



5-Axis Dental Mill with Disc Changer **DWX-52DCi**

DWINDEX 1



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. 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 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: 880 × 660 × 600 mm (34.7 × 26.0 × 23.6 in.)
Weight	105 kg (231.5 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, DGS SHAPE Software Package CD, Detection pin, Automatic correction jig, Material Adapters, 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-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 Zirconia, Wax, PMMA, PEEK, Gypsum, CoCr sinter metal
	ZDB-50D	R0.5 mm		
	ZDB-30D	R0.3 mm		
	ZCB-100D	R1.0 mm	Non coating	
	ZCB-50D	R0.5 mm		
	ZCB-40D	R0.4 mm		
	ZRB-100D	R1.0 mm	Milling bur for CA-MK1 (for DWX-52DCi/DWX-52DC/DWX-52D)	
Pin-type material adapter	ZV-52D	Pin-type material jig for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Material adapter	ZMA-52DC	Material adaptor for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Cleaning tool	ZCT-4D	Cleaning tool for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Milling bur holder	ZBH-4D	Milling bur holder for replacement (for DWX-52DCi/DWX-52DC/DWX-52D/51D/50/4)		
Spindle unit	ZS-4D	Spindle unit for replacement (for DWX-52DCi/DWX-52DC/DWX-52D/51D/4)		
Collet	ZC-4D	Collet for replacement (for DWX-52DCi/DWX-52DC/DWX-52D/51D/50/4)		
Spindle belt	ZSB-170	Spindle belt for replacement (for DWX-52DCi/DWX-52DC/DWX-52D/51D)		
Material adapters rack	ZR-52D	Material adapters rack for replacement (for DWX-52DCi/DWX-52DC/ DWX-52D)		
Time reduction kit	CA-MK1	Time reduction kit for casted model (for DWX-52DCi/DWX-52DC/ DWX-52D)		
	CA-DK1	Time reduction kit for casted denture base (for DWX-52DCi/DWX-52DC/DWX-52D)		
Options for Time reduction kit	CA-52DC	Material adapter for time reduction kit for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
	CA-DK1-FX	Fixture for CA-DK1 for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		

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, 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.

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.



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DWX-52DCi



AUTHORIZED DEALER:

Printed in Japan. RDG-416110899 DEC C-3 D-S

www.dgshape.com

by Roland

Transform Your Business

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

The DWX-52DCi 5-Axis Dental Mill with Disc Changer expands your lab production and profits with open architecture, material flexibility, unattended production, and now with new DWINDEX software for visualizing 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

The Ultimate in 24-Hour Productivity

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



DWINDEX Software Helps You Run Your Business Smarter

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 the following:

- Operation time per tool
- Operation time per disc
- Operation time of the unit (day/week/month)
- Error log
- Materials used
- History of deliverables



DWINDEX 1



Reliable, Unattended Milling

You can load the 15-station Automatic Tool Changer (ATC) with a variety of diamond coated, carbide and DGSHAPE hybrid 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 DGSHAPE products. 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.