



5-Axis Dental Mill

***DWX-52D***

# Get in shape. Think smart. Mill in-house.

## Introducing the DWX-52D 5-Axis Dental Mill for Maximum Efficiency and Precision

The DWX-52D 5-axis dental mill offers a highly reliable, precise, easy-to-use and affordable solution. Produce a wide range of restorations, including crowns, copings, bridges, inlays and onlays, veneers, abutments, implant bars, screw-retained crowns, digital dentures, models, surgical guides and bite splints. Includes upgraded disc handling, increased material compatibility, improved tool management and other enhanced capabilities to make your lab more efficient and productive.

# DWX-52D

## New Clamping System

A new snap-on clamp system with six included adapters for 98.5mm discs offers fast and secure set-up of zirconia, wax, PMMA, gypsum, PEEK, glass fibre-reinforced resin, composite resin and CoCr sinter metal materials.

Disc material adapters maintain the original point-of-origin when milling reinserted discs. Nest your restorations even tighter to maximise material usage and reduce unit costs. A pin-type material adapter enables setting up and milling of eight pin-type blocks consecutively.






## 15-Station Automatic Tool Changer (ATC)

The DWX-52D provides continuous, unattended milling with a 15-station Automatic Tool Changer (ATC) which has a dedicated slot for an included cleaning tool. Load the 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 your computer. Email notifications keep you informed of operational status, including milling and maintenance completion, or any errors in order to minimise down time.



## Adapter Rack for Increased Efficiency

Six adapters for 98.5mm material discs are included as standard with the DWX-52D, allowing you to queue up multiple milling jobs for efficient job management.



## Precision 5-Axis Milling

The DWX-52D 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 includes an Intelligent Tool Control function that intuitively swaps out tools from their stocker position when they have reached their user-defined lifespan 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.





# DWX-52D

Specifications		
Cuttable material	Zirconia, Wax, PMMA, Composite resin, PEEK, Gypsum, Glass fibre re-inforced 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.)
	Pin-type	Pin diameter: 6 mm (0.24 in.)
Operating speed	XYZ axis: 6 to 1800 mm/min. (0.24 to 70.9 in./min.)	
Spindle motor	Brushless DC Motor	
Spindle rotating speed	6000 to 30000 rpm	
Rotary axis travel angle	A: $\pm 360^\circ$ , B: $\pm 30^\circ$	
Number of burs housed	15	
Attachable bur	Shank diameter: 4 mm, Length: 40 to 55 mm (1.57 to 2.17 in.)	
Compatible compressed air	0.02 to 0.2 Mpa	
Interface	USB	
Power requirements	AC 100 V to 240 V $\pm 10\%$ , 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	495 (W) $\times$ 660 (D) $\times$ 600 (H) mm (19.5 $\times$ 26 $\times$ 23.6 in.) (additional 150 mm depth required for extraction pipe)	
Weight	67 kg (147.7 lb)	
Installation environment	Indoor use, Altitude: Up to 2000 m (6562 ft), Temperature: 5 to 40 $^\circ\text{C}$ (41 to 104 $^\circ\text{F}$ ), Humidity: 35 to 80 % (no condensation), Ambient pollution degree: 2 (as specified by IEC 60664-1), Short-term temporary overvoltage: 1440 V, Long-term temporary overvoltage: 490 V	
Included items	Power cable, USB cable, Manuals, DGS SHAPE Software Package CD, Detection pin, Automatic correction jig, Material Adapter, 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 <sup>®</sup> 10, 8.1, 7 (32 or 64 bit) or an upgraded computer originally pre-installed with Windows 7 or later
USB cable	Use the included USB cable

Options					
Item	Model	Description			
Milling burs	ZDB-100D	R1 mm ( $\varnothing$ 2 mm)	Diamond	Composite resin, Glass fibre-reinforced resin, high translucent Zirconia	
	ZDB-50D	R0.5 mm ( $\varnothing$ 1 mm)			
	ZDB-30D	R0.3 mm ( $\varnothing$ 0.6 mm)			
		ZCB-100D	R1 mm ( $\varnothing$ 2 mm)	Non-coating	Zirconia, Wax, PMMA, PEEK, Gypsum, CoCr sinter metal
		ZCB-50D	R0.5 mm ( $\varnothing$ 1 mm)		
		ZCB-40D	R0.4 mm ( $\varnothing$ 0.8 mm)		
		ZRB-100D	R1 mm ( $\varnothing$ 2 mm)		
Pin-type material adapter	ZV-52D	Replacement pin-type material jig (for DWX-52DCi/DWX-52DC/DWX-52D)			
Material adapter	ZMA-52DC	Replacement material adapter (for DWX-52DCi/DWX-52DC/DWX-52D)			
Cleaning tool	ZCT-4D	Replacement cleaning tool (for DWX-52DCi/DWX-52DC/DWX-52D)			
Milling bur holder	ZBH-4D	Replacement milling bur holder (for DWX-DCi/DWX-52DC/DWX-52D/51D/50/4)			
Spindle unit	ZS-4D	Replacement spindle unit (for DWX-52DCi/DWX-52DC/DWX-52D/51D/4)			
Collet	ZC-4D	Replacement collet (for DWX-52DCi/DWX-52DC/DWX-52D/51D/50/4)			
Spindle belt	ZSB-170	Replacement spindle belt (for DWX-52DCi/DWX-52DC/DWX-52D/51D)			
Material adapters rack	ZR-52D	Replacement material adapters rack (for DWX-52DCi/DWX-52DC/DWX-52D)			
Time reduction kit	CA-MK1	Time reduction kit for model milling (for DWX-52DCi/DWX-52DC/DWX-52D)			
	CA-DK1	Time reduction kit for denture base milling (for DWX-52DCi/DWX-52DC/DWX-52D)			
Options for time reduction kit	CA-52DC	Replacement material adapter of time reduction kit (for DWX-52DCi/DWX-52DC/DWX-52D)			
	CA-DK1-FX	Replacement fixture for CA-DK1 (for DWX-52DCi/DWX-52DC/DWX-52D)			

Specifications, designs and dimensions listed may be subject to change without notice.

## The DGS SHAPE Promise

DGS SHAPE 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 DGS SHAPE core mission - "make innovation, make life better" - is focused on delivering digital technologies that bring ideas to life, revolutionise business processes, and shape a better future. Our objective is to fuse human creativity with digital workflows to provide exceptional value across multiple endeavours, from individual craftsmanship to manufacturing, healthcare and beyond.

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