DWX-70WD

5-Axis Wet / Dry Dental Mill

Product Specifications

Product model		DWX-70WD
Millable materials*1		Titanium alloy, Cobalt-chromium alloy, Glass ceramics, Cobalt-chromium sinter metal, Glass-fiber-reinforced resin, Zirconia, Wax, PMMA, Composite resin, PEEK, PEKK
Loadable workpiece shape	Disc-type workpiece	Step section : φ98.5 mm (diameter), 10 ± 0.3 mm (height) Body section : φ95 mm (diameter), 35 mm max (height)
	Pin-type workpiece	Pin diameter : 6 mm Number of loadable workpieces : 6
Loadable workpiece weight		~ 1,650 g (Co-Cr Φ98.5 t = 25 8.5 g/cm3)
Number of loadable adapters		1
Operating speed		XYZ : ～ 6,000 mm/min A : 15 rpm B : 7.5 rpm
Spindle		Rotating speed : 10,000 to 60,000 rpm Output :1.6kW (peak power), 650W (rated power)
Rotary axis travel angle		A : ±360°
Number of milling burs housed		15 (+1dummy pin)
Attachable milling bur		Shank diameter : φ6 mm length : max 75 mm (collet gripping margin : 17 mm)
Interface		LAN (/USB)
Panel		15 inches
Coolant pump		1.8 L/min
Coolant tank		5 L
Control command sets		RML-1, NC code
Power requirements		100 to 240 VAC ± 10%, 50/60 Hz (overvoltage category : II, IEC 60664-1), 4A
Power consumption		350W
Operating noise		During operation : 70 dB (A) or less (when not cutting) During standby : 45 dB (A) or less
External dimensions		720 mm (W) × 785 mm (D) × 1,785 mm (H)
Weight		460 kg
Installation environment		Indoor use at altitudes up to 2,000 m Temperature : 15 to 28°C Humidity : 35 to 65% (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, regulator (+ drain hose, holder), air hose, standard disc adapter × 3 (automatic correction axis is attached to one of the adapters), automatic correction jig, detection pin, collet attaching / detaching jig, brush, set screw, torque driver, dust collector adapter, maintenance kit (cleaner, brush), coolant tank, coolant filter, measuring cup, cleaning tray, cleaning spatula, mesh filter for milling area

Optional Items

Pin-type material adapter	ZV-70	Pin-type material adapter that can hold up to 6 blocks
Custom abutment adapter	AK-70-DE	DESS
	AK-70-GE	GeoMedi
	AK-70-ME	MEDENTiKA
	AK-70-NT	NT Dental
Disc-type material adapter	ZMA-70	Additional / replacement set (3 pcs)
Collet	ZC-70	Replacement collet
Milling bur magazine	ZM-70	Additional / replacement milling bur magazine
Adapter rack	ZR-70	Adapter rack for up to 8 adapters

Milling Burs

Milling burs	ZMB-150D-L	R1.5 mm (φ3mm)	Titanium alloy
	ZMB-150D-M	R1.5 mm (φ3 mm)	
	ZMB-150D-S	R1.5 mm (φ3 mm)	
	ZMR-150D-L	R1.5 mm (φ3 mm)	Cobalt-chromium alloy
	ZMR-150D-M	R1.5 mm (φ3 mm)	
	ZMB-100D-L	R1.0 mm (φ2 mm)	Titanium alloy, Cobalt-chromium alloy
	ZMB-100D-M	R1.0 mm (φ2 mm)	
	ZMB-75D-L	R0.75 mm (φ1.5 mm)	
	ZMB-75D-M	R0.75 mm (φ1.5 mm)	
	ZMB-50D-L	R0.5 mm (φ1 mm)	
	ZMB-50D-M	R0.5 mm (φ1 mm)	
	ZMC-30D-M	R0.3 mm (φ0.6 mm)	
	ZMF-75D-L	R0.75 mm (φ1.5 mm)	
	ZMF-75D-M	R0.75 mm (φ1.5 mm)	
	ZMR-75D-M	R0.75 mm (φ1.5 mm)	
	ZMT-100D-M	R1.0 mm (φ2 mm)	
	ZMT-93D-M	R0.93 mm (φ1.85 mm)	
	ZMT-75D-M	R0.75 mm (φ1.5 mm)	
	ZMR-150D-S	R1.5 mm (φ3 mm)	Pre-milled materials for custom abutments
	ZMB-100D-S	R1.0 mm (φ2 mm)	
	ZMB-50D-S	R0.5 mm (φ1 mm)	
Grinding burs	ZGB-125D-M	R1.25 mm (φ2.5 mm)	Glass ceramics, Composite resin
	ZGB-75D-S	R0.75 mm (φ1.5 mm)	
	ZGB-50D-S	R0.5 mm (φ1 mm)	
	ZGC-25D-S	R0.25 mm (φ0.5 mm)	
Milling burs	ZPB-100D-L	R1.0 mm (φ2 mm)	Zirconia, PMMA, Polycarbonate, Glass-fiber-reinforced resin, PEEK, PEKK, Wax
	ZPB-100D-M	R1.0 mm (φ2 mm)	
	ZPB-50D-L	R0.5 mm (φ1 mm)	
	ZPB-50D-M	R0.5 mm (φ1 mm)	
	ZPB-30D-M	R0.3 mm (φ0.6 mm)	
	ZPB-15D-M	R0.15 mm (φ0.3 mm)	
	ZPF-200D-L	R2.0 mm (φ4 mm)	
	ZPF-100D-L	R1.0 mm (φ2 mm)	
	ZPF-50D-L	R0.5 mm (φ1 mm)	
	ZPL-50D-M	R0.5 mm (φ1 mm)	

*1 Even when made from the described materials, some workpieces cannot be milled due to specifications or physical properties.
For more information, contact your authorized Roland DG Corporation dealer.

*2 Operation of this product requires a coolant additive, chiller, dust collector, air compressor, milling burs (sold separately) and internet connection. Please contact your dealer for details.

Exceptional Service and Support for Seamless Business Operation

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DGSHAPE BRAND PROMISE

DGSHAPE Corporation is a wholly owned subsidiary of Roland DG Corporation, established in 2017 to develop and market innovative fabrication technology worldwide. With over 30 years' experience in innovative 3D design, DGSHAPE's core mission to "make innovation, make life better" is focused on delivering digital technologies that bring ideas to life, revolutionize business processes, and shape a better future.

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AUTHORIZED DEALER:

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SHAPE DIMENSION

DWX-70WD

5-Axis Wet / Dry Dental Mill

High-Quality, High-Rigidity
and Intuitively Designed
Metal Milling Solution

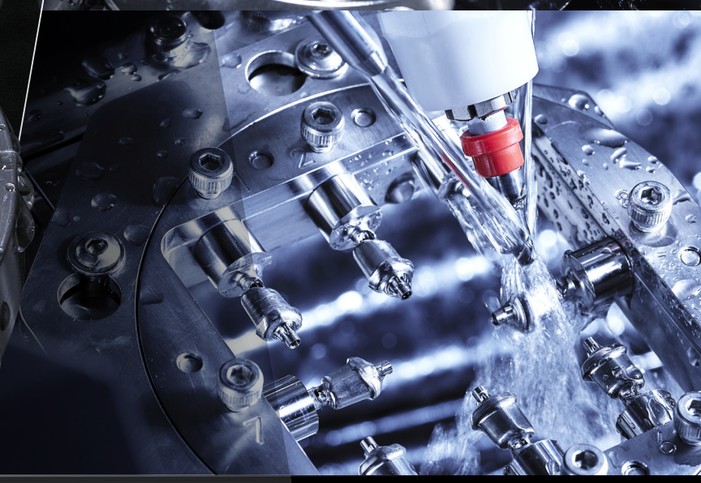


ONE MILL. MORE POSSIBILITIES.









Hybrid Wet & Dry Milling

High-Quality, High-Rigidity and Intuitively Designed Milling Solution

Expand what your business can produce in-house with the DWX-70WD. From zirconia and PMMA to titanium and cobalt-chrome, this hybrid wet and dry milling solution gives you the flexibility to take on a wider range of restorative applications, including complex implant applications.
Bring more production under your own roof, expand your services, and open the door to new business opportunities with the trusted performance of DGSHAPE DWX technology.

RIGIDITY

Built for Strength and Stability

The machine's main components are constructed from cast iron, providing the structural rigidity and stability needed for demanding milling applications.
The integrated machine base and body lower the overall center of gravity, helping minimize vibration and maintain milling stability.

High-Performance Spindle

The spindle is designed to support demanding milling applications, including implant bars and full-arch restorations using titanium or cobalt-chrome disc materials.





PRECISION

Precision You Can Count On Across More Applications

From everyday restorations to complex implant cases, the DWX-70WD delivers precise milling and high-quality surface finishes across a wide range of materials. Its rigid construction and spindle performance help users achieve consistent results while expanding the types of cases they can produce in-house.







Materials

Titanium alloy, Cobalt-chromium alloy, Glass ceramics, Cobalt-chromium sinter metal, Glass-fiber-reinforced resin, Zirconia, Wax, PMMA, Composite resin, PEEK, PEKK

Applications

Crown, Bridge, Inlay, Onlay, Full-arch, Implant bar, Denture frame, Partial denture frame, Custom abutment etc.

The Right Tools for Precision and Performance

Get the most out of your DWX-70WD with a range of milling burs specifically designed for its capabilities. From demanding materials to complex restorations, these dedicated tools help deliver precise results, quality surface finishes, and efficient milling across a wide range of applications.

OPERABILITY

Built-in Control Panel

More Control, Less Hassle

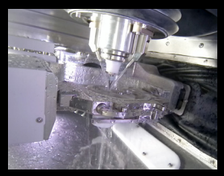
Keep your milling operations simple with a built-in control panel that puts machine controls right where you need them. No separate PC required. The updated VPanel interface offers more intuitive operation for all users, making everyday tasks easier to manage while saving valuable workspace in your lab.



Built-in Camera

See What's Happening Inside Your Mill

Take the guesswork out of troubleshooting. The built-in camera lets you visually check the milling chamber, verify material and milling bur installation, and identify potential issues faster, helping minimize interruptions and keep production on track.



Remote Monitoring

Stay Connected, Even When You're Away

Your lab doesn't stop just because you step away from the mill. With DGSHAPE Insights, you can check machine status and milling progress from your PC, tablet, or smartphone. Stay informed, track production, and keep an eye on your equipment from virtually anywhere.

