

DWX-4

Compact Dental Mill



Roland DWX-4.
Small footprint, big opportunity.



Roland DWX-4. Dental Milling Machine.

Roland is leading the digital dental revolution.

Today, digital dental technologies are transforming every aspect of the dental industry. The days of tedious, manual production of crowns, copings and bridges are fast disappearing. The latest technological advancements in scanning, CAD/CAM software and

CNC milling allow digital dental labs to deliver custom production with speed and precision. Better fit and aesthetics promote patient satisfaction, while labs enjoy greater productivity with faster turnaround and optimal accuracy and repeatability.



Small footprint, big results.

The Roland DWX-4 is the most compact and user-friendly dental milling machine available. Like the DWX-50, it is capable of milling a wide variety of materials with reliable precision. Now, you can produce dental prosthetics with consistent accuracy at a very affordable price.



Built for any size lab.

With its small footprint and entry-level price, the DWX-4 is ideal for labs not yet using digital tools, or for those labs with scanners who no longer wish to outsource production. It's also perfect for labs needing a second device for urgent jobs that don't tie up their larger production mills. You can economically mill a single crown or small bridge quickly and easily.

A wide variety of materials.

The DWX-4 is equipped to mill standard blocks and pin-type materials, including wax, PMMA and zirconia.



Powerful yet easy to use.

The DWX-4 combines simultaneous 4-axis milling with simple one-button operation. An automated tool changer provides two tools for precision milling from start to unattended finish. Monitoring production is enhanced by the large viewing area and LED-lit interior. A status light alerts the operator of any errors or malfunction to help prevent wasted time and materials and enabling lab technicians to carry out the milling process with confidence.



Economical open architecture.

Open architecture allows the DWX-4 to work with the latest materials and CAD/CAM software so you're never limited by older technology. If you already have a production solution, the DWX-4 works seamlessly with your existing scanner, oven and compatible CAD/CAM software while eliminating the need to rely on a single source for materials. Compatible with RML-1 and NC code, the DWX-4 interfaces with your computer through a USB 1.1 connector.



Virtual Machine Panel.

Unlike traditional CNC mills, Roland has replaced the complex controls with a user-friendly Virtual Machine Panel (VPanel) which operates machine diagnostics and the calibration and milling processes right from your computer desktop. The VPanel also tracks overall machine time for maintenance purposes.

The ionizer is always active during milling process.



ionizer off.



ionizer on.

Clean cutting area for precision milling.

The DWX-4 is equipped with an integrated air blower that prevents excessive dust buildup and a negative ion generator that neutralizes static electricity when milling PMMA. Adding to peace of mind, the DWX-4 includes a dust collection system and sensor that prevents the machine from starting if the vacuum is inadvertently left off.

Growth potential.

Highly scalable, the DWX-4 offers multicast capability that allows you to connect up to four Roland machines to one computer, making it easier than ever for dental labs to expand their business and increase their production capacity.

The DWX-4 dental milling machine lets labs control the entire process in-house with a single software seat, minimizing your investment in time and money.



Backed by Roland.

Roland dental milling machines combine superior performance with legendary reliability. Tens of thousands of Roland users in more than 133 countries rely on Roland's unmatched customer service and support. As a company, Roland DG's ISO 9001:2008 and 14001 certifications assure consistent quality in manufacturing.

As further proof of our unmatched reliability, Roland offers a one-year warranty for the DWX-4.

DWX-4 DENTAL MILL

- Capable of unattended 4-axis milling with simple one-button operation
- Precision milling of wax, zirconia and PMMA
- Clamping system securely holds standard block, pin-type and L-shape materials
- Automatic tool changer with two tools for unattended milling
- Diagnostic notification system alerts user of machine status
- Integrated air blower prevents excessive dust buildup
- Negative ion generator neutralizes static electricity when milling PMMA
- Multicast capability allows connecting up to four Roland machines to one computer
- Open architecture works seamlessly with your existing scanner, oven and CAD/CAM software while eliminating the need to rely on a single source for materials
- CAM software included
- One year warranty



Included CAM Software :

The DWX-4 comes bundled with an open-architecture CAM software that accepts all STL file types. This easy-to-use software features a user-friendly interface and simple workflow for a short learning curve. Users can choose from a range of materials in various sizes. Automatic nesting and placement options help maximize efficiency. Pre-defined milling strategies allow jobs to be sent directly from the software to the mill with no interruption during tool path calculation. Supports customizable reports.

Specifications	
Cuttable Material	Zirconia (pre-sintered), Wax, PMMA
Loadable workpiece shape	Block
	PIN type
	Width x Depth: 76x38, Height: 16 to 22 mm
	Width x Depth x Height: Maximum 85 x 40 x 22 mm
Operating speed	XYZ axis: 6 to 1800 mm/min. (0.24 to 70.8 in./min.)
Spindle motor	Brushless DC motor
Spindle speed	6,000 to 30,000 rpm
Rotary axis travel angle	A: $\pm 360^\circ$
Number of tools housed	2
Attachable tool	Shank diameter: 4 mm, Length: 40 to 55 mm
Compatible compressed air	0.02 to 0.2 MPa
Interface	USB (compliant with Universal Serial Bus Specification Revision 1.1)
Control command set	RML-1, NC code
Power requirements	AC100 to 240 V $\pm 10\%$, 50/60 Hz, 0.8 to 0.4 A (overvoltage category II, IEC 60664-1)
Power consumption	Approx. 70 W
Operating noise	During operation: 70 dB (A) or less (when not cutting) During standby: 40 dB (A) or less
External dimensions	Width x Depth x Height: 340x365x405 mm (13.4x14.4x16.0 in.)
Weight	22 kg (48.5 lbs)
Installation Environment	Indoor Use, altitude: up to 2000 m Temperature: 5 to 40 °C (41 to 104 °F) Relative 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 cord, USB cable, Manual, Software Package CD-ROM, Detection pin, Automatic correction jig, Clamp for block workpiece, Hexagonal screwdriver, spanner, Tool holder, Tool positioner, Dust collection hose, Regulator, etc.
System Requirements for USB Connection	Computer
	USB cable
	Model preinstalled with the 32- or 64-bit edition of Windows XP, Vista, 7, 8 or upgraded computer originally preinstalled with Windows XP or later
	Use the included USB cable



Easy Shape
The Roland Easy Shape logo symbolizes the Company's philosophy in the dental industry. High-level products, first quality materials, and sophisticated, cutting-edge technologies combine to create the finest dental milling devices and precision results for your lab.



Roland DG Eco Label
Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit www.rolanddg.com.

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