

# Technical Parameters



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

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

# BSM-500DW

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.



Chengdu Besmile Biotechnology Co.,Ltd.

www.bsmdental.com  
T: +86-28-85317108  
E: info@cdbesmile.com

Besmile Dental America Inc.

20311 Valley Blvd, Suite#1, Walnut, CA91789  
T: (626)921-5798  
E: sales@bsmdentalus.com

Contact Us



@Besmile @besmile\_aconia



# 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



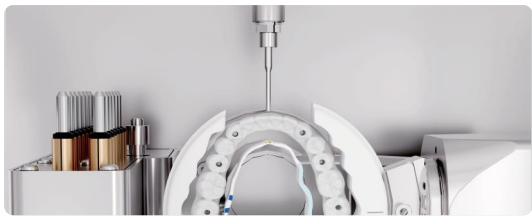
### Key Features

#### 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



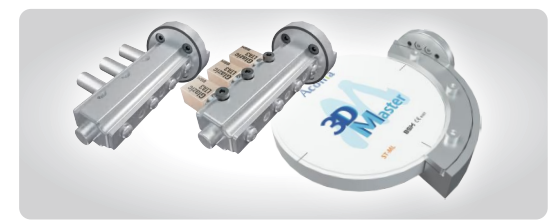
- **90° vertical milling** precisely replicates natural tooth anatomy and surface texture
- **90° vertical milling** enables high-precision customized titanium abutments for premium implant cases

#### 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