

BSM-420W

4-Axis Dental Milling Machine



Innovation of Metal Milling



**4
Axis**

**± 0.005
mm**

WET

SMART

BSM 贝施美

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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 highlights high precision milling and high reliability, easy to dealing with sophisticated metal materials like titanium, cobalt-chrome, and composites, which well match the needs of high-quality crown and bridge, abutment and so on.

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 spindle.
- $\pm 0.02\text{mm}$ milling accuracy; 0.3mm accuracy for Besmile glass ceramic



Stable Operation

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



High Efficiency

- Premium spindle with 60,000RPM
- **Milling speed:** Titanium crown $\approx 30'$ (Besmile titanium disc TA2 14mm)
- Abutment $\approx 22'$ (Besmile titanium premill TC4)



Intelligent processing

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

Millable Materials



$\phi 98\text{mm}$ Titanium disc



Titanium alloy disc



Titanium premill



Glass ceramic

Millable Indications



Titanium crown bridge



Custom titanium abutment



Veneer



Inlay & Onlay



Full contour(anterior)



Full contour(Posterior)



Full contour anterior bridge

Technical Data

Dimension(W/D/H)	800mm*570mm*1650mm	Temperature	5°C-40°C
Linkage axis	4 axis	Weight	300KG
Spindle power	1.8KW	Max. Rotation speed	60,000RPM
Cooling system	Automatic water-cooling spindle	Voltage/Power	220V/3.7KW
Holding quantity (square)	10 units premill, 3 units glass ceramic	Tool length detection	Support
Holding quantity (round)	3 units premill, $\phi 98\text{mm}$ Titanium disc	Air pressure	> 0.65MPa
Tool quantity	6 pcs (round holder) / 6 pcs (square holder)	Motor	AC Servo-motor
Tool type	Tool for metal		$\phi 6\text{mm} * 3\text{mm}, \phi 6\text{mm} * 2\text{mm}, \phi 6\text{mm} * 1\text{mm}$
	Tool for glass ceramic		$\phi 6\text{mm} * 2.5\text{mm}, \phi 6\text{mm} * 1\text{mm}, \phi 6\text{mm} * 0.6\text{mm}$
Remote tech assist	Support	Wet milling	Support