DGSHAPE
A Roland Company

Wet Milling Reimagined

Engineered to Excel

The new DWX-42W Plus makes wet milling easier, faster and more accurate than ever before. With a stronger system, quicker production, longer tool life, and new CAM strategies, it's designed to exceed your expectations.

Faster Production

New CAM Strategies* Lock in Time Savings

The DWX-42W Plus satisfies the need for speed. Its new design holds tools firmly in place and reduces friction when milling. Combined with new CAM strategies, these enhancements improve production speeds for all applications, and yield up to a 24% reduction in milling time for popular hybrid ceramic materials.

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

Stronger System

Zirconia Milling Made Easy

The DWX-42W Plus's stronger system efficiently handles ceramics and sintered zirconia material. Its spindle shank is now 57% thicker, reducing friction and vibration when milling coarse or hybrid ceramics. The Plus's smooth operation speeds your milled production while improving accuracy.

Improved Performance

Extended Bur Life

The DWX-42W Plus's new technology means longer tool life, saving you both time and money. With larger roughing burs that can mill 50 or more units before needing replacement, bur life has been extended up to 100%. To keep your production humming, an additional nozzle has been added to the spindle base for improved coolant flow, and all three nozzles have new extensions to ensure the coolant flow hits your tools accurately.



SHAPE DIMENSION

DWX-42W Plus



4-Axis WET Dental Mill

DWX-42W Plus

Roland DG Creative Center | Roland DG Academy | DGSHAPE Care

Specifications

Cuttable material*		Glass ceramics, composite resins, hybrid ceramics, PMMA, Sintered Zirconia, Titanium**
Loadable workpiece shape	Pin-type	Max. 40 (W) × 20 (D) × 20 (H) mm (1.5 × 0.8 × 0.8 in.)
Operating speed	XYZ axis	6 to 1800 mm/min. (0.24 to 70.9 in./min.)
Spindle speed		15000 to 60000 rpm
Rotary axis travel angle	A	±360°
Number of burs housed		6
Attachable bur	Shank diameter	3 mm, dedicated grinding bur
Required compressor specifications (Oil-free, with dryer)	Pressure	0.3 MPa or higher
	Air Capacity	39 l / min or higher
Interface		USB or Ethernet (10 BASE-T/100 BASE-TX automatic switching)
Control command sets		RML-1, NC code
Power requirements		AC 100 to 240 V ± 10%, 50/60 Hz (overvoltage category: II, IEC 60664-1), 2.1A
Power consumption		Approx. 190 W
Operating noise	During operation	70 db (A) or less (when not cutting)
	During standby	48 dB (A) or less
External Dimensions		482 (W) × 560 (W) × 600 (W) mm (19 × 22 × 23.6 in.)
Weight		61 kg
Installation environment		Indoor use at altitudes up to 2000 m, Temperature: 5 to 28°C (41 to 82°F), Humidity: 35 to 80% RH (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 cable, USB cable, Manuals, DGSHAPE software package CD, Automatic correction jig, Grinding burs, Hexagonal screwdriver, Collet Maintenance Kit etc.

Specifications, designs and dimensions listed may be subject to change without notice.
* Even when made from the described materials, some workpieces cannot be milled due to specifications or physical properties. For more information, contact your authorised DGSHAPE dealer.
**Titanium custom abutments can be milled from pre-milled titanium blanks using optional AK-1.

Accessories

Item	Model	Description
Grinding burs (High-quality)	ZGB2-125D	R1.25 mm (ø 2.5 mm) replacement bur
	ZGB2-75D	R0.75 mm (ø 1.5 mm) replacement bur
	ZGB2-50D	R0.5 mm (ø 1 mm) replacement bur
	ZGB2-25D	R0.25 mm (ø 0.5 mm) replacement bur
Grinding burs (Standard)	ZGB-125D	R1.25 mm (ø 2.5 mm) replacement bur
	ZGB-50D	R0.5 mm (ø 1 mm) replacement bur
	ZGB-25D	R0.25 mm (ø 0.5 mm) replacement bur
Milling burs (Abutment)	ZTB-150D	R1.5 mm (ø 3 mm) replacement bur
	ZTB-100D	R1.0 mm (ø 2 mm) replacement bur
	ZTB-50D	R0.5 mm (ø 1 mm) replacement bur
Multi-pin clamp	ZV-42W	Multi-pin clamp that Max.6 blocks can be mounted.
Collet	ZC-3D	Replacement collet
Coolant Filter	ZF2-CLD	Replacement filter for coolant tank x 2
Coolant Additive	ZAW-1000D	Additive for coolant 1000 ml
Chelating Additive	ZCH-250D	Coolant additive chelating agent 250 ml
Abutment Kit AK-1	AK-1 (Primary set)	Tray with special-purpose filter, three types of special-purpose milling burs, torque screwdriver, receptacle tray, hexagonal wrench, replacement filters, manual
	AK-1-DE/GE/ME/NT (attachment)	4 types of material attachments DE: DESS; GE: GeoMedi; ME: MEDENTiKA; NT: NT-Trading

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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.

DGSHAPE 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 DGSHAPE dealer for details. No guarantee or warranty is implied other than that expressly stated. DGSHAPE 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. DGSHAPE Corporation has licensed the MMP technology from the TPL Group.

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AUTHORIZED DEALER:

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