

Specifications

Dimensions(W/D/H)	1060*760*785mm	Weight	300kg
Number of Axes	5	Motor Type	AC Servo
Spindle Power	800W	Spindle Speed	60000RPM
Rotary Axis A	±360°	Rotary Axis B	-20°~+90°
Cooling System	Full automatic air-cooling spindle	Automatic Disc Change Accuracy	5μm
Milling Accuracy	±0.005mm	Air Pressure	>0.65Mpa
Voltage/Power	220V/1.5KW	Number of Automatic Discs	12
Tool Types	Zirconia Ball-mill	φ4mm*2mm/1mm/0.6mm	End-mill φ4mm*1mm
	Resin Mill	φ4mm*2mm/1mm	
Tool Magazine Capacity	11	Monitor	LCD Touch Screen
Automatic Tool Length Detection	✓	Remote Monitoring	✓
Automatic Tool Life Detection	✓	Processing Status Light Reminder	✓
Door Open Auto Pause	✓	Remote Assistance	✓
Dry Milling	✓	Wet Milling	X



Chengdu Besmile Medical Technology Co., Ltd.
www.bsmdental.com
T:+86-28-85317108
E:info@cdbesmile.com

Besmile Dental America Inc.
20311 Valley Blvd, Suite# I, Walnut, CA 91789
T: (626)921-5798
E:admin@bsmdentalus.com

@Besmile @besmile_aconia



BSM-500DC

24-Hour Unattended Processing

Real-Time Remote Visual Monitoring





BSM-500DC

24-Hour Unattended Processing

BSM-500DC is the latest intelligent 5-axis automatic disc-changing milling machine developed by Besmile. It features 12 automatic disc-changing units, 11 automatic tool-changing units, and various automated functions. This enables 24/7 unmanned production, maximizing productivity and profitability. It provides a powerful, efficient, and cost-effective solution for various restoration requirements.

Millable Materials



Zirconia



PMMA



WAX



WOOD



PEEK

Indications



Full Contour Crown



Coping



Inlays/Onlays



Veneers



Bridges



Zirconia Abutments



Implant Bridge



Frame



Multi-angle Screw-retained Crown

Why Choose the BSM-500DC



High Precision

- Zero-point positioning system fixture and disc-changing accuracy up to 5μm
- AC servo motor with high-resolution full servo system for more precise operation



High Stability

- Integrated aviation-grade aluminum casting with gantry structure for 24-hour processing stability
- 800W German-imported spindle with speeds up to 60000 RPM, strong and stable
- Customized imported core components, high-precision ball screw guide rails, high-precision harmonic reducers, ensuring accuracy and stability.



Large-angle Milling

- Rotary AxisB -20°~+90°
- Easily mills large dental arches, undercuts, and large-angle abutments



High Return on Investment

- Semi-circular fixture increases tooth yield per zirconia disc by at least 15% compared to circular fixtures.
- Supports 90° vertical milling for buccal texture of anterior teeth



Highly Intelligent Features

24/7 Uninterrupted Production

The BSM-500DC is equipped with 12 automatic disc-changing units and a built-in camera function, offering superior 24-hour processing support. It can automatically record interruptions during milling, supports mobile viewing, and video playback, making it convenient for maintenance, operation, and task monitoring. This automated workflow is designed to achieve efficient processing schedules and material management, ensuring smooth operation of your equipment.



12 Automatic Disc-changing Units



Door Open Auto Pause



Intelligent Disc Changing Management System



Smart Remote Monitoring



Smart Remote Monitoring

More Automation Features

- Break-Point Resume Cutting
- Power Failure Protection
- Low Air Pressure Protection
- Smart LCD Touchscreen Screen
- User-Friendly Human-Machine Interface