

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                     | >0.65Mpa                          |
| 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<br><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             |

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 implants—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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BSM-500DC

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



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

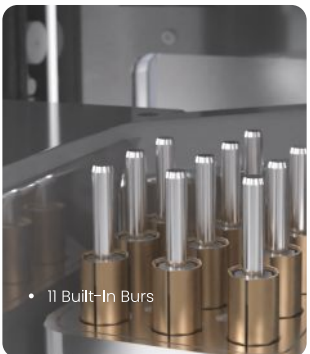
- **24/7 Non-Stop:** The automatic disc changer holds 12 discs, enabling **unattended around-the-clock operation** to reduce labor costs.
- **Easy Monitoring:** Built-in webcam and smart control let you **check workflows anytime, anywhere**.



- 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

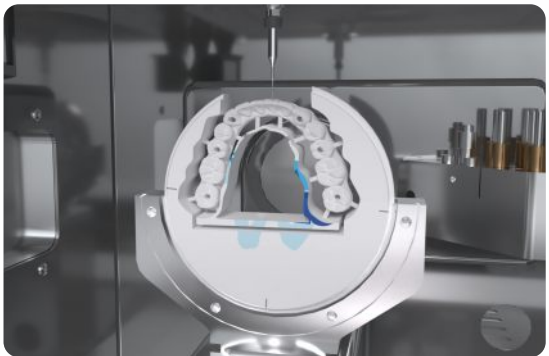
### High Stability

- **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%**