

Specifications

Processing mode	Dry&Wet
Millable material	Zirconia, Glass ceramics, Plastics Wax, PEEK, Composite, Titanium Disc,Pre-milled
Power	100 ~ 240V AC 50/60Hz
Dimension	510× 465× 737mm
Weight	122kg
Air supply pressure	0.6 ~ 0.8 MPa
Air flow	100 L/min
Basic construction	Aluminium
Number of axes	5
Rotary axis A	360°
Rotary axis B	-110° ~ +30°
Tool magazine	16
Speed	80,000 rpm
Spindle Power	1.37KW
Positioning/Repositioning accuracy	0.01/ 0.005 mm
Tool shank (mm)	Φ6

Whiteth

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C52

5-axis dry&wet milling machine



Pre-milled

Titanium disc

Glass ceramic

PMMA

Cocr

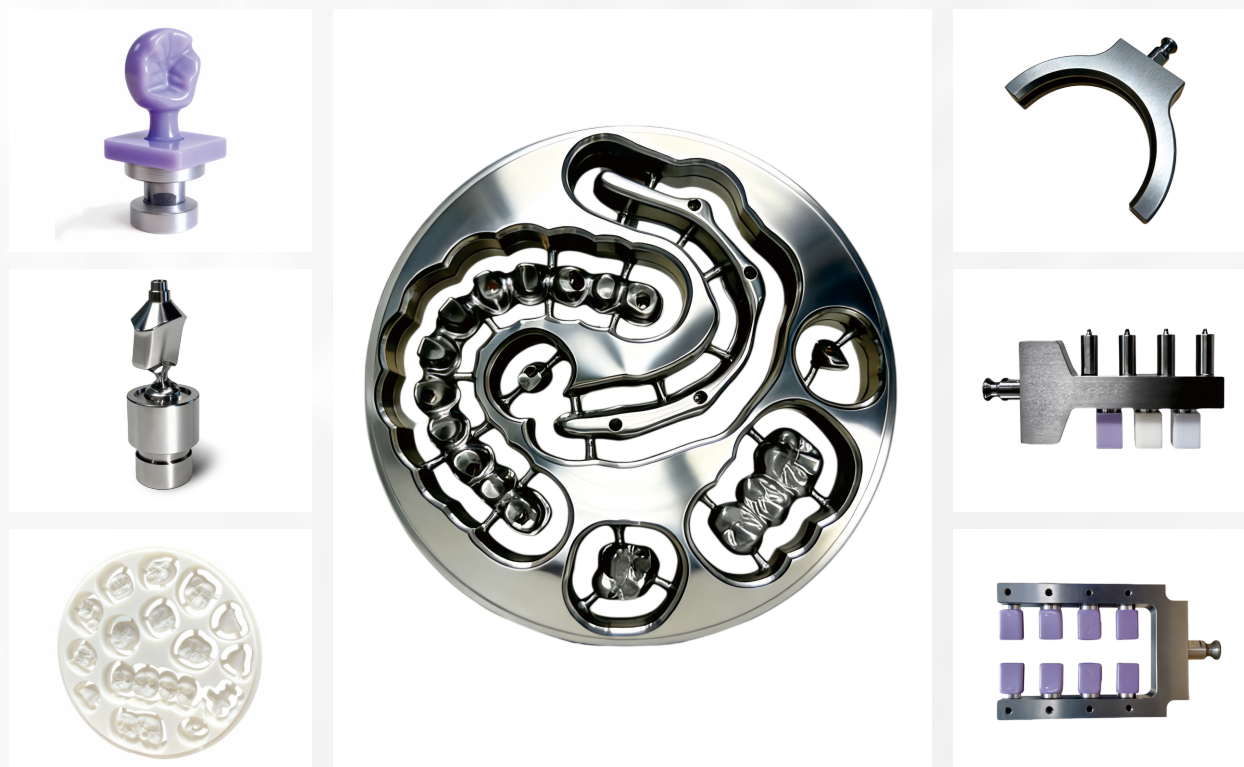
Zirconia

Composite

PEEK

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Care. Precision. Excellence. For Every Smile.



80,000 RPM

Powered by the German SycoTec spindle, the C52 reaches 80,000 RPM with stable, low-runout precision — delivering sharp results and long-term reliability for confident daily production.



User-Friendly

With automatic calibration and an integrated design, installation and setup are quick and easy. Powered by Windows 11, its intuitive interface reduces the learning curve, while simple daily maintenance and remote support ensure stress-free operation.



Open

Compatible with MillBox, HyperDent, and WorkNC, the C52 supports a wide range of materials with fully adjustable processing parameters — giving you complete flexibility and control over your workflow.



Smart

- ✓ Automatic Calibration
- ✓ Automatic Dry/Wet Recognition
- ✓ Automatic Titanium Rod Detection
- ✓ Automatic Tool Length Measurement & Tool Change
- ✓ Real-Time Temperature Compensation
- ✓ Water Flow Monitoring & Protection
- ✓ Intelligent Status Indication



Compact

C52 features a compact all-in-one design (510 × 465 × 737 mm, 122 kg), with fully integrated dry and wet milling and no external chiller required, making transport, installation, and lab placement easy without sacrificing cutting stability.



Zero-point quick change

The Zero-Point System enables rapid fixture changes while returning every workpiece to the same precise reference position for consistently accurate results.



5 μm

C52 achieves positioning accuracy within $\pm 5 \mu\text{m}$ and high repeatability with true 5-axis simultaneous movement, precision spindle, and real-time temperature compensation — ensuring stable, consistent milling.