

TECHNICAL INFORMATION

Model No. ▶ BO6050

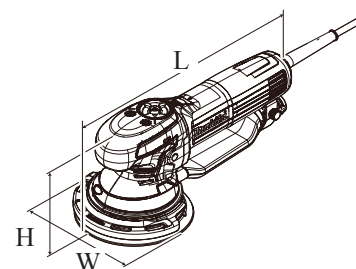
Description ▶ 150mm (6") Random Orbit Sander

CONCEPT AND MAIN APPLICATIONS

BO6050 is a 150mm (6") Random orbit sander developed as the successor to the current model BO6040.

The main features and benefits are:

- Excellent operability thanks to the following:
 - Toolless pad change
 - Ergonomically designed palm grip with Soft grip
 - Slim skirt
- Change lever protection system



Dimensions: mm (")	
Length (L)	330 (13)
Width (W)	155 (6-1/8)
Height (H)	145 (5-3/4)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max Output (W)
			Input	Output	
110	7.2	50/60	750	350	750
120	6.6	50/60	---	350	750
220	3.6	50/60	750	350	850
230	3.5	50/60	750	350	850
240	3.3	50/60	750	350	850

Specification	Model	BO6050
Orbits per minute: opm= min ⁻¹		1,600 - 6,800
Sanding strokes: spm= min ⁻¹		3,200 - 13,600
Pad speed in Roto-orbit mode: rpm= min ⁻¹		140 - 600
Paper fastening system		Hook & loop
Pad diameter: mm (")		ø150 (6)
Abrasive disc diameter: mm (")		ø150 (6)
Orbit diameter: mm (")		ø5.5 (7/32)
Pad brake		Yes
Variable speed control		Yes
Soft start		Yes
Constant speed control		Yes
Power supply cord: m (ft)		European countries: 4.0 (13.1), Australia, Brazil: 2.0 (6.6) Other countries: 2.5 (8.2)
Weight according to EPTA-Procedure 01/2003*1: kg (lbs)		2.6 (5.7)

*1 With Dust nozzle

► Standard equipment

Abrasive disc 150-120*2
Dust nozzle

Side grip
Pad protector
Plastic carrying case

*2 for some countries only

► Optional accessories

Abrasive discs 150-40/60/80/120/180/240/400
Pad 150 (Soft, hard, super soft)
Pad 130 (Polishing)

Wool pad
Felt pad
Front cuffs 24
Front cuffs 22

► **Features and benefits**

Ergonomically designed palm grip with Soft grip
fits your palm perfectly to provide maximum comfort and control especially in horizontal applications and chamfering, while minimizing hand fatigue and pain.

Constant speed control *
minimizes reduction in rotation speed under load, increasing operation efficiency.

Slim skirt
provides higher work efficiency in tight spaces (e.g. car door handle).

Toolless pad change
enables quick pad change to suit application.

Soft start *
minimizes start-up shock, and makes the tool start smoothly.

Two sanding modes *

- 1. Random orbit mode** for finish sanding and buffing: The motion of the pad is orbital action plus weak free-rotation, and can be stopped by exerting much hand pressure on the machine.
- 2. Roto-orbit mode** for coarse sanding and polishing: The motion of the pad is a combination of orbital action and aggressive forced rotation.

Change lever protection system
When the switch is slid to ON position, change lever is automatically locked for protection from damage caused by rotating armature.

Variable speed control dial *
located on the rear side for easier operation.

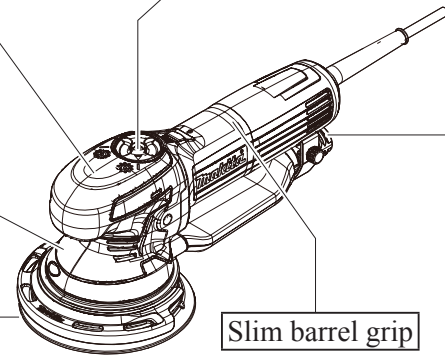
Connectable to Makita Vacuum cleaners *

New dust nozzle

- Located beneath the rear end of the machine to increase the maneuverability of the machine
- The outlet is corrugated to prevent Front cuffs 24 from slipping off.
- Can be easily installed/ removed thanks to the toolless mechanism.

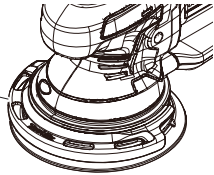
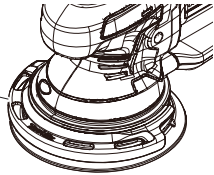
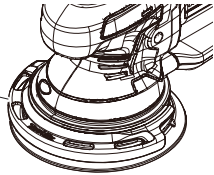
Improved dust extraction rate

- BO6050: 95%
- BO6040: 90%
- FESTOOL RO150FEQ: 95%



Side grip (Standard equipment) can be installed.

* The same advantage as Model BO6040

Optional accessories					
<ul style="list-style-type: none"> • Various discs and pads are available for a wide range of applications. • Pad protector is available to protect the machine, pad, disc and work surface from damage when sanding close to walls. 					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Various pads</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> <ul style="list-style-type: none"> • Pad 150 (Hard) (Blue) suitable for flat surface sanding and tight place sanding with the edge of the pad • Pad 150 (Soft) (Black) versatile and available for a wide range of applications from coarse to finish sanding regardless of whether the surface is flat or curved • Pad 150 (Super soft) (Gray) suitable for curved surface sanding but not for heavy-duty coarse sanding and sanding with the edge of the pad • Pad 130 (Polishing) (Green) suitable for polishing with felt or wool pad </td> </tr> </tbody> </table>	Various pads	<ul style="list-style-type: none"> • Pad 150 (Hard) (Blue) suitable for flat surface sanding and tight place sanding with the edge of the pad • Pad 150 (Soft) (Black) versatile and available for a wide range of applications from coarse to finish sanding regardless of whether the surface is flat or curved • Pad 150 (Super soft) (Gray) suitable for curved surface sanding but not for heavy-duty coarse sanding and sanding with the edge of the pad • Pad 130 (Polishing) (Green) suitable for polishing with felt or wool pad 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Pad protector</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> <p>prevents the pad rotating with orbital motion from touching the wall.</p> <div style="text-align: center; margin-top: 20px;">  </div> </td> </tr> </tbody> </table>	Pad protector	<p>prevents the pad rotating with orbital motion from touching the wall.</p> <div style="text-align: center; margin-top: 20px;">  </div>
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► Comparison of products

Specification Comparison

Specification	Model	Makita			FESTOOL
		BO6050	BO6040	BO5041	RO 150FEQ
Continuous rating input: W		750	750	300	720
Rated amperage for North America: A		6.6	6.6	3.0	6.0
Orbits per minute: opm= min ⁻¹		1,600-6,800	1,600-5,800	4,000-12,000	3,300-6,800
Sanding strokes: spm= min ⁻¹		3,200-13,600	3,200-11,600	8,000-24,000	6,600-13,600
Pad speed in Roto-orbit mode: rpm= min ⁻¹		140-600	180-670	N/A	320-660
Orbit diameter: mm (")		5.5 (7/32)	5.5 (7/32)	2.8 (1/8)	5.0 (3/16)
Vibration level: m/s ²		5.0	5.0	3.5	4.0
Noise level: dB(A)		82	78	81	82
Two sanding modes		Yes	Yes	No	Yes
Abrasive disc diameter: mm (")		150 (6)	150 (6)	125 (4-7/8)	150 (6)
Pad diameter: mm (")		150 (6)	150 (6)	123 (4-7/8)	150 (6)
Toolless pad change		Yes	No	No	Yes
Paper fastening system		Hook & loop	Hook & loop	Hook & loop	Hook & loop
Pad protector		Yes	No	No	Yes
Variable speed control		Yes (by dial)	Yes (by dial)	Yes (by dial)	Yes (by dial)
Electronic control		Yes	Yes	No	Yes
Soft start		Yes	Yes	No	Yes
Connectable to vacuum cleaner		Yes (With front cuffs 24)	Yes	Yes	Yes
Power supply cord: m (ft)		2.5 (8.2)*	2.5 (8.2)*	2.0 (6.6)	4.0 (13.1)
Circumference at the grip portion: mm (")		198 (7-3/4)	206 (8-1/8)	N/A	200 (7-7/8)
Dimensions: mm (")	Length	330 (13)	337 (13-1/4)	218 (8-5/8)	320 (12-5/8)
	Width	155 (6-1/8)	150 (5-7/8)	123 (4-7/8)	155 (6-1/8)
	Height	145 (5-3/4)	132 (5-3/16)	153 (6)	147 (5-3/4)
Weight according to EPTA-Procedure 01/2003: kg (lbs)		2.6 (5.7)	2.8 (6.2)	1.4 (3.1)	2.3 (5.1)

*1 It may vary by country.

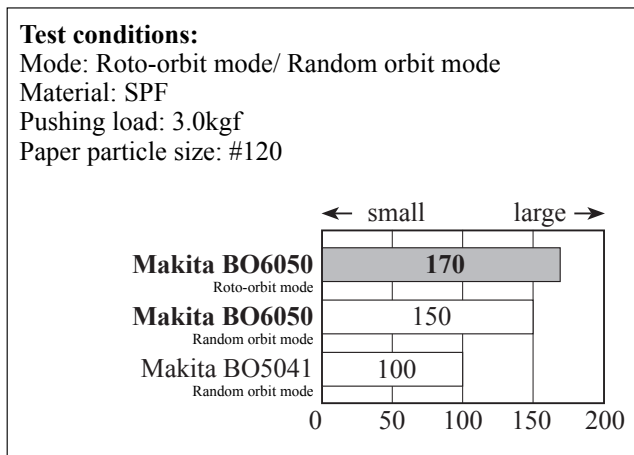
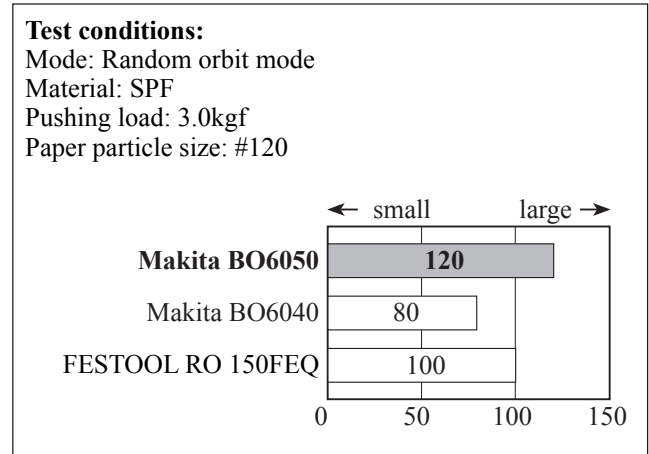
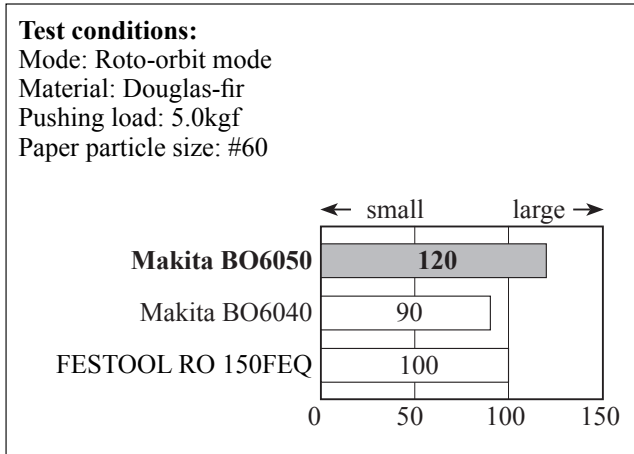
► **Comparison of products (cont.)**

Performance Comparison

[1] Wood sanding performance

Models tested: Makita BO6050, BO6040, BO5041, FESTOOL RO 150FEQ

- Note:** 1. Numbers in the charts below are relative values when the capacities of Makita BO5041 or FESTOOL RO 150FEQ are indexed at 100.
 2. The test results depend to a great extent on the hardness of materials, etc.
 3. The test results are the amount of the material removed for 15 minutes.



► **Comparison of products (cont.)**

Performance Comparison

[2] Dust extraction rate

Models tested: Makita BO6050, BO6040, BO5041, FESTOOL RO 150FEQ

- Note:** 1. The three models were tested by using a vacuum cleaner and measured the dust extraction rate.
 2. The test results depend to a great extent on the hardness of materials, etc.

