

TECHNICAL INFORMATION



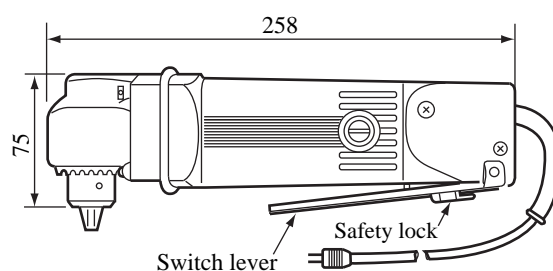
New Tool

Models No. ▶ DA3000

Description ▶ MAKITA 10mm Angle Drill

CONCEPTION AND MAIN APPLICATIONS

This is the 10 mm angle drill with its height made as low as possible and compact design to allow drilling in the limited space. The motor is contained in the plastic housing and equipped with the switch lever for easy switch operation.



[Outside drawing of the 10 mm angle drill unit]

► Specifications

Voltage	Current(A)	Frequency(Hz)	Continuous rating input(W)
Single phase 100Volts	3.2	50-60	300

Capacity(mm)	Steel	10
	Wood	15
No load speed (R.P.M.)		1400
Overall length (mm)		258
Net Weight (kg)		1.6
Power supply cord (m)		2.5

► Standard equipment

Complete drill chuck assembly S10 -----One piece

► Features and benefits

- (1) Its compact design with the front end height of 75 mm and width of 65 mm makes the model suitable for drilling operation in the limited space.
- (2) The equipped switch lever is easy to operate and has the safety lock for your safe-guard.
- (3) The weight is only 1.6 kg and the motor is contained in the plastic housing which is in shape easy to grip.
- (4) Its high torque can avoid slowing down in its rotation during drilling operation and allows you to use it efficiently.
- (5) It has the double insulation construction to avoid electric shock accidents.

The standard equipment for the tools shown may differ from country to country.

► Capacity

The table below shows the operating results of the drilling unit under the 100 V power with iron working drill and wood working drill.

1. Iron working

Material Drill diameter	Mild steel plate (A)	Angle steel 40x40x5 (A)	Aluminum plate (A)
6.5	2.3	2.2	2.2
10	2.8	2.7	2.7

*The above results were obtained with the gear housing pressed perpendicularly down against a drill tool with about 20 kg force.

2. Wood working

Material Drill diameter	Western hemlock (A)	Lauan (A)	New Zealand pine (A)
12	◎ 3	◎ 3	◎ 2.4
15	○ 4	◎ 3.1	◎ 2.8
18	△ 4.8	◎ 3.6	◎ 3.1

◎ -----Well drilled

○ -----Well drilled but overloaded

△ -----Motor much slowed down in rotation.

► Repair

(1) Disassembling of the front end part (gear unit)

- Remove the part (B) shown in the fig. on the right, and pull out the locking pins (2 pins) either by hitting the gear housing with a plastic hammer or by inserting a flat tip screw driver in the groove of the pin 4.
- The part (D) can be taken out by lightly hitting the gear housing with a plastic hammer.
- Use the arbor press to remove the gears as the gears are press-fitted.

(2) Assemble the part (D) into the gear housing, insert the pin 4 and lock the pin, and reverse the disassembling steps to assemble the drill unit again.

- Apply grease to the gears and machine oil to plain metal bearings.

(3) Replacement of the armature bearing

Pull the bearing out by prying it with two flat tip screw drivers as shown in the fig. on the right. Be careful not to bend the fan in pulling out the bearing.

