

BSM-420W

4-Axis Dental Milling Machine



Innovation of Metal Milling



4
Axes

± 0.005
mm

WET

SMART



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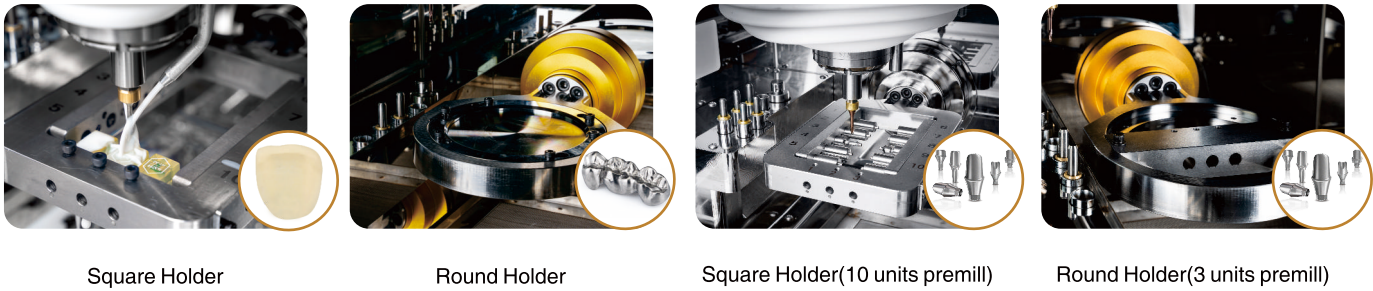




BSM-420W 4-Axis Dental Milling Machine

BSM-420W, 4-axis simultaneous dental milling machine, adopts open processing system with premium spindle and imported core parts. It features high precision milling and high reliability, easy processing of sophisticated metal materials like titanium, cobalt-chrome, and composite, which perfectly matches the needs of high-quality crowns, bridges, abutments, etc.

CAD/CAM Digital Processing



Convincing Features



Precise Milling

- Digital servo system with high resolution, $\pm 0.005\text{mm}$ repetition accuracy.
- $\pm 0.01\text{mm}$ installation accuracy for per axis.



Stable Operation

- Heavy industrial quality and aerometal structure.
- The gantry structure and thermal expansion symmetric design excellent stability



High Efficiency

- Premium spindle with speed up to 60,000 RPM
- **Milling speed:** Titanium full contour single crown $\approx 32\text{mins}$
- Titanium full contour 3-unit bridge $\approx 110\text{mins}$
- Customized abutment $\approx 22\text{mins}$ (3 burs) / 19mins (2 burs)
- Glass Ceramic full contour anterior crown $\approx 20\text{mins}$
- Glass Ceramic Inlay & Onlay $\approx 23\text{mins}$
- Glass Ceramic Veneer $\approx 23\text{mins}$



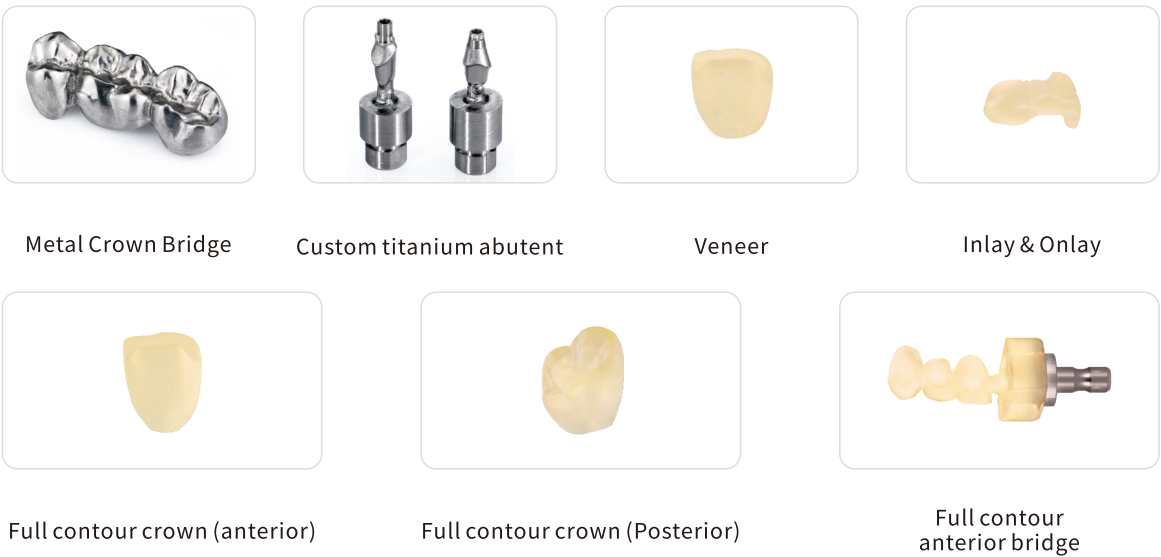
Intelligent Processing

- Smart CAM nesting strategy.
- Integrated PC with 9.7inch intelligent touch screen.
- Automatic tool changer with haptic tool detection and tool breakage monitoring.
- Automatically create efficient tool path, no sticky and easy to eliminate processing debris.

Millable Materials



Millable Restorations



Technical Data

Dimension(W/D/H)	570mm*800mm*1650mm	Temperature	5°C-40°C
Number of Axes	4	Weight	300KG
Spindle power	1.8KW	Max. spindle speed	60,000RPM
Cooling system	Automatic water-cooling	Voltage/Power	220V/3.7KW
Holding quantity (square)	10 units premill, 3 units glass ceramic	Tool length detection	Supportive
Holding quantity (round)	3 units premill, φ98mm Titanium disc	Air pressure	> 0.65MPa
Built-in Tools	6	Motor	AC Servo-motor
Tool type	Tool for metal	φ6mm*3mm, φ6mm*2mm, φ6mm*1mm	
	Tool for glass ceramic	φ6mm*2.5mm, φ6mm*1mm, φ6mm*0.6mm	
Remote tech assist	Supportive	Wet milling	Supportive