



5-Axis Dental Mill
DWX-52Di



Specifications		
Millable material	Zirconia, Wax, PMMA, Composite resin, PEEK, PEKK, Gypsum, Glass fiber reinforced resin, CoCr sinter metal, Polycarbonate	
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, Hexagonal driver, Spanner (for clamp), Spanner (for spindle), Milling bur holders, Milling bur positioner, Cleaning tool, 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 upgradedcomputer originally preinstalled with Windows 7 or later
USB cable	Use the included USB cable

Options				
Item	Model	Description		
Milling burs	ZPB-100D	R1.0 mm	DLC coating	Zirconia, Wax, PMMA, PEEK, PEKK, Gypsum, CoCr sinter metal, Polycarbonate
	ZPB-50D	R0.5 mm		
	ZPB-30D	R0.3 mm		
	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		
	ZRB-150D	R1.5 mm	Special three-layer coating	Milling bur for CA-DK1/CA-DK2 (for DWX-52DCi/DWX-52DC/DWX-52D), PMMA, Polycarbonate
Pin-type material adapter	ZV-52D	Pin-type material jig for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
	ZMA-52DC-6	Material adaptor for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
	ZMA2-52D	Open edge adapter for replacement (for DWX-52D)		
	ZCT-4D	Cleaning tool for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
	ZBH-52D	Milling bur holder for replacement (for DWX-52DCi/DWX-52D)		
	ZS-52D	Spindle unit for replacement (for DWX-52DCi/DWX-52D)		
	ZC-52D	Collet for replacement (for DWX-52DCi/DWX-52D)		
	ZSB-180	Spindle belt for replacement (for DWX-52DCi/DWX-52D)		
Material adapters rack	ZR-52D	Material adapters rack for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		

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.

DGSHAPE reserves the right to make changes in specifications, materials or accessories without notice. Actual device output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your DGSHAPE dealer for details. No guarantee or warranty is implied other than that expressly stated. DGSHAPE shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. All trademarks are the property of their respective owners. Three-dimensional data files may be protected under copyright. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. DGSHAPE Corporation has licensed the MMP technology from the TPL Group.



AUTHORIZED DEALER:

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www.dgshape.com



5-Axis Dental Mill

DWX-52Di

Precision Performer 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.

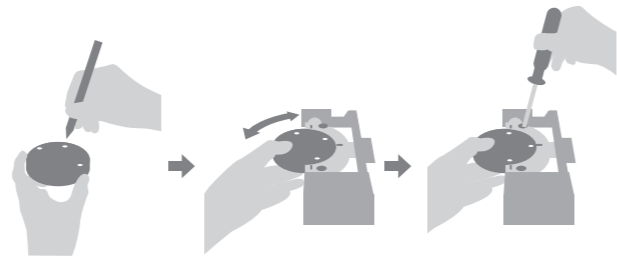
DWX-52Di

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.

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, PEKK, glass fiber-reinforced resin, composite resin, CoCr sinter metal and polycarbonate materials. The new C-type clamp enables greater material utilization.



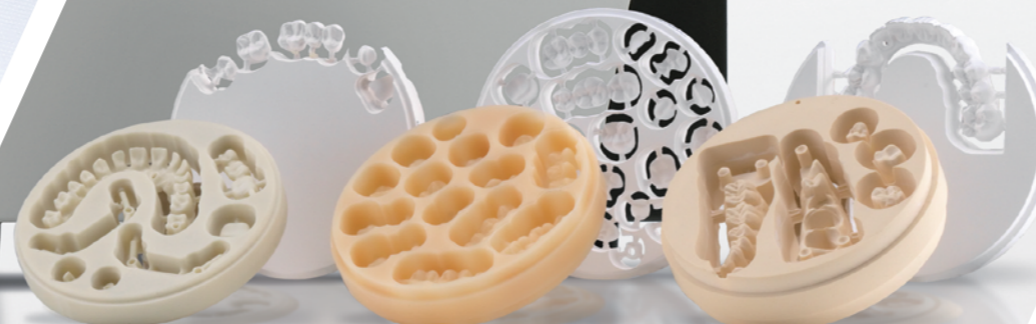
User-friendly Design

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, DGS SHAPE 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.