

Technical Parameters

Depth*width*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 Chairside Dental Milling Machine
for Both Dry and Wet Applications

BSM-500DW



Chairside 5-Axis Wet & Dry Dental Milling Machine

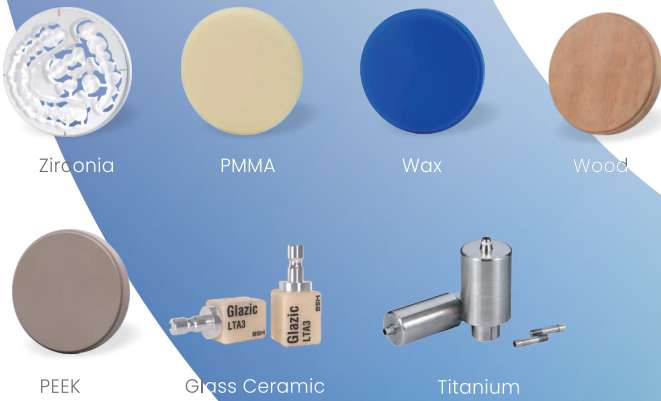
BSM-500DW

CAD/CAM Digital Processing

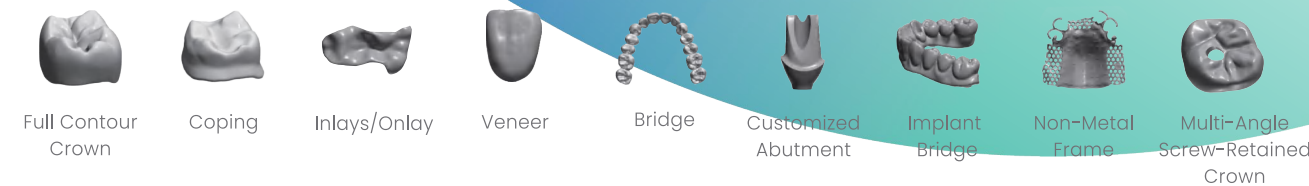


The BSM-500DW is the latest chairside **dry & wet** 5-axis milling machine developed by Besmile, offering powerful processing performance to provide dental clinics with efficient, comprehensive, and cost-effective machining solutions.

Millable Materials



Indications



Key Features

Dry & Wet Milling



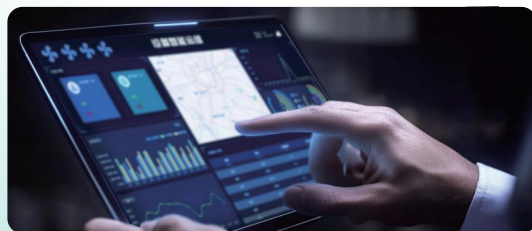
- **Dry/wet dual-mode** capability for flexible multi-material processing
- Switch between dry and wet modes in just 30 minutes.

90° Vertical Process



- **90° vertical milling** precisely replicates natural tooth anatomy and surface texture
- **90° vertical milling** enables high-precision customized titanium abutments for premium implant cases

Smart & User-Friendly



- **Safety auto-pause** when opened
- **13-bur automatic changer** with smart monitoring
- **Automation features:** break-point resume, power failure protection, alerts, status lights, intuitive UI, and remote control

Higher ROI



- Exclusive 1/3 holder increases zirconia disc capacity by **20%+**
- Quick changes between titanium, glass ceramics, zirconia and more

Premium Quality



- **80,000 RPM German spindle 800W** with power effortlessly handles metals.
- **Aerospace-grade construction** ensures 24/7 reliability
- **Premium core components** guarantee lasting accuracy
- Built-in electrostatic precipitator (**ESP**) for easier cleaning

Zero-Chipping Edges



- AC servo motor ensures $\pm 0.005\text{mm}$ ultra-precision machining
- $\pm 30^\circ$ B-axis tilt for complex undercut cases