjene za nošenje tijekom zavarivanja i srodnih postupaka s usporedivim rizicima. Ova vrsta odjeće namijenjena je zaštiti korisnika od prskanja rastopljenog metala, iskrenja metalnih brušenja, kratkog vremena kontakta s plamenom i toplinom zračenja iz električnog luka. Smanjuje mogućnost električnog udara uzrokovanog kratkotrajnim, slučajnim kontaktom s električnim vodičima pod naponom do približno 100V u normalnim uvjetima i tijekom zavarivanja.
Postupak A1 - metoda ispivanja površinskog paljenja
Postupak A2 - metoda ispitivanja paljenja rubova.
Sukladnost A1 + A2 - ograničeno širenje plamena.

EN ISO 11612

EN ISO 11612 Zaštitna odjeća – Odjeća za zaštitu od topline i plamena.
Minimalni zahtjevi izrade.
Standard određuje zahtjeve za zaštitnu odjeću namijenjenu zaštiti tijela nositelja osim ruku od vrućine i plamena. Primjenjuju se zahtjevi iz norme na širok raspon zaštitne odjeće koja bi trebala pokazivati otpornost na paljenje nakon kratkog kontakta s plamenom, ograničiti širenje plamena (A1 + A2) i zaštititi od najmanje jedne vrste topline. Razine zaštite od topline (što je veći broj, to je bolja zaštita):
• toplinska zaštita (B1, B2, B3)
• toplinsko zračenje (C1, C2, C3, C4)
prskanje rastaljenog aluminija (D1, D2, D3);
prskanje rastaljenog željeza (E1, E2, E3);
• kontaktna toplina (F !, F2, F3)

ANTISTATIČKA ODJEĆA

Kao osobna zaštitna oprema klase 2, antistatička odjeća mora biti certificirana u skladu s EZ testom tipa u skladu s Direktivom 89/686 / EEZ

NAMJENA

Antistatička zaštitna odjeća potrebna je u opasnim zonama (kao što su kemijska, rudarska, naftna industrija, transport opasnih tvari, plinske instalacije, elektrane) i izvan opasnih zona (kao što je proizvodnja elektronike radi sprečavanja statičkog oštećenja).

UVJETI ZA MATERIJAL

Antistatička zaštitna odjeća izrađena je od materijala koji mogu raspršiti i odvoditi statički naboj, što sprječava zapaljiva pražnjenja.

UVJETI ZA IZRADU

Antistatička odjeća mora zadovoljiti specifične zahtjeve konstrukcije kako bi se spriječilo statičko pražnjenje:

•Odjeća treba pokrivati cijelo tijelo nositelja u pokretu i u savijenom položaju.

Odjeća se mora dobro uklopiti i ne smije obuzdavati pokrete radnika čak i kada se zakopča tijekom uporabe.

•Ako je odjeća izrađena od raznih vrsta materijala, antistatički materijal treba biti vanjski sloj.

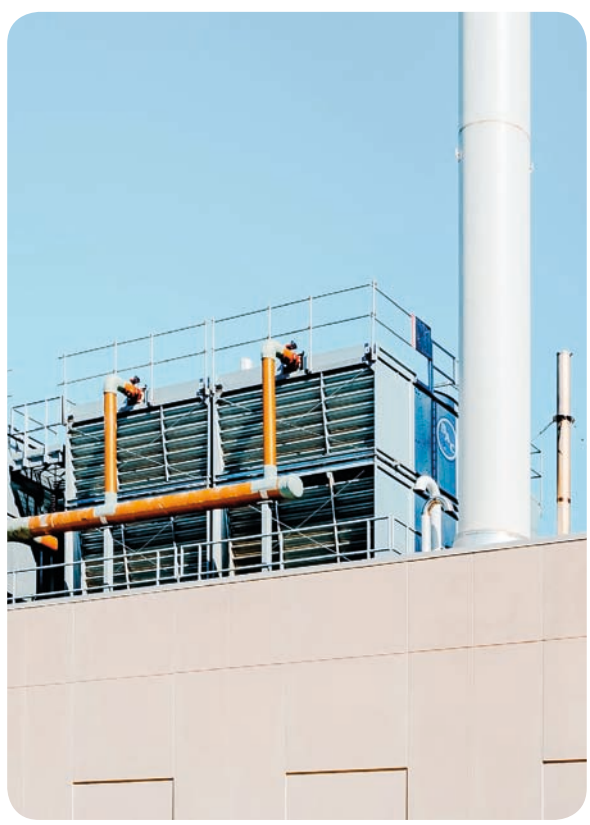
• Pričvrsni elementi od provodnog materijala kao što su zatvarači, gumbi ili zatvarači na čičak mogu se koristiti sve dok su prekriveni antistatičkim materijalom.

• U materijalima koji sadrže paralelnu ili isprepletenu provodnu pređu, udaljenost između vodljivih niti u istom smjeru ne smije prelaziti 10 mm.

POPIS STANDARDA

EN 1149-5

EN 1149-5 Zaštitna odjeća – Elektrostatička svojstva – 5. Uvjeti za materijal i dizajn. Standard određuje metode za ispitivanje elektrostatskih svojstava materijala i konstrukcije za elektrostatički disipativnu zaštitnu odjeću koja se koristi kao dio ukupnog uzemljenog sustava kako bi se izbjegli zapaljenja. Uvjeti možda nisu dovoljni u zapaljivim atmosferama obogaćenim kisikom. Elektrostatička disipativna zaštitna odjeća poznata je i kao antistatička odjeća.



PAD SA VISINE

Radovi na visinama uključuju radove na skelama, građevinskim konstrukcijama, podnim sustavima, dimnjacima, ljestvama ili drugim uzvišenim mjestima na visini od najmanje 1,0 m iznad razine prizemlja. Rad na visini ne uključuje radove na površini koja je sa svih strana zatvorena do najmanje 1,5 m čvrstim zidovima (uključujući i prozore) ili je opremljena drugim trajnim konstrukcijama ili uređajima koji štite zaposlenike od pada, bez obzira na sam operativni boravak.

Europski propisi koji se odnose na zaštitu na radu obvezuju poslodavce koji imaju radnike koji rade na visini da osiguraju odgovarajuće mjere zaštite od pada. Padovi s visine česti su uzrok nesreća, obično ozbiljnih ili smrtonosnih. Rad na visini klasificira se kao rad s visokim stupnjem opasnosti, što predstavlja prijetnju životu i zdravlju zaposlenika, i tu je uporaba osobne zaštitne opreme svrstana u III. kategoriju. Za vrijeme bilo kakvog rada na visini potrebno ga je primijeniti posebne mjere predostrožnosti zbog velike prijetnje zdravlju i životu zaposlenika.

Da bi bilo dopušteno raditi na visini, djelatnik:

- mora biti upoznat s profesionalnim rizikom povezanim |s obavljanjem posla;
- imati osobnu zaštitnu opremu potrebnu za izvođenje takvih zadataka;
- mora imati valjanu liječničku potvrdu za rad na visini
- je završio osposobljavanje za zaštitu na radu i osposobljavanje na radnom mjestu kako bi bio upoznat sa specifičnostima rada na visini i opasnostima prisutnim na radnom mjestu.

Prema zahtjevima usklađenog standarda PNEN365 Osobna zaštitna oprema protiv pada s visine – Opći zahtjevi za upute za uporabu, održavanje, periodično ispitivanje, popravak, označavanje i pakiranje, periodični pregled opreme treba provoditi svake godine nakon što prvi put krene u uporabu.



Kako bi se zadovoljili regulatorni zahtjevi, svaki komplet za rad na visini mora sadržavati:

Sigurnosne pojaseve (EN 361) – primarna zadaća sigurnosnih pojaseva je da zadrži tijelo tijekom pada i osigura sigurnu raspodjelu dinamičkih sila koje se javljaju tijekom pada. Samo potpuni sigurnosni pojasevi s trakama za ramena i bedra su odobreni za uporabu kao zaštita od pada.

Točka učvršćenja (EN 362) – To je prva i ključna karika sustava osobne zaštite od pada. Njezina je zadaća spojiti komponentu za spajanje i amortiziranje s nosivom konstrukcijom.

Komponenta za spajanje i amortiziranje (EN 355) – spaja spojnu stezaljku sigurnosnog pojasa na točku učvršćenja. Ako dođe do pada, spojni element i komponenta za suzbijanje udarca moraju zaustaviti pad i minimalizirati silu koja nastaje tijekom usporavanja pada. Funkcije komponente za spajanje i amortiziranje mogu se obavljati pomoću: apsorbera energije s trakom, samospojnim uređajima, štitnicima od pada i drugim uređajima.

POPIS STANDARDA

(EN362)
Standard određuje zahtjeve i metode ispitivanja za jednostruke i višestruke korisničke točke učvršćenja. Nadalje navodi zahtjeve koji se odnose na označavanje, upute za uporabu i savjete za instalaciju.

(EN355)
Standard određuje zahtjeve, metode ispitivanja, pravila označavanja i informacije koje se trebaju dati korisniku i način pakiranja apsorbera energije.

(EN361)
Standard određuje zahtjeve, metode ispitivanja, pravila označavanja, informacije koje treba osigurati proizvođač i pakiranje sigurnosnog pojasa.

ZAŠTITA NOGU



Osiguravanje odgovarajuće zaštite nogu i stopala ima presudan utjecaj uglavnom na sigurnost na radu, ali i na udobnost korištenja. Zaštitna obuća namijenjena je zaštiti stopala od ozljeda koje se mogu pojaviti tijekom nesreća. Zaštitna obuća može štititi stopalo od mehaničkih i kemijskih sredstava i štetnog djelovanja topline, hladnoće ili vlage. Zaštitna obuća najčešće istovremeno štiti od različitih vrsta opasnosti. Razina zaštite ovisi uglavnom o dizajnu obuće, upotrijebljenim materijalima i opremi kao što su kapice, umetci protiv proboja, držači za gležnjeve itd. Obuća bez zaštitnih značajki je namijenjena za rad samo zbog toga što je higijenska i ne smije se tretirati kao sigurnosna obuća, već samo kao profesionalna obuća.

POPIS STANDARDA

EN ISO 20345 – Osobna zaštitna oprema – Sigurnosna obuća.
Standardom se utvrđuju osnovni i dodatni (opcijski) zahtjevi za sigurnosnu obuću koja se koristi za opće namjene. To uključuje, na primjer, mehaničke rizike, otpornost na klizanje, toplinske rizike, ergonomsko ponašanje. Zaštitna obuća (SB, S1 - 4) ima zaštitne značajke zajedno sa zaštitom prstiju pomoću kapica koje su testirane na udarce od 200 J.

EN ISO 20347 – Osobna zaštitna oprema – Profesionalna obuća.
Standardom se utvrđuju osnovni i dodatni zahtjevi za profesionalnu obuću. Posebni rizici pokriveni su komplementarnim standardima vezanim uz posao (npr. Obuća za vatrogasce, električna izolacijska obuća). Radna obuća (OB, O1 - 5) - ima zaštitne značajke namijenjene zaštiti od ozljeda koje se mogu pojaviti tijekom nesreće na radu. Namijenjena je za svakodnevnu uporabu na mjestima gdje nije potrebna zaštita nožnih prstiju.

DIZAJN OBUĆE



OBILJEŽAVANJE OBUĆE



KATEGORIJE SIGURNOSTI OBUĆE – OSNOVNI ZAHTJEVI

Kategorije sigurnosne obuće (EN ISO 20345)

Kategorija zaštite	Kapica štiti prste od udarca od 200 J	Otpornost na dizelsko ulje	Apsorpcija energije na peti	Antistatička svojstva	Zaštita pete	Otpornost na probijanje do 1100N	Ograničen prodor vode i apsorpcija	Klasa
SB	✓							I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			* II (obuća od pojedinačnog materijala)
S5*	✓	✓	✓	✓	✓	✓		* II (obuća od pojedinačnog materijala)

Kategorije profesionalne obuće (EN ISO 20347)

Kategorija zaštite	Kapica štiti prste od udarca od 200 J	Otpornost na dizelsko ulje	Apsorpcija energije na peti	Antistatička svojstva	Zaštita pete	Otpornost na probijanje do 1100N	Ograničen prodor vode i apsorpcija	Klasa
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			* II (obuća od pojedinačnog materijala)
O5*	x	x	✓	✓	✓	✓		* II (obuća od pojedinačnog materijala)

KATEGORIJE SIGURNOSTI OBUĆE – DODATNI ZAHTJEVI

Simbol	Dodatni zahtjevi
P	Otpornost na probijanje sile do 1100 N
A	Antistatička svojstva
C	Svojstva koja provode struju
I	Električna izolacijska svojstva
HI	Izolacija dna od topline
CI	Izolacija dna od hladnoće
E	Apsorpcija energije na peti
WR	Ograničen prodor vode i apsorpcija cijele cipele
WRU	Ograničen prodor vode i apsorpcija vanjske površine cipele
HRO	Otpornost HRO-a na visoke temperature u kratkom kontaktu (do 300oC) 5oC / 1 min} 1 s)
CR	Otpornost na rezanje
M	Zaštita gazišta stopala
AN	Zaštita pete
FO	Otpornost na vanjski pot-plat na dizelsko ulje
SRA	Otpornost na klizanje na keramičkoj površini prekrivenoj natrijevim lauril sulfatom (SLS)
SRB	Otpornost na klizanje na čeličnoj površini prekrivenoj glicerolom
SRC	Otpornost na klizanje na obje površine





Zakon o radu

Poslodavac je dužan osposobiti zaposlenika za rad na način koji osigurava zaštitu života i zdravlja zaposlenika, te sprječava nastanak nesreće.

Poslodavac je dužan da osigura potrebne uvjete za zaštitu na radu kojima se osigurava zaštita života i zdravlja zaposlenika, u skladu sa zakonom.

PRAVNI OSNOV

VI – ZAŠTITA ZAPOSLENIKA
Član 48.
Poslodavac je dužan omogućiti zaposleniku da se upozna sa propisima o radnim odnosima i propisima iz oblasti zaštite na radu u roku od 30 dana od dana stupanja zaposlenika
na rad.
Poslodavac je dužan osposobiti zaposlenika za rad na način koji osigurava zaštitu života i
zdravlja zaposlenika, te sprječava nastanak nesreće.
Član 49.
Poslodavac je dužan da osigura potrebne uvjete za zaštitu na radu kojima se osigurava
zaštita života i zdravlja zaposlenika, u skladu sa zakonom.
Član 50.
Zaposlenik ima pravo da odbije da radi ako mu neposredno prijeti opasnost po život i
zdravlje zbog toga što nisu provedene propisane mjere zaštite na radu i o tome je dužan odmah obavijestiti inspekciju rada kantona.

Lična zaštitna oprema je jedinica ili oprema namijenjena za nošenje ili rukovanje od strane korisnika radi zaštite od jednog ili više rizika, koji mogu uticati na sigurnost ili zdravlje korisnika.

Lična zaštitna oprema je prilično širok pojam i nije namijenjen samo za zaštitu zaposlenika na njihovim radnim mjestima, već se primjenjuje i na korištenje, koje nije povezano s radom, kao što su sport ili slobodno vrijeme. Također može obuhvatati: opremu za bolju vidljivost i odjeću za neprofesionalnu upotrebu. Jedan od načina dokazivanja usklađenosti lične zaštitne opreme s osnovnim zahtjevima dokazuje ispunjavanje zahtjeva norme usklađene s gore navedenom Direktivom. Harmonizirani standardi su evropski standardi koje su izradile evropske organizacije za normizaciju. Oni su u skladu s bitnim zahtjevima EU smjernica i propisa, te su najlakši način da proizvođač ili uvoznik prikažu usklađenost pretpostavljenih proizvoda s odgovarajućom direktivom ili propisom. Kako bi potvrdio da lična zaštitna oprema ispunjava bitne zahtjeve, proizvođač je označava oznakom CE i izdaje izjavu o usklađenosti s Uredbom o ličnoj zaštitnoj opremi i usklađenim standardima.



KATEGORIJE LIČNE ZAŠTITNE OPREME

Uredba o ličnoj zaštitnoj opremi dijeli ličnu zaštitnu opremu u tri kategorije zaštite, zavisno o nivou rizika kojem je zaposlenik izložen tokom rada:

Kategorija rizika	Nivo rizika	Opis
I	**Nizak**	Proizvodi iz ove kategorije osiguravaju osnovni nivo zaštite od vanjskih faktora niskog rizika, čiji su učinci površinski npr. manje posjekotine, ogrebotine, prljavština, blaga sredstva za čišćenje, blagi atmosferski uticaji, kontakt s vrućim površinama koje ne prelaze 50° C, oštećenje očiju zbog izlaganja sunčevoj svjetlosti (osim tokom posmatranja sunca), itd.
II	**Srednji**	Proizvodi iz ove kategorije koriste se za zaštitu u uslovima u kojima nivo rizika nije klasifikovan kao nizak ili visok.
III	**Visok**	Kategorija III obuhvata isključivo rizike, koji mogu prouzrokovati vrlo ozbiljne posljedice, kao što su smrt ili nepopravljiva šteta za zdravlje u vezi sa jedinjenjima i smjesama, koje su opasne za zdravlje, atmosferu s nedostatkom oksigena, štetne biološke agense, okoline s visokim temperaturama, ionizirajuće zračenje čiji su učinci uporedivi s temperaturama vazduha, koje su najmanje 100°C, okoline niske temperature, čiji su učinci uporedivi s onima temperaturama vazduha od -50°C ili manje, padovi s visine, strujni udari i rad s uređajima pod naponom, utapanja, rezovi od ručne motorne pile, mlaznice pod visokim pritiskom, rane od metaka ili ubodi nožem, štetna buka itd.

PRIJE NEGO ŠTO ODABERETE ODGOVARAJUĆI PPE:

- definisati nivo rizika
- navesti vrstu opasnosti
- odrediti vrstu opasnosti
- odaberite proizvod s navedenim parametrima zaštite

Podjela Parametara Zaštite na grupe:



ZAŠTITA OČIJU I LICA

Oprema za zaštitu očiju i lica sprečava oštećenja očiju i lica uzrokovana mehaničkim, hemijskim, biološkim i toplotnim faktorima, kao i štetnim zračenjem.

Opremu za zaštitu očiju i lica za profesionalnu primjenu treba koristiti gdje god postoje sljedeće opasnosti:

- vanjski uticaj (kao što je prskanje)
- kapljice tečnosti i prskanje (kao što su prskanja prilikom ljevanja tečnosti)
- optičko zračenje (kao što je zračenje tokom zavarivanja, odsjaj sunca)
- rastopljeni metali i vruća kruta jedinjenja (kao što su taline rastopljenog metala tokom metalurških procesa)
- prašina i plinovi (kao što je ugljena prašina ili aerosoli štetnih hemikalija)
- električni luk (kao što nastaje tokom trenutnog rada)

Oprema za zaštitu očiju i lica za profesionalnu upotrebu podijeljena je u tri kategorije:



Naočale i zaštitne naočale



Štitovi za lice



Štitnici za zavarivanje
(ova kategorija uključuje štitnike, naočale i maske za zavarivanje)



POPIS STANDARDA:

EN 166 – Lična zaštita očiju – Specifikacije. Standard određuje zahtjeve različitih vrsta lične zaštitne opreme za oči.

EN 169 – Lična zaštita očiju – filteri za zavarivanje i srodne tehnike dozvoljena propusnost i preporučena upotreba. Ovaj standard osigurava potrebne oznake i dozvoljenu propusnost za filtere, koji su namijenjeni za zaštitu operatera, koji obavljaju radove, koji zahtijevaju zavarivanje, vazdušno zavarivanje i plazma rezanje.

EN 170 – Lična zaštita očiju – ultraljubičasto svjetlo – dozvoljena propusnost i preporučena upotreba. Ovaj standard uključuje načela za označavanje, identifikaciju, odjeljak i upotrebu filtera. Ovaj standard određuje dozvoljenu propusnost za filtere, koji štite od ultraljubičastog zračenja.

EN 172 – Lična zaštita za oči – filteri za zaštitu od sunca za industrijsku upotrebu. Ovaj standard određuje kriterije odabira i dozvoljenu propusnost i uspostavlja odgovarajuće metode ispitivanja za filtere za zaštitu od sunca.

EN 1731 – Lična zaštita za oči - Štitnici za oči i lice. Ovaj standard određuje metode projektovanja materijala, metode ispitivanja i označavanje mrežnih štitnika za oči i lice, koji štite od mehaničkih opasnosti.

EN 175 – Lična zaštita – Oprema za zaštitu očiju i lica tokom zavarivanja i srodnih postupaka. Ovaj standard određuje zahtjeve, koji se odnose na sigurnosne i ispitne metode za ovu vrstu zaštite, koja se koristi za zaštitu očiju i lica od optičkog zračenja i drugih specifičnih izvora rizika ili opasnosti, koji se obično pojavljuju tokom zavarivanja, rezanja i srodnih procesa.

NAOČALE I ZAŠTITNE NAOČALE

Označavanje zaštitnih naočala koristi se za njihovo identifikovanje i osigurava pravilan odabir u pogledu opasnosti na danoj radnoj stanici.

Leće (okulari) i **okviri** (nosači) označeni su posebno. Međutim, ako čine cjelinu, svi potrebni simboli za označavanje trebaju biti na okviru.

OZNAČAVANJE NAOČALA I SIGURNOSNIH NAOČALA



CE 5-3.1 XX 1 FT

OZNAČEVANJE OKULARA

- CE oznaka
- tip filtera od 2 do 6
- boja (od 1.2 do 16)
- identifikaciona oznaka proizvođača
- optička klasa (od 1 do 3)
- simbol mehaničke čvrstoće (“S”, “F”, “B”, “A”)
- oznaka dodatnih karakteristika zaštite (“K”, “N”, “R”, “T”)

OZNAČAVANJE OKVIRA



CE XX EN 166 F

- CE oznaka
- identifikaciona oznaka proizvođača
- standardni broj
- simbol mehaničke čvrstoće (“S”, “F”, “B”, “A”)

Vrsta filtera — Zaštita od zračenja:

2	UV ultraljubičasti filter
2C or 3	ultraljubičasti filter UV prepoznavanje boja
4	infracrveni filter IR
5	filter za zaštitu od sunca (zaštita od sunca) bez zaštite od infracrvenog zračenja
6	filter za zaštitu od sunca (zaštita od sunca) sa zaštitom od infracrvenog zračenja

Faktor	Prenosa svjetla u sjeni
1.2	100 – 74.4 %
1.4	74.4 – 58.1%
1.7	58.1 – 43.2%
2.0	43.2 – 29.1%
2.0	43.2 – 29.1%
2.5	29.1 – 17.8%
3.1	17.8 – 8.0%
4.1	8.0 – 3.0%
...	
16	0.000061 – 0.000023%

Optička klasa:

- **1** za kontinuiranu upotrebu
- **2** za isprekidanu upotrebu
- **3** za povremenu upotrebu

Mehanički simboli čvrstoće:

- **S** povećana energija udarca – otpornost na udar čelične kugle od 43 g nominalnog prečnika od 22 mm pri brzini od 5,1 m / s
- **F** niska energija udara – otpornost na udar 0,86 g čelične kuglice nominalnog prečnika 6 mm pri brzini od 45 m / s
- B srednja energija udarca – otpornost na udaranje čelične kuglice 0,86 g nominalnog prečnika 6 mm pri brzini od 120 m / s
- A visoka udarna energija – otpornost na udar 0,86 g čelične kuglice nominalnog prečnika 6 mm pri brzini od 190 m / s (za štitnike za lice)

Polja upotrebe (za naočale)

- **3** otporne na tečnost (u obliku kapljica ili prskanja)
- **4** otporne na grube čestice prašine (veće od 5 µm)
- **5** otporne na plinove i čestice fine prašine (pare, magle i prašine veličine čestica manjih od 5 µm)
- **8** otporne na električni udar kratkog spoja
- **9** otporne na rastaljeni metal i prodiranje vrućih materija

Dodatni simboli karakteristika zaštite:

- **K** otporne na površinska oštećenja česticama fine prašine
- **N** otporne na zamagljivanje
- **R** povećan koeficijent refleksije
- **T** otporne na čestice pri ekstremnim temperaturama. Zagarantovan interval otpornosti –5°C – 55°C

KATEGORIJE ZA ZAŠTITU OČIJU I LICA – MEHANIČKE POVREDE

PARAMETRI	ZAŠTITNE NAOČALE	NAOČALE	ŠTITNICI ZA LICE
Povećana otpornost na udar (5,1 m / s) - označite S	+	+	+
Otpornost na niski energetski udar (45 m / s) - oznaka F	+	+	+
Otpornost na srednji energetski udar (120 m / s) - oznaka B	-	+	+
Otpornost na visoki energetski udar (190 m / s) - oznaka A	-	-	+

ŠTITNIK ZA LICE

Štitnici za lice štite cijelo lice. Njihova velika površina smanjuje rizik od opasnog prskanja tečnosti u unutrašnjost štita. Štitnici za lice mogu se koristiti u kombinaciji s naočalama (sigurnosnim ili korektivnim), zaštitnim naočalama i nekim vrstama zaštite za disanje.

Štitnici se montiraju direktno na glavu korisnika ili zaštitne kacige. Objektivi takvih štitova obično su izrađeni od masivnog polikarbonata ili polikarbonata obloženog slojevima, koji reflektiraju korištenje toplotnog zračenja gdje je toplotno zračenje posebno visoko.

OBILJEŽAVANJE ŠTITNIKA ZA LICE



- identifikacija proizvođača, oznaka modela
- standardni broj
- optička klasa
- mehanička otpornost
- otpornost na udar velike brzine
- otpornost na prskanje tečnosti
- CE oznaka

MASKE ZA ZAVARIVANJE

Maske za zavarivanje i ručne maske za zavarivanje koriste se tokom elektrolučnog zavarivanja, zavarivanja pomoću plamena, rezanja oksigenom i rezanja plazmom. Makse za zavarivanje mogu biti opremljene s jednim filterom za zavarivanje ili s dva filtera za zavarivanje od kojih je jedan filter koji se koristi samo za posmatranje, a drugi je pravi, tamniji filter koji se koristi za posmatranje procesa zavarivanja. Osim toga, koriste se i kacige za zavarivanje s automatskim filterima za zavarivanje. Takvi filteri automatski zatamnjuju područje vida tokom, npr. zavarivanja električnim ili plazma lukom. Nakon što je nestao luk (nastaje hlađenje zavarivanja), ono automatski osvijetli vidno polje.

Maske za zavarivanje mogu biti dodatno opremljene ventilacijskim sistemom, koji dovodi vazduh sa stražnje strane glave zavarivača, što značajno smanjuje količinu udisajnih para, koje nastaju pri zavarivanju (prašina i plinovi) ili mogu biti opremljeni nosačima za uređaje za filtriranje kod uređaja koji koriste silu vazduha. Ručno nošene maske za zavarivanje štite oči, cijelo lice i vrat zavarivača. Osnovno ograničenje ručne maske za zavarivanje je potreba da se drži u ruci tokom zavarivanja, što značajno smanjuje slobodu kretanja zavarivača i onemogućuje, na primjer, držanje zavarenog objekta.

OBILJEŽAVANJE MASKI ZA ZAVARIVANJE



- identifikacija proizvođača, oznaka modela
- standardni broj
- CE oznaka

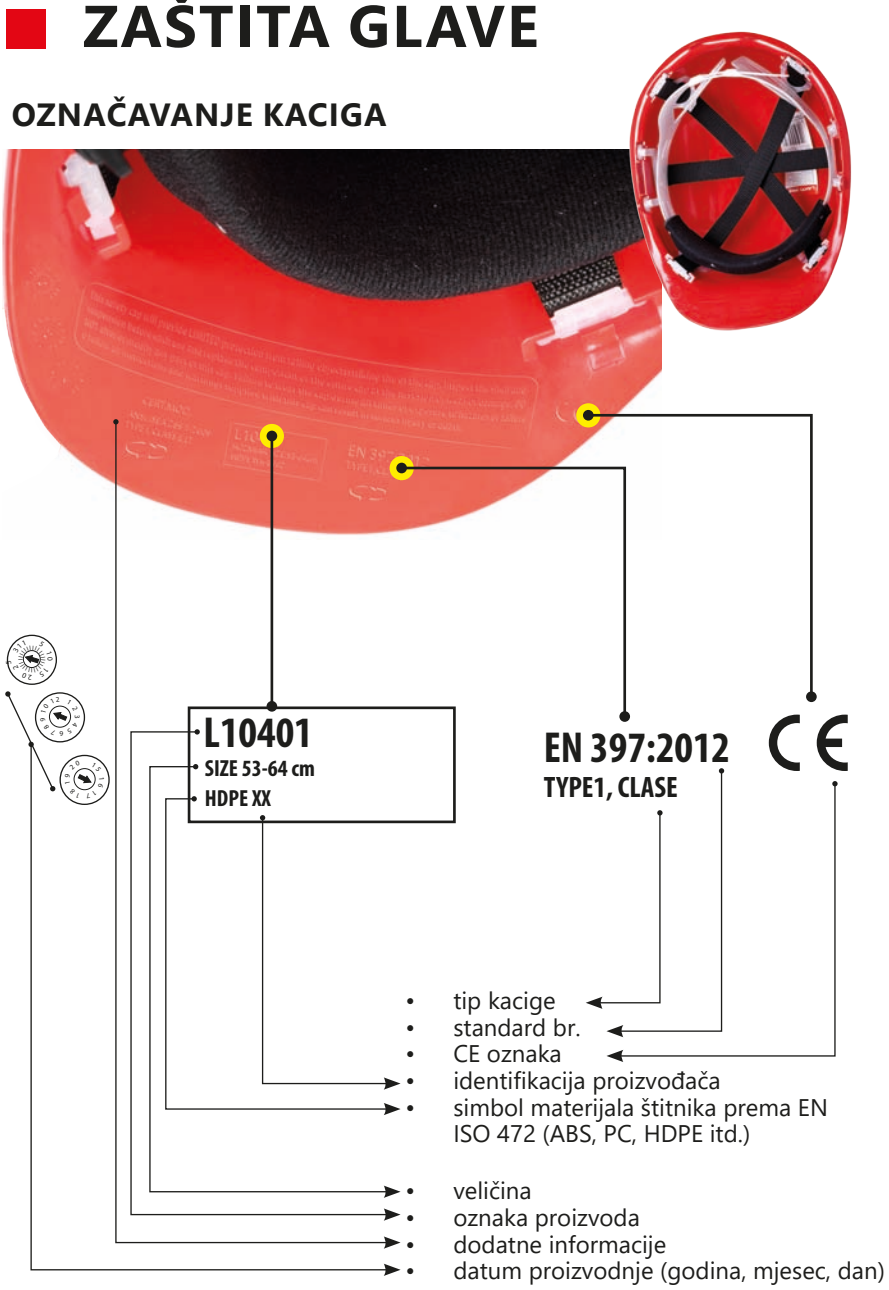
Odabir filtera za zavarivanje prema EN 169 / EN175

POSTUPAK	TRENUTNI																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Pokrivene elektrode	8							9		10		11		12			13			14	
MAG	8								9	10		11			12			13			14
TIG		8				9			10		11			12		13					
MIG teški metali									9		10			11			12		13	14	
MIG lake legure											10			11		12		13		14	
Zavarivanje pomoću plamena												10			11	12		13		14	15
Pac										9		10	11			12			13		
Paw	4		5		6		7		8		9		10			11			12		

- **MIG** – zavarivanje pomoću potrošne elektrode zaštićene inertnim plinom
- **MAG** – zavarivanje pomoću potrošne elektrode zaštićene aktivnim plinom
- **TIG** – zavarivanje pomoću volframove elektrode zaštićene inertnim plinom
- **Arc-air gouging** – zavarivanje pomoću plamena s ugljičnom elektrodom i kompresovanim vazduhom, koji puše iz rastaljenog metala
- **PAC** – rezanje plazma lukom
- **PAW** – plazma zavarivanje

ZAŠTITA GLAVE

OZNAČAVANJE KACIGA



POPIS STANDARDA

EN 397 – Industrijske zaštitne kacige. Ovaj standard određuje zahtjeve i parametar, koji su relevantni za sigurnost, metode ispitivanja i zahtjeve označavanja za industrijske zaštitne kacige. Utvrđeni su obavezni i dodatni zahtjevi za sigurnosne parametre.

Obavezni zahtjevi

- **apsorpcija udara** (energija udara, koja se prenosi na model glave ne smije prelaziti 5 kN tokom slobodnog pada predmeta od 5 kg s visine od 1 m)
- **otpornost na prodiranje** (bušilica od 3 kg s visine od 1 m ne smije deformisati kacigu na takav način da se dodiruje model glave)
- **Otpornost na plamen** (plamen plamenika pod uglom od 45 stepeni trebao bi biti na udaljenosti od 50 do 100 mm i dolaziti u dodir s vrhom kacige na 10 s. Nosač kacige ne smije gorjeti i širiti vatru duže od 5 sekundi nakon prestanka izloženosti otvorenom plamenu)

Dodatni zahtjevi:

- apsorpcija udara pri vrlo niskim temperaturama 20° C ili – 30° C
- apsorpcija udara pri vrlo visokim temperaturama + 150° C
- električna izolacija 440 Vac
- uzdužne deformacije – LD
- prskanje rastaljenog metala – **MM**

Trajnost kacige

Datum proizvodnje kacige je utisnut na unutrašnjoj strani kacige (najčešće na obodu). Kodiran je u obliku tri štita. Glava strelice, koja se nalazi u svakom štitu, pokazuje godinu, mjesec i dan proizvodnje. Kaciga zadržava puna zaštitna svojstva 2 godine od datuma stavljanja u upotrebu, ne duže od 3 godine od datuma proizvodnje.

ZAŠTITA SLUHA

POPIS STANDARDA

EN352-1 – Štitnici za uši – Opći zahtjevi Dio 1 Naušni nastavci. Ovaj standard određuje zahtjeve koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnike naušnih nastavaka.

EN352-2 – Štitnici za uši – Opći zahtjevi - Dio 2: Čepići za uši. Ovaj standard određuje zahtjeve koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnike čepića za uši.

EN352-3 – Štitnici za uši – Opći zahtjevi – Dio 3: Naušni nastavci pričvršćeni na industrijske zaštitne kacige. Ovaj standard određuje zahtjeve, koji se odnose na strukturu, dizajn, rad, obilježavanje i informacije za korisnika naušnih nastavaka pričvršćenih na industrijske zaštitne kacige.

Osnovni parametri EN352 standarda

- **podešavanje** – procjenjuje se mogućnost podešavanja naušnika glavama različitih veličina
- **pritisak na glavi** – maksimalni pritisak na glavi je 14 N
- **pritisak vazdužnog jastuka** – maksimalni pritisak jastuka za smanjenje buke iznosi 4.500 Pa
- **otpornost na oštećenje** – proizvod se ispušta s visine od 1,5 metra na čeličnu ploču
- **zapaljivost** – površina proizvoda se dodiruje štapom zagrijanom na 650 ± 20°C tokom 5 sekundi; površina se ne smije zapaliti ili žariti nakon povlačenja šipke.

ZAHTJEVI DIREKTIVE 2003/10/EC

Minimalni zahtjevi za zaštitu radnika od rizika izloženosti buci

Izloženost od 8 sati do > **85 dB**	Izlaganje tokom 8 sati do > = **80 dB**	Izloženost tokom 8 sati do > **70 dB** i > = **80 dB**
Zaštita sluha je obavezna	Štitnici za sluh moraju biti dostupni zaposleniku	Preporučuje se zaštita sluha



Štitnici za uši su najjednostavnija i najbrža metoda za zaštitu sluha od djelovanja buke

Štitnici za slušne aparate dijele se na:



- Naušnici
- Čepići za uši

ATENUACIJA / SMANJENJE

SNR Pojednostavljeno smanjenje buke Jedinična vrijednost smanjenja buke.

HML Vrijednost smanjenja šuma je izražena ovisno o prosječnoj frekvenciji

- **H:** Smanjenje visokih frekvencija (visoki tonovi)
- **M:** Smanjenje srednjih frekvencija
- **L:** Smanjenje niskih frekvencija (niski tonovi)

NAUŠNICI ZA ZAŠTITU OD BUKE

Štitnici za uši izrađeni su od dvije posude za smanjenje, buke koje pokrivaju ušnu školjku i čvrsto su pritisnute uz glavu mekim brtvenim jastucima, koji se obično pune plastičnom pjenom ili tečnošću. Naušnici za prigušivanje obično se pune materijalom koji apsorbuje zvuk. Naušnici se mogu se nositi ili montirati na zaštitne kacige.

ČEPIĆI ZA UŠI

Čepići za uši su štitnici za sluh, koji se nose u vanjskom slušnom kanalu. Namijenjeni su za čvrsto zatvaranje slušnog kanala. Čepići za uši dolaze u dvije vrste: Čepići za jednokratnu i višekratnu upotrebu. Mogu ih oblikovati proizvođači (npr. napravljeni od silikona) ili korisnik (npr. od pjene). Čepići za uši su također dostupni u verziji s trakom za glavu. Traka za glavu služi kao opruga s pritiskom i služi za održavanje čepića unutar ili na ulaznoj tački u slušni kanal. Traka za glavu može se nositi na vrhu glave, ispod brade ili na poleđini glave. Veličinu čepića treba pažljivo odabrati za svakog korisnika, budući da loše postavljeni čepići mogu uzrokovati nelagodu ili iritaciju slušnog kanala.



OZNAČAVANJE ČEPIĆA ZA UŠI

Zbog prirode proizvoda, oznake na čepićima za uši treba postaviti na pakovanje ili dozator.

- upute za nošenje i upotrebu
- veličine
- standardni broj
- oznaka CE



OZNAČAVANJE NAUŠNIKA

- identifikacijska oznaka proizvođača
- CE znak
- standard br.
- oznaka naprijed / nazad, gore / dole, ako je raspored naušnika važan

ZAŠTITA DISAJNOG SISTEMA

OBILJEŽAVANJE POLUMASKI



- CE oznaka i tijelo br.
- pozitivan rezultat testa za začepljenje zbog dolomitne prašine
- oznaka za ponovnu upotrebu (NR – jednokratna upotreba; R – višekratna upotreba)
- pojedinačni broj proizvoda
- standard br.
- datum proizvodnje
- oznaka modela
- klasa zaštite
- naziv proizvođača

Filtrirajuće polumaske prema djelotvornosti filtriranja dijele se u tri razreda **FPP1, FPP2 i FPP3**

Učinkovitost filtriranja za svaki razred

	FFP1	FFP2	FFP3
Koncentracija štetnih materija	do 4xMAC	do 10xMAC	do 30xMAC
Učinkovitost filtriranja	80%	94%	99%
Propusnost	20%	6%	1%
Početni otpor disanja od 95 l / min	<210 Pa	<240 Pa	<300 Pa

POPIS STANDARDA

EN149:2001 Zaštitne naprave za disanje – Filtrirajuće polumaske za zaštitu od čestica – Zahtjevi, ispitivanje, označavanje. Ovaj se standard primjenjuje na polumaske za filtriranje, koje su svrstane u kategoriju zaštite III. Navedeni su minimalni zahtjevi za ispitivanja i obilježavanje filtrirajućih polumaski, koje se koriste kao zaštita disajnih puteva od čestica, osim za maske koje se koriste u slučaju hitnog stanja.

MAC – maksimalno dopuštena koncentracija toksičnog hemijskog jedinjenja za različite štetne faktore – uticaj na zaposlenika tokom 8 sati dnevnog prosjeka u sedmičnom radnom vremenu je naveden u Zakonu o radu: u razdoblju njihove profesionalne aktivnosti ne bi smjelo uzrokovati nikakve negativne promjene u njihovom zdravstvenom stanju.

ZAŠTITA TOKOM RADA JE POTREBNA KADA

- koncentracija opasnih materija u vazduhu premašuje maksimalnu dopuštenu koncentraciju (MAC) za ta jedinjenja
- je sadržaj oksigena u udahnutom vazduhu manji od 17% sastava vazduha
- temperatura vazduha, koji se udiše, prelazi prihvatljiv standard za temperaturu u kojoj osoba može raditi

ZAŠTITA RUKU

Zaštitne rukavice su izuzetno važan element Zaštite na radnom mjestu

Koriste se za zaštitu ruku od neželjenih faktora i / ili štetnih faktora po zdravlje i život.

Pravilno odabrane zaštitne rukavice neće samo pružiti odgovarajuću zaštitu ruku, nego također garantuju maksimalnu udobnost korištenja i pozitivan uticaj na sigurnost i kvalitet izvedenog rada.

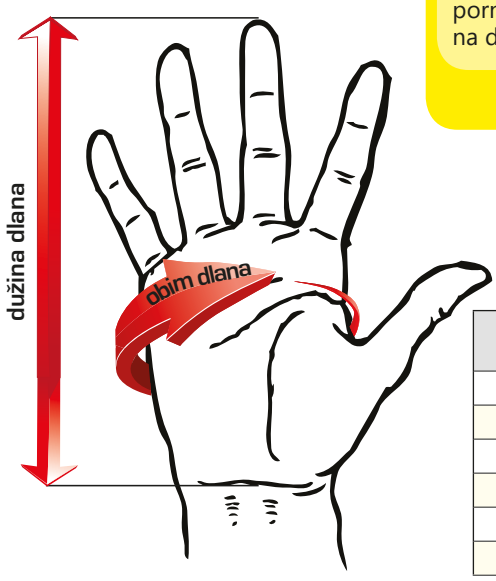




KAKO ODABRATI ZAŠTITNE RUKAVICE

Veličina

Donja tablica prikazuje smjernice standarda **EN 420** u pogledu specifičnih veličina rukavica dodijeljenih pojedinim veličinama dlanova. Lahti Pro zaštitne rukavice pružaju korisniku optimalno prijanjanje i garantuju sigurnost i udobnost korištenja.



Dužina dlana	Obim dlana	Veličina
6 [XS]	16.0 cm	to 15.2 cm
7 [S]	17.1 cm	to 17.8 cm
8 [M]	18.2 cm	to 20.3 cm
9 [L]	19.2 cm	to 22.9 cm
10 [XL]	20.4 cm	to 25.4 cm
11 [2XL]	21.5 cm	to 27.9 cm

POPIS STANDARDA

EN 420
– **Zaštitne rukavice** – Opći zahtjevi i metode ispitivanja. Ovaj se standard primjenjuje na sve zaštitne rukavice, bez obzira na kategoriju zaštite, kojoj pripadaju rukavice (stoga se primjenjuje prema stepenu zaštite I, II i III). U njemu se navode opći zahtjevi i odgovarajući postupci ispitivanja, koji se primjenjuju na konstrukciju i strukturu rukavica, otpornost materijala na prodor vode, njihovu sigurnost, udobnost korištenja i oznaku učinkovitosti, te podatke koje proizvođač dostavlja za sve vrste zaštitnih rukavica.

EN 388 – Zaštitne rukavice za zaštitu od mehaničkih rizika
Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. To uključuje zahtjeve, metode ispitivanja, obilježavanje i informacije koje se daju korisniku. Ispitivanje rukavica uključuje otpornost na mehanička oštećenja, kao što je abrazija, rezanje oštrim nožem, trganje i bušenje. Mehanički parametri otpornosti rukavica određeni su pomoću četiri cifre na dnu grafičkog simbola.

EN 407 – Zaštitne rukavice protiv toplotnog rizika (toplota i / ili požar)
Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Obuhvata opće zahtjeve, metode ispitivanja nivoa učinkovitosti u okviru toplotnog rizika, označavanje i informacije koje se dostavljaju korisniku. Ispitivanja rukavica uključuju otpornost na toplotne rizike, kao što su požar ili visoke temperature. Parametri toplotne otpornosti za rukavice određeni su sa šest brojeva na dnu grafičkog simbola.

EN 511 – Zaštitne rukavice za zaštitu od hladnoće. Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Obuhvata zahtjeve za označavanje i informacije, koje se daju korisniku, kao i ispitivanja rukavica koje štite od konvekcije i provođenja hladnoće do –50° C. Toplotni otpor - Parametri toplotne otpornosti rukavica određeni su s tri cifre na dnu grafičkog simbola.

EN ISO 10819 – Mehaničke vibracije i udari – Vibracije ruku - Metoda mjerenja i procjene prenosivosti vibracija rukavica na dlanu. Ovaj se standard primjenjuje na zaštitne rukavice kategorije II. Uključuje potrebne oznake i informacije koje se dostavljaju korisniku, kao i laboratorijsku metodu mjerenja i metodu za analizu podataka i pripremu izvještaja o ispitivanju prenosivosti vibracija, rukavice s materijalom koji smanjuje vibracije, koje prekrivaju dlan ruke i prste zajedno s palcem. Prema utvrđenom postupku ispitivanja za rukavice, koje su predložene za zaštitu protiv vibracija, utvrđena su dva numerička koeficijenta koji karakteriziraju rukavice:

- korigovani prenos vibracija TRM za M–testni signal (frekvencijski raspon 32–200 Hz)
- korigovani prenos vibracija TRH za H-ispitni signal (frekvencijski raspon 200–250 Hz)

EN 12477 – Zaštitne rukavice za zavarivanje. Ovaj se standard odnosi na zaštitne rukavice u kategoriji zaštite II. Obuhvata zahtjeve za obilježavanje i informacije koje daje proizvođač i ispitivanja rukavica za zavarivanje, koje se koriste u ručnom zavarivanju metala, rezanju i u srodnim postupcima. U skladu s navedenom normom, zaštitne rukavice za zavarivače podijeljene su u sljedeće grupe:

- Tip A (osigurava ispunjavanje zahtjeva u okviru zaštitnih svojstava na višem nivou)
- Tip B (koristi se za rad koji zahtijeva veliku vještinu, npr. tokom TIG zavarivanja)

EN381-7 – Rukavice za rad s motornom pilom. Potrebni zahtjevi, koji se odnose na zaštitne rukavice, koje se koriste za zaštitu korisnika tokom rada ručnom motornom pilom. Definisane su dvije konstrukcije rukavica, koje štite od rezanja motorne pile, tj. dizajn A i dizajn B. Postavljeni su zahtjevi koji se odnose na otpornost na rezanje motornom pilom, mehaničke faktore, ergonomiju i obilježavanje, informacije o proizvođaču i upute za upotrebu. Uključeni su i savjeti za odabir odgovarajućeg dizajna zaštitne rukavice.
Zaštita od rezanja motornom pilom dijeli rukavice u četiri klase zavisno od brzine lanca motorne pile: Klasa 0 – 16 m / s, Klasa 1 – 20 m / s, Klasa 2 – 24 m / s i Klasa 3 – 28 m / s.

EN388

abcdef

Parametar	Nivo 1	Nivo 2	Nivo 3	Nivo 4	Nivo 5
(**a**) Otpornost na abraziju (broj ciklusa)	100	500	2000	8000	-
(**b**) Otpornost na rezanje (indeks) 1	1.2	2.5	5.0	10.0	20.0
(**c**) Otpornost na kidanje [N]	10	25	50	75	-
(**d**) Otpornost na probijanje [N]	20	60	100	150	-

Parameter	Nivo A	Nivo B	Nivo C	Nivo D	Nivo E	Nivo F
(**e**) Otpor rezanja prema ISO 13977 [N]	2	5	10	15	22	30

Parametar	Level P
(**f**) Otpornost na udarce prema EN 13594: 2015	DA

Parametri a-d acc. to EN 388:2002; parametri a-f acc. to EN 388:2016

EN407

abcdef

Parametar	Nivo 1	Nivo 2	Nivo 3	Nivo 4
(**a**) Ponašanje pri gorenju				
Vrijeme nakon gorenja [s]	≤ 20	≤ 10	≤ 3	≤ 2
Vrijeme nakon svijetljenja [s]	No requirements	≤ 120	≤ 25	≤ 5
(**b**) Otpornost na kontaktnu toplotu				
Kontaktna temperatura Tc [oC]	100	250	350	500
Vrijeme prelaska praga tt [s]	≥ 15	≥ 15	≥ 15	≥ 15
(**c**) Otpornost na prenosnu toplotu				
Indeks prenosa toplote HTI [s]	≥ 4	≥ 7	≥ 10	≥ 18
(**d**) Otpornost na radijacijsku toplotu	20	60	100	150
Prenos toplote t24 [s]	≥ 7	≥ 20	≥ 50	≥ 95
(**e**) Otpor rezanja prema ISO 13977 [N]				
Broj kapljica	≥ 10	≥ 15	≥ 25	≥ 35
(**f**) Otpornost na veliku količinu rastaljenog metala				

EN12477

Zahtjevi	Uslovi	
	A tip	B tip
Otpornost na abraziju - stepen učinkovitosti (u broju ciklusa) otpornost	2 (500)	1 (100)
Nivo učinkovitosti otpornosti na rezanje (I indeks)	1 (1.2)	1 (1.2)
Nivo učinkovitosti otpornosti na kidanje (vrijednost u N)	2 (25)	1 (10)
Otpornost na probijanje - nivo učinkovitosti (vrijednost u N)	2 (60)	1 (20)
Nivo učinkovitosti zaštite protiv paljenja	3 (nakon gorenja ≤ 3 s, nakon svijetlenja ≤ 25 s)	2 (nakon gorenja ≤ 3 s, nakon svijetlenja ≤ 25 s)
Stepen djelovanja otpornosti prenosne toplote (kontaktna temp. u °C)	1 (100)	1 (100)
Nivo otpornosti na fino prskanje rastopljenog metala (broj kapljica)	2 (≥7)	nema zahtjeva
Dexterity - level of efficiency (rod diameter in mm)	1 (11)	4 (6.5)

EN511

abc

Parametar	Nivo 1	Nivo 2	Nivo 3	Nivo 4
Toplotna izolacija				
Toplotna izolacija ITR [m2K / W]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(**b**) Toplotni otpor				
Toplotni otpor R [m2K / W]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

C- parametar - otpornost na prodiranje vode - 0 ili 1

Materijal za premazivanje / prianjanje

"RADNIČKE" RUKAVICE OD SINTETIČKE KOŽE

Sintetička koža je materijal kojeg karakterišu izdržljivost i otpornost na habanje. Rukavice od sintetičke kože obično imaju brojna pojačanja, jastučiće, koji štite od žuljeva i vibracija, te čičak traku za zglob. Izdržljivost, udobnost korištenja i dodatni osjećaj držanog predmeta čine rukavice popularnim alatom u radionicama za automobile i stoga su nadaleko poznate kao "radničke" rukavice. Međutim, one su također vrlo popularne u industriji transporta, u skladištima i svim vrstama slobodnih aktivnosti.

RUKAVICE OD PRIRODNE KOŽE

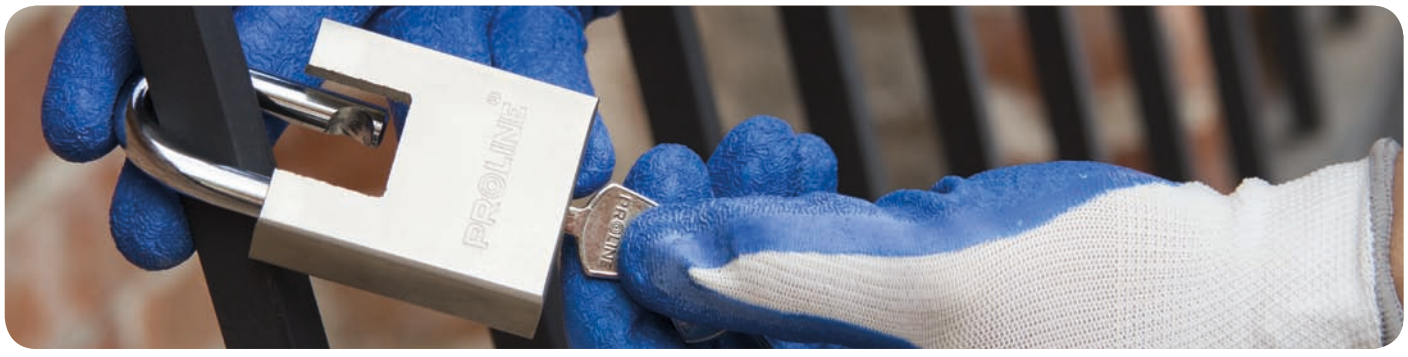
Rukavice od prirodne kože pokazuju visoku otpornost na habanje i trošenje. Također ih odlikuje dobra prozračnost. Pružaju maksimalnu udobnost korištenja i dobar zahvat držanog predmeta, zadovoljavajući i najzahtjevnije korisnike. Zbog širokog spektra primjene, kožne rukavice koriste se u mnogim sektorima, kao što su građevinarstvo, transport, automobilska industrija i poljoprivreda

RUKAVICE OD LATEKSA

Lateks je najpopularniji premaz zaštitnih rukavica. Rukavice su obložene lateksom ili izrađene od njega. Odlikuje ih visoka fleksibilnost i pri niskim temperaturama, visoka otpornost na kidanje,
i pružaju izvrsne performanse čak i u najtežim vremenskim uslovima. Velika raznovrsnost lateksa, kao i relativno niski troškovi proizvodnje znače da se rukavice od lateksa koriste u gradnji, u saobraćajnoj industriji, poljoprivredi, domaćinstvima, vrtovima i drugim područjima.

OPLOTNE IZOLACIJSKE RUKAVICE

Izolacijske rukavice namijenjene su za rad u teškim vremenskim uslovima, uključujući i pri niskim temperaturama. Njihov premaz osigurava svestranost. Mješavina sintetičkih vlakana, koja ne upijaju vodu i čuvaju toplotu, štite korisnika od hladnoće, kiše, snijega i vjetra. Izolacijske rukavice koriste se na gradilištima, u transportnoj industriji i pri radu u hladnjačama.



RUKAVICE S NITRILNIM PREMAZOM

Nitril, od kojeg su izrađene rukavice marke Lahti Pro, sintetička je gumena smjesa akrilonitrila i butadiena, koja ne sadrži lateks proteine. Kombinacija ove dvije komponente proizvodi fleksibilni material, koji je vrlo otporan na abraziju, a istovremeno pruža odličnu otpornost na bezolovni benzin, dizel, ulje, heksan i parafin. Također pruža idealnu zaštitu od ulja i masti. Rukavice obložene nitrilom često se koriste u transportnoj i automobilskoj industriji, kao i u poljoprivredi i vrtlarstvu. One su također izvrsna alternativa za osobe alergične na lateks.

POLIURETANSKE RUKAVICE

Poliuretan je materijal vrlo visoke fleksibilnosti i velike otpornosti na abraziju i trganje. Zahvaljujući ovim karakteristikama, savršen je za izradu rukavica s tankim i istovremeno vrlo otpornim premazom. Poliuretanske rukavice pružaju izvrsnu spretnost i osjećaj držanja predmeta, osiguravajući izvrsne performanse, naročito tokom radova koji zahtijevaju visoku preciznost. Ove rukavice često koriste mehaničari, radnici u skladištu i vlasnici kuća.

PVC-OBLOŽENE RUKAVICE

Rukavice obložene PVC-om karakterišu odlična otpornost na masti, ulja, masti, blaga sredstva za čišćenje, kao i na vodu, te također pružaju relativno dobre performanse pri niskim temperaturama. Koriste se u mnogim sektorima, uključujući automobilsku industriju, poljoprivredu i prevoz.



Svojstva materijala za premazivanje / prijanjanje

Premazna svojstva	Tip premaza / hvat					
	Sintetička koža	Prirodna koža	Lateks	Nitril	Poliuretan	PVC
Elastičnost	1	1	5	4	5	3
Svojstva protiv klizanja	1	2	4	5	3	5
Prianjanje (osjećaj držanja predmeta)	5	4	3	4	5	3
Otpornost na abraziju	5	5	2	5	5	4
Otpornost na kidanje	5	5	5	1	5	1
Otpornost na probijanje	5	5	2	5	2	3
Otpornost na vodu i njene derivate	1	2	5	3	3	5
Otpornost na masti i ulja	2	3	2	5	4	5
Otpornost na ugljikovodike	1	1	1	4	1	2
Otpornost na sredstva za pranje i deterdžente	1	1	5	4	4	5
Otpornost na ketonska otapala itd.	1	1	4	1	2	1

1 Vrlo niska · 2 Niska · 3 Srednja · 4 Visoka · 5 Vrlo visoka

*Prianjanje mnogih modela Lahti Pro sintetičkih kožnih rukavica ima brojne umetke od PVC-a, silikonske mreže protiv klizanja itd. koji značajno poboljšavaju performanse rukavica. Podaci u gornjoj tablici odnose se samo na sintetičku kožu i zato ne uključuju svojstva dodatnih materijala.

Beleška: Gornja tablica predstavlja ilustrativno poređenje svojstava karakterističnih za određeni tip presvlaka / prianjanja. Svojstva zahvata mogu se razlikovati zavisno od modela rukavica.



Vrsta tkanine od koje bi se trebale izraditi rukavice

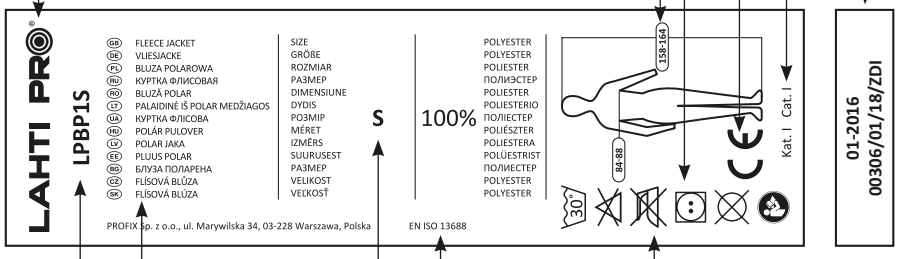
Donja tablica prikazuje glavne prednosti tkanina koje se koriste u zaštitnim rukavicama:

Vrsta tkanine	Prednosti	
Poliester	⊕ Može se miješati s pamukom, kako bi se povećala udobnost korištenja ⊕ Snažan i izdržljiv ⊕ Otporan na abraziju i istezanje	⊕ Otporan na prodiranje tečnosti ⊕ Brzo se suši ⊕ Elastičan
Pamuk	⊕ Visoko prozračan, hladan, prenosi toplotu ⊕ Mekan na dodir (vrlo udoban) ⊕ Otporan na abraziju	⊕ Upija znoj ⊕ Nema statičkog elektriciteta
Najlon	⊕ Snažan i izdržljiv ⊕ Visoka otpornost na abraziju i rastezanje ⊕ Otpornost na ulja, masti i benzin	⊕ Elastičan ⊕ Otporan na prodiranje tečnosti
Akril	⊕ Savršena zaštita od hladnoće ⊕ Otpornost na abraziju i rastezanje ⊕ Mekan na dodir (vrlo udoban)	⊕ Otporan na ulje ⊕ Otporan na prodiranje tečnosti
Modificirana sintetička vlakna	⊕ Visoka otpornost na posjekotine ⊕ Otporna na prodiranje tečnosti	⊕ Vrlo otporna na abraziju i rastezanje ⊕ Elastičnost

ZAŠTITA TIJELA

OBILJEŽAVANJE ZAŠTITNE ODJEĆE

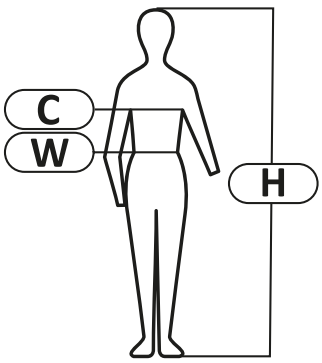
- CE oznaka
- kategorija zaštite
- metoda održavanja
- datum proizvodnje - dan, mjesec i godina
- zaštitni znak
- doseg veličine



- Logo proizvođača
- veličina
- vrsta proizvoda
- standard br

VELIČINA

C – širina prsnog koša
W – struk
H – visina



SIMBOLA	OPIS
	Ne perite
	Ručno pranje
30°	Perite na 30 °C - normalan postupak
30°	Perite na 30 °C - blagi postupak
30°	Perite na 30 °C - vrlo blagi postupak
	Ne peglati
	Peglanje do 110 °C
	Peglanje do 150 °C
	Peglanje do 200 °C
	Ne sušiti u sušilici
	Može se sušiti u sušilici - niža temperatura
	Može se sušiti u sušilici - normalna temperatura
	Sušiti u sušilu
	Sušiti na vazduhu
	Sušiti na vazduhu
	Sušiti na vazduhu bez peglanja
P	Profesionalno suho čišćenje perkloretilenom
	Ne izbjeljivati

POPIS STANDARDA

EN ISO 13688 – Zaštitna odjeća – Opći zahtjevi. Ovaj međunarodni standard utvrđuje opće zahtjeve za izvođenje dizajna, ergonomije, neškodljivosti, označavanja veličine, starenja, kompatibilnosti i označavanja zaštitne odjeće i informacija koje proizvođač mora označiti na zaštitnoj odjeći. Ovaj međunarodni standard namijenjen je samo za upotrebu u kombinaciji s drugim standardima koji sadrže zahtjeve za specifičnim zaštitnim svojstvima, a ne samostalno.

EN ISO 20471 – Odjeća visoke vidljivosti – Metode ispitivanja i zahtjevi. Ovaj standard određuje zahtjeve za odjeću visoke vidljivosti, koji mogu vizualno signalizirati prisutnost korisnika. Odjeća s visokom vidljivošću namijenjena je za osiguravanje vidljivosti nosioca u bilo kojem svjetlosnom stanju kada ga osvijetle operateri vozila ili drugi mehanički uređaji za vrijeme dnevne svjetlosti i pod svjetlom prednjih svjetala u mraku. To jasno određuje zahtjeve za boju, za retrorefleksiju, kao i za minimalna potrebna područja i za postavljanje materijala u zaštitnu odjeću. Osim toga, nameće obavezu informisanja korisnika o maksimalnom broju ciklusa i načinu pranja koji se preporučuje za odjeću, kako bi se održao odgovarajući nivo zaštite.

EN ISO 20471

Ovaj standard održava razvrstavanje odjeće u 3 kategorije na osnovu minimalne površine retroreflektirajućih materijala po m2. Kategorija 1 je najniža kategorija, a kategorija 3 predstavlja najviši nivo vidljivosti.

	Kategorija odjeće 3	Kategorija odjeće 2	Kategorija odjeće 1
Pozadinski materijal	0.8 m^2	0.5 m^2	0.14 m^2
Retroreflektirajući materijal	0.2 m^2	0.13 m^2	0.10 m^2
Materijal s kombinovanim svojstvima	...	...	0.2 m^2

ODJEĆA ZA ZAVARIVANJE

Kao oprema za ličnu zaštitu kategorije II, odjeća za zavarivanje mora biti certificirana u skladu s EZ testom tipa u skladu s Direktivom 89/686/EEZ.

NAMJENA

Zaštitna odjeća za zavarivanje potrebna je za zavarivačke radove, uključujući zavarivanje, navarivanje zavarivanjem, lemljenje, lijepljenje i termičko rezanje metala i termoplasta. Tokom zavarivačkih radova, zavarivači su izloženi opasnosti od odsjaja, prskanja, toksičnih i kancerogenih zavarivačkih para i prašine, elektromagnetnog polja, UV i toplinskog zračenja, strujnog udara, požara, trovanja i bolesti kože, očiju i pluća.

USLOVI ZA MATERIJAL

Zaštitna odjeća za zavarivanje izrađena je uglavnom od vatrostalno otpornih pamučnih tkanina impregniranih visokom gustoćom površine, te od prirodne presvučene kože, kako bi bila otporna na vatru.

USLOVI ZA IZRADU

Zaštitna odjeća za zavarivanje mora zadovoljavati specifične zahtjeve izrade kako bi se smanjio rizik od vrućeg prskanja, te prodiranja u odjeću:

- Zaštitna odjeća treba pokrivati cijelo tijelo nosioca tokom zavarivanja: gornji i donji dio trupa, vrat, ramena, ruke i noge.
- Ako se odjeća sastoji od jakne i hlača, jakna bi se trebala preklapati oko pojasa najmanje 20 cm. Minimalno preklapanje treba se održavati tokom svih aktivnosti i kretanja na poslu.
- Dijelovi odjeće, koji djeluju kao dodatna zaštita, kao što su štitnik vrata, kapuljača, rukavi, kecelja i rukavice trebaju biti dizajnirani i korišteni kako bi se spriječilo prodiranje iskri i metalnih kapljica u odjeću.
- Ako odjeća ima džepove, treba ih prekriti.
- Ako hlače imaju džepove, to bi trebali biti samo bočni džepovi, koji ne strše iz bočnog šava hlača više od 10°.
- Hlače ne smiju imati metalne dijelove. Odjeća mora biti izrađena tako da spriječi prodor električne energije, na primjer preko metalnih kopči.

KLASE

Postoje dvije klase odjeće za zavarivanje sa strogo određenim zahtjevima učinkovitosti:

Class 1: - zaštita od manje opasnih primjena u zavarivanju i situacije koje uzrokuju umjereno izlaganje prskanju i zračenju.

Class 2: - zaštita od opasnijih primjena zavarivanja i situacije koje uzrokuju značajnu izloženost vrućim faktorima. Navedenim odjeljcima odjeće dodijeljene su vrste primjena zavarivanja i vrste procesa (vrsta korištenih uređaja) prema EN ISO 11611 za pomoć pri odabiru odgovarajuće vrste zaštitne odjeće za zavarivanje

Klasa odjeće	Vrsta postupka zavarivanja	Tip posla
Klasa 1	Ručni postupci zavarivanja tokom kojih nastaju male količine prskanja ili kapljice rastaljenog metala, npr.: • plinsko zavarivanje, • TIG zavarivanje, • MIG zavarivanje, mikro-plazma zavarivanje, • lemljenje, • tačkasto zavarivanje, • elektroda oklopljena rutilom MMA zavarivanje	Vrsta rada • uređaji za rezanje pomoću plazme, • uređaji za otporno zavarivanje, • termičko raspršivanje, • tablice za zavarivanje
Klasa 2	Ručni postupci zavarivanja tokom kojih se stvaraju velike količine prskanja ili kapljica rastaljenog metala, kao što su: • MMA zavarivanje (upotrebom alkalnih ili celuloznih elektroda), • MAG zavarivanje (koristeći CO2 ili mješovite plinove) • MIG (visoko strujno) zavarivanje • elektrolučno zavarivanje punjenim punjenjem • rezanje plazmom • dubljenje • rezanje pomoću plamenika • toplinsko prskanje.	Rad uređaja u uslovima • u zatvorenim prostorima, • kod operacija zavarivanja / rezanja koje zahtijevaju rad iznad glave ili se rad odrađuje u sličnim ograničenim položajima



POPIS STANDARDA

EN ISO 11611

EN ISO 11611 Zaštitna odjeća za zavarivanje i srodne postupke.

Ovaj standard sadrži minimalne osnovne zahtjeve i metode ispitivanja zaštitne odjeće namijenjene za nošenje tokom zavarivanja i srodnih postupaka s uporedivim rizicima. Ova vrsta odjeće namijenjena je zaštiti korisnika od prskanja rastopljenog metala, iskrenja metalnih brušenja, kratkog vremena kontakta s plamenom i toplotom zračenja iz električnog luka. Smanjuje mogućnost električnog udara uzrokovanog kratkotrajnim, slučajnim kontaktom s električnim vodičima pod naponom do približno 100 V u normalnim uslovima i tokom zavarivanja.
Postupak A1 – metoda ispitvanja površinskog paljenja
Postupak A2 – metoda ispitivanja paljenja rubova. \ T Usklađenost A1 + A2 – ograničeno širenje plamena.

EN ISO 11612

EN ISO 11612 Zaštitna odjeća – Odjeća za zaštitu od toplote i plamena. Minimalni zahtjevi izrade.

Standard određuje zahtjeve za zaštitnu odjeću namijenjenu zaštiti tijela nosioca osim ruku od vrućine i plamena. Primjenjuju se zahtjevi iz standarda na širok raspon zaštitne odjeće, koja bi trebala pokazivati otpornost na paljenje nakon kratkog kontakta s plamenom, ograničiti širenje plamena (A1 + A2) i zaštititi od najmanje jedne vrste toplote. Nivo zaštite od toplote (što je veći broj, to je bolja zaštita):
- toplinska zaštita (B1, B2, B3)
- toplinsko zračenje (C1, C2, C3, C4)
- prskanje rastaljenog aluminija (D1, D2, D3);
- prskanje rastaljenog željeza (E1, E2, E3);
- kontaktna toplina (F !, F2, F3)

ANTISTATIČKA ODJEĆA

Kao lična zaštitna oprema klase 2, antistatička odjeća mora biti certificirana u skladu s EZ testom tipa u skladu s Direktivom 89/686/EEZ.

NAMJENA

Antistatička zaštitna odjeća potrebna je u opasnim zonama (kao što su hemijska, rudarska, naftna industrija, transport opasnih materija, plinske instalacije, elektrane) i izvan opasnih zona (kao što je proizvodnja elektronike radi sprečavanja statičkog oštećenja).

USLOVI ZA MATERIJAL

Antistatička zaštitna odjeća izrađena je od materijala koji mogu raspršiti i odvoditi statički naboj, što sprečava zapaljiva pražnjenja.

USLOVI ZA IZRADU

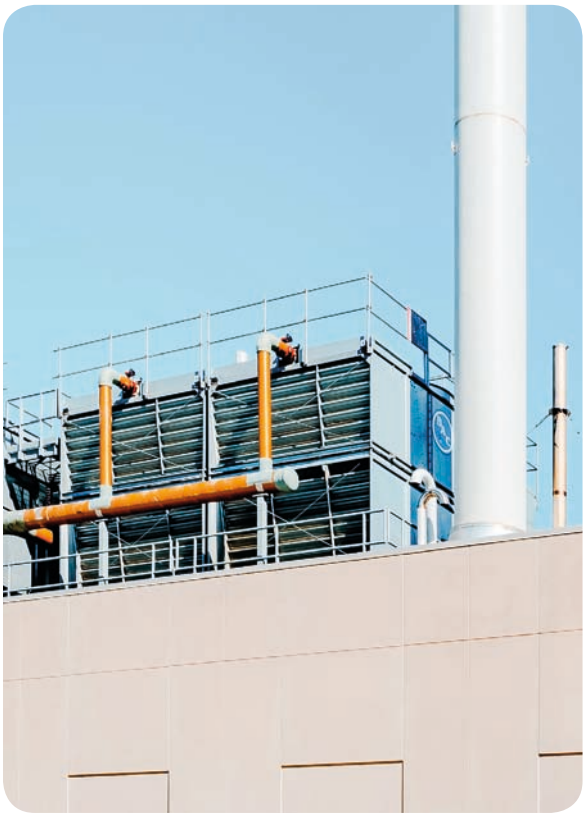
Antistatička odjeća mora zadovoljiti specifične zahtjeve konstrukcije, kako bi se spriječilo statičko pražnjenje:

- Odjeća treba pokrivati cijelo tijelo nosioca u pokretu i u savijenom položaju.
- Odjeća se mora dobro uklopiti i ne smije onemogućavati pokrete radnika, čak i kada se zakopča tokom upotrebe.
- Ako je odjeća izrađena od raznih vrsta materijala, vanjski sloj treba biti antistatički materijal.
- Pričvrsni elementi od providnog materijala, kao što su zatvarači, dugmad ili zatvarači na čičak, mogu se koristiti sve dok su prekriveni antistatičkim materijalom.
- U materijalima koji sadrže paralelnu ili isprepletenu provodnu nit, udaljenost između vodljivih niti u istom smjeru ne smije prelaziti 10 mm.

POPIS STANDARDA

EN 1149-5

EN 1149-5 Zaštitna odjeća – Elektrostatička svojstva – 5. Uslovi za materijal i dizajn
Standard određuje metode za ispitivanje elektrostatičkih svojstava materijala i konstrukcije
za elektrostatički disipativnu zaštitnu odjeću, koja se koristi kao dio ukupnog uzemljenog sistema, kako bi se izbjegla zapaljenja. Uslovi možda nisu dovoljni u zapaljivim atmosferama obogaćenim oksigenom. Elektrostatička disipativna zaštitna odjeća poznata je i kao antistatička odjeća.



PAD S VISINE

Radovi na visinama uključuju radove na skelama, građevinskim konstrukcijama, podnim sistemima, dimnjacima, ljestvama ili drugim uzvišenim mjestima na visini od najmanje 1,0 m iznad nivoa prizemlja.

Rad na visini ne uključuje radove na površini, koji su sa svih strana zatvoreni do najmanje 1,5 m visokim čvrstim zidovima (uključujući i prozore) ili je opremljena drugim trajnim konstrukcijama ili uređajima koji štite zaposlenike od pada, bez obzira na sam operativni boravak.

Poljski i evropski propisi, koji se odnose na zaštitu na radu, obvezuju poslodavce, koji imaju radnike, koji rade na visini, da osiguraju odgovarajuće mjere zaštite od pada. Padovi s visine česti su uzrok nesreća, obično ozbiljnih ili smrtonosnih.

Rad na visini klasifikuje se kao rad s visokim stepenom opasnosti, što predstavlja prijetnju životu i zdravlju zaposlenika, i tu je upotreba lične zaštitne opreme svrstana u III. kategoriju. Za vrijeme bilo kakvog rada na visini potrebno je primijeniti posebne mjere predostrožnosti, zbog velike prijetnje zdravlju i životu zaposlenika.

Da bi bilo dopušteno raditi na visini, radnik bi:
- morao biti upoznat s profesionalnim rizikom povezanim s obavljanjem posla;
- imati ličnu zaštitnu opremu potrebnu za izvođenje takvih zadataka;
- morao imati važeću ljekarsku potvrdu za rad na visini
- morao završiti osposobljavanje za zaštitu na radu i osposobljavanje na radnom mjestu, kako bi bio upoznat sa specifičnostima rada na visini i opasnostima prisutnim na radnom mjestu.

Prema zahtjevima usklađenog standarda PNEN365 Lična zaštitna oprema protiv pada s visine - Opći zahtjevi za uputstva za upotrebu, održavanje, periodično ispitivanje, popravak, označavanje i pakovanje, periodični pregled opreme treba provoditi svake godine nakon što se prvi put stavi u upotrebu.



Kako bi se zadovoljili regulatorni zahtjevi, svaki komplet za rad na visini mora sadržavati:

Sigurnosne pojaseve (EN 361) – primarna zadaća sigurnosnih pojaseva je da zadrži tijelo tokom pada i osigura sigurnu raspodjelu dinamičkih sila, koje se javljaju tokom pada. Samo potpuni sigurnosni pojasevi s trakama za ramena i bedra su odobreni za upotrebu kao zaštita od pada.

Tačka učvršćenja (EN 362) – to je prva i ključna karika sistema lične zaštite od pada. Njena je zadaća spojiti komponentu za spajanje i amortizovanje s nosivom konstrukcijom.

Komponenta za spajanje i amortizovanje (EN 355) – spaja spojnu stezaljku sigurnosnog pojasa za tačku pričvršćenja. Ako dođe do pada, spojni element i komponenta za suzbijanje udarca moraju zaustaviti pad i minimizirati silu koja nastaje tokom usporavanja pada. Funkcije komponente za spajanje i amortizovanje mogu se obavljati pomoću: apsorbera energije s trakom, samospojnim uređajima, štitnicima od pada i drugim uređajima.

POPIS STANDARDA

(EN362)
Standard određuje zahtjeve i metode ispitivanja za jednostruke i višestruke korisničke tačke pričvršćenja. Nadalje, navodi zahtjeve koji se odnose na označavanje, uputstva za upotrebu i savjete za instalaciju.

(EN355)
Standard određuje zahtjeve, metode ispitivanja, pravila označavanja i informacije koje se trebaju dati korisniku i način pakovanja apsorbera energije.

(EN361)
Standard određuje zahtjeve, metode ispitivanja, pravila označavanja, informacije koje treba osigurati proizvođač i pakovanje sigurnosnog pojasa.

ZAŠTITA NOGU



Osiguranje odgovarajuće zaštite nogu i stopala ima presudan uticaj uglavnom na sigurnost na radu, ali i na udobnost korištenja. Zaštitna obuća namijenjena je zaštiti stopala od povreda, koje se mogu pojaviti tokom nesreća. Zaštitna obuća može štititi stopalo od mehaničkih i hemijskih sredstava i štetnog djelovanja toplote, hladnoće ili vlage. Zaštitna obuća najčešće istovremeno štiti od različitih vrsta opasnosti. Nivo zaštite zavisi uglavnom od dizajna obuće, upotrebljenih materijala i opreme, kao što su kapice, umeci protiv proboja, držači za gležnjeve itd. Obuća bez zaštitnih obilježja je namijenjena za rad samo zbog toga što je higijenska i ne smije se tretirati kao sigurnosna obuća, već samo kao profesionalna obuća.

POPIS STANDARDA

EN ISO 20345 – Lična zaštitna oprema – Sigurnosna obuća.
Standardom se utvrđuju osnovni i dodatni (opcijski) zahtjevi za sigurnosnu obuću, koja se koristi za opće namjene. To uključuje, na primjer, mehaničke rizike, otpornost na klizanje, toplotne rizike, ergonomsko ponašanje. Zaštitna obuća (SB, S1 – 4) ima zaštitne karakteristike zajedno sa zaštitom prstiju pomoću kapica, koje su testirane na udarce od 200 J.

EN ISO 20347 – Lična zaštitna oprema - Profesionalna obuća.
Standardom se utvrđuju osnovni i dodatni zahtjevi za profesionalnu obuću. Posebni rizici pokriveni su komplementarnim standardima vezanim za posao (npr. obuća za vatrogasce, elektro-izolacijska obuća). Radna obuća (OB, O1 – 5) – ima zaštitne karakteristike namijenjene zaštiti od povreda, koje se mogu pojaviti tokom nesreće na radu. Namijenjena je za svakodnevnu upotrebu na mjestima gdje nije potrebna zaštita nožnih prstiju.

DIZAJN OBUĆE



OBILJEŽAVANJE OBUĆE



KATEGORIJE SIGURNOSTI OBUĆE – OSNOVNI ZAHTJEVI

Kategorije sigurnosne obuće (EN ISO 20345)

Kategorija zaštite	Kapica štiti prste od udarca od 200 J	Otpornost na dizelsko ulje	Apsorpcija energije na peti	Antistatička svojstva	Zaštita pete	Otpornost na probijanje do 1100 N	Ograničen prodor vode i apsorpcija	Klasa
SB	✓							I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			* II (obuća od pojedinačnog materijala)
S5*	✓	✓	✓	✓	✓	✓		* II (obuća od pojedinačnog materijala)

Kategorije profesionalne obuće (EN ISO 20347)

Kategorija zaštite	Kapica štiti prste od udarca od 200 J	Otpornost na dizelsko ulje	Apsorpcija energije na peti	Antistatička svojstva	Zaštita pete	Otpornost na probijanje do 1100 N	Ograničen prodor vode i apsorpcija	Klasa
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			* II (obuća od pojedinačnog materijala)
O5*	x	x	✓	✓	✓	✓		* II (obuća od pojedinačnog materijala)

KATEGORIJE SIGURNOSTI OBUĆE – DODATNI ZAHTJEVI

Simbol	Dodatni zahtjevi
P	Otpornost na probijanje sile do 1100 N
A	Antistatička svojstva
C	Svojstva koja provode struju
I	Električna izolacijska svojstva
HI	Izolacija dna od toplote
CI	Izolacija dna od hladnoće
E	Apsorpcija energije na peti
WR	Ograničen prodor vode i apsorpcija cijele cipele
WRU	Ograničen prodor vode i apsorpcija vanjske površine cipele
HRO	Otpornost HRO-a na visoke temperature u kratkom kontaktu (do 300 oC) 5oC / 1 min} 1 s)
CR	CR Otpornost na rezanje
M	Zaštita gazišta stopala
AN	Zaštita pete
FO	Otpornost vanjskog đona na dizelsko ulje
SRA	Otpornost na klizanje na keramičkoj površini pokrivenoj natrij-lauril-sulfatom (SLS)
SRB	Otpornost na klizanje na čeličnoj površini prekrivenoj glicerolom
SRC	Otpornost na klizanje na obje površine



KAZALO/KAZALO

Kazalo produktov/
Kazalo produktov



00001-00015 ... 150
079003 ... 216
079007 ... 216
079011 ... 216
07901, 07902 ... 216
079015, 079016 ... 216
079020 ... 216
07905 ... 216
07908 ... 216
10008 ... 103
10016 ... 103
10022 ... 102
10028 ... 103
10080, 10081 ... 104
10083, 10084 ... 104
10086-10088 ... 104
10092, 10093 ... 104
10100 ... 104
10103, 10104 ... 104
10106 ... 104
10108, 10109 ... 104
10112 ... 104
10114-10117 ... 106
10144-10148 ... 106
10150-10156 ... 104
10158 ... 104
10161-10165 ... 104
10167-10168 ... 104
10171-10176 ... 104
10182-10185 ... 104
10190-10196 ... 104
10207, 10208 ... 104
10211 ... 104
10225, 10226 ... 106
10228 ... 101
10229 ... 106
10510 ... 106
10511 ... 106
10513-10518 ... 106
10542-10544 ... 106
10573-10579 ... 106
10592-10597 ... 106
10601 ... 99
10602 ... 99
10603-10606 ... 96
10607-10609 ... 103
10610, 10611 ... 97
10614-10616 ... 96
10618 ... 96
10620-10623 ... 96
10626-10628 ... 96
10630-10633 ... 96
10636-10638 ... 96
10641-10643 ... 96
10644-10649 ... 97
10652-10662 ... 96
10663-10668 ... 97
10669-10671 ... 97
10672-10682 ... 96
10690-10694 ... 99
10697 ... 103
10699, 10700 ... 103
10701, 10702 ... 101
10703-10705 ... 102
10708-10710 ... 99
10712, 10713 ... 99
10741 ... 100
10743 ... 100
10744 ... 101
10745, 10746 ... 100
10747, 10748 ... 101
10749, 10751-10753 ... 100
10800-10821 ... 98
10822, 10823 ... 97
10824-10831 ... 98
10832-10839 ... 98
10840-10846 ... 98
10847-10854 ... 98
10855-10862 ... 98
10863-10869 ... 98
10870-10873 ... 97
10874-10877 ... 97
10878-10880 ... 97
10881-10883 ... 97
10900 ... 99
10901-10906 ... 105
10915-10919 ... 105
10925-10929 ... 105
10937 ... 105
11215 ... 163
11230-11232 ... 163
11251 ... 163
11281-11284 ... 163
11420 ... 163
11430 ... 163
11440 ... 163
11450 ... 163
11460 ... 163
11515 ... 163
11525 ... 163
11530 ... 163
11531 ... 163
11550 ... 163
11580-11583 ... 163
12021-12026 ... 146
12220 ... 145
12371, 12372 ... 166
12373 ... 167
12374-12378 ... 166
12379 ... 167
12391 ... 167
12395-12398 ... 210
12502-12505 ... 145
12508 ... 145
12510 ... 145
12511-12515 ... 145
12518 ... 145
12520-12522 ... 145
12523, 12524 ... 146
12526, 12527 ... 146
12546, 12547 ... 145
12561 ... 146
12565 ... 146
12572 ... 146
12581-12583 ... 145
12585 ... 145
12587, 12588 ... 145
12590-12592 ... 145
12601-12605 ... 145
12608 ... 145
12610 ... 145
12611-12613 ... 147
12615 ... 145
12620 ... 145
12621-12625 ... 147
12631-12635 ... 147
12670 ... 147
12706 ... 168
12708 ... 168
12710 ... 168
12712 ... 168
12716 ... 168
12726 ... 167
12728 ... 167
12731, 12732 ... 167
12734 ... 167
12736 ... 167
12741, 12742 ... 167
12803 ... 168
12806 ... 168
12808 ... 168
12810 ... 168
12812 ... 168
12816 ... 168
12820, 12821 ... 168
12825 ... 168
12836 ... 167
12840 ... 167
12843 ... 167
12846 ... 167
12854 ... 167
12866 ... 168
12868 ... 168
12870 ... 168
12872 ... 168
12876 ... 168
13010-13013 ... 138
14006-14008 ... 184
14010-14012 ... 184
14311, 14312 ... 210
14313-14316 ... 210
14371-14373 ... 166
15054 ... 141
15056 ... 141
15058 ... 141
15060 ... 141
15062 ... 141
15065 ... 141
15070 ... 141
15076 ... 141
15078 ... 141
15080 ... 141
15082 ... 141
15085 ... 141
15090 ... 141
15166 ... 138
15170 ... 142
15173, 15174 ... 144
15175 ... 143
15186, 15187 ... 143
15194 ... 140
15234 ... 140
15236 ... 140
15238 ... 140
15240 ... 140
15242 ... 140
15245 ... 140
15300 ... 142
15396 ... 142
15398 ... 142
15410 ... 141
15412 ... 141
15415 ... 141
15418 ... 141
15420 ... 141
15424 ... 141
15430 ... 141
15520 ... 141
15525 ... 141
15530 ... 141
15540 ... 141
15615 ... 141
15620 ... 141
15625 ... 141
15630 ... 141
15640 ... 141
15720 ... 141
15721 ... 141
15725 ... 141
15726 ... 141
15730 ... 141
15731 ... 141
15804 ... 139
15806 ... 139
15808 ... 139
15810 ... 139
15812 ... 139
15815 ... 139
15820 ... 139
15821-15831 ... 140
15922-15929 ... 139
15932-15939 ... 139
15940 ... 141
17200-17202 ... 119
17210 ... 119
17211 ... 118
17212, 17213 ... 119
17214 ... 118
17215-17217 ... 119
17370, 17371 ... 172
17375-17377 ... 172
17381-17383 ... 172
17384-17387 ... 172
17391-17393 ... 173
17414 ... 172
17418 ... 172
17424 ... 172
17430 ... 172
17436 ... 172
17442 ... 172
18003, 18004 ... 161
18007- 18010 ... 161
18013, 18014 ... 162
18015, 18016 ... 161
18017 ... 162
18104-18113 ... 47
18104P, 18105P ... 47
18121-18124 ... 53
18125 ... 53
18126-18129 ... 53
18150-18155 ... 48
18160 ... 53
18161 ... 53
18162 ... 53
18163 ... 47
18164 ... 52
18165-18167 ... 47
18169 ... 47
18171 ... 53
18172 ... 51
18175 ... 52
18176 ... 47
18178 ... 52
18179 ... 47
18180 ... 52
18182-18186 ... 47
18187, 18188 ... 118
18191-18195 ... 51
18196 ... 52
18199 ... 50
18306-18308 ... 47
18310 ... 47
18312-18317 ... 47
18319-18322 ... 47
18324 ... 47
18341-18344 ... 53
18345 ... 53
18346-8349 ... 53
18350 ... 53
18352 ... 53
18354 ... 52
18355-18359 ... 48
18360-18365 ... 47
18367 ... 47
18368 ... 53
18369 ... 47
18372 ... 51
18375 ... 52
18378 ... 52
18382-18386 ... 47
18391-18394 ... 51
18396 ... 52
18399 ... 50
18400-18409 ... 55
18410-18430 ... 54
18431 ... 55
18432 ... 54
18433-18439 ... 55
18440-18460 ... 54
18461 ... 55
18462 ... 54
18463-18470 ... 55
18471-18473 ... 55
18474-18476 ... 55
18477 ... 55
18478 ... 55
18479-18480 ... 55
18481, 18482 ... 55
18484 ... 55
18485-18488 ... 55
18489 ... 55
18490 ... 56
18491 ... 55
18492, 18493 ... 55
18494, 18495 ... 56
18496, 18497 ... 55
18500-18507 ... 48
18508-18525 ... 47
18526 ... 48
18527-18530 ... 47
18531 ... 48
18532 ... 47
18533-18541 ... 48
18542-18545 ... 48
18546, 18547 ... 48
18548, 18549 ... 48
18550 ... 48
18551-18553 ... 53
18554 ... 48
18555 ... 53
18556 ... 53
18557 ... 48
18559-18567 ... 48
18568 ... 53
18569-18571 ... 48
18572 ... 51
18575 ... 48
18576 ... 52
18578 ... 52
18579 ... 52
18580 ... 52
18581 ... 52
18582 ... 53
18583 ... 48
18584-18586 ... 52
18587-18595 ... 48
18599 ... 50
18608, 18609 ... 48
18610-18622 ... 47
18623 ... 48
18624 ... 47
18625, 18626 ... 48
18627 ... 47
18628, 18629 ... 48
18630 ... 47
18631 ... 48
18632 ... 47
18633-18643 ... 48
18644-18648 ... 49
18649-8652 ... 49
18653-18656 ... 50
18657-18665 ... 49
18666-18668 ... 50
18669 ... 49
18671-18674 ... 53
18691-18695 ... 51
18696 ... 52
18711 ... 46
18712 ... 46
18719 ... 41
18804 ... 46
18811 ... 46
18819 ... 47
18821, 18822 ... 47
18824 ... 47
18826, 18827 ... 47
18830 ... 47
18832 ... 47
18835, 18836 ... 47
18838 ... 47
18841 ... 47
18846 ... 47
18850 ... 47
18858 ... 53
18860 ... 52
18863 ... 53
18864 ... 52
18865 ... 52
18867, 18868 ... 53
18871, 18872 ... 53
18874 ... 53
18901-18904 ... 55
18906 ... 55
18907 ... 55
18908, 18909 ... 56
18919 ... 54
18921-18930 ... 54
18932-18936 ... 54
18938 ... 54
18941-18943 ... 54
18946 ... 54
18948 ... 54
18950 ... 54
18952 ... 54
18955 ... 54
18960 ... 54
18969 ... 54
18971-18980 ... 54
18982-18986 ... 54
18988 ... 54
18991-18993 ... 54
18996 ... 54
18998, 18999 ... 54
19106 ... 175
19108 ... 175
19110 ... 175
19112 ... 175
19114 ... 175
19116 ... 175
19118 ... 175
19120 ... 175
19122 ... 175
19125 ... 175
19132 ... 175
19138 ... 175
19142 ... 175
20123 ... 137
20125 ... 137
20128 ... 137
20132, 20133 ... 137
20132K, 20133K ... 137
20133K ... 137
20135 ... 137
20135K ... 137
20137 ... 137
20137K ... 137
20142, 20143 ... 137
20142K, 20143K ... 137
20145 ... 137
20145K ... 137
20147 ... 137
20147K ... 137
20283 ... 136
20285 ... 136
20288 ... 136
20293 ... 137
20295 ... 137
20298 ... 137
20301-20303 ... 137
20305 ... 137
20323 ... 137
20325 ... 137
20329 ... 137
20351-20353 ... 137
20363 ... 137
20365 ... 137
20368 ... 137
20515, 20516 ... 138
20518 ... 138
21210 ... 139
21220 ... 139
21230 ... 138
21330 ... 138
21335 ... 138
21350 ... 138
23120, 23121 ... 165
23123 ... 165
24261 ... 178
24271 ... 178
24281 ... 178
24291 ... 178
24750-24753 ... 84
24840 ... 178
24850 ... 178
24860 ... 178

24940 178
24950 178
24960 178
25507 173
25510 173
25512 173
25515 173
25610 173
25612 173
25615 173
26273-26280 236
26282 236
26295 236
26298 236
26400 237
26606 236
26608 236
26610 236
26612-26614 236
26616 236
26618 236
26620 236
26622 236
26624-26626 236
26628 236
26630 236
26632 236
26634-26636 236
26638 236
26640 236
26645 236
26691 236
26693 236
26806 236
26808 236
26810 236
26812 236
26814 236
26816 236
26818 236
26820 236
26822 236
26824-26826 236
26828 236
26830 236
26835 236
26840 236
26910 236
26912 236
26914 236
26916 236
26918 236
26920 236
26922 236
26924 236
26925 236
26926 236
26928 236
26930 236
26935 236
26940 236
27023, 27024 268
27026 268
27034 268
27035-27038 268
27100, 27101 237
27114 237
27116 237
27119, 27120 237
27122 237
27124 237
27125 237
27127 237
27129, 27130 237
27132 237
27135 237
27138 237
27140 237
27144 237
27146 237
27148 237
27151 237
27154 237
27157 237
27160 237
27164 237
27167, 27168 237
27170 237
27173 237
27183 237
27192 237
27195 237
27200 238
27206 238
27208 238
27210 238
27212 238
27215 238
27220 238
27222 238
27225 238
27230 238
27235 238
27240 238
27251 238
27260 238
27268 238
28102 237
28105 237
28121 237
28127 237
28140 237
28214, 28215 116
28217 115
28219 116
28220 115
28222 116
28226 116
28227 115
28240 116
28245 116
28250-28253 192
28310-28314 112
28316 111
28321 111
28334 111
28360 111
28370 111
28380-28382 116
28390 116
28404 114
28408 114
28412 114
28416 114
28470-28472 107
28473 107
28475 107
28477 108
28479 108
28480, 28481 107
28486 108
28489, 28490 114
28492, 28493 114
28510 111
28512 111
28513 108
28515 108
28516 108
28518 108
28521-28523 108
28526 108
28528 108
28556 111
28568 111
28580, 28581 116
28610 113
28615 113
28617 113
28619 113
28620 113
28625 113
28627 113
28629 113
28630 113
28635 113
28637 113
28639 113
28640 113
28645 113
28647 113
28649 113
28700-28702 109
28703-28709 107
28710-28712 109
28713-28716 107
28720-28722 109
28730-28736 110
28745 111
28750-28752 108
28760 108
28770-28773 109
28780-28787 110
28790-28796 110
28797 111
28798 110
29008 117
29010 117
29012 117
29014 117
29018 117
29019 70
29020, 29021 69
29022 70
29023 69
29024 117
29036 117
29080 73
29095-29098 73
29116 70
29121 70
29306 115
29308 115
29310 115
29312 115
29315 115
29318 115
29319-29322 115
29324 115
29326 115
29328 115
29330 115
29332 115
29701 117
29705, 29706 117
29710-29712 117
29720-29722 117
30028, 30029 133
30030 134
30033 134
30038, 30039 134
30040 134
30050 135
30060 135
30078 133
30079 134
30082 134
30084 134
30090 134
30092-30096 134
30300, 30301 133
30305 133
30307 133
30310, 30311 133
30315 133
31003-31006 135
31031 149
31041 149
31051 149
31061 149
31081 149
31101 149
31121 149
31160 170
31163 170
31170-31177 149
31180-31187 149
31302-31305 135
31307 135
31325 169
31330 169
31339, 31340 169
31350 169
31352 170
31353 169
31354 170
31355 169
31356 170
31358 169
31360-31363 169
31364-31368 169
31370 169
31372-31374 169
31380 103
31381 237
31382 170
31383 173
31384 102
31385 170
31392 170
31393 237
31394 103
31395 99
31396, 31397 237
31398 236
31400 134
31601, 31602 175
31611, 31612 175
31621, 31622 175
32015 175
32020, 32021 170
32134-32136 174
32202, 32203 170
32234-32236 174
32244-32246 174
32255 174
32265 174
32354-32356 174
32364-32366 174
32406 247
32408 247
32410 247
32426 247
32428 247
32430 247
32432 247
32447 247
32452 247
32457 247
32507 248
32510 248
32520, 32521 248
32530 248
32532 248
32542 248
32545 248
32549 248
32550-32552 248
32555 248
32558 248
32576 248
32578 248
32580 248
32603 176
32613-32615 176
32623-32625 176
32633-32635 176
32643-32645 176
32805 248
32807 248
32810 248
32812 248
32815 248
32827 248
32830 248
32845 247
32847 247
32861, 32862 247
32907 248
32910 248
32915 247
32917 247
32922 174
32924 247
32932 174
32942 174
32962 174
33105, 33106 36
33107 35
33113 31
33114 30
33115 32
33116, 33117 33
33119 29
33127 34
33128 27
33129 26
33130 25
33131 28
33204 36
33205 36
33403 196
33405 196
33553 196
33555 196
34006 59
34008-34010 59
34012-34014 59
34016 59
34018-34022 59
34024, 34025 59
34027 59
34030 59
34036 59
34038 59
34054-34067 60
34306 66
34308-34310 66
34312-34314 66
34316-34322 66
34324-34325 66
34327 66
34330 66
34406 67
34408 67
34412 67
35306 66
35308 66
35312 66
35324 66
35340 67
35348-35359 67
35378 58
35380-35387 58
35389 58
35406-35424 66
35427 66
35430 66
35432 66
35448-35459 57
35468-35479 57
35487 57
35497 57
35606-35630 59
35632 59
35634 59
35636 59
35638 59
35641 59
35646 59
35650 59
35662 59
35664 59
35688-35699 58
35700, 35701 196
35702-35704 196
35706 196
35710 196
35716 195
35718 195
35722 195
35725 195
35726-35729 196
35737-35740 195
35741 196
35743, 35744 196
35748 195
35752 195
35755 195
36006 60
36008 60
36010 60
36012 60
36014 60
36016 60
36018 60
36020, 36021 60
36024, 36025 60
36030 60
36046 61
36048-36050 61
36052, 36053 61
36055 61
36059 61
36062 61
36068 61
36070, 36071 61
36073, 36074 61
36079 61
36090 62
36093 62
36097 62
36099 62
36105 63
36106-36110 63
36116 63
36120 63
36124 63
36128 63
36132 63
36136 62
36138 62
36140 62
36142 62
36144 62
36146-36148 62
36150, 36151 62
36154 62
36160 62
36166 62
36168 64
36170 64
36172-36175 64
36177 64
36179 64
36182 64
36184 64
36187 64
36190 64
36192 64
36215 64
36216 64
36218 64
36220 64
36222 64
36224 64
36226 64
36228 64
36230 64
36234 64
36237 64
36240 64
36408 68
36410 68
36412, 36413 68
36415 68

36417 68
36419 68
36428 68
36430 68
36432 68
36434 68
36436, 36437 68
36439 68
36445 68
36455 68
36506 67
36508 67
36512 67
36566 67
36568 67
36570 67
36572 67
36574 67
36576 67
36578 67
36580, 36581 67
36584, 36585 67
36590 67
36606 60
36608 60
36610 60
36612 60
36614 60
36616 60
36618 60
36620, 36621 60
36624, 36625 60
36630 60
36650 58
36680 62
36686 62
36690 62
36694, 36695 62
36722 68
36800-36804 64
36805-36809 64
36810 65
36811-36813 58
36922 65
36924 65
36927 65
36930 65
36932 65
36936 65
36938 65
36941 65
36946 65
36950 65
36955 65
36960 65
36965 65
38000 171
38003 170
38020-38023 171
38031, 38032 171
38033 171
38039 171
38041 171
38043 171
38049 171
38102 171
38112 171
38144 171
38202 171
38212 171
38244 171
40008 211
40011-40013 211
40015-40019 211
40024 212
40025 213
40026-40028 212
40030 213
40031 212
40032-40034 211
40035 212
40036, 40037 213
40039 214
40040 212
40042 213
40045 213
40050 213
40052 214
40054 214
40060-40062 214
40065, 40066 214
40068 214
40070-40073 214
40080-40082 214
41003, 41004 150
41011, 41012 150
41014, 41015 150
41022-41025 150
41100-41104 155
41106-41117 155
41131-41138 159
41140, 41141 158
41142, 41143 155
41144, 41145 158
41146, 41147 156
41148, 41149 158
41150, 41151 155
41152, 41153 158
41154, 41155 155
41155, 41156 158
41158, 41159 155
41160-41162 157
41163-41165 159
41166-41179 159
41180 159
41202-41207 215
41216, 41217 215
41240, 41241 158
41242, 41243 156
41244 157
41245, 41246 158
41247 157
41248 156
41249 158
41250, 41251 158
41252 157
41253 156
41254 157
41256, 41257 158
41257, 41258 156
41259 157
41260, 41261 158
41262 157
41263 156
41264 158
41265, 41266 158
41267 157
41268 156
41269 157
42005-42008 170
42231-42234 178
42304 178
42500 73
42506, 42507 73
42901-42905 188
42911, 42912 188
42915-42917 188
42940-42942 192
44011-44014 265
44018 265
44023 265
44030 265
44035 265
44040 265
44110-44113 265
44118 265
44123 265
44211, 44212 265
44223 265
44411, 44412 265
44418 265
44423 265
44511, 44512 265
44518 265
44523 265
44611, 44612 265
44623 265
44801-44804 266
44811-44814 266
44821-44825 266
44831-44835 266
44841-44845 266
44850-44861 266
44870-44877 266
46002 338
46006, 46007 351
46008 352
46017 343
46018 342
46023 342
46028 343
46032 338
46033 341
46035 341
46037-46039 340
46051 341
46055, 46056 352
46058 352
46063 352
46188-46192 330
46194-46197 330
46411 216
46423 216
46435 216
46445, 46446 216
46458 216
46461 216
46481 216
46710 84
46713 84
46715 84
46750-46752 199
46760-46762 199
46770-46773 199
46802, 46803 82
46805 82
46808 82
46810 82
46812 82
46815 82
46820 82
46830-46833 85
46841, 46842 69
46843-6846 72
46847 73
46848 81
46849 79
46850 75
46851 76
46852 81
46853 80
46854 79
46858-46860 79
46861, 46862 71
46863-46865 78
46866-46869 77
46870, 46871 78
46874 76
46875 80
46876-46878 78
46879 76
46880, 46881 80
46882-46885 75
46886 76
46887 75
46888 79
46889 80
46892 77
46893 76
46894 76
46895 78
46897-46899 81
46911-46915 83
46921-46923 82
46926 82
46928, 46929 83
46936-46938 84
46940, 46941 84
46969 75
46971-46975 74
46979 74
46981, 46982 75
48309 91
48310 92
48319 91
48320 92
48329 91
48330 92
48339 91
48340 92
48367, 48368 91
48378 91
48388 91
48402-48410 89
48402P 89
48412 89
48414 89
48417 89
48419 89
48441-48450 89
48442P 89
48452 89
48454 89
48457 89
48459 89
48460-48473 89
48474-48483 89
48484- 48496 89
48497-48519 90
48520- 48526 89
48527-48533 89
48534-48546 89
48547-48559 89
48565- 48574 89
48578-48597 90
48794 43
49020-49034 268
49040-49046 268
49050-49056 268
49060-49065 266
49070-49075 266
49080-49085 266
49090-49098 267
49100-49117 267
49120-49127 267
49130-49138 266
49140-49148 267
49150-49154 267
49160-49166 267
51019 87
51029, 51030 88
51031, 51032 88
51034-51037 87
52012 199
52016 199
52020 199
52040-52042 199
52061-52064 198
52066-52068 198
52070 198
52300 399
52301, 52302 399
52306 398
52308-52311 398
55024 180
55028 180
55034 181
55036-55038 180
55040 181
55042 181
55050 181
55306 182
55308 182
55310 182
55312 182
55314 182
55330 182
55332 182
55340 183
55342 183
55344 183
55406 182
55408 182
55410 182
55412 182
55414 182
55426 182
55428 182
55440 183
55442 183
55506 183
55508 183
55510 183
55512 183
55514 183
55516 183
55616 183
55619 183
55622 183
55625 183
55628 183
55632 183
55638 183
55640 183
55715 183
55720 183
55725 183
55730 183
55735 183
55740 183
55745 183
55750 183
58120-58125 49
58126-58134 49
58135 - 58137 49
58138-58140 49
58217 45
58300- 58310 49
58500 49
58501, 58502 49
58503-585511 49
58512-58518 49
58519-58523 49
58524-58529 50
58530-58532 50
58533-58542 49
58543- 58548 50
58549-58554 50
58701 40
58702 40
58703 39
58711 38
58713, 58714 37
58717 46
58718 40
58722 40
58723, 58724 38
58725 42
58728, 58729 40
58730, 58731 39
58733 39
58736, 58737 39
58743 41
58761 40
58763 40
58765 39
58779, 58780 38
58781-58784 37
58787 39
58793 40
58794 43
58795 38
58797 40
588150 44
58825 42
58843 41
58856 42
59110B 193
59110C 193
59120B, 59121B 193
59120C, 59121C 193
59130B, 59131B 193
59130C, 59131C 193
59140B 193
59140C 193
59711-59717 184
60034 187
60037 187
60040-60042 185
60045-60048 185
60050-60053 186
60320-60323 187
60324 187
60325-60331 187
60332 187
61320-61337 160
61344, 61345 160
61510 148
61511-61515 148
61520 148
61521-61525 148
61530 148
61531-61535 148
61536-61539 148
61552, 61553 149
61562-61567 149
61571-61573 149
61575-61577 149
61579 149
61581-61583 148
61589 149
61640 148
61644 148
61646 148
61648, 61649 148
61661-61666 160
61804 149
61806 149
61808 149
61810 149
61812 149
61815 149
61818 149
61822 149
61824 149
61832 149
61840 149
62100 198
62138 197
62141 197
62142 198
62146 197
62149-62151 197
62161 197
64053 165
64061 165
64076 165
64105-64107 165
64132 165
64340 164
64345 164
64350 164
64360 164
64365 164
64370 164
64390-64392 164
64400 164
64405 164
64420 164
64426 214
64430 214
64433 165
64440 164
64445 164
64450 164

64460 164
64465 164
64470 164
64560 164
64570 164
64740 164
64745 164
64750 164
64840 164
64845 164
64850 164
66040-66043 193
66045-66048 193
66158 87
66181-66188 86
66300-66309 130
66310-66319 131
66320-66322 130
66330-66332 131
66343 126
66344, 66345 127
66346-66348 126
66349 125
66350-66358 128
66361, 66362 127
66370, 66371, 66372 125
66381-66383 128
66384-66387 129
66391, 66392 181
66471, 66472 124
66510 71
66511 193
66514 193
66517 193
66519 193
66522 193
66524, 66525 193
66700-66702 71
66800-66805 71
66812-66814 71
66900-66903 193
66910-66912 193
66920-66922 193
67023-67026 177
67028 177
67030 177
67032 177
67043-67046 177
67048-67052 177
67095-67099 177
67123-67126 177
67128-67132 177
67198 177
67201, 67202 119
67206, 67207 119
67208-67212 118
67215 117
67221 177
67232 177
67240 117
67241-67244 117
70411 231
70416 231
70511 231
70516 231
70611 231
70616 231
70621 231
70626 231
70811 231
70816 231
70821 231
70826 231
70830 231
70835 231
70840 231
70845 231
71011 231
71016 231
71021 231
71026 231
71030 231
71035 231
71040 231
71045 231
71060 231
71080 231
71216 231
71221 231
71226 231
71230 231
71235 231
71240 231
71245 231
71260 231
71316 231
71326 231
71416 231
71421 231
71426 231
71430 231
71440 231
71445 231
71460 231
71616 231
71621 231
71626 231
71630 231
71634 232
71635 231
71640 231
71645 231
71654 232
71660 231
71680 231
71692 232
71821 231
71826 231
71834 232
71835 231
71840 231
71845 231
71854 232
71860 231
71892 232
72021 231
72026 231
72030 231
72040 231
72045 231
72060 231
72080 231
72232 232
72252 232
72272 232
72292 232
72432 232
72452 232
72532 232
72552 232
72572 232
72592 232
72652 232
72837 232
72857 232
72867 232
72892 232
73037 232
73057 232
73072 232
73092 232
73103-73110 230
73112 230
73206 230
73208 230
73210 230
73212 230
73214 230
73216 230
73237 232
73257 232
73272 232
73292 232
73306 230
73308 230
73310 230
73312 230
73408 230
73410 230
73412 230
73414 230
73416 230
73537 232
73557 232
73567 232
73572 232
73592 232
73608 230
73610 230
73612 230
73614 230
73703 230
73705 230
73708 230
74037 232
74057 232
74072 232
74092 232
75340 151
75350 151
75360 151
75540 151
75550 151
75560 151
75725 151
75850 151
75860 151
75870 151
75880 151
75900 151
76003-76016 222
76018-76100 222
76102 222
76105 222
76110 222
76115 222
76120 222
76125 222
76130 222
76135 222
76135P 222
76140 222
76140P 222
76145 222
76145P 222
76150 222
76150P 222
76155 222
76155P 222
76160 222
76160P 222
76165 222
76165P 222
76170 222
76170P 222
76175 222
76175P 222
76180 222
76180P 222
76185 222
76185P 222
76190 222
76190P 222
76195 222
76195P 222
76200 222
76200P 222
76213, 76214 222
76219 222
76225 222
76410 226
76412 226
76414 226
76416 226
76418 226
76420 226
76610 226
76612 226
76614 226
76616 226
76618 226
76620 226
77005 223
77008 223
77010-77013 223
77015, 77016 223
77018-77100 223
77102 223
77105 223
77110 223
77115 223
77120 223
77125 223
77130 223
77135 223
77140 223
77145 223
77150 223
77155 223
77160 223
77165 223
77170 223
77175 223
77180 223
77185 223
77190 223
77195 223
77200 223
77213, 77214 223
77219 223
77225 223
77408 225
77410 225
77412 225
77415 225
77420-77422 225
77425 225
77430-77432 225
77435 225
77438 225
77440-77442 225
77445 225
77448 225
77450-77452 225
77455 225
77460-77462 225
77465 225
77470 225
77475 225
77480 225
77482 225
77485 225
77490 225
77495 225
77500 225
77502 225
77505 225
77511, 77512 225
77514-77518 225
77520 225
77810 224
77815 224
77820 224
77825 224
77830 224
77832 224
77835 224
77840 224
77842 224
77845 224
77848 224
77850 224
77852 224
77855 224
77860 224
77865 224
77870 224
77875 224
77880 224
77885 224
77890 224
77895 224
77900 224
77905 224
77910 224
77915 224
77920 224
77925 224
77930 224
77990 224
78005 224
78008 224
78010 224
78015 224
78020 224
78022 224
78025 224
78030-78032 224
78035 224
78038 224
78040-78042 224
78045 224
78048 224
78050-78052 224
78055 224
78060-78062 224
78065 224
78070 224
78075 224
78080-78082 224
78085 224
78090 224
78095 224
78100 224
78102 224
78105 224
78110 224
78115 224
78120 224
78125 224
78130 224
78140 224
78150 224
78160 224
78180 224
78200 224
78219 224
78225 224
78410 225
78415 225
78420 225
78425 225
78430-78433 225
78435 225
78440-78443 225
78445 225
78448 225
78450-78453 225
78455 225
78457-78463 225
78465 225
78467 225
78475 225
78480 225
78485 225
78490 225
78495 225
78500 225
78502 225
78511-78513 225
78516 225
78518 225
78630-78633 225
78635 225
78640-78642 225
78645 225
78650-78652 225
81710-81719 232
81720 232
81722 232
81724 232
81731-81733 232
81903-81906 236
81908 236
81910 236
84132, 84133 261
84141, 84142 261
84152 261
84161-84165 261
84182-84184 261
84186 261
84202 261
84204 261
84206-84208 261
84212 261
84214 261
84216 261
84252 261
84254 261
84256 261
84304 261
84306 261
84308, 84309 261
84314 261
84354, 84355 261
84358 261
84404 261
84406 261
84408 261
84456 261
84459 261
84506 261
84509 261
84720-84722 261
84725 261
84818 261
84820 261
84825 261
84831 261
84835 261
86011, 86012 261
86023 261
86101-86104 255
87101-87104 255
88101-88104 255
88111-88114 255
88715 255
88725 255
88730 255
88733 255
89015 255
89025 255
89028 255
89033 255
89115 256
89125 256
89180 256
89230 256
89300 256
89350 256
89360 256
89365 256
89370 256
89375 256
89380 256
89385 256
89415 256
89425 256
89428 256
89431 256
89435 256
89438 256
89441 257
89445 257
89448 257

89507 238
89510 238
89568, 89569 238
89582, 89583 238
89590 238
90003 231
90005, 90006 231
90411 231
90416 231
90511 231
90516 231
90611 231
90616 231
90621 231
90626 231
90811 231
90816 231
90821 231
90826 231
90830 231
90835 231
90840 231
90845 231
91011 231
91016 231
91021 231
91026 231
91030 231
91035 231
91040 231
91045 231
91060 231
91080 231
91216 231
91221 231
91226 231
91230 231
91235 231
91240 231
91245 231
91260 231
91316 231
91326 231
91416 231
91421 231
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91430 231
91440 231
91445 231
91460 231
91616 231
91621 231
91626 231
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91835 231
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92021 231
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92080 231
92221 231
92226 231
92230 231
92240 231
92245 231
92260 231
92280 231
92426 231
92440 231
92460 231
92480 231
92530 231
92545 231
92560 231
92626 231
92640 231
92660 231
92840 231
92860 231
92880 231
93101-93106 243
93101KR 243
93101L 243
93103L 243
93108, 93109 243
93110 238
93111 243
93111F 243
93121, 93122 139
93123-93125 239
93126 238
93150F 243
93171 237
93401-93406 243
93401KR 243
93408, 93409 243
93411 243
93411F 243
93450F 243
98111-98116 217
98121-98126 217
98131-98136 217
98144-98146 217
98154-98156 217
98214-98216 217
98224-98226 217
98234-98236 217
98244-98246 217
98254-98256 217
99001 201
99200, 99201 203
99202, 99203 203
99204, 99205 203
99206, 99207 203
99208-99219 203
99220-99223 204
99230-99233 204
99241 204
99243 204
99245 204
99300, 99301 204
99302-99305 205
99307 205
99309 205
99311 205
99313 205
99315 205
99317 205
99325 208
99327 208
99329 208
99331 206
99333 206
99334, 99335 206
99351 206
99353 206
99355 207
99357 207
99359 207
99361 207
99365 207
99367 208
99369 207
99371 208
99373 208
99375 208
99377 208
99381 208
99383 207
99385 207
99387 207
99391-99394 202
99412, 99413 201
99415 201
99415 201
99422 201
99423 201
99425 201
99425 201
99432, 99433 201
99435 201
99435 201
99442, 99443 201
99445 201
99445 201
99500 203
99502 203
99504 203
99506 203
99508 203
99510 203
99512 203
99514 203
99516 203
99520 204
99522 204
99530 204
99532 204
99600 204
99602 205
99604 205
99612, 99613 201
99615 201
99615 201
99622, 99623 201
99625 201
99625 201
99632, 99633 201
99634 206
99635 201
99635 201
99642, 99643 201
99645 201
99645 201
99800 209
DKDD36-DKDD42 395
DKDP36-DKDP41 395
DKMB41-DKMB47 394
DKRMC40-DKRMC48 394
DPMMA42-DPMMA44 396
DPMMA46 396
DPRMC40-DPRMC48 396
DSRM40-DSRM48 396
DSRMW40-DSRMW47 396
DTRMA40-DTRMA48 396
DTRMBU40-DTRMBU48 397
DTRMC41 396
DTRMC45 396
DTRMF40-DTRMF48 397
DU001S-DU0013XL 329
DU012S-DU0123XL 330
K1415336-K1415346 395
K1512140-K1512146 395
K1516236-K1516242 395
K1536142-K1536148 394
K1546142-K1546148 395
L1010100 334
L1010200 334
L1010300 334
L1020100 332
L1020200 332
L1020300 332
L1020400 333
L1020500 333
L102060S 332
L1030100 335
L1030200 335
L1030300 335
L1030400 335
L1030600 335
L1030700 335
L1040101-L1040106 337
L1040201-L1040206 337
L1040402 336
L1040501-L1040506 336
L1200100 350
L1200200 350
L1200300 350
L1200400 350
L120050S 351
L1200600 350
L1200700 351
L120080S 351
L120090S 350
L120100S 351
L1500100 342
L1500200 341
L1500300 341
L1500400 341
L1500500 340
L1510100 343
L1510200 344
L1510300 344
L1510400 343
L1510500 343
L1520100 348
L1520200 348
L1520300 348
L1520400 347
L1520500 347
L1520600 348
L1520700 348
L1530100 344
L1530200 344
L1530300 344
L1530400 344
L1530500 344
L1530600 344
L1530700 345
L1540100 345
L1540200 345
L1540300 345
L1540400 346
L1540401 347
L1540500 346
L1540501 347
L1540600 346
L1540601 347
L1700100 338
L1700200 338
L171010B 338
L171010D 338
L171010K 338
L171020K 338
L1710300 338
L1714012-L1714017 285
L1811300 334
L1812300 334
L1813300 334
L1814300 334
L1815300 334
L1816300 334
L1915160 332
L1922100 332
L1934100 332
L1937100 332
L1938100 332
L200110K 375
L200209K-L200211K 372
L2011300 342
L210208W-L210211W 367
L210209K 367
L210308W-L210311W 367
L210309K 367
L210407W-L210410W 367
L210409K 367
L210507W-L210510W 367
L210509K 367
L210609W 368
L210910K 368
L210910W 368
L211008K-L211009K 368
L211109W-L211110W 367
L211207W-L211211W 367
L211209K-L211210K 367
L211308K-L211310K 368
L211410W 368
L211507K-L211509K 368
L220108W-L220110W 374
L220209W-L220210W 374
L220307W-L220311W 374
L220309K-L220310K 374
L220407K-L220409K 375
L220510K 374
L220510W 374
L220608K-L220611K 372
L220708W-L220711W 373
L220807B-L220810B 375
L220910W 374
L221008K-L221011K 373
L221108W-L221111W 373
L221207K-L221211K 372
L221307K-L221311K 372
L221407K-L221411K 373
L230107W-L230111W 376
L230109K-L230110K 376
L230207W-L230211W 376
L230209K-L230210K 376
L230307K-L230309K 376
L230407K-L230411K 375
L230507W-L230510W 376
L240109W-L240110W 376
L240110K 376
L240210W 376
L240310W 377
L240410W 377
L240507K-L240509K 377
L250108K-L250111K 370
L250208K-L250211K 370
L250308K-L250311K 370
L250408K-L250411K 371
L250508W-L250511W 371
L250509K-L250510K 371
L250610K 369
L250708K-L250711K 369
L250808W-L250810K 371
L250809K-L250810K 371
L250908K-L250911K 369
L251008K-L251011K 371
L251108K-L251111K 370
L251208K-L251211K 369
L270110K 364
L270208K-L270211K 361
L270311K 365
L270411K 365
L270510W 364
L270608K-L270611K 362
L270708K-L270711K 362
L270808K-L270811K 361
L270910K 363
L271008K-L271011K 363
L271108K-L271111K 363
L271210W 365
L271310W 364
L271407K-L271409K 360
L271508K-L271511K 360
L271608K-L271611K 362
L271708W-L271711W 363
L271808K-L271811K 361
L271910K 365
L280108K-L280111K 357
L280308K-L280311K 359
L280409K-L280411K 361
L280508K-L280511K 358
L280608K-L280611K 359
L280709K-L280711K 357
L280809K-L280811K 358
L280909K-L280911K 358
L281008K-L281011K 359
L281108K-L281111K 358
L281208K-L281211K 359
L290110K 366
L290210K-L290211K 366
L290308W-L290311W 366
L3010139-L3010147 391
L3010239-L3010247 387
L3010339-L3010347 387
L3010439-L3010447 387
L3010539-L3010547 389
L3010639-L3010647 390
L3010739-L3010747 387
L3010839-L3010847 388
L3010939-L3010947 390
L3011039-L3011047 388
L3011139-L3011147 388
L3011339-L3011347 389
L3011439-L3011447 388
L3011539-L3011547 386
L3011639-L3011647 391
L3011739-L3011747 386
L3011839-L3011847 386
L3030139-L3030147 392
L3030239-L3030247 392
L3030339-L3030347 393
L3040139-L3040147 384
L3040236-L3040247 381
L3040339-L3040347 381
L3040439-L3040447 383
L3040539-L3040547 383
L3040636-L3040642 382
L3040739-L3040747 382
L3040839-L3040847 382
L3040939-L3040947 381
L3041039-L3041047 382
L3041136-L3041142 383
L3041236-L3041242 385
L3041336-L3041342 385
L3041439-L3041447 383
L3041539-L3041547 381
L3060139-L3060147 380
L3060239-L3060247 380
L3060339-L3060347 379
L3060436-L3060442 379
L3060536-L3060542 380
L3060639-L3060647 379
L3070141-L3070147 394
L3070240-L3070247 394
L3080139-L3080147 393
L3080239-L3080247 393
L3080439-L3080447 393
L3090139 317
L3090143 317
L3090239 317
L3090243 317
L3090339 317
L3090343 317
L3090439 317
L3090443 317
L3090539 317
L3090543 317
L3090639 317
L3090643 317
L3090739 317
L3090743 317
L3090839 317
L3090843 317
L3100101 399
L3100201 399
L4010101-L4010106 301
L4010201-L4010206 301
L4010301-L4010306 302
L4010401-L4010406 298
L4010501-L4010506 300
L4010601-L4010606 302
L4010701-L4010706 298
L4010801-L4010806 298
L4010901-L4010906 324
L4011001-L4011006 324
L4011201-L4011206 298
L4011301-L4011306 299
L4011401-L4011406 299
L4011501-L4011506 299
L4011601-L4011606 300

L4011701-L4011706 ... 299
L4011801-L4011806 ... 301
L4020101-L4020106 ... 293
L4020201-L4020206 ... 293
L4020301-L4020306 ... 293
L4020401-L4020406 ... 293
L4020501-L4020506 ... 293
L4020601-L4020606 ... 293
L4020701-L4020706 ... 327
L4020801-L4020806 ... 327
L4021001-L4021006 ... 294
L4021101-L4021106 ... 294
L4021201-L4021206 ... 294
L4021301-L4021306 ... 294
L4021401-L4021406 ... 294
L4021501-L4021506 ... 294
L4021601-L4021606 ... 294
L4021701-L4021706 ... 293
L4021801-L4021806 ... 293
L4021901-L4021906 ... 293
L4022001-L4022006 ... 295
L4022101-L4022106 ... 295
L4022201-L4022206 ... 295
L4022301-L4022306 ... 295
L4022401-L4022406 ... 295
L4030101-L4030106 ... 327
L4030201-L4030206 ... 327
L4030301-L4030306 ... 292
L4030401-L4030406 ... 292
L4030501-L4030506 ... 292
L4030601-L4030606 ... 292
L4030701-L4030706 ... 292
L4030801-L4030806 ... 292
L4030901-L4030906 ... 292
L4031001-L4031006 ... 292
L4031101-L4031106 ... 292
L4031201-L4031206 ... 292
L4031301-L4031306 ... 292
L4040148 ... 281
L4040150 ... 281
L4040152 ... 281
L4040154 ... 281
L4040156 ... 281
L4040160 ... 281
L4040301-L4040306 ... 276
L4040448 ... 280
L4040450 ... 280
L4040452 ... 280
L4040454 ... 280
L4040456 ... 280
L4040460 ... 280
L4040548 ... 283
L4040550 ... 283
L4040552 ... 283
L4040554 ... 283
L4040556 ... 283
L4040560 ... 283
L4040601-L4040606 ... 277
L4040748 ... 282
L4040750 ... 282
L4040752 ... 282
L4040754 ... 282
L4040756 ... 282
L4040760 ... 282
L4040801-L4040806 ... 278
L4041001-L4041006 ... 272
L4041101-L4041106 ... 318
L4041201-L4041206 ... 318
L4050148 ... 281
L4050150 ... 281
L4050152 ... 281
L4050154 ... 281
L4050156 ... 281
L4050160 ... 281
L4050201-L4050206 ... 276
L4050348 ... 280
L4050350 ... 280
L4050352 ... 280
L4050354 ... 280
L4050356 ... 280
L4050360 ... 280
L4050448 ... 283
L4050450 ... 283
L4050452 ... 283
L4050454 ... 283
L4050456 ... 283
L4050460 ... 283
L4050501-L4050506 ... 277
L4050648 ... 282
L4050650 ... 282
L4050652 ... 282
L4050654 ... 282
L4050656 ... 282
L4050660 ... 282
L4050701-L4050706 ... 278
L4050901-L4050906 ... 273
L4051001-L4051003 ... 275
L4051101-L4051106 ... 319
L4051201-L4051206 ... 319
L4060148 ... 281
L4060150 ... 281
L4060152 ... 281
L4060154 ... 281
L4060156 ... 281
L4060160 ... 281
L4060201-L4060206 ... 276
L4060348 ... 280
L4060350 ... 280
L4060352 ... 280
L4060354 ... 280
L4060356 ... 280
L4060360 ... 280
L4060448 ... 283
L4060450 ... 283
L4060452 ... 283
L4060454 ... 283
L4060456 ... 283
L4060460 ... 283
L4060501-L4060506 ... 277
L4060648 ... 282
L4060650 ... 282
L4060652 ... 282
L4060654 ... 282
L4060656 ... 282
L4060660 ... 282
L4060701-L4060706 ... 278
L4060901-L4060906 ... 274
L4061001-L4061006 ... 319
L4061101-L4061106 ... 319
L4070101-L4070106 ... 328
L4070201-L4070206 ... 328
L4070301-L4070306 ... 286
L4070401-L4070406 ... 286
L4090101-L4090106 ... 305
L4090401-L4090406 ... 306
L4090501-L4090506 ... 306
L4090601-L4090606 ... 322
L4090701-L4090706 ... 322
L4090801-L4090806 ... 314
L4090901-L4090906 ... 321
L4091001-L4091006 ... 321
L4091101-L4091106 ... 320
L4091201-L4091206 ... 320
L4091301-L4091306 ... 326
L4091401-L4091406 ... 326
L4091501-L4091506 ... 314
L4091601-L4091606 ... 304
L4091701-L4091706 ... 307
L4091801-L4091806 ... 307
L4091901-L4091906 ... 325
L4092001-L4092006 ... 303
L4092101-L4092106 ... 306
L4092201-L4092206 ... 325
L4092301-L4092306 ... 303
L4092401-L4092406 ... 311
L4092501-L4092506 ... 323
L4092601-L4092606 ... 323
L4092701-L4092706 ... 315
L4100101-L4100106 ... 322
L4100201-L4100206 ... 322
L4100301-L4100306 ... 321
L4100401-L4100406 ... 321
L4100501-L4100506 ... 320
L4100601-L4100606 ... 320
L4100701-L4100706 ... 313
L4100801-L4100806 ... 326
L4100901-L4100906 ... 326
L4101001-L4101006 ... 307
L4101101-L4101106 ... 307
L4101201-L4101206 ... 311
L4110101-L4110106 ... 313
L4110201-L4110206 ... 323
L4110301-L4110306 ... 323
L4110401-L4110406 ... 321
L4110501-L4110506 ... 321
L4110601-L4110606 ... 320
L4110701-L4110706 ... 320
L4110801-L4110806 ... 312
L4110901-L4110906 ... 311
L4120101 ... 316
L4120103 ... 316
L4120105 ... 316
L4120201 ... 316
L4120203 ... 316
L4120205 ... 316
L4130101-L4130103 ... 328
L4130201-L4130203 ... 328
L4130501-L4130506 ... 327
L4130601-L4130606 ... 327
L4130701-L4130706 ... 309
L4130801-L4130806 ... 310
L4130901-L4130906 ... 310
L4131001-L4131006 ... 309
L4131101-L4131106 ... 309
L4131201-L4131206 ... 310
L4131301-L4131306 ... 324
L4131401-L4131406 ... 324
L4140101-L4140106 ... 307
L4140201-L4140206 ... 307
L4140311-L4140314 ... 290
L4140322-L4140325 ... 290
L4140333-L4140336 ... 290
L4140411-L4140414 ... 290
L4140422-L4140425 ... 290
L4140433-L4140436 ... 290
L4140511-L4140514 ... 289
L4140522-L4140525 ... 289
L4140533-L4140536 ... 289
L4140611-L4140614 ... 289
L4140622-L4140625 ... 289
L4140633-L4140636 ... 289
L4140711-L4140714 ... 291
L4140722-L4140725 ... 291
L4140733-L4140736 ... 291
L4140801-L4140806 ... 307
L4150148 ... 280
L4150150 ... 280
L4150152 ... 280
L4150154 ... 280
L4150156 ... 280
L4150160 ... 280
L4150202-L4150206 ... 329
L4160101-L4160106 ... 291
L4170101-L4170106 ... 326
L4170201-L4170206 ... 308
L4170301-L4170306 ... 308
L4170401-L4170406 ... 308
L4180201-L4180206 ... 297
L4180301-L4180306 ... 296
L4180401-L4180406 ... 296
L8010100 ... 354
L8010200 ... 354
L8010300 ... 354
L8020100 ... 355
L8020200 ... 355
L8020300 ... 355
L8030100 ... 355
L8030210 ... 355
L8030220 ... 355
L8040100 ... 355
L8040200 ... 354
L8040300 ... 354
L8050100 ... 355
L8060100 ... 354
L9010100 ... 328
L9020100 ... 328
L9020200 ... 328
L9030139-L9030147 ... 400
L9030239-L9030247 ... 400
L9030339-L9030347 ... 400
L9030439-L9030447 ... 400
L9030539-L9030547 ... 401
L9030639-L9030647 ... 400
L9030739-L9030747 ... 400
L9040100 ... 401
L9040120 ... 401
L9040150 ... 401
L9040200 ... 401
L9040220 ... 401
L9040250 ... 401
L9040300 ... 401
L9040320 ... 401
L9040350 ... 401
L9040400 ... 401
L9040420 ... 401
L9040450 ... 401
L9040500 ... 401
L9040520 ... 401
L9040600 ... 401
L9040710 ... 401
L9040810 ... 401
LPAB64S ... 284
LPAB70M ... 284
LPAB76L ... 284
LPAB76M ... 284
LPAB76XL ... 284
LPAB822XL ... 284
LPAB82L ... 284
LPAB82XL ... 284
LPAB882XL ... 284
LPAB88L ... 284
LPAB88XL ... 284
LPAB943XL ... 284
LPAK1S-LPAK13XL ... 285
LPAO64S ... 284
LPAO70M ... 284
LPAO76L ... 284
LPAO76M ... 284
LPAO76XL ... 284
LPAO822XL ... 284
LPAO82L ... 284
LPAO82XL ... 284
LPAO882XL ... 284
LPAO88L ... 284
LPAO88XL ... 284
LPAO943XL ... 284
LPAS1S-LPAS13XL ... 285
LPAS64S ... 284
LPAS70M ... 284
LPAS76L ... 284
LPAS76M ... 284
LPAS76XL ... 284
LPAS822XL ... 284
LPAS82L ... 284
LPAS82XL ... 284
LPAS882XL ... 284
LPAS88L ... 284
LPAS88XL ... 284
LPAS943XL ... 284
LPBO1S-LPBO13XL ... 310
LPBP1S-LPBP13XL ... 300
LPBP2S-LPBP23XL ... 301
LPBP3S-LPBP33XL ... 301
LPBR0148 ... 279
LPBR0150 ... 279
LPBR0152 ... 279
LPBR0154 ... 279
LPBR0156 ... 279
LPBR0160 ... 279
LPKA1M-LPKA12XL ... 316
LPKF1S-LPKF12XL ... 296
LPKF2S-LPKF22XL ... 296
LPKF3S-LPKF32XL ... 297
LPKO1S-LPKO13XL ... 327
LPKO2S-LPKO23XL ... 327
LPKOMA39-LPKOMA47 ... 394
LPKS1S-LPKS13XL ... 305
LPKS2S-LPKS23XL ... 304
LPKT1M-LPKT12XL ... 316
LPKZ1S-LPKZ13XL ... 313
LPKZ2S-LPKZ23XL ... 312
LPN001 ... 398
LPOS01 ... 342
LPPOMA39-LPPOMA47 ... 384
LPPOMB39-LPPOMB47 ... 384
LPPOMC39-LPPOMC47 ... 384
LPPP01U ... 308
LPPP11U-LPPP12U ... 308
LPPP1L-LPPP12XL ... 308
LPQA64S ... 287
LPQA70M ... 287
LPQA76L ... 287
LPQA76M ... 287
LPQA76XL ... 287
LPQA822XL ... 287
LPQA82L ... 287
LPQA82XL ... 287
LPQA882XL ... 287
LPQA88L ... 287
LPQA88XL ... 287
LPQA943XL ... 287
LPQB64S ... 288
LPQB70M ... 288
LPQB76L ... 288
LPQB76M ... 288
LPQB76XL ... 288
LPQB822XL ... 288
LPQB82L ... 288
LPQB82XL ... 288
LPQB882XL ... 288
LPQB88L ... 288
LPQB88XL ... 288
LPQB943XL ... 288
LPQC64S ... 287
LPQC70M ... 287
LPQC76L ... 287
LPQC76M ... 287
LPQC76XL ... 287
LPQC822XL ... 287
LPQC82L ... 287
LPQC82XL ... 287
LPQC882XL ... 287
LPQC88L ... 287
LPQC88XL ... 287
LPQC943XL ... 287
LPQD64S ... 288
LPQD70M ... 288
LPQD76L ... 288
LPQD76M ... 288
LPQD76XL ... 288
LPQD822XL ... 288
LPQD82L ... 288
LPQD82XL ... 288
LPQD882XL ... 288
LPQD88L ... 288
LPQD88XL ... 288
LPQD943XL ... 288
LPQE64S ... 287
LPQE70M ... 287
LPQE76L ... 287
LPQE76M ... 287
LPQE76XL ... 287
LPQE822XL ... 287
LPQE82L ... 287
LPQE82XL ... 287
LPQE882XL ... 287
LPQE88L ... 287
LPQE88XL ... 287
LPQE943XL ... 287
LPQK64S ... 287
LPQK70M ... 287
LPQK76L ... 287
LPQK76M ... 287
LPQK76XL ... 287
LPQK822XL ... 287
LPQK82L ... 287
LPQK82XL ... 287
LPQK882XL ... 287
LPQK88L ... 287
LPQK88XL ... 287
LPQK943XL ... 287
LPQL64S ... 288
LPQL70M ... 288
LPQL76L ... 288
LPQL76M ... 288
LPQL76XL ... 288
LPQL822XL ... 288
LPQL82L ... 288
LPQL82XL ... 288
LPQL882XL ... 288
LPQL88L ... 288
LPQL88XL ... 288
LPQL943XL ... 288
LPSOMA39-LPSOMA47 ... 380
LPSR0148 ... 279
LPSR0150 ... 279
LPSR0152 ... 279
LPSR0154 ... 279
LPSR0156 ... 279
LPSR0160 ... 279
LPSR0248 ... 279
LPSR0250 ... 279
LPSR0252 ... 279
LPSR0254 ... 279
LPSR0256 ... 279
LPSR0260 ... 279
LPTOMC39-LPTOMC47 ... 391
LPTOMD39-LPTOMD47 ... 390
LPTOME39-LPTOME47 ... 390
LPTOMF39-LPTOMF47 ... 389
LPTOMG39-LPTOMG47 ... 390
PEP20UZ ... 215
PKT001UW ... 151
ZR 58500 ... 49
ZR10080, ZR10081 ... 104
ZR10083, ZR10084 ... 104
ZR10086-ZR10088 ... 104
ZR10092, ZR10093 ... 104
ZR10100 ... 104
ZR10103, ZR10104 ... 104
ZR10106 ... 104
ZR10108, ZR10109 ... 104
ZR10112 ... 104
ZR10150-ZR10156 ... 104
ZR10158 ... 104
ZR10161-ZR10165 ... 104
ZR10167, ZR10168 ... 104
ZR10171-ZR10176 ... 104
ZR10182-ZR10185 ... 104
ZR10190-ZR10196 ... 104
ZR10511 ... 106
ZR10513-ZR10518 ... 106
ZR18104-ZR18113 ... 47
ZR18121-ZR18124 ... 53
ZR18125 ... 53
ZR18126-ZR18129 ... 53
ZR18150-ZR18155 ... 48
ZR18160 ... 53
ZR18162 ... 53
ZR18163 ... 47
ZR18164 ... 52
ZR18165-ZR18167 ... 47
ZR18169 ... 47
ZR18172 ... 51
ZR18175 ... 52
ZR18176 ... 47
ZR18178 ... 52
ZR18179 ... 47
ZR18180 ... 52
ZR18306- ZR18308 ... 47
ZR18310 ... 47
ZR18312- ZR18317 ... 47
ZR18341-ZR18344 ... 53
ZR18345 ... 53
ZR18346-ZR8349 ... 53

ZR18350 ... 53
ZR18352 ... 53
ZR18354 ... 52
ZR18355-ZR18359 ... 48
ZR18360-ZR18365 ... 47
ZR18367 ... 47
ZR18368 ... 53
ZR18369 ... 47
ZR18372 ... 51
ZR18375 ... 52
ZR18378 ... 52
ZR18382-ZR18386 ... 47
ZR18400-ZR18409 ... 55
ZR18410- ZR18430 ... 54
ZR18431 ... 55
ZR18432 ... 54
ZR18433-ZR18439 ... 55
ZR18440-ZR18460 ... 54
ZR18462 ... 54
ZR18463-ZR18470 ... 55
ZR18471-ZR18473 ... 55
ZR18474-ZR18476 ... 55
ZR18477 ... 55
ZR18478 ... 55
ZR18479, ZR18480 ... 55
ZR18481, ZR18482 ... 55
ZR18484 ... 55
ZR18485-ZR18488 ... 55
ZR18496, ZR18497 ... 55
ZR18500-ZR18507 ... 48
ZR18508-ZR18525 ... 47
ZR18526 ... 48
ZR18527-ZR18530 ... 47
ZR18531 ... 48
ZR18532 ... 47
ZR18533-ZR18541 ... 48
ZR18542-ZR18545 ... 48
ZR18546, ZR18547 ... 48
ZR18548, ZR18549 ... 48
ZR18550 ... 48
ZR18551-ZR18553 ... 53
ZR18554 ... 48
ZR18555 ... 53
ZR18556 ... 53
ZR18557 ... 48
ZR18559-ZR18567 ... 48
ZR18568 ... 53
ZR18569-ZR18571 ... 48
ZR18572 ... 51
ZR18575 ... 48
ZR18576 ... 52
ZR18578 ... 52
ZR18580 ... 52
ZR18581 ... 52
ZR18582 ... 53
ZR18583 ... 48
ZR18584-ZR18586 ... 52
ZR18587-ZR18595 ... 48
ZR18608, ZR18609 ... 48
ZR18610-ZR18622 ... 47
ZR18623 ... 48
ZR18624 ... 47
ZR18625, ZR18626 ... 48
ZR18627 ... 47
ZR18628, ZR18629 ... 48
ZR18630 ... 47
ZR18631 ... 48
ZR18632 ... 47
ZR18633-ZR18643 ... 48
ZR18644-ZR18648 ... 49
ZR18649-ZR8652 ... 49
ZR18653-ZR18656 ... 50
ZR18657-ZR18665 ... 49
ZR18666-ZR18668 ... 50
ZR18669 ... 49
ZR18671-ZR18674 ... 53
ZR18819 ... 47
ZR18821, ZR18822 ... 47
ZR18824 ... 47
ZR18826, ZR18827 ... 47
ZR18830 ... 47
ZR18832 ... 47
ZR18835, ZR18836 ... 47
ZR18838 ... 47
ZR18841 ... 47
ZR18846 ... 47
ZR18850 ... 47
ZR18858 ... 53
ZR18860 ... 52
ZR18863 ... 53
ZR18864 ... 52
ZR18865 ... 52
ZR18867, ZR18868 ... 53
ZR18871, ZR18872 ... 53
ZR18874 ... 53
ZR18901-ZR18904 ... 55
ZR18906 ... 55
ZR18907 ... 55
ZR18919 ... 54
ZR18921-ZR18930 ... 54
ZR18932-ZR18936 ... 54
ZR18938 ... 54
ZR18941-ZR18943 ... 54
ZR18946 ... 54
ZR18948 ... 54
ZR18950 ... 54
ZR18952 ... 54
ZR18955 ... 54
ZR18960 ... 54
ZR18969 ... 54
ZR18971-ZR18980 ... 54
ZR18982-ZR18986 ... 54
ZR18991-ZR18993 ... 54
ZR18996 ... 54
ZR18998, ZR18999 ... 54
ZR18ZR182-ZR18ZR186 ... 47
ZR58120-ZR58125 ... 49
ZR58126-ZR58134 ... 49
ZR58135 - ZR58137 ... 49
ZR58138 -ZR58140 ... 49
ZR58300- ZR58310 ... 49
ZR58501, ZR58502 ... 49
ZR58503- ZR58511 ... 49
ZR58512- ZR58518 ... 49
ZR58519-ZR58523 ... 49
ZR58524-ZR58529 ... 50
ZR58530-ZR58532 ... 50
ZR58533-ZR58542 ... 49
ZR58543- ZR58548 ... 50
ZR58549-ZR58554 ... 50
ZR76003-ZR76016 ... 222
ZR76018-ZR76100 ... 222
ZR76102 ... 222
ZR76110 ... 222
ZR76115 ... 222
ZR76120 ... 222
ZR76125 ... 222
ZR76130 ... 222
ZR76135 ... 222
ZR76140 ... 222
ZR76145 ... 222
ZR76150 ... 222
ZR76155 ... 222
ZR76160 ... 222
ZR76165 ... 222
ZR76170 ... 222
ZR76175 ... 222
ZR76180 ... 222
ZR76185 ... 222
ZR76190 ... 222
ZR76195 ... 222
ZR76200 ... 222
ZR8988 ... 54
ZRZ6105 ... 222
ZRZR18324 ... 47

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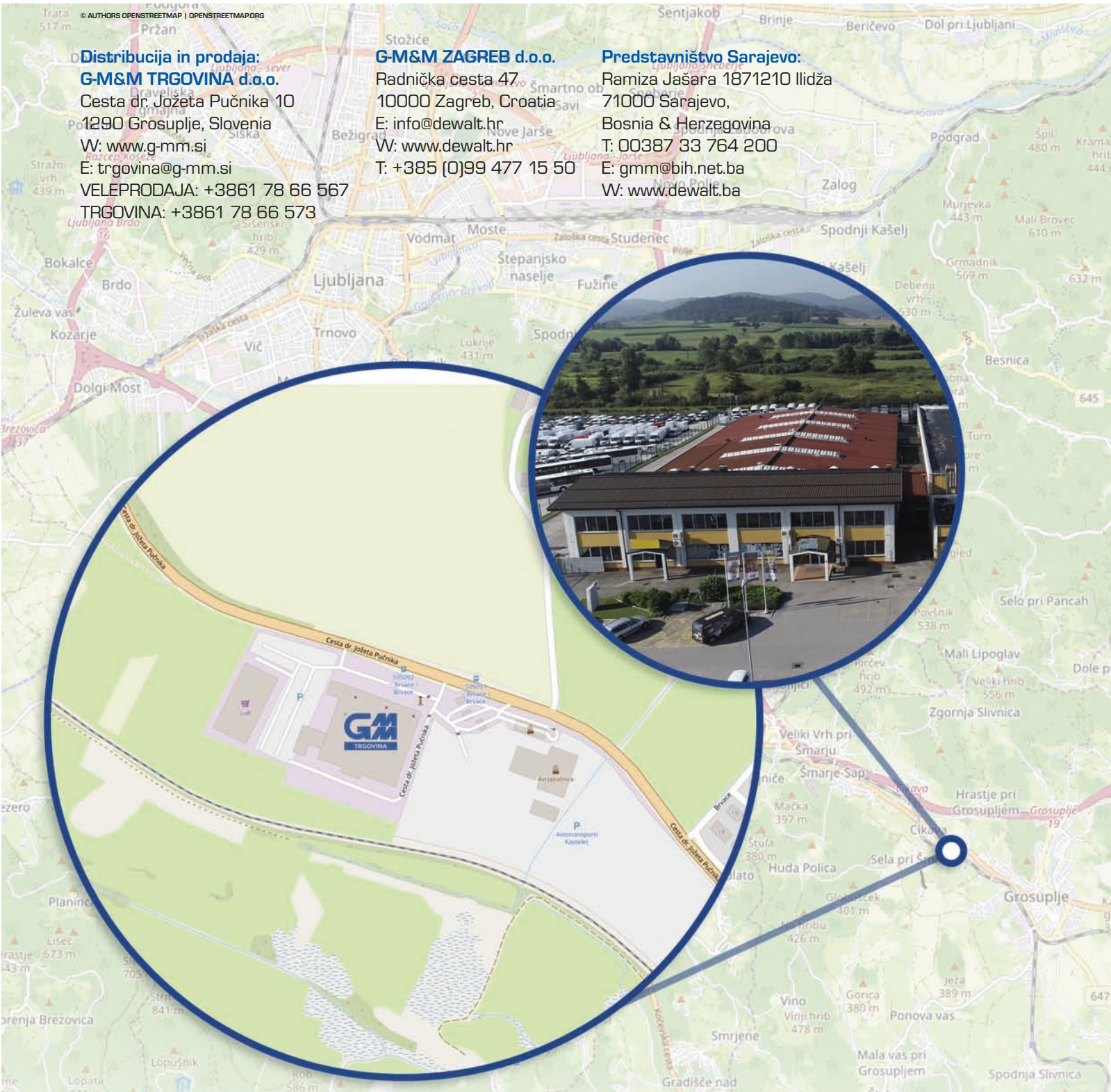

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