

For Models ▶ 6400D

Description ▶ Cordless Driver Drill

CONCEPTION AND MAIN APPLICATIONS

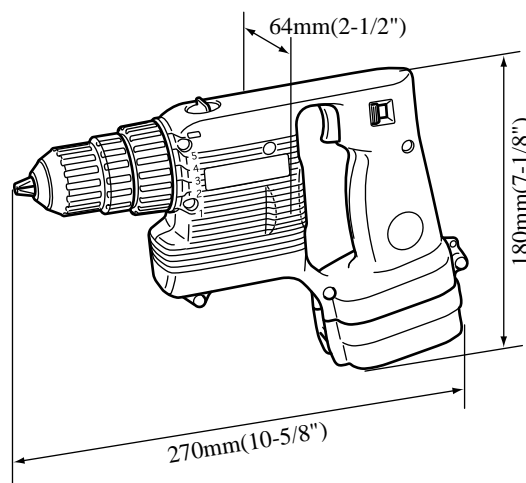
Cordless driver drill with D-shape handle , using Battery 9100.

Owing to Switch on the center of Drill chuck and well-balanced holding of Machine, minimum machine shaking (inclining) and good operativity have been achieved. More compact and lighter comparing to 6095D and 6200D.

6400D:W/ Battery, W/out Charger

6400DW:Combination model of 6400D with Quick charger DC9700.

6400DQ:Combination model of 6400D with Quick charger DC9015.



► Specifications

Motor		Direct current magnet motor RS550SH-7523
Battery (Battery 9100)		NiCad battery (9.6V, 1.2Ah)
Current		Direct current 9.6 V
Speed	High	0~1200 R/min
	Low	0~450 R/min
Chunk capacity		1.5~10mm
Drilling capacity	Iron works	10mm
	Wood works	18mm
Screwing capacity		5.5 x 55mm
Machine screw and Nut		6mm
Max. tighten torque	High speed	approx. 45kg.cm
	Low speed	approx. 100 kg.cm

► Standard equipment

⊕ Bit 2-65 ...1 pc

► Optional accessories

Battery9100, Drill 1.5,2,3,4,5,6 Auger 9,12,15

⊖Bit 5-45,5-82,6-70,,635-45,8-45,8-70

⊕Bit 1-65,2-45,2-65,2-82,2-110,2-150,3-45,3-65,3-110,

Buff 125, Abrasive disk 100-50,

Rubber pad assembly, Wool bonnet 100

Quick charger DC9700, 15-minute quick charger DC9015,

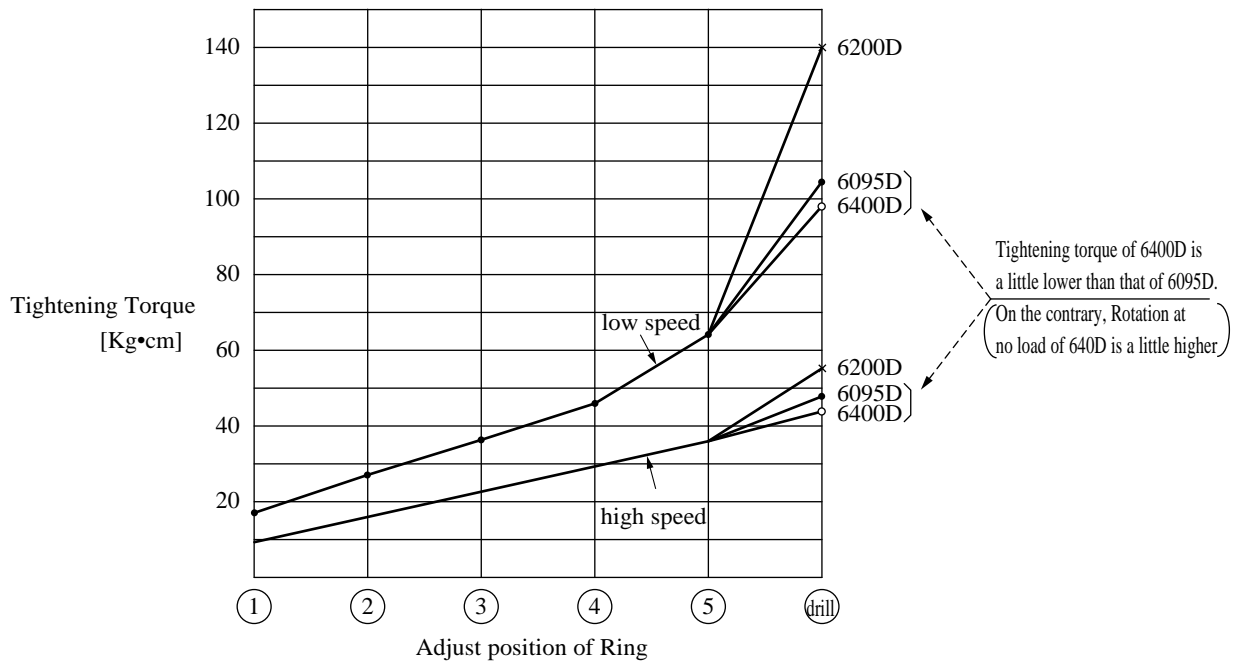
12-V quick charger for cars DC9012

► Feature and benefits

1. As Switch is on the center of Drill chuck and Machine body is compact enough to hold in good balance, the shaking(tilt) of the Body can be minimum and operativity is improved.
2. With a thin handle, a little lighter than 6095D/6200D.
3. Since Clutch mechanism is put in the front step of Output axis, you can adjust tightening strength at high/low speeds in 6 levels (total 12 levels).
4. Owing to Keyless chuck, you can remove/attach Bit without Chuck key and no trouble of losing it.
5. You can decide the positions of Wood screw or gimlet easily and select rotation suitable for operation because of stepless shift switch. Also, high power is performed even if low speed rotation, because Feedback circuit is installed inside.
6. With a Break, you can stop operation at a certain position for sure ,which is useful for screwing work too.
7. Motor protection mechanism is equipped for keeping Motor and Switch from overload.
8. Stored in a plastic case (Also used for 6400DW/6400DQ)

► Capacity

1. Adjusting position of Torque change ring and Reference values of Tightening torque (Clutch activated torque)



2. Reference value of Work efficiency (compare working time with similar products)

As you see the following table, 6400D is equivalent to 6095D in efficiency.

Rotation	Application		Model No.	6400D	6095D	6200D		
High speed	Iron works	Gimlet dia. 6.5mm Cold rolled steel plate 1.6mm thick		11 sec.	10 sec.	10 sec.		
	Wood works	Gimlet dia. 9mm Lauan 25mm thick		2.7 sec.	2.3 sec.	2.3 sec.		
Low speed	Wood works	Gimlet dia. 15mm Lauan 25mm thick		5.6 sec.	5.6 sec.	5.6 sec.		
	Wood screw	5.1mmx35mm Lauan		7.0 sec.	7.0 sec.	7.2 sec.		

3. Reference value of Workability (Numbers of drilling and screwing per charging)

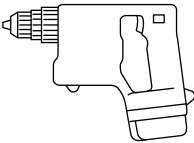
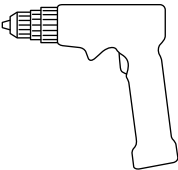
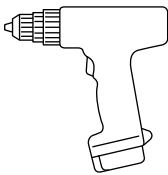
6400D is equivalent to 6095D in workability. The following table shows the reference values put in the handling manual of 9.6V battery driver drill.

	Drill diameter	Material	Board thickness	Drilling numbers
Iron works	1/8" 3mm	Cold rolled steel plate	1/16" 1.6mm	230 pcs
	1/4" 6.5mm			50 pcs
	1/8" 3mm	Aluminum plate	1/16" 1.6mm	750 pcs
	3/8" 10mm			120 pcs
Wood works	5/16" 9mm	Lauan	1" 25mm	350 pcs
	* 9/6" 15mm			100 pcs
	* 11/16" 18mm			60 pcs

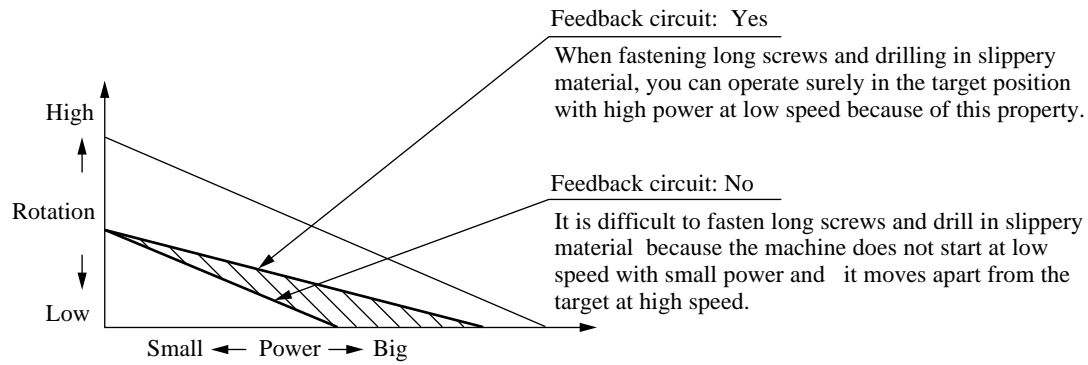
	Wood screw	Material	Tightening numbers
Wood screw	1/8" 13/16" 3.5mmx20mm	Lauan	500 pcs
	3/16" 13/16" 4.5mmx20mm		400 pcs
	*13/64" 13/8" 5.1mmx35mm		90 pcs
	*7/32" 2" 5.5mmx50mm		60 pcs

Note) Mark * in the table means working at low speed spec.

► **Comparison with other models**

Manufacturer		Makita				
Model No.	Machine body	6400D	6400D	6095D		
	15-min.charger w/case	6400DQ	6400DQ	6095DQ		
	1-hr.charger w/case	6400DW	6400DW	6095DW		
Voltage (V)		9.6	←	←		
Rotation (1 /min)	High speed	0~1,200	0~1,100	←		
	Low speed	0~450	0~400	←		
Capacity	Iron works	3/8" 10mm	←	←		
	Wood works	11/16" 18mm	←	←		
	Wood screw	7/32" 2 3/16" 5.5mmX55m	15/64" 2 3/16" 5.8mmX55m	←		
Torque adjusting		High/Low speed in 12 levels	←	←		
Clutch activated torque	High speed	0.7 1.2 1.6 2.0 2.6 [ft•lbs] 10 16 22 28 36 [kg•cm]	←	←		
	Low speed	1.3 2.0 2.6 3.4 4.6 [ft•lbs] 18 27 36 47 64 [kg•cm]	←	←		
Max. tightening torque	High speed	3.3[ft•lbs] 45[kg•cm]	3.5[ft•lbs] 48[kg•cm]	4.0[ft•lbs] 55[kg•cm]		
	Low speed	7.2[ft•lbs] 100[kg•cm]	7.6[ft•lbs] 105[kg•cm]	10.1[ft•lbs] 140[kg•cm]		
Motor protect mechanism		Yes (Hand return type, w/current relay)	Yes (Auto-return type, w/current relay)	No		
Electric break		Yes	←	←		
**Feedback circuit		Yes	No	No (till October, 1990) **Yes (since middle of November, 1990)		
Machine shape						
Machine size Length Width Height		270mm 10 5/8" 64mm 2-1/2" 180mm 7-1/8"	270mm 10 5/8" 64mm 2-1/4" 262mm 10-3/8"	250mm 9-2/8" 60mm 2-3/8" 245mm 9-5/8"		
weight		3.5lbs 1.6kg	3.7lbs 1.7kg	←		
Portable case	6400DQ } Common use 6400DW } plastic case	6095DQ;Plastic case 6095DW;Steel case	6200DQ;Plastic case 6200DW;Steel case			
Portable case	⊕ Bit2-65	⊕ Bit2-45	⊕ Bit2-65			
Remarks		6095DW can be stored in Plastic case for 6095DQ	6200DW can be stored in Plastic case for 6200DQ; Made common use with 6400D			

Difference in performance of Feedback Circuit



► **Repair**

No notes in disassembly and repair.

► **Circuit diagram**

