

GLOBALDENTEX

Dental Milling Machines Comparison Guide

Find the perfect machine for your Clinic and Lab

DN-D5Z

DN-H5Z

DN-W4Z Pro

DN-W4Z

DNTX



Product Overview & Key Parameters

Specifications	DN-D5Z	DN-H5Z	DN-W4Z Pro	DN-W4Z
Machine Type	5-axis Dry Milling Machine	5-axis Wet & Dry Milling Machine	4-axis Wet Glass-Ceramic Grinder	4-axis Wet Glass-Ceramic Grinder
Picture				
◆ KEY PARAMETERS				
Processing Method	Dry	Dry & Wet (Hybrid)	Wet	Wet
Number of Axes	5-axis	5-axis	4-axis	4-axis
Primary Materials	Zirconia, PMMA, PEEK, wax disc, etc.	Zirconia, PMMA, PEEK, wax disc, glass ceramics, titanium rods, etc.	Glass ceramics, lithium disilicate, PMMA, titanium rods	Feldspar/lithium ceramics, hybrid materials, PMMA, abutments
Processing Types	Blocks, veneers, inlays, full crowns	Blocks, veneers, inlays, full crowns, splints, abutments	Blocks, veneers, inlays, full crowns, splints, abutments	Inlays, veneers, crowns, full crowns, open crowns
Tool Library Positions	10 positions (detachable)	10 positions (detachable)	3 positions (detachable)	3 tools
Processing Efficiency	Dry: 9–26 min	Dry: 9–26 min Wet: 24–30 min	15–26 min	15–26 min
◆ CORE PERFORMANCE				
Spindle Power	Pmax: 800W PR: 500W	Pmax: 800W PR: 500W	Pmax: 800W PR: 500W	Pmax: 800W PR: 500W
Spindle Speed	10,000–60,000 RPM	10,000–60,000 RPM	10,000–60,000 RPM	10,000–60,000 RPM
Relocation Precision	±0.01 mm	±0.01 mm	±0.01 mm	±0.01 mm

Specifications	DN-D5Z	DN-H5Z	DN-W4Z Pro	DN-W4Z
◆ TECHNICAL FEATURES				
Equipment Structure	Full aluminum alloy structure	Full aluminum alloy structure	Aluminum alloy aerospace frame	Aluminum alloy aerospace frame
Spindle Type	High-performance electric spindle (Self-developed)	High-performance electric spindle (Self-developed)	High-performance electric spindle (Self-developed)	Self-developed electric spindle (Stable, compact)
Tool Changing	Automatic	Automatic	Automatic	Pneumatic / Electric Auto
Workpiece Clamping	Open C-type fixture	Open C-type fixture	High-precision clamping	C-type clamp Patented 3-position fixture
Control System	7" Touch Screen	7" Touch Screen	5" Touch Screen	Touch Screen
Data Transmission	WiFi / LAN / USB	WiFi / LAN / USB	WiFi / LAN / USB	WiFi / LAN / USB
HD Camera	Yes (Wi-Fi)	Yes (Wi-Fi)	—	—
Door Type	Electric / Manual	Electric / Manual	Manual	Manual
Calibration	Automatic	Automatic	Manual	Manual
◆ DIMENSIONS				
External Dimensions	550x450x420 mm	550x450x420 mm	485x365x325 mm	370x466x370 mm
Weight	≈48 kg	≈48 kg	≈40 kg	≈40 kg
X×Y×Z Travel Range	148x105x110 mm	148x105x110 mm	68x68x55 mm	50x50x45 mm
◆ ELECTRICAL SPECIFICATIONS				
Power Supply / Voltage	220V/230V, 50/60Hz	220V/230V, 50/60Hz	220V/230V, 50/60Hz	220V, 50/60Hz
Total Power Consumption	≤1.0 KW	≤1.0 KW	≤1.0 KW	≤1.0 KW
Operating Noise	≈70 dB	≈70 dB	≈70 dB	≈50 dB
Operating Temperature	20–40°C	20–40°C	20–40°C	20–40°C
◆ COMPATIBLE BURS & OPERATION				
Tool Diameter	0.6 / 1.0 / 2.0 mm Milling: 2.5 mm	0.6 / 1.0 / 2.0 mm Milling: 2.5 mm	0.6 / 1.0 / 2.0 mm Milling: 2.5 mm	0.6 / 1.0 / 2.0 mm Milling: 2.5 mm
Tool Holder Diameter	4mm	4mm	4mm	4mm
Multi-Machine Connection	Network supported	Network supported	Network supported	Supported
CAM Software	Optimized CAM design	Optimized CAM design	Optimized CAM design	Professional grinding strategy support



About GlobalDentex

GlobalDentex is a vertically integrated leader in digital dentistry, combining R&D;, manufacturing, and global service. By leveraging proprietary technology and automated production, we deliver industry-leading **Dental Milling Machines** and **Sintering Furnaces** at an accessible price point. Fully certified with CE and ISO 13485, and holding multiple spindle technology and industrial design patents, we provide reliable end-to-end solutions for clinics, labs, and OEM/ODM partners worldwide.



CE Certified



ISO 13485



Multiple Patents

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