

An Affordable, Efficient and Precise Dry Milling Solution

DWX-52Di *Plus*

5-Axis Dry Dental Mill



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Specifications

Milable material*1		Zirconia, Wax, PMMA, Composite resin, PEEK, PEKK, Gypsum, Glass fiber reinforced resin, CoCr sinter metal, Polycarbonate
Loadable workpiece shape	Disc type	Step section: 98.5 mm (3.88 in.) (diameter), height 10 mm (0.39 in.) Body section: 95 mm (3.47 in.) (diameter), height max. 60 mm (2.36 in.)
	Pin type	Pin diameter: 6 mm (0.24 in.) *The optional pin-type material adapter ZV-52D is required.
Operating speed		XYZ: 6 to 1,800 mm/min (0.24 to 70.9 in./min.)
Spindle motor		Brushless DC motor
Spindle rotating speed		6,000 to 30,000 rpm
Rotary axis travel angle		A: ±360°, B: ±30°
Number of milling burs housed		15
Attachable milling bur		Shank diameter: 4 mm (0.16 in.), length: 40 to 55 mm (1.57 to 2.17 in.)
Compatible compressed air		0.02 to 0.2 MPa
Interface		USB
Control command sets		RML-1, NC code
Power requirements		100 to 240 VAC ± 10%, 50/60 Hz (overvoltage category II, IEC 60684-1), 2.0 A
Power consumption		Approx. 200 W
Operating noise		During operation: 70 dB (A) or less (when not cutting) During standby: 45dB (A) or less
External dimensions		Width × depth × height: 495 × 660 × 600 mm (19.5 × 26.0 × 23.6 in.)
Weight		67 kg (148 lb.)
Installation environment		Indoor use at altitudes up to 2,000 m (6561.68 feet) Temperature: 5 to 40°C, humidity: 35 to 80 % (no condensation) Ambient pollution degree: 2 (as specified by IEC 60684-1) Short-term temporary overvoltage: 1,440 V, long-term temporary overvoltage: 490 V
Included items		Power cord, USB cable, manual, DGS SHAPE Software Package CD, detection pin, automatic correction jig, hexagonal screwdrivers, spanner (for clamp), spanner (for spindle), milling bur holders, milling bur positioner, dust collection hoses, dust collection hose adapter, regulator, air hose, collet mounting jig, brush, etc.

System Requirements

Operating system (OS)	Windows 11 (64-bit version), Windows 10 (32-bit and 64-bit versions)
CPU	Minimum required CPU for the operating system
Memory	Minimum amount of required RAM for the operating system
Optical drive	CD-ROM drive
Video card and monitor	A monitor with at least 256 colors and a resolution of 1024 × 768 or more is recommended.

Accessories

DLC-coated milling burs	ZPB-100D	R1.0 mm (ø2 mm)	Zirconia, Wax, PMMA, PEEK, PEKK, Gypsum, CoCr sinter metal, Polycarbonate
	ZPB-50D	R0.5 mm (ø1 mm)	
	ZPB-30D	R0.3 mm (ø0.6 mm)	
Diamond-coated milling burs	ZDB-100D	R1.0 mm (ø2 mm)	Composite resin, Glass fiber reinforced resin
	ZDB-50D	R0.5 mm (ø1 mm)	
	ZDB-30D	R0.3 mm (ø0.6 mm)	
Milling burs	ZCB-100D	R1.0 mm (ø2 mm)	Zirconia, Wax, PMMA, PEEK, PEKK, Gypsum, CoCr sinter metal
	ZCB-50D	R0.5 mm (ø1 mm)	
	ZCB-40D	R0.4 mm (ø0.8 mm)	
Special three-layer-coated milling burs	ZRB-200D	R2 mm (ø4 mm)	PMMA, Polycarbonate for Denture
	ZRB-150D	R1.5 mm (ø3 mm)	
Pin-type material adapter	ZV-52D	Pin-type material adapter for replacement	
Milling bur holder	ZBH-52D	Milling bur holder for replacement	
Spindle unit	ZS-52D	Spindle unit for replacement	
Collet	ZC-52D	Collet for replacement	
Spindle belt	ZSB-180	Spindle belt for replacement	

*1 Even when made from the described materials, some workpieces cannot be milled due to specifications or physical properties.
For more information, contact your authorized Roland DG Corporation dealer.

AUTHORIZED DEALER:

Exceptional Service and Support for Seamless Business Operation

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