

BSM-500D

Intelligent 5-axis Dental Milling Machine

- 5 Axes
- Dry milling
- ± 0.005 mm
- Chairside Labside



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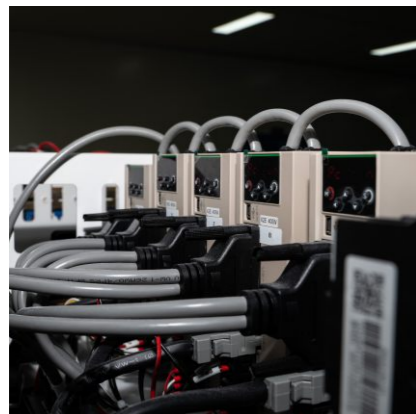
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Intelligent 5-axis Dental Dry Milling Machine

BSM-500D, with strong & reliable gantry structure design and 5-axis simultaneous linkage, features excellent reliability, intelligent processing, efficient and precise milling at 5µm milling accuracy. With automatic working-suspension function in the occurrence of accidental door opening during processing, it guards the safety of the operator to avoid physical injury. Built-in working status indication light provides the intelligent monitoring of the milling operation. Equipped with a compact design but powerful spindle from Germany, it is an excellent choice for not only dental labs but also chairside practices.

Highlights



Digital servo system



6 tools
4 zirconia mill+2 resin mill



Integrated ionizer neutralizes the electrostatic charge of chips (PMMA/plastics)



Automatic calibration



Spindle from Germany
Milling accuracy $\pm 0.005\text{mm}$
Repetition accuracy $\pm 0.005\text{mm}$



High ROI – 1/3 holder boosts disc production by 20%

Key Features



Reliable

Heavy industrial quality and aerometal structure

The gantry structure and thermal expansion symmetric design ensure excellent stability



Intelligent

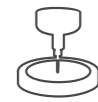
Automatic tool changer

Power-off protection & break-point resume

Easy operation with intuitive LCD touch screen

Automatic working-suspension function

Intelligent working status indication light



Efficient

Powerful spindle with speed up to 60000RPM

Milling speed:

Coping: 11 mins (Zirconia), 5 mins (Wax)

Crown: 16 mins (Zirconia), 6 mins (Wax)

Frame: 45 mins (PMMA/PEEK)

Above data were obtained based on the BSM-500D milling of Aconia HT+ 14mm.

Millable Materials



Zirconia



PMMA



Wax



Wood



PEEK

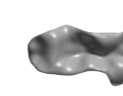
Millable Restorations



Full Contour Crown



Coping



Inlay/Onlay



Veneer



Crown Bridge



Abutment



Implant Bridge



Frame

Technical Parameters

Width*depth*height	480mm*700mm*645mm	Weight	90kg
Fields of application	Dry milling	Temperature	5°C - 40°C
Number of axes	5	Built-in-burs	6
Spindle speed	Up to 60,000 RPM	Touch screen control	8" LCD touch screen
Cooling system	Automatic air-cooling spindle	Automatic tool changer	Positive
Voltage/Power	220V/1KW	Air pressure	>0.65Mpa
Rotation angle	A axis : 0° ~ 360°		B axis : -30° ~ +30°
Tool Type	Zirconia End Mill	Φ 4mm * 1mm	
	Zirconia Ball Mill	Φ 4mm * 2mm	Φ 4mm * 1mm Φ 4mm * 0.6mm
	Resin Ball Mill	Φ 4mm * 2mm Φ 4mm * 1mm	