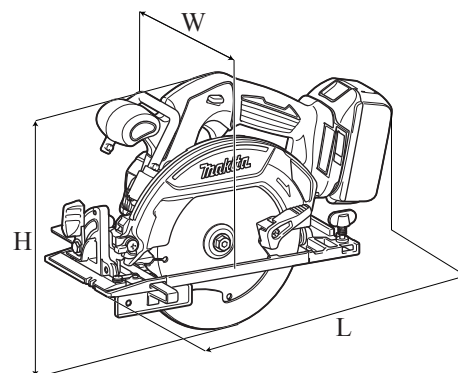


TECHNICAL INFORMATION

Models No. ▶ DHS680

Description ▶ 165mm (6-1/2") Cordless Circular Saw



CONCEPT AND MAIN APPLICATIONS

Model DHS680 is a 165mm (6-1/2") Cordless circular saw powered by 18V Li-ion battery.

Its main features are:

- High-efficiency Brushless motor to provide compact and lightweight design and high power.
- Lightweight design achieved by using durable but light magnesium die-cast for base, blade case and safety cover
- Automatic speed control: automatically changes the cutting speed according to load conditions.

Note: 1.3Ah Li-ion battery of BL1815 cannot be used for this model.

Dimensions: mm (")	
Length (L)	350 (13-3/4)*1 336 (13-1/4)*2
Width (W)	170 (6-11/16)
Height (H)	238 (9-3/8)

*1 With battery BL1830/ BL1840/ BL1850

*2 With battery BL1815N/ BL1820

► Specification

Specification		Model	DHS680
Battery	Voltage: V		18
	Capacity: Ah		1.5, 2.0, 3.0, 4.0, 5.0
	Energy capacity: W		27, 36, 54, 72, 90
	Cell		Li-ion
	Charging time (approx.): min.		15, 24, 22, 36, 45 with DC18RC
Max output (W)			680
No load speed: min. ⁻¹ = rpm			5,000
Blade size: mm (")	Diameter		165 (6-1/2)
	Hole diameter		All countries except North America: 20 (13/16) North America: 15.88 (5/8)
Max cutting capacities: mm (")	at 0°		57 (2-1/4)
	at 45°		41 (1-5/8)
	at 50°		37 (1-7/16)
Electronic current limiter for overload protection			Yes
Electric brake			Yes
Soft start			Yes
LED Job light			Yes
Weight according to EPTA-Procedure 01/2003*3: kg (lbs)			3.1 (6.8)*2 3.3 (7.3)*1

*3: With TCT saw blade

► Standard equipment

TCT saw blade	1	Dust nozzle	1	Battery	1 or 2*4
Hex wrench 5	1	(for European countries only)		Charger	1*4
Rip fence	1	Plastic carrying case	1	Battery cover	1*5

*4 Battery and charger are not supplied with "Z" model *5 Supplied with the same quantity of extra Battery

Note: The standard equipment may vary by country or model variation.

► Optional accessories

Guide rail adapter	Fast charger DC18RC	Four port multi charger DC18SF	Battery BL1830
Various TCT saw blades	Charger DC18SD	Two port multi fast charger DC18RD	Battery BL1840
Rip fences	Charger DC24SC	Battery BL1815N	Battery BL1850
Dust nozzle	Automotive charger DC18SE	Battery BL1820	

► **Features and benefits**

<p>High Power</p> <p>High-efficiency Brushless motor provides higher power and more work amount.</p>	<p>Automatic speed control</p> <p>automatically changes the cutting speed according to load conditions for an optimum operation:</p> <ul style="list-style-type: none"> • On light duty: high-speed rotation mode • On heavy duty: high torque mode 	<p>Compact and lightweight design</p> <p>achieved by:</p> <ul style="list-style-type: none"> • Downsized motor and better placement of parts • Using durable but light magnesium die-cast for Base, Blade case and Safety cover.
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Ergonomically designed handle with soft grip provides comfortable grip and more control while minimizing hand fatigue and pain. *

Compatible with the following Makita 18V Li-ion batteries: *

- 5.0Ah, Model BL1850
- 4.0Ah, Model BL1840
- 3.0Ah, Model BL1830
- 2.0Ah, Model BL1820
- 1.5Ah, Model BL1815N

Blower function blows sawdust off the cut line ahead for a better cutting view. *

Optional dust nozzle can be attached for use with a vacuum cleaner. (For European countries, this dust nozzle is supplied as a standard equipment.) *

Tool hanger

Electric Brake for Quick Stop *

Large lock-off lever easy-to-operate even with gloved hand *

Twin LED Job light brightly illuminates the blade and cut line for easy cutting of workpiece in the dark place. with preglow function *

Rear dust exhaust port exhausts sawdust backward only, preventing it from scattering around to provide comfortable operation. **

Bevel cuts up to 50 degrees **


LED indicator panel for 3 indications

(1) Battery fuel gauge
(active after the switch trigger has been released)
The power remaining in the battery can be indicated in 3 stages:


- 3 solid red LEDs: more than 50% of full battery capacity
- 2 solid red LEDs: 20% to 50% of full battery capacity
- 1 solid red LED : less than 20% of full battery capacity

(2) Indication of Automatic speed control
(active during operation)

- All LEDs off: high-speed rotation mode
- 1 solid green LED: high torque mode



Green LED



3 Red LEDs

Higher visibility of cutting depth
The scale of depth guide makes it easier to adjust cutting depth.

Larger base
The base size is larger than that of current model, which enables more stable operation, and guide rail can also be used.

* The same advantage as Model DSS610
** The same advantage as Model DSS611

► Comparison of products

Specification Comparison

Specification	Model No.		Makita				Milwaukee	DEWALT	HITACHI	BOSCH
	DHS680	DSS610	DSS611	DHS630	2730	DCS391				
Battery	Voltage: V	18	18	18	18	18	18	18	18	
	Capacity: Ah	1.5/ 2.0/ 3.0/ 4.0/ 5.0	1.5/ 2.0/ 3.0/ 4.0/ 5.0	1.5/ 2.0/ 3.0/ 4.0/ 5.0	1.5/ 2.0/ 3.0/ 4.0/ 5.0	4.0	4.0	3.0	3.0	
Saw blade	Energy capacity: Wh	27/ 36/ 54/ 72/ 90	27/ 36/ 54/ 72/ 90	27/ 36/ 54/ 72/ 90	27/ 36/ 54/ 72/ 90	72	72	54	54	
	Cell	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	
Saw blade	Charging time (approx.): min.	15/ 24/ 22/ 36/ 45 with DC18RC	15/ 24/ 22/ 36/ 45 with DC18RC	15/ 24/ 22/ 36/ 45 with DC18RC	15/ 24/ 22/ 36/ 45 with DC18RC	75	unknown	45	30	
	Type	TCT Saw blade	TCT Saw blade	TCT Saw blade	TCT Saw blade	TCT Saw blade	TCT Saw blade	TCT Saw blade	TCT Saw blade	
Saw blade	Number of teeth	24	24	16	16	24	16	24	18	
	Diameter: mm (")	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	165 (6-1/2)	
No load speed: min. ⁻¹ = rpm		5,000	3,700	3,100	3,100	5,000	3,700	3,400	3,900	
Bevel capacity: degree		0 - 50	0 - 50	0 - 45	0 - 45	0 - 50	0 - 50	0 - 45	0 - 50	
Cutting capacity: mm (")	at 0°	57 (2-1/4)	57 (2-1/4)	66 (2-5/8)	66 (2-5/8)	56 (2-3/16)	57 (2-1/4)	57 (2-1/4)	51 (2)	
	at 45°	41 (1-5/8)	40 (1-9/16)	46 (1-13/16)	46 (1-13/16)	41 (1-5/8)	41 (1-5/8)	40 (1-9/16)	40 (1-9/16)	
	at 50°	37 (1-7/16)	36 (1-7/16)	N/A	N/A	unknown	unknown	N/A	36 (1-7/16)	
Blade position		Left side	Left side	Right side	Right side	Left side	Left side	Left side	Left side	
Soft grip		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Electric brake		Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	
LED job light		Yes (Twin LED light)	Yes (Twin LED light)	No	Yes (Twin LED light)	Yes (Single LED light)	unknown	Yes (Single light bulb)	No	
Lock-off switch		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Blower function		Yes	Yes	No	Yes	Yes	No	No	No	
Material of Blade case		Magnesium die cast	Aluminum die cast	Magnesium die cast	Magnesium die cast	Magnesium die cast	Aluminum die cast	Magnesium die cast	unknown	
Material of Safety cover		Magnesium die cast	Plastic	Plastic	Plastic	Magnesium die cast	Plastic	Plastic	Plastic	
Material of Base plate		Magnesium die cast	Aluminum die cast	Aluminum die cast	Aluminum die cast	Magnesium die cast	Aluminum die cast	Steel plate	Aluminum die cast	
Tool hanger		Yes	No	No	No	Yes	No	No	No	
	Dimensions: mm (")	Length 336 (13-1/4)*1, 350 (13-3/4)*2	347 (13-5/8)	346 (13-5/8)	346 (13-5/8)	406 (16)	360 (14-1/8)	365 (14-3/8)	228 (9)	
Weight according to EPTA-Procedure 01/2003: kg(lbs)	Width	170 (6-11/16)	202 (8)	220 (8-5/8)	220 (8-5/8)	176 (6-15/16)	214 (8-3/7)	193 (7-5/8)	229 (9)	
	Height	238 (9-3/8)	228 (9)*2	247 (9-3/4)*2	247 (9-3/4)*2	259 (10-1/4)	240 (9-1/2)	249 (9-3/4)	340 (13-3/8)	
Weight according to EPTA-Procedure 01/2003: kg(lbs)		3.1(6.8)*1,*3	3.3 (7.3)*2	3.5 (7.7)*2	3.5 (7.7)*2	3.9 (8.5)	3.8 (8.4)	3.6 (7.9)	4.1 (9.0)	
		3.3 (7.3)*2,*3	3.3 (7.3)*2	3.5 (7.6)*2	3.5 (7.6)*2	3.9 (8.5)	3.8 (8.4)	3.6 (7.9)	4.1 (9.0)	

*1 With battery BL1815N/ BL1820

*2 With battery BL1830/ BL1840/ BL1850

*3 With TCT saw blade

▶ Comparison of products

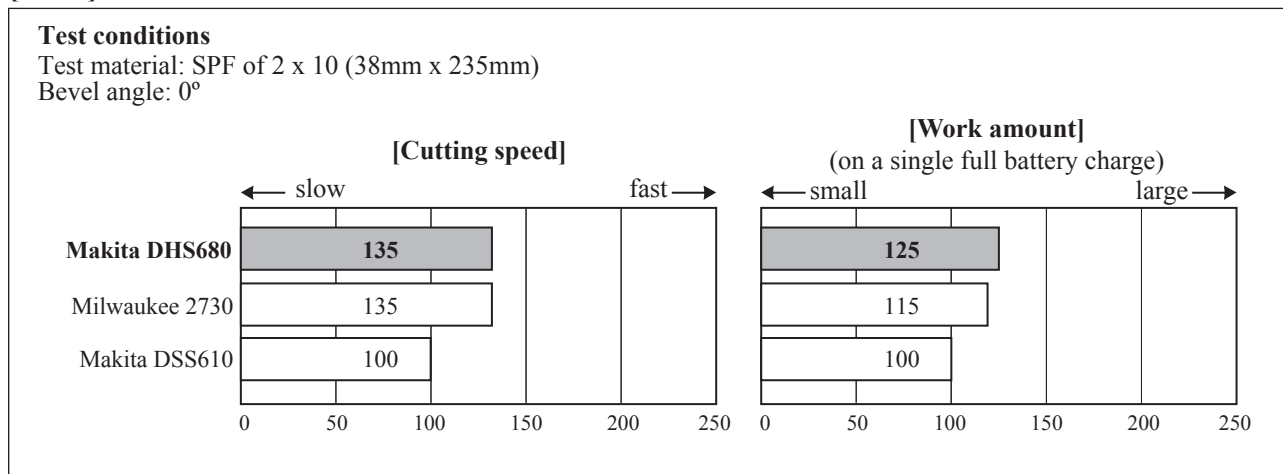
Performance Comparison

Note: 1. The test results depend to a great extent on the hardness of materials, etc.

2. The numbers in the charts below are relative values when the capacities of Makita DSS611 are indexed at 100.

Blade used for tests: Saw blade supplied with each model

[Test 1]



[Test 2]

