Bloomden®

Bloomden Arch 1

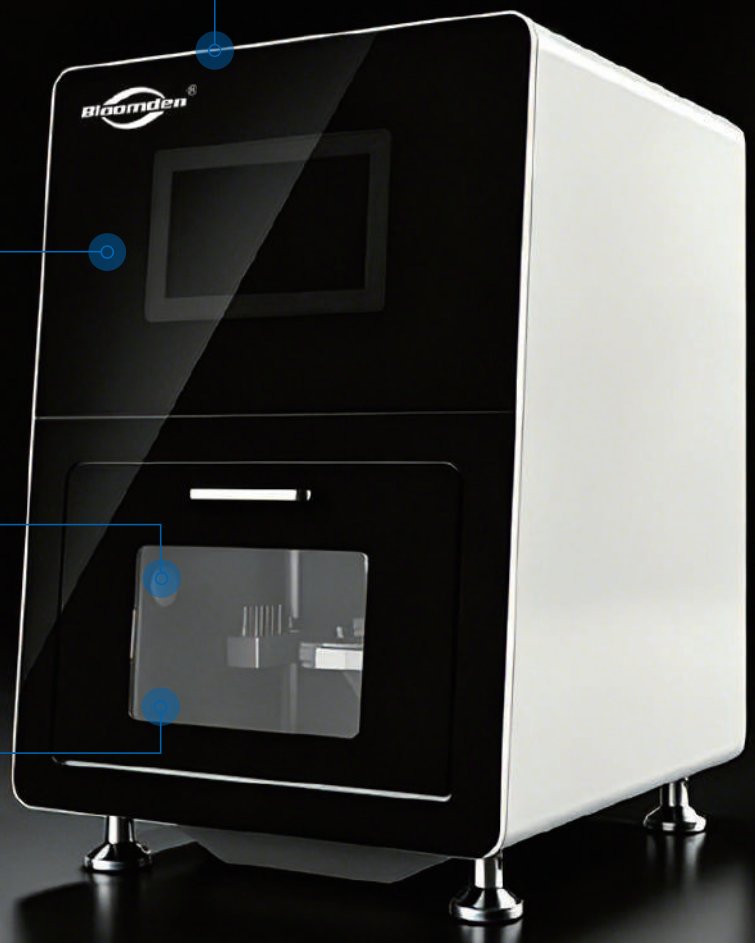
Dental Milling Machine

10μm Precision

Zero Compensation

Seamless Milling

One-Step Production



- No Calibration
- No Manual Polishing
- Perfect Alignment on Both Sides

BETTER TRUST BETTER SMILE

No Manual Polishing

Membrane-Free Milling · One-Step Production
Ready for sintering directly after milling
Reduces manual polishing time and rework risks

No Calibration

Automatic Compensation + Auto Tool Calibration
Ready to mill immediately after startup
Minimizes human error during operation
10μm-level precision for long-term stable production

Self-Developed System
Fully Integrated Workflow Control

In-House Hardware & Software Development
Faster technical response and more direct support

Perfect Alignment on Both Sides

Seamless Dual-Side Milling
No repositioning required after flipping
Ensures complete full arch integrity

Resume Milling After Interruption

Breakpoint Recovery
Resume milling automatically after interruption

Technical DATA

Item	Specification	Item	Specification
Milling Mode	Dry milling	Itinerary (X·Y·Z)	165 mm × 112 mm × 90 mm A-axis: -95° to +30° B-axis: 360°
Machining Accuracy	±0.01 mm (10μm)	Spindle Options	Air-cooled / Electric tool-change / SycoTec electric spindle
Machine Structure	One-piece cast aluminum frame	Spindle Speed	0 – 60,000 rpm
Drive System	Servo motor system	Spindle Power	500 – 800 W
Indications	Crowns, copings, bridges, customized abutments, etc.	Spindle Lifespan	6,000 – 8,000 hours
Supported Materials	Zirconia, PMMA, etc.	Air Pressure Requirement	3 – 5.5 bar
Single Crown Milling Time	Approx. 10–15 minutes	Built-in Air Pump	0.3 bar integrated air pump
Fixture Type	C-type holder	Compressed Air Consumption	Approx. 90 L/min
Max Zirconia Disc Thickness	Max. 30 mm	Power Supply	220V AC, 50–60 Hz
Tool Quantity	12	Total Power Consumption	1.5 kW
Tool Shank Diameter	4 mm	Machine Weight	110 kg
Max Tool Length	50 mm	CAM Compatibility	Open systems such as MillBox, HyperDent, WorkNC, etc.