



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 | | |
| 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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5-Axis Dental Mill with Disc Changer

DWX-52DCi

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



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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.