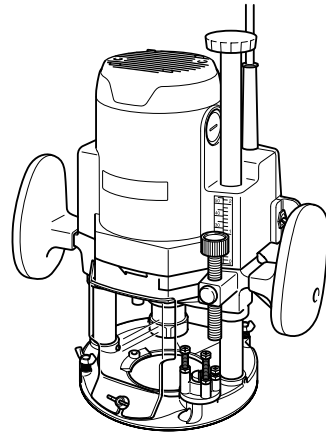





# Router

M363



004924

 DOUBLE INSULATION

**⚠ WARNING:**

For your personal safety, READ and UNDERSTAND before using.  
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

## ENGLISH SPECIFICATIONS

Model	M363
Collet chuck capacity	12 mm or 1/2"
Plunge capacity	0 - 60 mm
No load speed (min <sup>-1</sup> )	22,000
Overall height	300 mm
Net weight	5.5 Kg
Safety class	II / I

• Due to our continuing programme of research and development, the specifications herein are subject to change without notice.

• Note: Specifications may differ from country to country.

ENA100-1

## GENERAL SAFETY RULES

**WARNING!** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE INSTRUCTIONS.

### Work Area

1. **Keep work area clean and well lit.** Cluttered and 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.

### Personal Safety

9. **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.
10. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **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.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
14. **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.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power tool use and care

16. **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.

17. **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.
18. **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.
19. **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.
20. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
21. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
22. **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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 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

23. **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.

ENB033-3

## ADDITIONAL SAFETY RULES

1. **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. **Wear hearing protection during extended period of operation.**
3. **Handle the bits very carefully.**
4. **Check the bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.**

5. **Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.**
6. **Hold the tool firmly with both hands.**
7. **Keep hands away from rotating parts.**
8. **Make sure the bit is not contacting the workpiece before the switch is turned on.**
9. **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.**
10. **Be careful of the bit rotating direction and the feed direction.**
11. **Do not leave the tool running. Operate the tool only when hand-held.**
12. **Always switch off and wait for the bit to come to a complete stop before removing the tool from workpiece.**
13. **Do not touch the bit immediately after operation; it may be extremely hot and could burn your skin.**
14. **Always lead the power supply cord away from the tool towards the rear.**
15. **Do not smear the tool base carelessly with thinner, gasoline, oil or the like. They may cause cracks in the tool base.**
16. **Draw attention to the need to use cutters of the correct shank diameter and which are suitable for the speed of the tool.**
17. **Always use the correct dust mask/respirator for the material and application you are working with.**

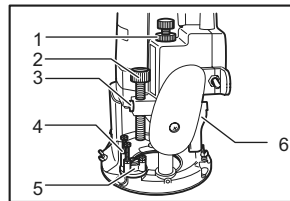
## SAVE THESE INSTRUCTIONS.

## 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



004925

1. Nylon nut
2. Stopper pole
3. Fast-feed button
4. Adjusting hex bolt
5. Stopper
6. Lock lever

Place the tool on a flat surface. Loosen the lock lever and lower the tool body until the bit just touches the flat surface. Press the lock lever down to lock the tool body. While pressing the fast-feed button, move the stopper pole up or down until the desired depth of cut is obtained. Minute depth adjustments can be obtained by turning the stopper pole (1.5 mm per turn).

**⚠ CAUTION:**

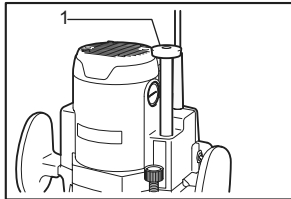
- The depth of cut should not be more than 20 mm at a pass when cutting grooves. For extra-deep grooving operations, make two or three passes with progressively deeper bit settings.

**Nylon nut**

**For tool without the knob**

The upper limit of the tool body can be adjusted by turning the nylon nut. Do not lower the nylon nut too low. The bit will protrude dangerously.

**For tool with the knob**

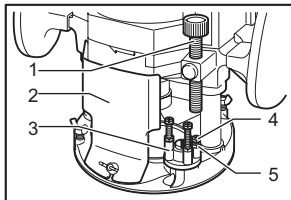


005111

1. Knob

By turning the knob, 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 knob to lower the upper limit. Do not lower the knob too low. The bit will protrude dangerously.

**Stopper block**

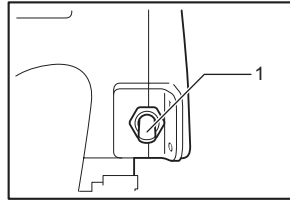


004926

1. Stopper pole  
2. Chip deflector  
3. Stopper  
4. Adjusting hex bolt  
5. Hex nut

As the rotary stopper has three adjusting hex bolts, you can easily obtain three different depths of cut without readjusting the stopper pole. To adjust the hex bolts, loosen the hex nuts on them and turn the hex bolts. After obtaining the desired position, tighten the hex nuts to secure the hex bolts.

**Switch action**



004927

1. Switch lever

**⚠ CAUTION:**

- Before plugging in the tool, always check to see that the tool is switched off.
- Make sure that the shaft lock is released before the switch is turned on.

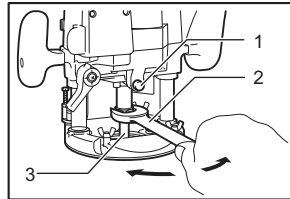
To start the tool, move the switch lever to the I position. To stop the tool, move the switch lever to the O position.

**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**



004928

1. Shaft lock  
2. Wrench  
3. Bit

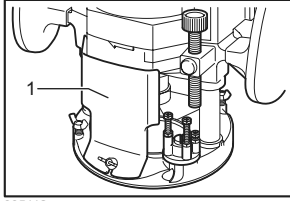
**⚠ CAUTION:**

- 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 or install small shank bits without using a collet sleeve. Either 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. When using router bits with smaller shank diameter, first insert the appropriate collet sleeve into the collet cone, then install the bit as described above.

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

## OPERATION



1. Chip deflector

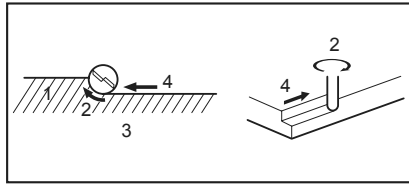
005112

### ⚠ 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 lever is loosened.
- Before operation, always make sure that the chip deflector is installed properly.

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.

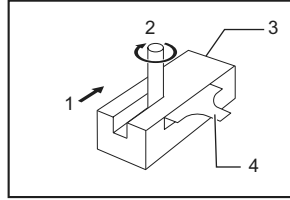


1. Workpiece
2. Bit revolving direction
3. View from the top of the tool
4. Feed direction

001984

### NOTE:

- 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.



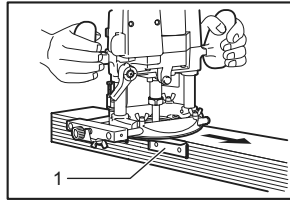
1. Feed direction
2. Bit revolving direction
3. Workpiece
4. Straight guide

001985

### NOTE:

- When using the straight guide or the trimmer 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.

## Straight guide

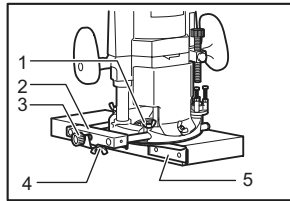


1. Straight guide

004929

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

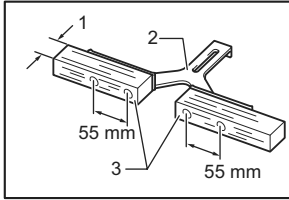
Install the straight guide on the guide holder with the thumb screw (B). Insert the guide holder into the holes in the tool base and tighten the thumb screw (A). To adjust the distance between the bit and the straight guide, loosen the thumb screw (B) and turn the fine adjusting screw (1.5 mm per turn). At the desired distance, tighten the thumb screw (B) to secure the straight guide in place.



1. Wing bolt (A)
2. Guide holder
3. Fine adjusting screw
4. Wing bolt (B)
5. Straight guide

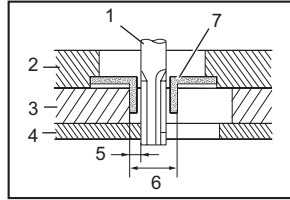
004930

Wider straight guide of desired dimensions may be made by using the convenient holes in the guide to bolt on extra pieces of wood.



004931

1. More than 15 mm
2. Straight guide
3. Wood



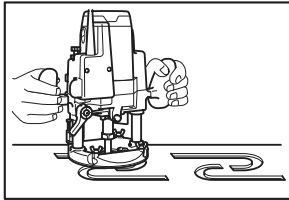
003695

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

When using a large diameter bit, attach pieces of wood to the straight guide which have a thickness of more than 15 mm to prevent the bit from striking the straight guide.

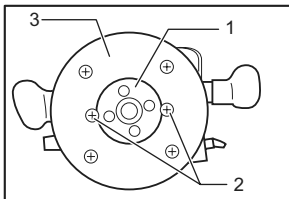
When cutting, move the tool with the straight guide flush with the side of the workpiece.

### Templet guide



004932

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.



003692

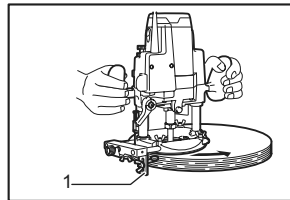
1. Templet guide
2. Screw
3. Base plate

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.

### 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

### Trimmer guide

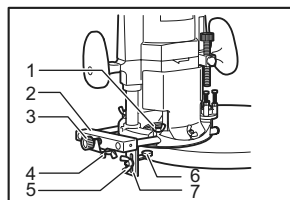


004935

1. Trimmer guide

Trimming, curved cuts in veneers for furniture and the like can be done easily with the trimmer guide. The guide roller rides the curve and assures a fine cut.

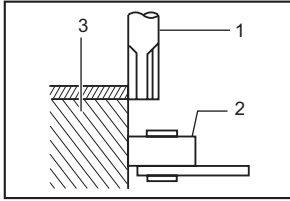
Install the trimmer guide on the guide holder with the thumb screw (B). Insert the guide holder into the holes in the tool base and tighten the thumb screw (A). To adjust the distance between the bit and the trimmer guide, loosen the thumb screw (B) and turn the fine adjusting screw (1.5 mm per turn). When adjusting the guide roller up or down, loosen the thumb screw (C). After adjusting, tighten all the thumb screws securely.



004936

1. Wing bolt (A)
2. Guide holder
3. Fine adjusting screw
4. Wing bolt (B)
5. Wing bolt (C)
6. Guide roller
7. Trimmer guide

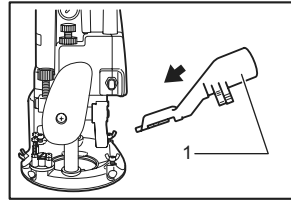
When cutting, move the tool with the guide roller riding the side of the workpiece.



003701

1. Bit
2. Guide roller
3. Workpiece

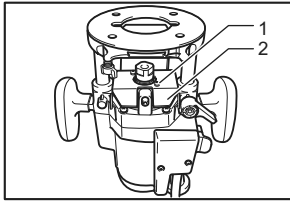
### Dust extraction (Accessory)



004939

1. Vacuum head

### Dust cover (For tool with the knob)



005113

1. Pan head screw
2. Dust cover

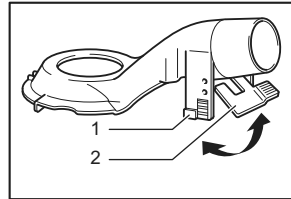
To suit the tool when using in the inverted position with Makita Router Stand.

This accessory prevents sawdust from being drawn through the tool in the inverted position.

It is not recommended for use in the normal position. However, we do recommend its use in the inverted mode.

Use the vacuum head for dust extraction. To install the vacuum head, raise the lock lever on it. Place the vacuum head on the tool base so that its top will be caught in the hook on the tool base. Insert the supports on the vacuum head into the hooks on the front of the tool base.

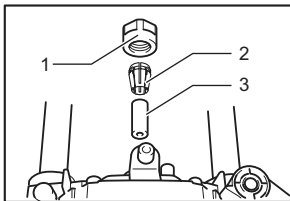
Push down the lock lever onto the tool base.



004940

1. Support
2. Lock lever

### Spacer (For tool with the knob)



005114

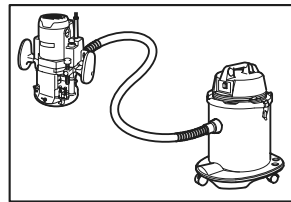
1. Collet nut
2. Collet cone
3. Spacer

When operating the tool in the inverted position with the Makita Router Stand, use the spacer.

The spacer prevents the router bit from dropping in to the chuck when replacing the bit.

Install the spacer as shown in the figure.

Then connect a vacuum cleaner to the vacuum head.



004941

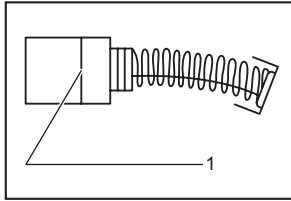
To remove the vacuum head, raise the lock lever. Pull the vacuum head out of the tool base while holding the supports between thumb and finger.

## MAINTENANCE

### ⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

## Replacing carbon brushes

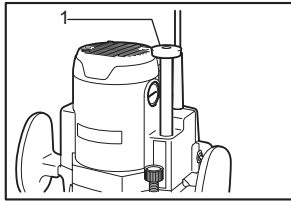


001145

1. Limit mark

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.

## For tool with the knob

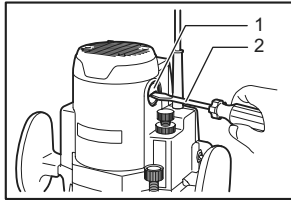


005111

1. Knob

Release the lock lever and remove the knob by turning it counterclockwise. The compression spring will come out of the knob, so be careful not to lose the compression spring.

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.



004942

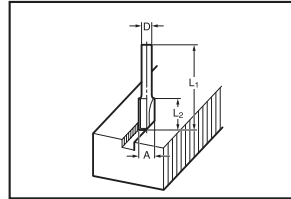
1. Brush holder cap  
2. Screwdriver

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.

## ACCESSORIES

### Router bits

#### Straight bit

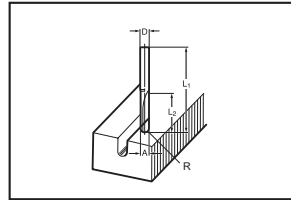


005116

	D	A	L 1	L 2	mm
20	6	20	50	15	
20E	1/4"				
12	12	12	60	30	
12E	1/2"				
10	12	10	60	25	
10E	1/2"				
8	8	8	60	25	
8	6				
8E	1/4"	8	50	18	
6	6				
6E	1/4"	6	50	18	
20	12				
20E	1/2"	20	60	20	

006452

#### "U" Grooving bit



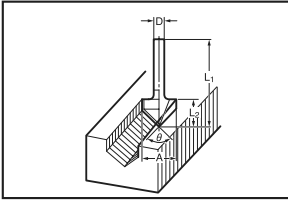
005117

	D	A	L 1	L 2	R	mm
12	12	12	55	20	6	
12E	1/2"					
6	6	6	60	28	3	
6E	1/4"					

006453



### "V" Grooving bit

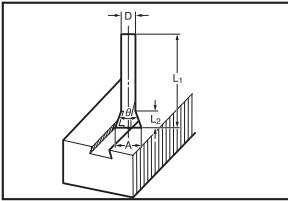


005118

	D	A	L 1	L 2	$\theta$
20	6	20	50	15	90°
20E	1/4"				

006454

### Dovetail bit

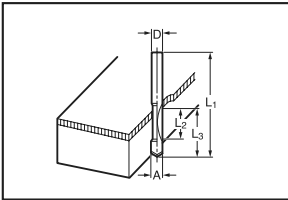


005119

	D	A	L 1	L 2	$\theta$
15S	8	14.5	55	10	35°
15SE	3/8"				
15L	8				
15LE	3/8"	14.5	55	14.5	23°
12	8				
12E	3/8"	12	50	9	30°

006455

### Drill point flush trimming bit

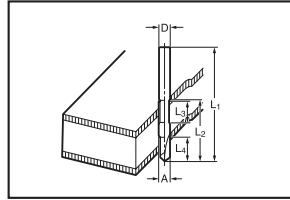


005120

	D	A	L 1	L 2	L 3
12	12	12	60	20	35
12E	1/2"				
8	8	8	60	20	35
8E	3/8"				
6	6	6	60	18	28
6E	1/4"				

006456

### Drill point double flush trimming bit

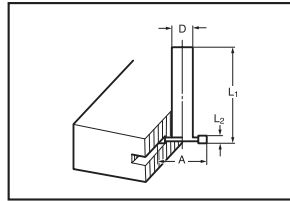


005121

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

006457

### Slotting cutter

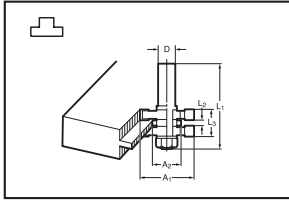


005122

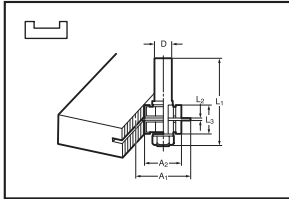
	D	L 1	L 2	A
6	12	55	6	30
6E	1/2"			
3	12	55	3	30
3E	1/2"			

006458

### Board-jointing bit



005123

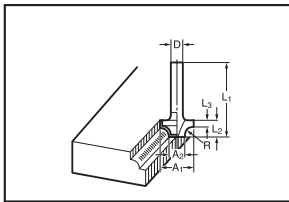


005124

mm						
D	A 1	A 2	L 1	L 2	L 3	C
12	38	27	61	4	20	
1/2"						
12	38	26	61	4	20	
1/2"						

006459

### Corner rounding bit

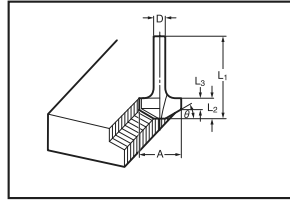


005125

mm							
	D	A 1	A 2	L 1	L 2	L 3	R
8R	6	25	9	48	13	5	8
8RE	1/4"						
6R	12	20	8	50	10	4	6
6RE	1/2"						
4R	6	20	8	45	10	4	4
4RE	1/4"						

006460

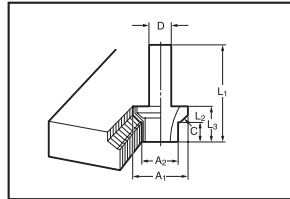
### Chamfering bit



005126

mm							
	D	A 1	A 2	L 1	L 2	L 3	C
30	12	30	20	55	12	20	4
30E	1/2"						

006461

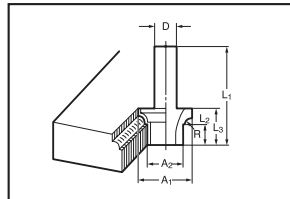


005127

mm							
	D	A	L 1	L 2	L 3	θ	
30°	6	23	46	11	6	30°	
30° E	1/4"						
45°	6	20	50	13	5	45°	
45° E	1/4"						
60°	6	20	49	14	2	60°	
60° E	1/4"						

006462

### Beading bit

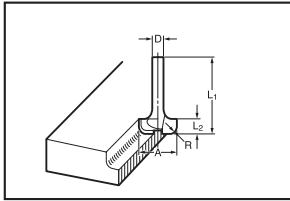


005128

mm							
	D	A 1	A 2	L 1	L 2	L 3	R
4R	12	30	20	55	12	20	4
4RE	1/2"						

006463

### Cove beading bit

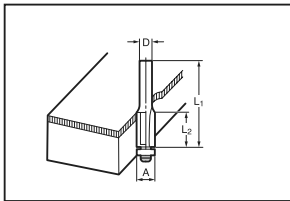


005129

	D	A	L 1	L 2	R
4R	6	20	43	8	4
4RE	1/4"				
8R	6	25	48	13	8
8RE	1/4"				

006464

### Ball bearing flush trimming bit

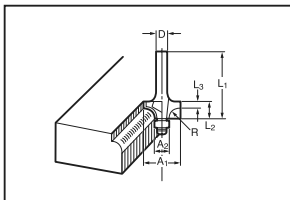


005130

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

006465

### Ball bearing corner rounding bit

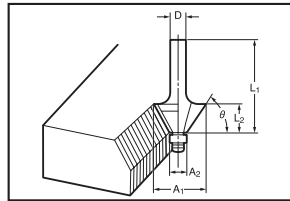


005131

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

006466

### Ball bearing chamfering bit

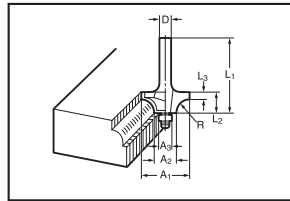


005132

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

006467

### Ball bearing beading bit

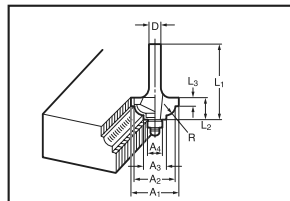


005133

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

006468

### Ball bearing cove beading bit

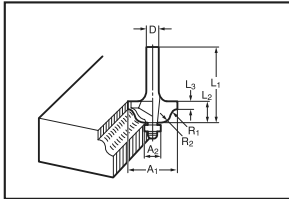


005134

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

006469

### Ball bearing roman ogee bit

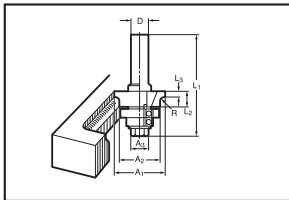


005135

		mm							
	D	A 1	A 2	L 1	L 2	L 3	R 1	R 2	
2	6	20	8	40	10	4.5	2.5	4.5	
2E	1/4"								
3	6	26	8	42	12	4.5	3	6	
3E	1/4"								

006470

### Double ball bearing round corner bit



005136

		mm							
	D	A 1	A 2	A 3	L 1	L 2	L 3	R	
3R	12	35	27	19	70	11	3.5	3	
3RE	1/2"								

006471







Makita Corporation