



5-Axis Dental Mill with Disc Changer

***DWX-52DCi***



# The ultimate in 24-hour productivity

## Introducing the DWX-52DCi 5-Axis Dental Mill with Performance Monitoring Software

The DWX-52DCi 5-axis dental mill with Automatic Disc Changer expands your lab production and profits with open architecture, material flexibility, unattended production, and new DWINDEX software for visualising ROI and productivity at a glance. With a 6-slot Automatic Disc Changer, 15-station Automatic Tool Changer and other automated features, it offers the ultimate in 24-hour productivity for users of all skill levels. Capable of producing 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, the DWX-52DCi provides an exceptionally powerful, efficient, affordable - and intelligent - dental restoration solution.

# DWX-52DCi

### Increased productivity and maximum versatility

Increase productivity overnight and during the weekends with a dental mill that continues working, even when your office is closed. A snap-on clamp system for the Automatic Disc Changer enables loading of up to six 98.5mm discs for continuous milling of multiple jobs in zirconia, Wax, PMMA, composite resin, PEEK, gypsum, CoCr sinter metal and glass fibre-reinforced resin. Additionally, a pin-type material adapter facilitates setting up and milling of up to eight pin-type blocks consecutively.

### DWINDEX Software Monitors Your Milling Performance

The DWX-52DCi features new DWINDEX software to monitor milling operations and help you determine ROI so you can better plan, identify and manage machine productivity and lab profitability.

DWINDEX monitors:

- operation time per tool
- operation time per disc
- operation time of the unit (day/week/month)
- error log
- materials used
- history of deliverables.



### Reliable, Unattended Milling

Load the 15-station Automatic Tool Changer (ATC) with a variety of coated and uncoated tools to continuously mill jobs in different materials and multiple shades of zirconia or pin-type blocks without stopping production.

### Precision 5-Axis Milling

A smooth and steady ball screw-driven system offers exceptionally precise results. The DWX-52DCi simultaneously rotates and tilts discs for deep undercuts and milling large arch applications and other full-mouth restorations with ease.



### Comprehensive Support Network

A comprehensive support network provides customers with peace of mind when using DGS SHAPE products. 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.





# DWX-52DCi

Specifications		
Cuttible material	Zirconia, Wax, PMMA, Composite resin, PEEK, Gypsum, Glass fibre-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 35 mm (1.38 in.)
	Pin-type	Pin diameter: 6 mm (0.24 in.)
Loadable workpiece weight	850 g or less	
Number of loadable adapters	6	
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 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 $\pm 10\%$ , 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	880 (W) $\times$ 660 (D) $\times$ 600 (H) mm (34.7 $\times$ 26 $\times$ 23.6 in.) (additional 150 mm depth required for extraction pipe)	
Weight	105 kg (231.5 lb)	
Installation environment	Indoor use, Altitude: Up to 2000 m (6562 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: 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 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 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)	Milling bur for CA-MK1 (for DWX-52DCi/DWX-52DC/DWX-52D)	
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.

Roland Care Warranty	
	Enjoy the peace of mind of having one of the most comprehensive warranty packages in the industry, included with the DWX-52DCi.

## 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.

DGS SHAPE 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 DGS SHAPE dealer for details. No guarantee or warranty is implied other than that expressly stated. DGS SHAPE 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. DGS SHAPE Corporation has licensed the MMP technology from the TPL Group.



AUTHORISED DEALER:

DGS SHAPE is the new name for Roland Easy Shape

[www.rolanddg.co.uk](http://www.rolanddg.co.uk)