

Width*depth*height	700*480*1400mm	Weight	150kg
Number of axis	5	Motor	AC servo
Spindle power	800W	Spindle speed	80000RPM
Cooling system	Automatic air-cooling spindle	Voltage/Power	220V/1KW
Built-in-burs	13	Rotation angle	A axis: 360°, B axis: ±30°
Tool Type	Zirconia Milling Bur: φ4mm*(2mm/1mm/0.6mm) Ball-mill, φ4mm*1mm End-mill		
	Resin Milling Bur: φ4mm*(2mm/1mm)		
	Glass Ceramic Milling Bur: φ4mm*(2.5mm/1mm/0.6mm)		
	Metal Milling Bur: φ4mm*(3.0mm/1.5mm/1.0mm) Ball-mill, φ4mm*3mm Bull-mill		
Environmental temperature	5°C~40°C	Air pressure	>0.65Mpa
Milling accuracy	±0.005mm	Automatic tool length detection	✓
Remote control	✓	Automatic tool life monitoring	✓
Safety function	Automatic working-suspension function	External Control Linkage	Vaccum & water pump
Dry milling	✓	Wet milling	✓
Processing status light reminder	✓	Monitor	8"LCD touch screen

Besmile is a global digital solutions provider for restorative and implant dentistry.

We offer integrated systems—premium CAD/CAM materials, advanced equipment, and precision implant systems—designed to streamline workflows and ensure reliable results.

All core products are developed and manufactured in-house, ensuring consistent quality and continuous innovation.

Trusted by over 1,000 partners in more than 100 countries, we empower dental professionals to create confident, lasting smiles.

Technology creates the best smile.



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

# BSM-500DW

An All-New Experience with  
Comprehensive Upgrades



# Chairside 5-Axis Wet & Dry Dental Milling Machine

## BSM-500DW

### CAD/CAM Digital Processing



The BSM-500DW is a high-performance 5-axis chairside milling machine for both dry and wet applications, delivering precision and efficiency. It provides dental clinics with a versatile, cost-effective solution for all milling needs.

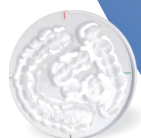


Wet & Dry Milling

+20% ROI

±0.005mm

### Millable Materials



Zirconia



PMMA



Wax



Wood



PEEK



Glass ceramic



Titanium premill

### Millable Restorations



Full contour crown



Coping



Inlay/onlay



Veneer



Bridge



Customized abutment



Implant bridge



Non-metal frame

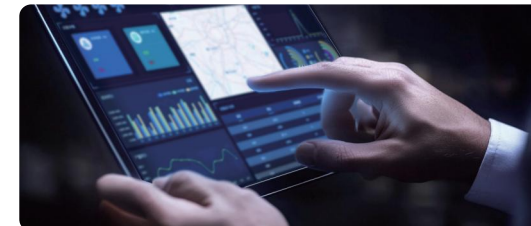


Multi-angle screw-retained crown

### Key Features



#### IoT Cloud Platform



- Remote monitoring & operation via computer/mobile devices for online management.
- Unattended operation boosts efficiency.



#### High Precision



- AC servo motor & full servo system achieve exceptional  $\pm 0.005\mu\text{m}$  accuracy.
- Flexible B-axis tilt ( $\pm 30^\circ$ ) enables precise undercut milling.



#### High Return on Investment



- 1/3 holder boosts disc production by 20%.
- The multifunctional holder supports quick disc changing and processes titanium/glass ceramics.
- $90^\circ$  vertical milling for precise anterior teeth buccal and incisal texture.
- Enables vertical milling of titanium premill for seamless crown-abutment integration.



#### Exceptional Stability



- 800W 80,000 RPM German spindle handles metal effortlessly.
- Aviation-grade aluminum casting & gantry structure ensures 24/7 stability.
- Customized core components, high-precision ball screw guide rails, and harmonic reducers guarantee unmatched accuracy.



#### Smart and Simple



- Door-open auto-pause preventing potential injuries.
- Equipped with 13 tools with auto-changer, featuring integrated tool life management.
- Built-in electrostatic precipitator (ESP).
- Automation features: break-point resume, power failure protection, alerts, status lights, intuitive UI, and remote control.