5-Axis Dental Mill with Disc Changer

DWX-52DCi Plus

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 x Depth x Height: 880 x 660 x 600 mm (34.7 x 26.0 x 23.6 in.)	
Weight	105 kg (231.5 lbs.)	
Installation environment	Indoor useAltitude: 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, 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 upgradedcomputer originally preinstalled with Windows 7 or later
USB cable	Use the included USB cable

Options

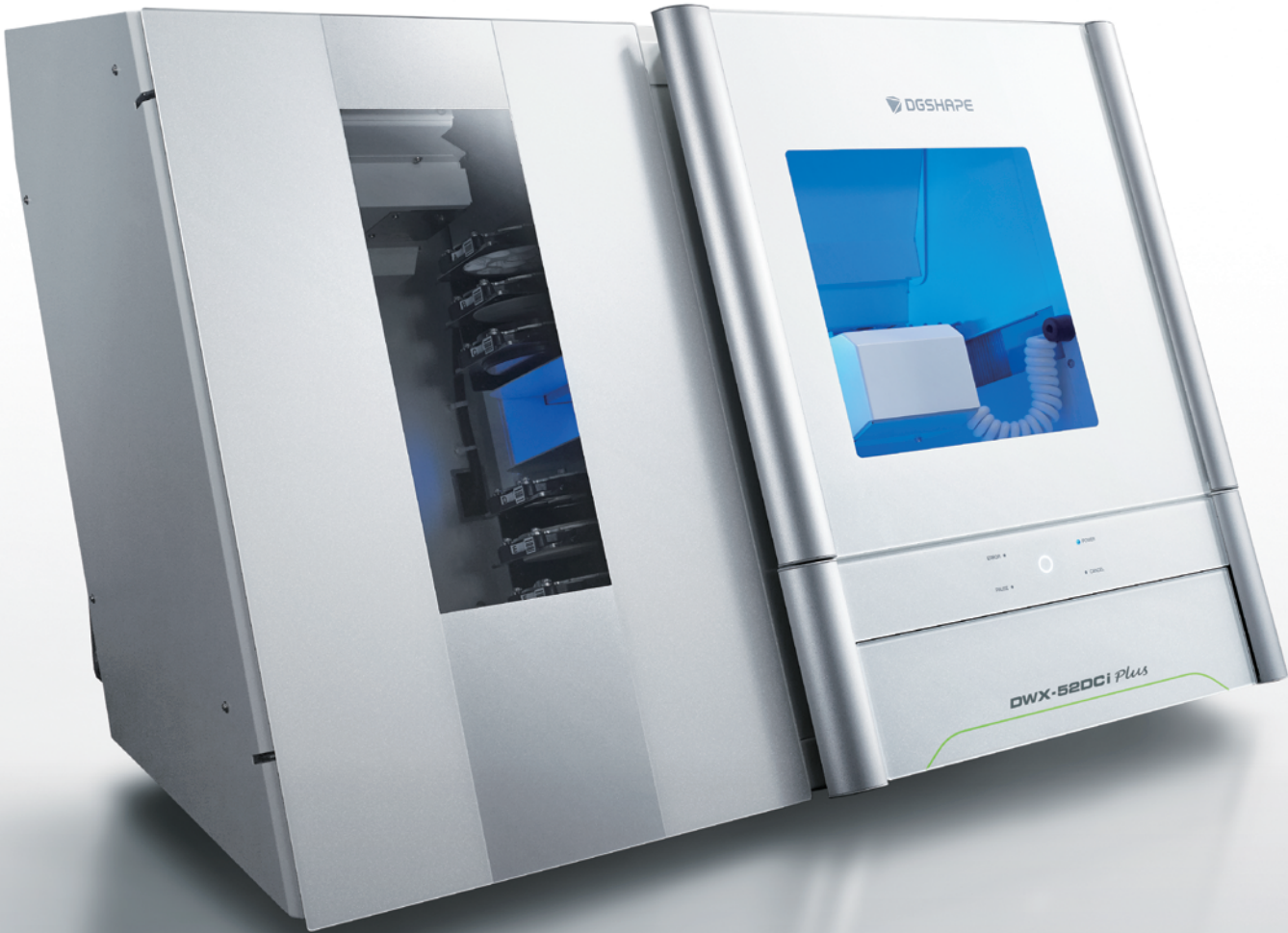| Item	Model	Description		
Milling burs	ZPB-100D	R1.0 mm	DLC coating	Zirconia, Wax, PMMA, PEEK, PEKK, Gypsum, CoCr sinter metal, Polycarbonate
	ZPB-50D	R0.5 mm		
	ZPB-30D	R0.3 mm		
	ZDB-100D	R1.0 mm	Diamond	Composite resin, Glass fiber reinforced resin
	ZDB-50D	R0.5 mm		
	ZDB-30D	R0.3 mm		
	ZCB-100D	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
	ZRB-200D	R2.0 mm	Special three-layer coating	PMMA, Polycarbonate
Pin-type material adapter	ZV-52D	Pin-type material jig for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Material adapter	ZMA-52DC-6	Material adaptor for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Open-edge adapter	ZMA2-52D	Open edge adapter for replacement (for DWX-52D)		
Cleaning tool	ZCT-4D	Cleaning tool for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Milling bur holder	ZBH-52D	Milling bur holder for replacement (for DWX-52DCi/DWX-52D)		
Spindle unit	ZS-52D	Spindle unit for replacement (for DWX-52DCi/DWX-52D)		
Collet	ZC-52D	Collet for replacement (for DWX-52DCi/DWX-52D		
Spindle belt	ZSB-180	Spindle belt for replacement (for DWX-52DCi/DWX-52D)		
Material adapters rack	ZR-53DC	Material adapters rack for replacement (for DWX-52DCi/DWX-52DC/DWX-52D)		
Denture kit 1	CA-DK1	Denture kit 1 for casted denture base (for DWX-53DC/DWX-52DCi/DWX-52DC/DWX-52D)		
Option for CA-DK1	CA-DK1-FX	Fixture for CA-DK1 for replacement (for DWX-53DC/DWX-52DCi/DWX-52DC/DWX-52D)		

DGSHAPE A Roland DG Company

Roland DG has been at the forefront of advanced machine manufacturing for over 35 years, providing practical and reliable technology with unmatched service and support. DGSHAPE further delivers on this reliability promise but also improves user experience, making it incredibly easy for labs and clinics to produce high quality, cost-effective dental prosthetics while improving workflow efficiencies.

AUTHORIZED DEALER:

DGS0061B '24SEP Z-0 D-Z

5-Axis Dental Mill with Disc Changer

DWX-52DCi Plus

Transform Your Business

DWX-52DCi Plus

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

The DWX-52DCi Plus 5-Axis Dental Mill with Disc Changer expands your lab production and profits with open architecture, material flexibility, unattended production, and now with the "DGSHAPE CLOUD," cloud-based software for remotely monitoring and tracking productivity and maintenance history. 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 Plus provides an exceptionally powerful, efficient, affordable - and intelligent - dental restoration solution.

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.
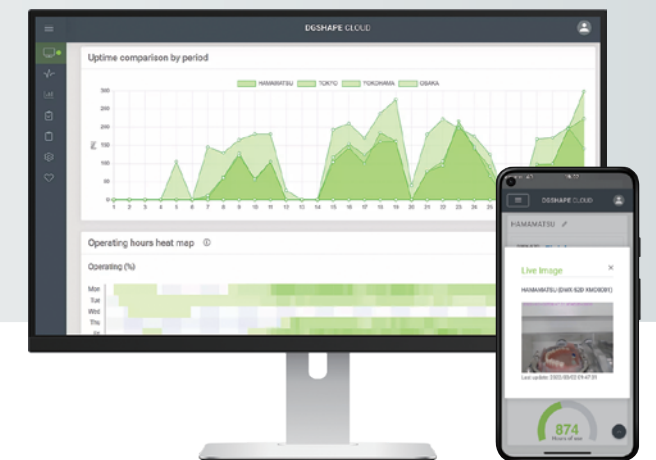
DGSHAPE CLOUD
Helps You Run Your Dental Business Smarter

The DWX-52DCi Plus features new cloud-based software to monitor milling operation and help you keep your device optimized and ready for use. You can cancel a job and start the next one remotely when a simple technical error happens.

DGSHAPE CLOUD visualizes the following:
· Periodized production data per application/material
· Machine Status
· Live image of milling*
· Recorded video when an error occurs*
· Job History
· Maintenance Schedule
· Maintenance History

*An USB camera must be purchased separately and attached to your device to see the live image and recorded video.
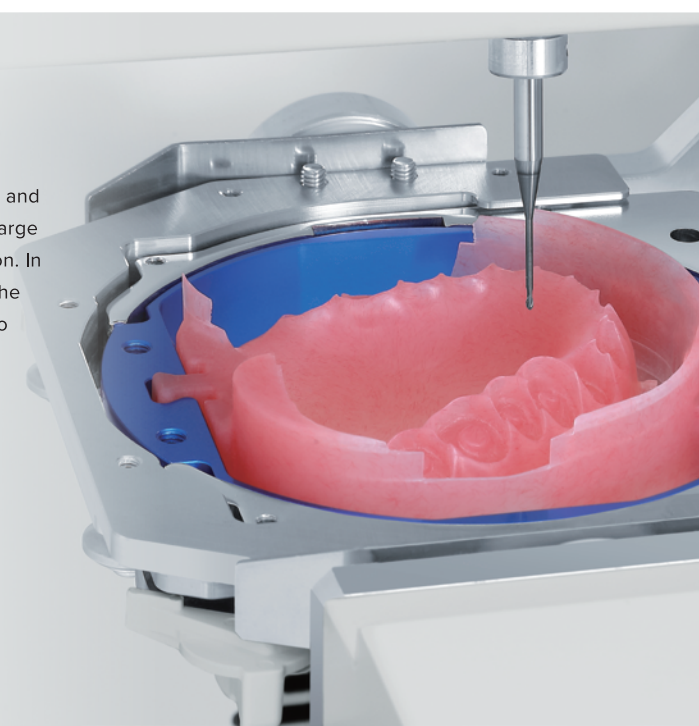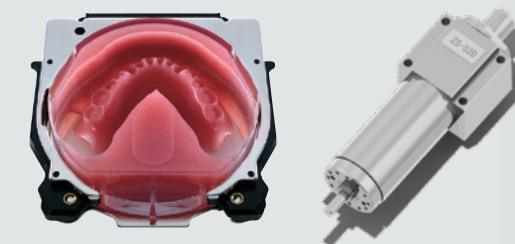
Reliable, Unattended Milling

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.

Advanced PMMA Milling

The DWX-52DCi Plus saves you time in producing PMMA applications. Its re-engineered spindle easily holds 3.0 mm and 4.0 mm milling burs. New CAM strategies* combined with large burs shorten the roughing process and speed up production. In addition, the DWX-52DCi Plus's stronger spindle reduces the amount of friction generated while milling, allowing users to increase its feed rate and speed rate.

*The CAM software must be updated to use the new CAM strategies.

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.