



5-Axis Dental Mill
DWX-52Di Plus

Precision Performance and Efficiency Expert

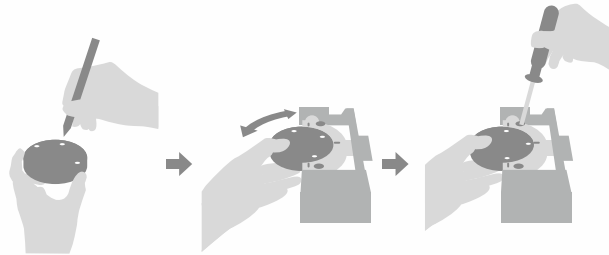
Introducing the New DWX-52Di 5-Axis Dental Mill for Maximum Efficiency and Production

When designing this new model of the industry's best-selling series of dental mill, it was important to keep everything users love. Then make it even better. Capable of producing a wide range of restorations, including crowns, copings, bridges, inlays and onlays, veneers, abutments, implant bars, screw-retained crowns, the DWX-52Di 5-Axis dental mill offers a high reliable, precise, easy-to-use and affordable solution. New features include upgrade C-type clamp, improved tool management and other enhanced capabilities to make your lab more efficient and productive.

DWX-52Di Plus

New C-type Clamping System

The new C-type clamp system for 98.5mm discs offers fast and secure set-up of zirconia, wax, PMMA, gypsum, PEEK, glass fiber-reinforced resin, composite resin and CoCr sinter metal materials. The new C-type clamp enables greater material utilization.

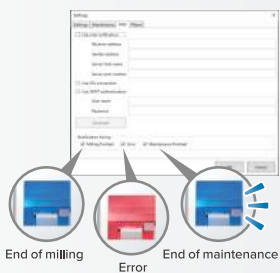


15-Station Automatic Tool Changer (ATC)

The DWX-52Di provides continuous, unattended milling with a 15-station Automatic Tool Changer (ATC) and includes dedicated slot for an included cleaning tool. Now you can load the included cleaning tool into the ATC and set it up to automatically sweep away zirconia powder and other material dust for a cleaner milling surface.

User-friendly Design

A user-friendly Virtual Machine Panel (VPanel) enables convenient production and device monitoring from computer. Email notifications keep you informed of operational status, including milling and maintenance completion, or any errors in order to minimize down time.



More Comprehensive Solution

The DWX-52Di 5-Axis dental mill can produce a wide range of restorations, including crowns, copings, bridges, inlays and onlays, veneers, abutments, implant bars, screw-retained crowns.



Precision 5-Axis Milling

The DWX-52Di simultaneously rotates and tilts discs for deep undercuts and milling large arch applications and other full-mouth restorations with ease.

Intelligent Tool Control

VPanel operation has been upgraded to include an Intelligent Tool Control function that intuitively swaps out tools from their stocker position when they have reached their user-defined lifespan with a designated replacement tool without needing to pause production.

Comprehensive Support Network

In addition to online or telephone assistance, DGSHAPE also offers educational seminars aimed at increasing customers' familiarity and confidence with products and services. Service engineers are also available worldwide to assist customers with any questions they may have.





5-Axis Dental Mill *DWX-52Di Plus*

Specifications	
Millable material	Zirconia, Wax, PMMA, Composite resin, PEEK, Gypsum, Glass fiber reinforced resin, CoCr sinter metal
Loadable workpiece shape	Disc-type (with step) Step section: 98.5 mm (3.88 in.) (diameter), height 10 mm (0.39 in.) Body section: 95 mm (3.74 in.) (diameter), height max. 60 mm (2.36 in.)
Operating speed	XYZ axis: 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
Control command set	RML-1, NC code
Interface	USB
Power requirements	AC 100 V to 240 V ±10 %, 50/60 Hz (overvoltage category II, IEC60664-1), 2.0 A
Power consumption	Approx. 200 W
Operating noise	During operation: 70 dB (A) or less (when not cutting), During standby: 45 dB (A) or less
External dimensions	Width × Depth × Height: 495 × 660 × 600 mm (19.5 × 26.0 × 23.6 in.)
Weight	67 kg (147.7 lbs.)
Installation environment	Indoor use, Altitude: Up to 2,000 m (6,562 ft.), Temperature: 5 to 40 °C (41 to 104 °F), Humidity: 35 to 80 % (no condensation), Ambient pollution degree: 2 (as specified by IEC 60664-1), Short-term temporary overvoltage: 1,440 V, Long-term temporary overvoltage: 490 V
Included items	Power cord, USB cable, Manuals, DGSHAPE Software Package CD, Detection pin, Automatic correction jig, Material Adapters, Material Adapter Rack, Pin-type material adapter, Hexagonal driver, Spanner (for clamp), Spanner (for spindle), Milling bur holders, Milling bur positioner, Cleaning tool, Option adapter ID labels, Dust collection hoses, Dust collection hose adapter, Regulator, Cleaning brush, etc

System requirements for USB connection	
Operating system	Windows® 10, 8.1, 7 (32-bit or 64-bit) or an upgraded computer originally preinstalled with Windows 7 or later
USB cable	Use the included USB cable

Options			
Item	Model	Description	
Milling burs	ZDB-100D	R1.0 mm	Diamond Composite resin, Glass fiber reinforced resin
	ZDB-50D	R0.5 mm	
	ZDB-30D	R0.3 mm	
	ZCB-100D	R1.0 mm	Non coating Zirconia, Wax, PMMA, PEEK, Gypsum, CoCr sinter metal
	ZCB-50D	R0.5 mm	
	ZCB-40D	R0.4 mm	
Cleaning tool	ZCT-4D	Cleaning tool for replacement (for DWX-52DCi/DWX-52DC/DWX-52Di/DWX-52D)	
Milling bur holder	ZBH-4D	Milling bur holder for replacement (for DWX-52DCi/DWX-52DC/DWX-52Di/DWX-52D/51D/50/4)	
Spindle unit	ZS-4D	Spindle unit for replacement (for DWX-52DCi/DWX-52DC/DWX-52Di/DWX-52D/51D/4)	
Collet	ZC-4D	Collet for replacement (for DWX-52DCi/DWX-52DC/DWX-52Di/DWX-52D/51D/50/4)	
Spindle belt	ZSB-170	Spindle belt for replacement (for DWX-52DCi/DWX-52DC/DWX-52Di/DWX-52D/51D)	

The DGSHAPE Promise

DGSHAPE is the name of the new business that inherited 30 years of innovative 3D technologies of Roland DG from which it was spun off. The DGSHAPE core mission – “make innovation, make life better” -- is focused on delivering digital technologies that bring ideas to life, revolutionize business processes, and shape a better future. Our objective is to fuse human creativity with digital workflows to provide exceptional value across multiple endeavors, from individual craftsmanship to manufacturing, healthcare and beyond.

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