

Specifications

Dimensions(W/D/H)	480*700*1400mm	Weight	150kg
Spindle Power	800W	Spindle Speed	80000RPM
Motor Type	AC Servo	Number of Axes	5
Tool Magazine Capacity	7	Rotary Axis	A: ±360° B: ±30°
Tool Types	Zirconia Ball-mill	φ4mm*2mm/1mm/0.6mm	End-mill φ4mm*1mm
	Resin Mill	φ4mm*2mm/1mm	
	Glass Ceramic Mill	φ4mm*2.5mm/1mm/0.6mm	
	Metal Mill	φ4mm*3mm/2mm/1mm	
Voltage/Power	220V /1kW	Air Pressure	>0.65Mpa
Temperature	5°C~40°C		
Milling Accuracy	±0.005mm	Control Method	LCD Touch Screen
Cooling System	Full automatic air-cooling spindle	External Control Linkage	Vacuum Cleaner & Water Pump
External Control System	Dust extraction and water pump integration	Automatic Tool Length Detection	✓
Door Open Auto Pause	✓	Automatic Tool Life Detection	✓
Dry Milling	✓	Remote Assistance	✓
Wet Milling	✓	Processing Status Light Reminder	✓



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BSM-500DW

5-axis Dental Milling Machine
for Both Dry and Wet Applications

All-new Experience with Comprehensive Upgrades





BSM-500DW

Chair-side 5-axis Wet & Dry Dental Milling Machine

The BSM-500DW is Besmile's latest innovation: a chairside dry and wet dual-purpose 5-axis milling machine with powerful performance and an impressive milling accuracy of $\pm 0.005\text{mm}$. The 1/3 holder optimizes material usage, saving up to 20% while boosting production efficiency. It offers dental clinics an efficient, versatile, and cost-effective solution for comprehensive milling needs.

Millable Materials



Zirconia



PMMA



WAX



WOOD



PEEK



Glass Ceramic



Titanium Premill

Indications



Full Contour Crown



Coping



Inlays/Onlays



Veneers



Bridges



Zirconia Abutments



Implant Bridge



Frame



Multi-angle Screw-retained Crown



Customized Abutments



IoT Cloud Platform

- Supports remote monitoring and operation via computer and mobile devices, enabling online and remote management.
- Unattended operation for improved efficiency.



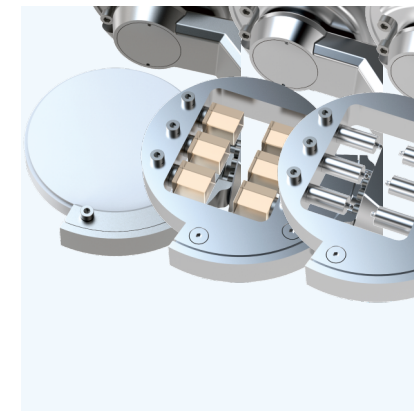
Exceptional Stability

- The 800W German-imported spindle with a speed of 80,000 RPM ensures robust and consistent performance, effortlessly handling metal materials.
- Crafted with an integrated aviation-grade aluminum casting and gantry structure, it guarantees 24-hour processing stability.
- Equipped with customized imported core components, high-precision ball screw guide rails, and high-precision harmonic reducers, the machine delivers unmatched accuracy and stability.



High Precision

- Equipped with an AC servo motor and a high-resolution full servo system, the machine delivers exceptional precision with an accuracy of $\pm 0.005\mu\text{m}$.
- The B-axis tilt angle of $\pm 30^\circ$ enables precise milling of undercuts.



High Return on Investment

- Equipped with 1/3 holder and secondary holder, since the disc holder is only one third of a circle instead of a complete circle, it allows you to nest 20% more units. The secondary holder enables quick disc changes and supports the processing of block materials such as titanium and glass ceramics.
- It supports 90° vertical milling for buccal texture of anterior teeth surfaces, allowing precise incisal texture processing. Additionally, it supports vertical milling of titanium premill.

Smart and Simple



- The door-open auto-pause feature safeguards operators, preventing potential injuries.
- Equipped with six tools and automatic tool-changing capabilities, it also features tool life management for seamless operations.
- Additional automation features include break-point resume cutting, power failure protection, low air pressure alerts, processing status lights, a user-friendly interface, and remote control capabilities.

