zublerUSA

No air compressor
AIR FREE

Z-Core

No compressed air required
Five-axis dry milling machine



5 Axis

10 Tools

0 Air

6 Blocks

1 Discs

- 5-axis machining
- No compressed air required
- German spindle
- 90° vertical machining
- Auto calibration
- Modular integrated



Z-Core

Engineered for Everyday Clinical Production



The Foundation of the Z-Series Milling Platform

Z-Core is the streamlined entry into the Z-Series production ecosystem — engineered for dental offices and emerging production labs that want control without complexity. Fully self-contained and compressor-free, Z-Core eliminates the infrastructure barriers traditionally associated with in-house milling. No external air system. No loud mechanical footprint. No complicated installation. Just precise, controlled dry milling — built for clinical environments. Compact in size. Quiet in operation. Confident in performance.

Designed for Digital Adoption — Without the Friction

Z-Core is built for teams stepping into in-house production for the first time — but expecting professional results from day one. A 19.5" touchscreen interface, Windows-based operating system, and intuitive workflow design make daily operation straightforward and predictable. When paired with MillBox, Z-Core delivers a clean, highly accessible digital workflow that reduces training time and accelerates confidence for clinicians new to chairside or in-office milling.

Processing mode	Dry
Millable material	Zirconia, PMMA, PEEK, Wax, Composite resin
Basic construction	Aluminum
Tool	10 (Removable tool magazine)

Number of axes	5
Spindle power	800W
Spindle collet	φ4mm
CAM Software Adaptation	Millbox / Hyperdent

New Technical highlights, start experiencing!



High-quality German spindles

- ✓German top brand
- ✓Continuous high-precision machining



Ultra-fine engraving

- ✓∅0.3mm ultra-fine tools
- ✓90° vertical processing



Built-in automatic calibration

- ✓No external wiring required
- ✓Ultra-high precision



Easy-to-use operating system

- ✓True wireless remote function: control device/transfer files
- ✓Win10 system
- ✓Guided access, extremely low learning cost



Key Features at a Glance





Precision Motion System

- ✓ C5-grade precision ball screw for smooth, accurate movement
- ✓ P-grade linear guide rails for long-term stability
- ✓ High-resolution servo control system
- ✓ 5 µm repeatability for consistent restorations
- ✓ Hybrid ceramic spindle bearings (<3 µm concentricity)



Versatile Indication Processing

- ✓ 90° vertical milling capability for denture and full-arch indications
- ✓ Pre-calibrated fixture scales for fast setup
- ✓ Automatic calibration ensures reliable accuracy with minimal adjustment



Reliable Performance

- ✓ High-stability spindle engineered for consistent cutting performance
- ✓ Integrated rigid machine structure for long-term durability
- ✓ Key electrical and mechanical components sourced from globally trusted manufacturers



Designed for Everyday Production

- ✓ 19.5" touchscreen interface for simple operation
- ✓ Remote monitoring capability for unattended milling
- ✓ 10-tool automatic changer for uninterrupted workflows

Various materials and indications

Zirconia	PMMA	PEEK	Wax	Composite resin

Crown/Bridge	Veneer	Inlays/Onlays	Abutments	Denture
Model cast	Occlusal splint	Screw-retained bridge	Surgical guide	



Half-open blank holder(C-CLAMP)

- Suitable for processing φ98mm discs
- Enables 5-axis milling up to 90° axis adjustment
- Maximum material thickness 35mm



Block holder

- 6 processing positions
- Applicable to block materials: zirconia, composite resins, PMMA



Tools

Zirconia Milling Burs

T01 2mm Ballmill
Item No.: 602361



T02 1mm Ballmill
Item No.: 602362



T03 0.6mm Ballmill
Item No.: 602363



T04 0.3mm Ballmill
Item No.: 602364



T09 1.6mm T-Cutter
Item No.: 602360



Resin Milling Burs

T06 2mm Ballmill
Item No.: 602365



T07 1mm Ballmill
Item No.: 602366



T04 4mm Ballmill
Item No.: 602367



T04 3mm Ballmill
Item No.: 602370



T08 1.5mm Bullnose
Item No.: 602372



T10 1.4mm T-Cutter
Item No.: 602371



Z1 CAM PRO



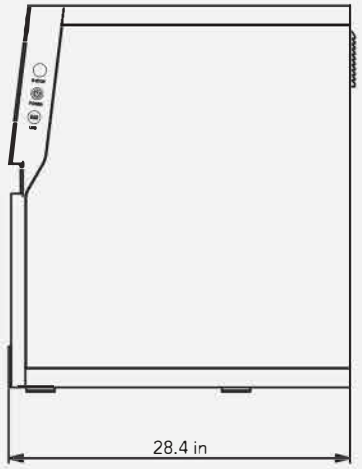
Filter System	Permanent filter
Power	700W (110V)
Weight	73 lbs
Suction capacity in l/s	15-50
Size	7.9 x 26.6 x 23.2 in

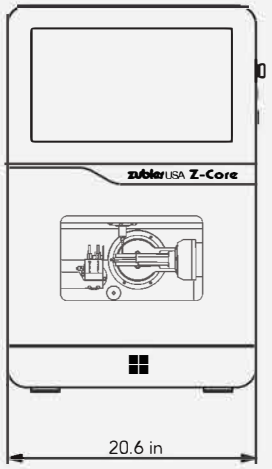
Technical Parameters

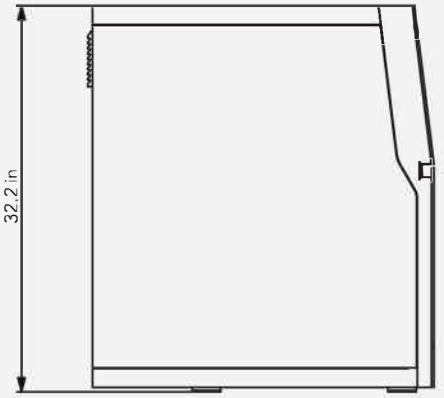
General	
Processing mode	Dry
Millable material	Zirconia, PMMA, Wax, PEEK, Composite
Applications	Crown | Bridge, Veneer, Inlay | Onlay, Abutment, Denture, Screw-retained bridge, Model cast, Surgical guide
Power	220V/1.8kW
Dimension	20.6 x 28.3 x 32.3 in
Weight	287 lbs

Structure parameters	
Basic construction	Aluminum
Number of axis	5
Rotary axis A-axis	360°
Rotary axis B-axis	-30°~+90°
Tool	10

Spindle	
Speed	60,000 rpm
Power	800W
Positioning/Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ4 mm









ABOUT US

Established in 2012, Zubler USA embarked on a mission to revolutionize the dental industry by providing solutions and unparalleled support. Over the years, we have grown into a reliable resource for dental laboratories and in-house dental laboratories, offering a comprehensive range of products that empower companies to achieve exceptional results.

We are committed to excellence in every aspect of our business. From sourcing top-tier dental lab equipment to delivering outstanding customer service, we prioritize quality, precision, and innovation. We aim to provide a comprehensive range of dental laboratory supplies and solutions that not only meet but exceed the needs of our customers.

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