

## Technical Parameters

Width*depth*height	1060*760*785mm	Weight	300kg
Number of axis	5	Motor	AC servo
Spindle power	800W	Spindle speed	60000RPM
Cooling system	Automatic air-cooling spindle	Rotation angle	"A-axis: 360° B-axis: -20°~+90°"
Automatic tool length detection	✓	Automatic tool life monitoring	✓
Voltage/power	220V/1.5KW	Air pressure	0.4-0.45Mpa
Built-in-burs	11	Number of Automatic Discs	12
Tool type	<b>Zirconia Milling Bur:</b> φ4mm*(2mm/1mm/0.6mm) Ball-mill, φ4mm*1mm End-mill <b>Resin Milling Bur:</b> φ4mm*(2mm/1mm)		
Milling accuracy	±5μm	Remote monitoring	✓
Disc-changing accuracy	5μm	Processing status light reminder	✓
Safety interlocks	✓	Remote control	✓
Dry milling	✓	Monitor	Smart LCD Touchscreen

# BSM-500DC

24/7 Non-Stop Processing  
Real-Time Remote Visual Monitoring

## About Besmile

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

We offer integrated systems—premium CAD/CAM materials, advanced equipment, and precision implantsystems—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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24/7 Non-Stop Processing

# BSM-500DC

Meet the **BSM-500DC** — our 5-axis automatic disc-changing milling machine. With 12 disc changers, 11 tool changers, and intelligent automation at its core, it delivers **true 24/7 unmanned production** to supercharge your output. Built for **high-volume workflows**, the BSM-500DC empowers large labs to achieve maximum productivity **without ever sacrificing quality**.



## Millable Materials



Zirconia



PMMA



WAX



PEEK

## Indications



Full Contour Crown



Coping



Inlays/Onlays



Veneers



Bridges



Zirconia Abutments



Implant Bridge



Non-Metal Frame



Multi-Angle Screw-Retained Crown

## Key Features

### 24/7 Uninterrupted Production

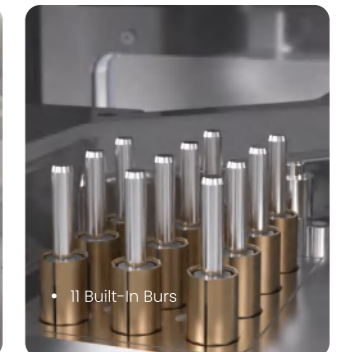
- **24/7 Non-Stop:** The automatic disc changer holds 12 discs, enabling **unattended around-the-clock operation** to reduce labor costs.
- **Easy Monitoring:** Built-in webcam and smart control let you **check workflows anytime, anywhere**.



- 12 Automatic Disc-Changing Units
- 5 µm Disc-Changing Accuracy



- 2 Integrated Webcams
- Remote Control

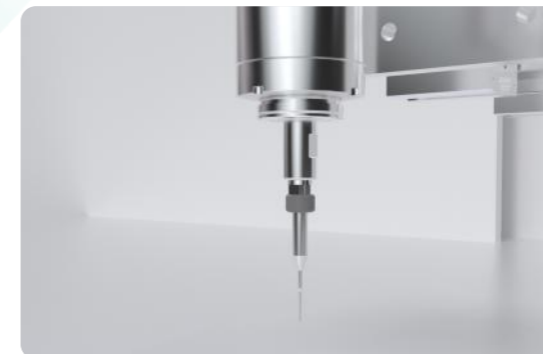


- 11 Built-In Burs

- **Advanced Automation Features:** Break-Point Resume Milling/Power Failure Recovery/Low Air Pressure Protection/Smart LCD Touchscreen/Intuitive Human/Machine Interface

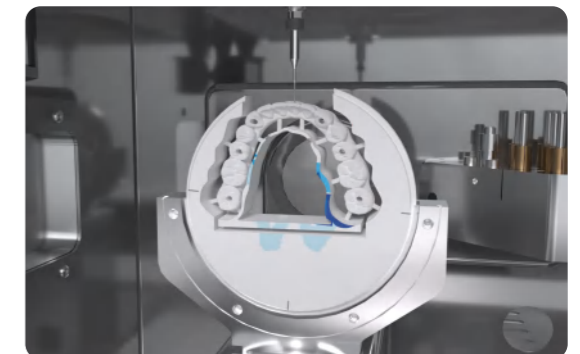
### High Stability

- **60,000 RPM German spindle** with **800W** power effortlessly guarantees performance
- Industrial-grade **aerometal gantry structure** ensures the stability of 24/7 processing



### Large-Angle Milling

- **Exceptional Rotary Axis B:** -20°~+90°
- **90° vertical milling** for detailed buccal textures on anterior teeth
- Easily mills large dental arches, undercuts, and high-angle abutments



### High Precision

- **Digital servo system** with high resolution
- Flawless **disc changes** with zero-point clamping—**accuracy up to 5 µm**

### Higher ROI

- Semi-circular holder **increases zirconia disc capacity by 15%**