



DWX-52DC



Specifications	
Cuttable material	Zirconia, Wax, PMMA, Composite resin, PEEK, Gypsum, Fiber reinforced resin, CoCr sinter metal
Loadable workpiece shape	Step section: 98.5 mm (diameter), height 10 mm Body section: 95 mm (diameter), height max. 35 mm Pin diameter: 6 mm
Loadable workpiece weight	Up to 850 g
Number of adapters housed	6
Operating speed	XYZ axis: 6 to 1,800 mm/min. (0.24 to 70.9 in./min.)
Spindle motor	Brushless DC Motor
Spindle speed	6,000 to 30,000 rpm
Rotary axis travel angle	A: ±360°, B: ±30°
Number of burs housed	15
Attachable bur	Shank diameter: 4 mm, Length: 40 to 55 mm
Compatible compressed air	0.2 MPa
Interface	USB
Control command set	RML-1, NC code
Power requirements	AC 100 V to 240 V ±10 %, 50/60 Hz, 2.0 A (overvoltage category II, IEC60664-1)
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 (34.6 × 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, Power plug adapter, USB cable, Manuals, Roland DG Software Package CD, Detection pin, Automatic correction jig, Pin-type material adapter, Hexagonal driver, Spanner, Milling bur holders, Milling bur positioner, Dust collection hoses, Dust collection hose adapter, Regulator, Cleaning tool, Option adapter labels, Material adapters

System requirements for USB connection	
Operating system	Windows® 7/8/8.1/10 (32 or 64 bit)
USB cable	Use the included USB cable

Options				
Item	Model	Description		
Milling burs	ZDB-100D	R1.0 mm	Diamond	Composite resin, Fiber reinforced resin
	ZDB-50D	R0.5 mm		
	ZDB-30D	R0.3 mm		
	ZCB-100D	R1.0 mm	N/A	Zirconia, Wax, PMMA, PEEK, Gypsum, CoCr sinter metal
	ZCB-50D	R0.5 mm		
	ZCB-40D	R0.4 mm		
Pin-type material adapter	ZV-52DC	Pin-type material jig for replacement (for DWX-52DC)		
Material adapter	ZMA-52DC	Material adaptor for replacement (for DWX-52DC)		
Cleaning tool	ZCT-4D	Cleaning tool for replacement (for DWX-52DC)		
Milling bur holder	ZBH-4D	Milling bur holder for replacement (for DWX-52DC/51D/50/4)		
Spindle unit	ZS-4D	Spindle unit for replacement (for DWX-52DC/51D/50/4)		
Collet	ZC-4D	Collet for replacement (for DWX-52DC/51D/50/4)		
Spindle belt	ZSB-170	Spindle belt for replacement (for DWX-52DC/51D)		

The DGS SHAPE Brand Promise

DGS SHAPE is the brand name of the 3D business unit spun off from Roland DG with the core mission: "make innovation, make life better." DGS SHAPE delivers digital technologies that bring ideas to life, revolutionize business processes, and shape a better future. Our goal is to fuse human creativity with digital workflows to provide exceptional value across multiple endeavors, from individual craftsmanship to manufacturing, healthcare and beyond.

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5-Axis Dental Mill with Disc Changer

DWX-52DC



AUTHORIZED DEALER:

Printed in Japan. RDG-416108699 17 FEB C-3 D-S

www.rolanddg.com

by Roland

POWER IT ON, LET IT GO

Automated Dental Milling, Day and Night

The DWX-52DC Dental Mill with Disc Changer is the newest addition to the popular DWX series of 5-Axis Dental Milling Machines. With a combination of automated functions designed to help reduce manual work, production of dental restorations is now even more efficient and reliable. The DWX-52DC's open architecture means it can be used with the CAD/CAM software that your technicians are already familiar with in order to cut learning time and create the optimum workflow for your production environment. The DWX-52DC provides an efficient digital solution for both dental laboratories seeking to boost production capabilities, as well as labs looking to expand into the digital realm.

DWX-52DC

Increased productivity due to expanded capacity

Automatic Disc Changer (ADC)

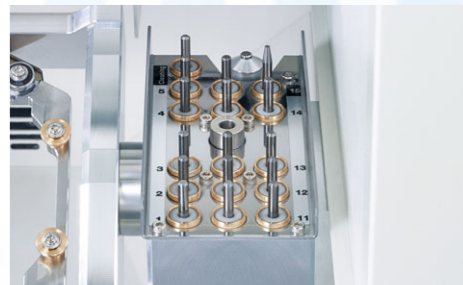
The DWX-52DC comes equipped with an Automatic Disc Changer (ADC) capable of storing up to six discs for continuous milling of a variety of dental restoration shades. The disc changer and milling chamber are completely separate, allowing discs to be replaced during milling. Automated operation in combination with the increased capacity allow unattended milling overnight.

*The included Pin-type Material Adapter enables setting up and milling seven pin-type materials consecutively.



Automatic Tool Changer (ATC)

To minimize preparation work and time, the DWX-52DC is equipped with an Automatic Tool Changer (ATC) that automatically replaces milling burs. Up to 15 milling burs can be set up in the magazine for efficient milling of a wide range of materials, including zirconia, wax, PMMA, composite resin, PEEK, gypsum, CoCr sinter metal and fiber-reinforced resin.



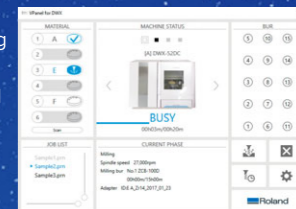
High quality, precision milling

A rigid body frame and the use of ball screws enable smooth, continuous operation resulting in high-quality dental restorations. The DWX-52DC calibrates the five axes automatically prior to milling. An airflow system assists in keeping the work area clean, and an air pressure system has been added to automatically change the volume of air for the type of material being milled.



User-friendly design

The DWX-52DC includes the industry-acclaimed, user-friendly Virtual Machine Panel (VPanel), which can control up to four machines from a single computer to boost production capacity. The VPanel monitors milling bur life and alerts users when burs need to be replaced. A new cleaning function has been added to help reduce post-production work by removing dust from the surface of milled materials like zirconia.



Comprehensive support network

A comprehensive support network provides customers with peace of mind when using Roland DG products. In addition to online or telephone assistance, Roland DG 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.

