

BSM-520D

5-Axis Dental Milling Machine



Revolutionary technologies

Top-quality results



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BSM-520D 5-Axis Dental Milling Machine

BSM-520D is a 5-Axis dry-milling machine for dental CAD/CAM system with wide range of materials, featuring high accuracy, durable stability and excellent compatibility. It is an ideal choice for high-precision restorations including bridges, frames, abutments, base and complicated operations like zirconia perforation. Equipped with premium spindle, smart CAM nesting system and intelligent touch screen, BSM-520D offers better disc handling, wider material capabilities, automatic tool change to deliver a higher efficiency.

CAD/CAM Digital Processing



Key Features



High Compatibility

B Axis (-30°~+40°) wide rotation range
Indications: crown, bridge, inlay, onlay, abutment, veneer



Higher ROI

- 1/3 holder, simplified operation; Increased 20% production per block
- 2-second block insertion
- Special dust-proof design ensures long lifespan



Intelligent processing

- Smart CAM nesting strategy
- Integrated PC with 9.7 inch intelligent touch screen
 - Automatic changer for 6 tools with haptic tool detection and tool breakage monitoring



Excellent Reliability

- Premium spindle with 60,000RPM
- Heavy industrial quality and aerometal structure
- The gantry structure and thermal expansion symmetric design ensure accuracy stability



High Accuracy & High Efficiency

- Digital servo system with high resolution, ±0.005mm repetition accuracy
 - ±0.01mm installation accuracy for per axis
 - 90° vertical processing
- Milling speed:** zirconia posterior anatomic crown ≈ 17' (Aconia HT+ 14mm); zirconia 3-unit crown bridge ≈ 24' (Aconia HT+ 14mm)

Wide Accessibility



Millable Materials



Zirconia

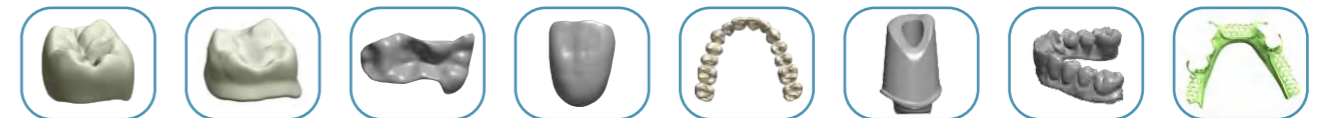
PMMA

Wax

Wood

PEEK

Millable Restorations



Full Contour Crown

Coping

Inlay/Onlay

Veneer

Crown Bridge

Abutment

Implant Bridge

Frame

Technical Parameters

Dimension (W*D*H)	570mm*680mm*780mm	Weight	130kg
Cooling system	Automatic air-cooling spindle	Motor type	AC Servo-motor
Number of axes	5	Voltage/power	220V//2.6KW
Tool type	φ4mm*2mm (Ball-mill)	φ4mm*1mm (Ball-mill)	φ4mm*0.6mm (Ball-mill)
	φ4mm*1mm (End-mill)	φ4mm*2mm (Resin-mill)	φ4mm*1mm (Resin-mill)
Built-in tools.	6	Dry milling	Support
Spindle Power	500W	Air pressure	>0.65MPa