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## TECHNICAL INFORMATION



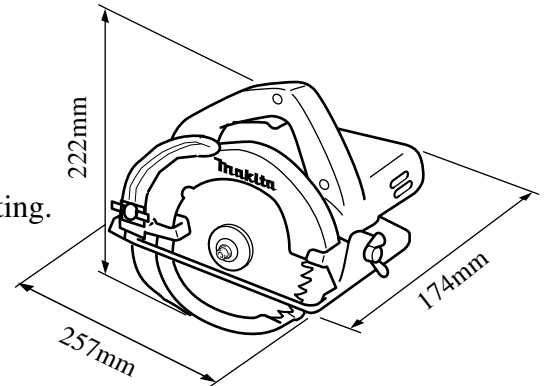
Product

**Models No.** ▶ 5600RD(5600RDW)

**Description** ▶ 160 mm Cordless circular Saw

### CONCEPTION AND MAIN APPLICATIONS

To enrich the battery tool series, to widen their applications and to reply to the demands from market, the cordless circular saw with riving knife has been developed mainly for use in fitting. The 5600RD(160 mm battery circular saw) and DC1000 (Fast charger) are combined into the one model called 5600RDW.



### ► Specifications

|                     |                     |                 |
|---------------------|---------------------|-----------------|
| Motor               |                     | DC Magnet Motor |
| Voltage (V)         |                     | 10.8            |
| Current (A)         |                     | 18              |
| Continuous Rating   | Input (W)           | 190             |
|                     | Output (W)          | 100             |
| Max.Output (W)      |                     | 115             |
| No Load Speed (rpm) |                     | 1,000           |
| Saw Blade           | Diameter (mm)       | 160             |
|                     | Arbor Diameter (mm) | 20              |
|                     | Thickness (mm)      | 1.45            |
| Cutting Capacity    | At right angle      | 0 - 55mm        |
|                     | At 45°              | 0 - 36mm        |

### ► Standard equipment

Spanner 22( for replacing the saw blade), Hex Wrench 5 (for replacing the saw blade and adjusting the riving knife), Spanner 9 (for adjusting the riving knife), Rip Fence (one piece)

### ► Optional accessories

Chip saw blade 160(for wood), Battery 1000

### ► Features and benefits

- (1) Riving Knife for prevention of kick back during the work.(In case of 5600RD, the action of riving knife does not synchronize with the action of cutting depth adjustment. Manual adjustment is required for setting the position of riving knife against saw blade.)
- (2) The NiCD.Battery with the long service life and less deterioration in voltage drop is used.
- (3) The lock lever for preventing accidental switching is built in, thereby the lock lever is automatically restored to lock the switch after switching off.
- (4) The chrome plated chip saw most suitable for the equipment capacity is employed to reduce the cutting resistance.
- (5) The best base is used to get the cutting depth for meeting the application need and to perform the angle cutting.
- (6) The clutch function for preventing the motor and battery from overload is mounted.
- (7) The rigid construction is made comprising the blade case made from aluminum die cast and the safety cover made of iron plate.

## ► Capacity

Cutting capacity (Capacity per charging one battery)

| Material to be cut   | Capacity per one full charged battery |                |         |
|--|---------------------------------------|----------------|---------|
|  | Cutting amount                        | Operating time | Current |
| <b>Square 45</b><br><b>(Japanese cedar) Carline</b>            | 270(pieces)                           | 19min.         | 19~25A  |
| <b>Thickness 9 x 100</b><br><b>(Japanese cedar) Noji plate</b> | 500(pieces)                           | 32mm.          | 10~13A  |
| <b>Thickness 12 x 145</b><br><b>(Pine tree) Noji plate</b>     | 240(pieces)                           | 25mm.          | 14~16A  |
| <b>Thickness 24 x 900</b><br><b>Veneer plywood</b>             | 13m                                   | 8min.          | 20~28A  |

Note)

1. Saw blade for cutting : Chip saw with 30-teeth (parts mounted on this equipment)
2. The values show the conditions when the saw blade is new, but their cutting capacities may vary depending on the cutting conditions of wood and saw blade.

## ► Comparison

| Manufacturer                                   |                      | Makita       | Competitor   | Competitor   | Remarks   |
|--|----------------------|--------------|--------------|--------------|---|
| MODEL  |                      | 5600RD       | A            | B            |   |
| Voltage(V)                                     |                      | DC 10.8      | 12           | 12           |   |
| Current(A)                                     |                      | DC 18        | 20           | 20           |   |
| Rated output (W)                               |                      | 100          | 160          | 120          | Measured value                                      |
| Max. output (W)                                |                      | 115          | 190          | 150          |   |
| Rotation(RPM)                                  |                      | 1000         | 3200         | 3000         |   |
| Saw blade                                      | Size(mm)             | ø160x1-45x20 | ø160x1.0x20  | ø140x1.6x20  |   |
|  | No. of teeth(pieces) | 30           | 28           | 40           |   |
| Cutting depth                                  | Right angle (mm)     | 0 ~55        | 3~55         | 3~47         |   |
|  | 45°(mm)              | 0 ~36        | Impossible   | Impossible   |   |
| Overload prevention clutch                     |                      | ○            | X            | X            | ○ Auto restore<br>△ Manual restore                  |
| Switch lock unit                               |                      | ○            | ○            | △            |   |
| Brake  |                      | X            | ○            | X            |   |
| Cutting capacity                               | Rafter 45            | 270(pieces)  | 170(160)     | 100(70)      | The values in ( ) show the ones in comparison test. |
|  | Japanese cedar       | 500(pieces)  | 340(360)     | 200(160)     |   |
|  | Pine tree            | 240(pieces)  | — (115)      | — (115)      |   |
| Battery  | Type                 | NiCd battery | Lead battery | Lead battery |   |
|  | Charging time(hr)    | 1            | 1            | 1            |   |
| Machine size(mm)<br>(Length)x(Width)x (Height) |                      | 257x174x222  | 214x195x172  | 211x194x198  | (Note 1)  |
| Weight including battery (kg)                  |                      | 3.8          | 3.6(3.8)     | 3.6(3.7)     | values in ( )<br>: measured ones                    |

(Note 1) For the height of HITACHI and MATSUSITA products, they show the distance from the bottom face of base to the top of handle. Based on this method, the height of MAKITA 5600D will be 161 mm.

## ► Repair

1. To repair, be sure to check that the battery has been taken away.
2. Main repairing points and tools necessary for repair

| Parts to be assembled/disassembled | Necessary tools                                    |
|------------------------------------|--|
| Saw blade                          | Box wrench and spanner 22<br>as standard equipment |
| Safety cover                       | Retaining ring plyer (Large)                       |
| Other cases like Bearing box etc.  | + Screwdriver                                      |
| Spindle                            | Bearing extacter<br>Retaining ring plyer(small)    |

3. Remove the set screw on the bearing box before disassembling the spindle from the bearing box.  
The set screw cannot be reused in assembling(since the adhesive is pasted.)  
Use the new set screw to fasten at 5~10 kg-cm torque.
4. Be sure to measure the inner diameter of retaining ring in assembling if you have disassembled the retaining ring(shaft)S-12 holding the thrust needle gauge 1224 of spindle.  
If the inner diameter is larger than  $\varnothing 11.4\text{mm}$ , replace it.