

BM-520D

5-Axis Dental Milling Machine



Revolutionary technologies

Top-quality results



5
Axis

Open

± 0.005
mm

DRY



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BM-520D 5-Axis Dental Milling Machine

BM-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, splint, abutment, base and complicated operations like zirconia perforation. Equipped with premium spindle, imported core parts, smart CAM nesting system and intelligent touch screen, BM-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 (-35° + 110°) wide rotation range
Indications: crown, bridge, inlay, onlay, abutment, veneer



Higher ROI

- Cambered 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 4 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 spindle
- 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 Material



Zirconia

PMMA

Wax

Wood

PEEK

Millable Restoration



Anatomic crown

Coping

Inlay/Onlay

Veneer

Crown Bridge

Abutment

Frame

Splint

Technical Parameters

Dimensions(W/D/H)	680mm*570mm*780mm	Weight	130kg	
Cooling system	Automatic water-cooling spindle	Motor type	AC Servo-motor	
Linkage axis	5	Voltage/power	220V//3.9KW	
Tool type	φ4mm*2mm	φ4mm*1mm	φ4mm*0.6mm	φ4mm*1mm
Built-in tools no.	4	Dry milling	Support	
Temperature	5°C~40°C	Air pressure	>0.65MPa	