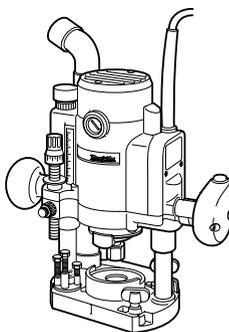


INSTRUCTION MANUAL

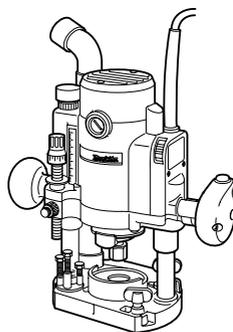


# Router / Electronic Router

**RP0910**  
**RP1110C**



RP0910



RP1110C

015287

 DOUBLE INSULATION

**IMPORTANT:** Read Before Using.

## ENGLISH (Original instructions)

# SPECIFICATIONS

Model	RP0910	RP110C
Collet chuck capacity	8 mm or 1/4"	8 mm or 1/4"
Plunge capacity	0 - 57 mm	0 - 57 mm
No load speed (min <sup>-1</sup> )	27,000	8,000 - 24,000
Overall height	260 mm	260 mm
Net weight	3.3 kg	3.4 kg
Safety class	II/II	II/II

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- Weight according to EPTA-Procedure 01/2003

END201-7

## Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



- Read instruction manual.



- DOUBLE INSULATION



- Only for EU countries  
Do not dispose of electric equipment together with household waste material! In observance of the European Directive, on Waste Electric and Electronic Equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

ENE010-1

## Intended use

The tool is intended for flush trimming and profiling of wood, plastic and similar materials.

ENF002-2

## Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

ENG905-1

## Noise

The typical A-weighted noise level determined according to EN60745:

### Model RP0910

Sound pressure level ( $L_{pA}$ ) : 83 dB (A)  
Sound power level ( $L_{WA}$ ) : 94 dB (A)  
Uncertainty (K) : 3 dB (A)

### Model RP110C

Sound pressure level ( $L_{pA}$ ) : 81 dB (A)  
Sound power level ( $L_{WA}$ ) : 92 dB (A)  
Uncertainty (K) : 3 dB (A)

### Wear ear protection

ENG900-1

## Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

### Model RP0910

Work mode : cuttng grooves in MDF  
Vibration emission ( $a_h$ ) : 8.0 m/s<sup>2</sup>  
Uncertainty (K) : 1.5 m/s<sup>2</sup>

### Model RP110C

Work mode : cuttng grooves in MDF  
Vibration emission ( $a_h$ ) : 5.0 m/s<sup>2</sup>  
Uncertainty (K) : 1.5 m/s<sup>2</sup>

ENG901-1

- The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.
- The declared vibration emission value may also be used in a preliminary assessment of exposure.

## ⚠WARNING:

- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.
- Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

**For European countries only****EC Declaration of Conformity**

**We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):**

Designation of Machine:

Router / Electronic Router

Model No./ Type: RP0910,RP1110C

are of series production and

**Conforms to the following European Directives:**  
2006/42/EC

And are manufactured in accordance with the following standards or standardised documents:

EN60745

The technical documentation is kept by our authorised representative in Europe who is:

Makita International Europe Ltd.

Michigan Drive, Tongwell,

Milton Keynes, Bucks MK15 8JD, England

30.1.2009



Tomoyasu Kato  
Director

Makita Corporation

3-11-8, Sumiyoshi-cho,

Anjo, Aichi, 446-8502, JAPAN

000230

GEA005-3

**General Power Tool Safety****Warnings**

**⚠ WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

**Work area safety**

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

**Electrical safety**

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
9. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
10. **Use of power supply via a RCD with a rated residual current of 30mA or less is always recommended.**

**Personal safety**

11. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
12. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
13. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
14. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
15. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

16. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
17. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

#### **Power tool use and care**

18. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
19. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
20. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
21. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
22. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
23. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
24. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

#### **Service**

25. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
26. **Follow instruction for lubricating and changing accessories.**
27. **Keep handles dry, clean and free from oil and grease.**

GEB018-4

## **ROUTER SAFETY WARNINGS**

1. **Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

2. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
3. **Wear hearing protection during extended period of operation.**
4. **Handle the bits very carefully.**
5. **Check the bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.**
6. **Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.**
7. **Hold the tool firmly with both hands.**
8. **Keep hands away from rotating parts.**
9. **Make sure the bit is not contacting the workpiece before the switch is turned on.**
10. **Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate improperly installed bit.**
11. **Be careful of the bit rotating direction and the feed direction.**
12. **Do not leave the tool running. Operate the tool only when hand-held.**
13. **Always switch off and wait for the bit to come to a complete stop before removing the tool from workpiece.**
14. **Do not touch the bit immediately after operation; it may be extremely hot and could burn your skin.**
15. **Do not smear the tool base carelessly with thinner, gasoline, oil or the like. They may cause cracks in the tool base.**
16. **Use bits of the correct shank diameter suitable for the speed of the tool.**
17. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**
18. **Always use the correct dust mask/respirator for the material and application you are working with.**

## **SAVE THESE INSTRUCTIONS.**

### **⚠WARNING:**

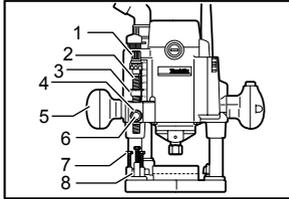
**DO NOT** let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. **MISUSE** or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

## FUNCTIONAL DESCRIPTION

### ⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

### Adjusting the depth of cut



015289

1. Adjusting knob
2. Stopper pole
3. Depth pointer
4. Stopper pole setting nut
5. Lock knob
6. Fast-feed button
7. Adjusting hex bolt
8. Stopper block

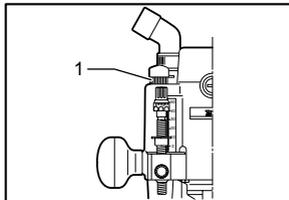
Place the tool on a flat surface. Loosen the lock knob and lower the tool body until the bit just touches the flat surface. Tighten the lock knob to lock the tool body.

Turn the stopper pole setting nut counterclockwise. Lower the stopper pole until it makes contact with the adjusting bolt. Align the depth pointer with the "0" graduation. The depth of cut is indicated on the scale by the depth pointer.

While pressing the fast-feed button, raise the stopper pole until the desired depth of cut is obtained. Minute depth adjustments can be obtained by turning the adjusting knob (1 mm per turn). By turning the stopper pole setting nut clockwise, you can fasten the stopper pole firmly.

Now, your predetermined depth of cut can be obtained by loosening the lock knob and then lowering the tool body until the stopper pole makes contact with the adjusting hex bolt of the stopper block.

### Nylon nut



005089

1. Nylon nut

By turning the nylon nut, the upper limit of the tool body can be adjusted. When the tip of the bit is retracted more than required in relation to the base plate surface, turn the nylon nut to lower the upper limit.

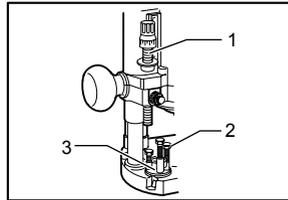
### ⚠CAUTION:

- Since excessive cutting may cause overload of the motor or difficulty in controlling the tool, the depth of cut should not be more than 15 mm at a pass

when cutting grooves with an 8 mm diameter bit.

- When cutting grooves with a 20 mm diameter bit, the depth of cut should not be more than 5 mm at a pass.
- For extra-deep grooving operations, make two or three passes with progressively deeper bit settings.
- Do not lower the nylon nut too low, or the bit will protrude dangerously.

### Stopper block



015290

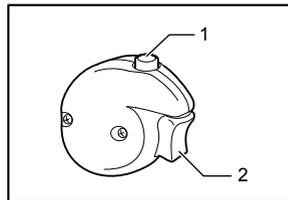
1. Stopper pole
2. Adjusting hex bolt
3. Stopper block

The stopper block has three adjusting hex bolts which raise or lower 0.8 mm per turn. You can easily obtain three different depths of cut using these adjusting hex bolts without readjusting the stopper pole.

Adjust the lowest hex bolt to obtain the deepest depth of cut, following the method of "Adjusting depth of cut". Adjust the two remaining hex bolts to obtain shallower depths of cut. The differences in height of these hex bolts are equal to the differences in depths of cut.

To adjust the hex bolt height, turn the hex bolts with a screw driver or wrench. The stopper block is also convenient for making three passes with progressively deeper bit settings when cutting deep grooves.

### Switch action



005091

1. Lock button
2. Switch trigger

### ⚠CAUTION:

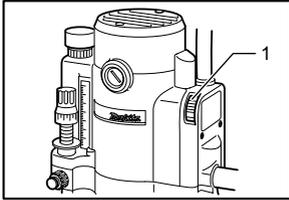
- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.
- Make sure that the shaft lock is released before the switch is turned on.

To start the tool, depress the lock button and pull the switch trigger. Release the switch trigger to stop.

For continuous operation, pull the switch trigger and then depress the lock button further. To stop the tool, pull the switch trigger so that the lock button returns automatically. Then release the switch trigger.

After releasing the switch trigger, the lock-off function works to prevent the switch trigger from being pulled.

## Speed adjusting dial For RP1110C



1. Speed adjusting dial

005092

The tool speed can be changed by turning the speed adjusting dial to a given number setting from 1 to 5.

Higher speed is obtained when the dial is turned in the direction of number 5. And lower speed is obtained when it is turned in the direction of number 1.

This allows the ideal speed to be selected for optimum material processing, i.e. the speed can be correctly adjusted to suit the material and bit diameter.

Refer to the table for the relationship between the number settings on the dial and the approximate tool speed.

Number	min <sup>-1</sup>
1	8,000
2	12,000
3	16,000
4	20,000
5	24,000

006451

### ⚠CAUTION:

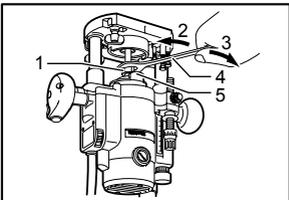
- The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

## ASSEMBLY

### ⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

### Installing or removing the bit



1. Collet nut
2. Tighten
3. Loosen
4. Wrench
5. Shaft lock

015288

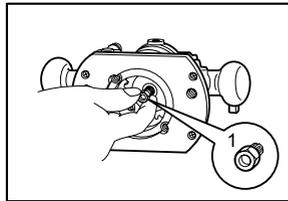
### ⚠CAUTION:

- Install the bit securely. Always use only the wrench provided with the tool. A loose or overtightened bit can be dangerous.
- Do not tighten the collet nut without inserting a bit. It can lead to breakage of the collet cone.

Insert the bit all the way into the collet cone. Press the shaft lock to keep the shaft stationary and use the wrench to tighten the collet nut securely.

A 8 mm or 6.35 mm collet cone is factory installed on the tool. When using router bits with other shank diameter, use the correct size collet cone for the bit which you intend to use.

To remove the bit, follow the installation procedure in reverse.



1. Correct size collet cone

005087

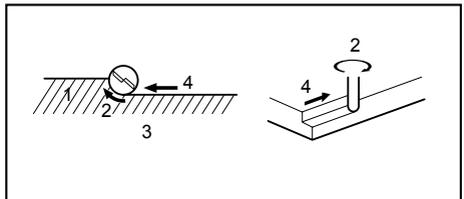
## OPERATION

### ⚠CAUTION:

- Before operation, always make sure that the tool body automatically rises to the upper limit and the bit does not protrude from the tool base when the lock knob is loosened.

Set the tool base on the workpiece to be cut without the bit making any contact. Then turn the tool on and wait until the bit attains full speed. Lower the tool body and move the tool forward over the workpiece surface, keeping the tool base flush and advancing smoothly until the cutting is complete.

When doing edge cutting, the workpiece surface should be on the left side of the bit in the feed direction.

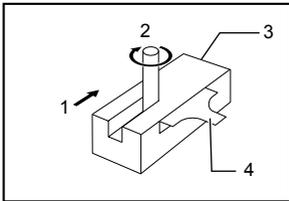


1. Workpiece
2. Bit revolving direction
3. View from the top of the tool
4. Feed direction

001984

**NOTE:**

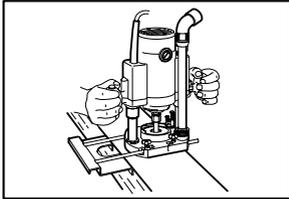
- Make sure that the dust guide is installed properly.
- Moving the tool forward too fast may cause a poor quality of cut, or damage to the bit or motor. Moving the tool forward too slowly may burn and mar the cut. The proper feed rate will depend on the bit size, the kind of workpiece and depth of cut. Before beginning the cut on the actual workpiece, it is advisable to make a sample cut on a piece of scrap lumber. This will show exactly how the cut will look as well as enable you to check dimensions.
- When using the straight guide, be sure to install it on the right side in the feed direction. This will help to keep it flush with the side of the workpiece.



1. Feed direction
2. Bit revolving direction
3. Workpiece
4. Straight guide

001985

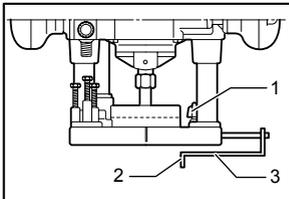
**Straight guide (optional accessory)**



015292

The straight guide is effectively used for straight cuts when chamfering or grooving.

To install the straight guide, insert the guide bars into the holes in the tool base. Adjust the distance between the bit and the straight guide. At the desired distance, tighten the lock screw to secure the straight guide in place.

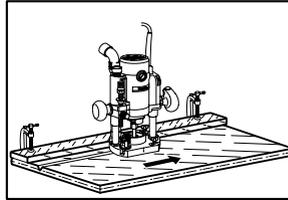


1. Lock screw
2. Guiding surface
3. Straight guide

015291

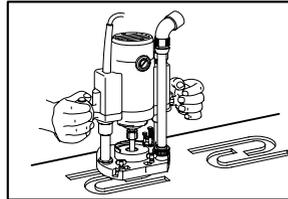
When cutting, move the tool with the straight guide flush with the side of the workpiece.

If the distance between the side of the workpiece and the cutting position is too wide for the straight guide, or if the side of the workpiece is not straight, the straight guide cannot be used. In this case, firmly clamp a straight board to the workpiece and use it as a guide against the router base. Feed the tool in the direction of the arrow.



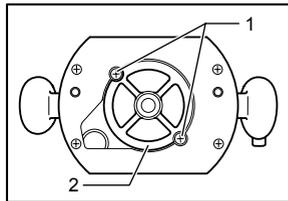
015293

**Templet guide (optional accessory)**



015294

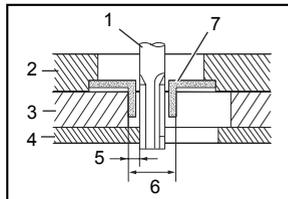
The templet guide provides a sleeve through which the bit passes, allowing use of the tool with templet patterns. To install the templet guide, loosen the screws on the tool base, insert the templet guide and then tighten the screws.



1. Screw
2. Templet guide

005097

Secure the templet to the workpiece. Place the tool on the templet and move the tool with the templet guide sliding along the side of the templet.



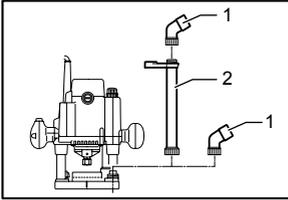
1. Bit
2. Base
3. Templet
4. Workpiece
5. Distance (X)
6. Outside diameter of the templet guide
7. Templet guide

003695

**NOTE:**

- The workpiece will be cut a slightly different size from the templet. Allow for the distance (X) between the bit and the outside of the templet guide. The distance (X) can be calculated by using the following equation:  
Distance (X) = (outside diameter of the templet guide - bit diameter) / 2

**Connecting to Makita vacuum cleaner**



- Dust nozzle assembly
- Nozzle assembly

005098

Cleaner operations can be performed by connecting the tool to Makita vacuum cleaner.

Insert the nozzle assembly and the dust nozzle assembly into the tool. Also, the dust nozzle assembly can be inserted into the tool base directly in accordance with the operation.

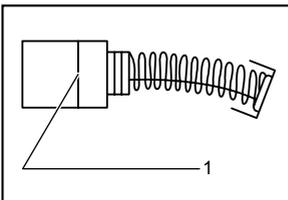
When connecting to Makita vacuum cleaner (Model 407), an optional hose 28 mm in inner diameter is necessary.

**MAINTENANCE**

**⚠CAUTION:**

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzene, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

**Replacing carbon brushes**

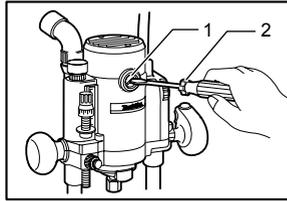


- Limit mark

001145

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



- Brush holder cap
- Screwdriver

005099

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

**OPTIONAL ACCESSORIES**

**⚠CAUTION:**

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

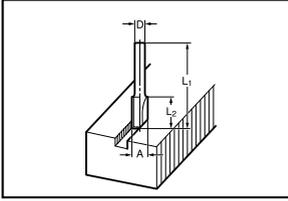
- Straight & groove forming bits
- Edge forming bits
- Laminate trimming bits
- Straight guide
- Templet guide 25
- Templet guides
- Lock nut
- Collet cone 1/4"
- Collet cone 6 mm, 8 mm
- Wrench 17
- Dust nozzle assembly
- Nozzle assembly

**NOTE:**

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

## Router bits

### Straight bit

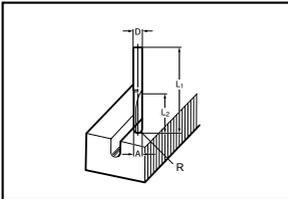


005116

	D	A	L 1	L 2	mm
20	6	20	50	15	
20E	1/4"				
8	8	8	60	25	
8	6				
8E	1/4"	6	50	18	
6	6				
6E	1/4"				

007136

### "U"Grooving bit

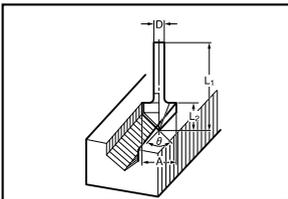


005117

	D	A	L 1	L 2	R	mm
6	6	6	60	28	3	
6E	1/4"					

007137

### "V"Grooving bit

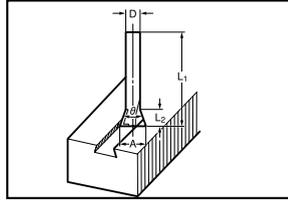


005118

D	A	L 1	L 2	theta	mm
1/4"	20	50	15	90°	

006454

### Dovetail bit

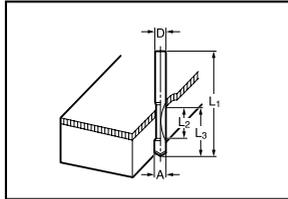


005119

	D	A	L 1	L 2	theta	mm
15S	8	14.5	55	10	35°	
15L	8	14.5	55	14.5	23°	
12	8	12	50	9	30°	

007138

### Drill point flush trimming bit

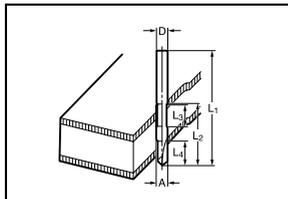


005120

	D	A	L 1	L 2	L 3	mm
8	8	8	60	20	35	
6	6	6	60	18	28	
6E	1/4"					

007139

### Drill point double flush trimming bit

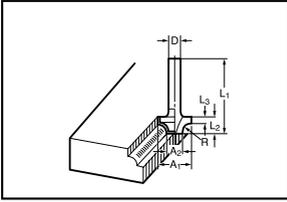


005121

	D	A	L 1	L 2	L 3	L 4	mm
8	8	8	80	55	20	25	
6	6	6	70	40	12	14	
6E	1/4"						

007140

### Corner rounding bit

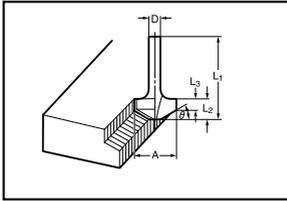


005125

mm							
	D	A 1	A 2	L 1	L 2	L 3	R
8R	6	25	9	48	13	5	8
8RE	1/4"						
4R	6	20	8	45	10	4	4
4RE	1/4"						

007141

### Chamfering bit

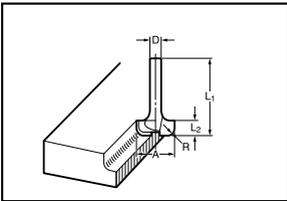


005126

mm						
D	A	L 1	L 2	L 3	theta	
6	23	46	11	6	30°	
6	20	50	13	5	45°	
6	20	49	14	2	60°	

006462

### Cove beading bit

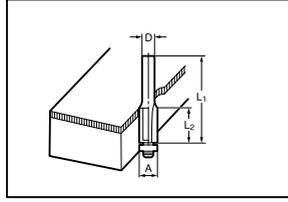


005129

mm					
D	A	L 1	L 2	R	
6	20	43	8	4	
6	25	48	13	8	

006464

### Ball bearing flush trimming bit

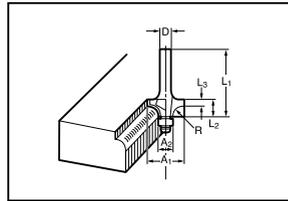


005130

mm			
D	A	L 1	L 2
6	10	50	20
1/4"			

006465

### Ball bearing corner rounding bit

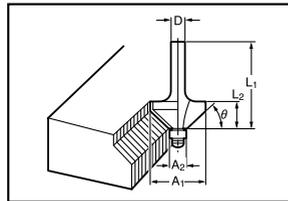


005131

mm							
D	A 1	A 2	L 1	L 2	L 3	R	
6	15	8	37	7	3.5	3	
6	21	8	40	10	3.5	6	
1/4"	21	8	40	10	3.5	6	

006466

### Ball bearing chamfering bit

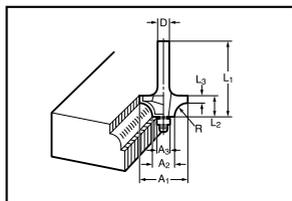


005132

mm						
D	A 1	A 2	L 1	L 2	theta	
6	26	8	42	12	45°	
1/4"						
6	20	8	41	11	60°	

006467

### Ball bearing beading bit



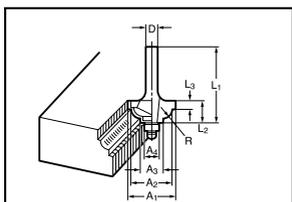
005133

D	A 1	A 2	A 3	L 1	L 2	L 3	R
6	20	12	8	40	10	5.5	4
6	26	12	8	42	12	4.5	7

mm

006468

### Ball bearing cove beading bit



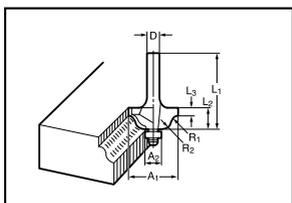
005134

D	A 1	A 2	A 3	A 4	L 1	L 2	L 3	R
6	20	18	12	8	40	10	5.5	3
6	26	22	12	8	42	12	5	5

mm

006469

### Ball bearing roman ogee bit



005135

D	A 1	A 2	L 1	L 2	L 3	R 1	R 2
6	20	8	40	10	4.5	2.5	4.5
6	26	8	42	12	4.5	3	6

mm

006470

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