zublerUSA

Z-Core Pro

Engineered for Daily Production.

5-AXIS MILLING ACROSS ALL RESTORATIVE MATERIALS



Dry • Wet

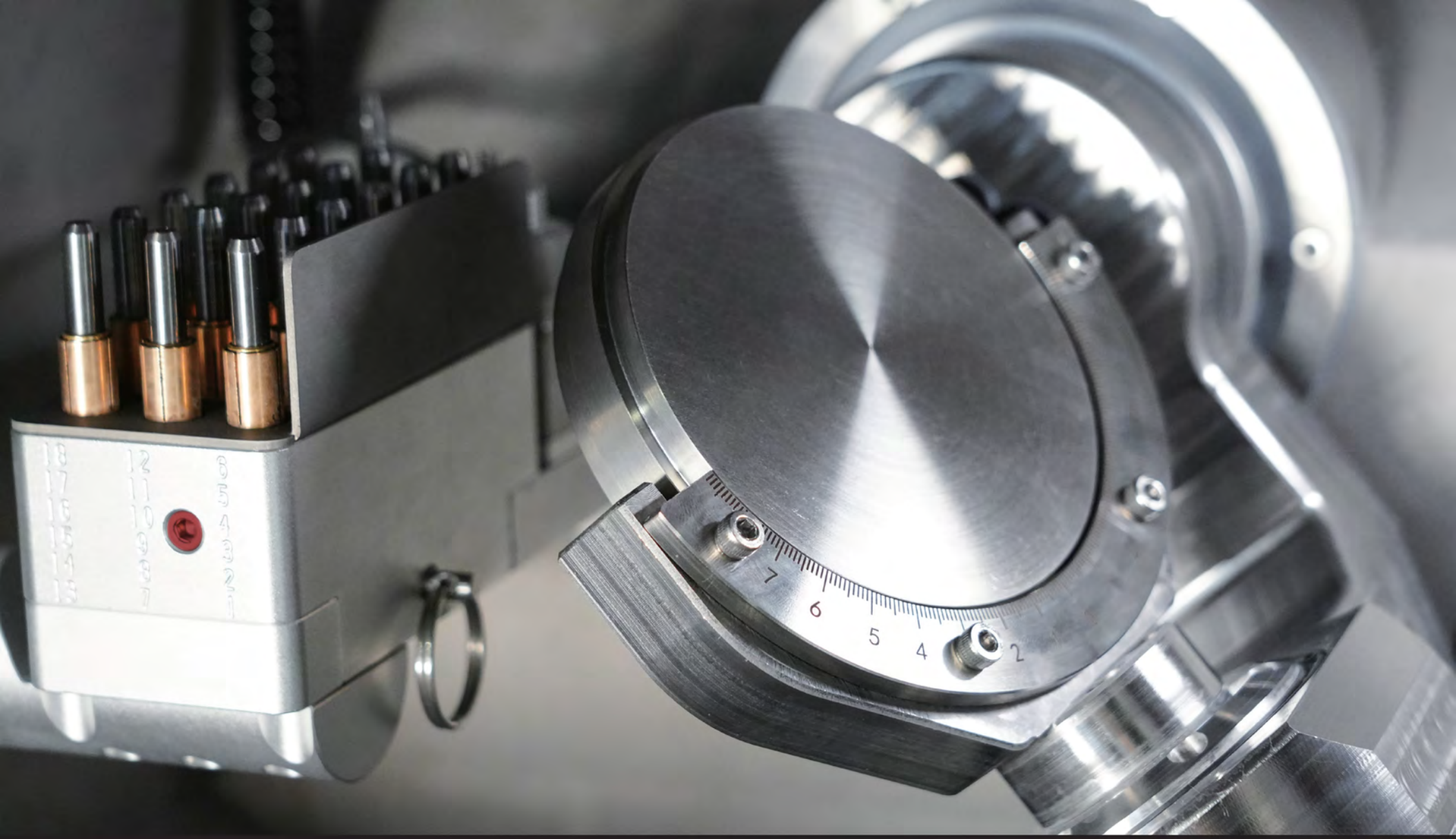
5 Axis

18×2 Tools

1 Disc

3 Pre-milled

6 Blocks



5-axis
machining

Auto
calibration

90°
vertical machining

Removable
tool magazine

Modular
integrated

Your Digital Dental Milling Journey Starts Here - With the Versatile Z-Core Pro

Built for Production. Engineered for Precision.

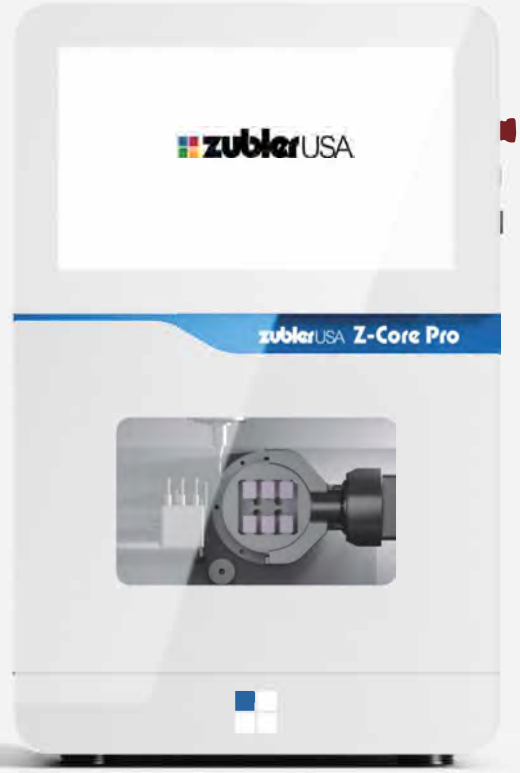
Z-Core Pro is a true 5-axis production system designed to handle zirconia, titanium, PMMA, glass ceramics, and preforms with uncompromising consistency. Powered by a robust 2.5kW water-cooled spindle, it delivers the strength, stability, and repeatability modern laboratories demand - day after day.

Engineered to Simplify Advanced Production.

Z-Core Pro reduces operator dependency through intelligent automation. Its dedicated wet/dry separation system protects critical components while optimizing performance across all materials. Automatic calibration maintains precision from job to job, and integrated self-cleaning minimizes downtime - keeping your production consistent and efficient.

An Open Milling Platform Designed Around Your Workflow.

Z-Core Pro integrates seamlessly with leading CAM platforms such as Millbox and hyperDENT, allowing you to maintain the software environment you trust. Its modular architecture supports future expansion, protecting your investment as your production demands grow.



Processing mode	Wet & Dry
Millable material	Titanium, Pre-milled blank, Glass ceramics Zirconia, PMMA, PEEK, Wax
Basic construction	Aluminum
Tool	18×2 (Removable tool magazine)

Number of axis	5
Spindle power	2.5kW
Spindle collet	φ6mm
Spindle cooling method	Water cooling
CAM Software Adaptation	Millbox / Hyperdent

Discover What's New in the Z-Core Pro

THE CLASS-LEADING DENTAL MILLING SOLUTION
EXPERIENCE IT NOW!



Built-in automatic calibration

- ✓No external wiring required
- ✓Guided calibration
- ✓Ultra-high precision: 0.01mm



Integrated design

- ✓Integrated base cabinet for vacuum, water tank,and cooler
- ✓Most convenient to move



Easy-to-use operating system

- ✓True wireless remote function: control device/transfer files
- ✓Win10 system
- ✓Guided access, minimal training required



The Perfect Balance of Design Aesthetics & Practical Functionality

Ultra-HD Touchscreen Control.

The high-resolution touchscreen, paired with a Windows-based interface, delivers a clear and responsive operating experience. The expansive display allows full job visibility without constant zooming, while precise touch response minimizes input errors during daily operation.

Refined Exterior. Simplified Maintenance.

The glass front panel and metal housing combine durability with a clean, industrial aesthetic. Dust-resistant surfaces wipe down quickly, supporting a cleaner workspace even in high-volume environments.

Integrated Status Indicator.

The color-coded status light, positioned below the machine door, provides immediate visual feedback on machine activity and job progress — allowing operators to monitor production at a glance.

Electromagnetic Door System.

The motorized electromagnetic door ensures secure, consistent operation without mechanical wear associated with traditional magnetic systems.
Its wide-opening design provides unobstructed access for material changes, maintenance, and cleaning.

Where Design Meets Function.

A balanced integration of industrial design and practical usability — engineered for both performance and long-term durability.



Key Features at a Glance





Precision Engineering

- ✓ C5-grade high-precision ball screws
- ✓ P-grade linear guide rails
- ✓ High-resolution servo control system
- ✓ 5 µm repeatability
- ✓ Hybrid ceramic spindle bearings (<3 µm concentricity)





Advanced Multi-Material Capability

- ✓ 90° vertical machining architecture for broad material flexibility
- ✓ Pre-calibrated fixture scales for indication-specific setups
- ✓ Automatic calibration to reduce material waste and improve consistency



Precision Engineering

- ✓ 2.5kW high-torque spindle (supports discs up to 62 mm)
- ✓ Integrated cast machine body for maximum rigidity
- ✓ Professional water-cooled system to extend spindle life





Intelligent Tool & Workflow Management

- ✓ Automatic tool changer (ATC)
- ✓ Dual wet/dry milling architecture with removable tool holder

Various materials and indications

Zirconia	PMMA	PEEK	Composite
Titanium	Pre-milled	Glass ceramics	

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





Block holder

·6 processing positions

·Applicable to block materials:
glass ceramics, zirconia, resins, PMMA



Half-open blank holder(C-CLAMP)

·Enables 5-axis milling up to 90° axis adjustment

·Maximum material thickness 35mm



Multiple Premill Systems Available

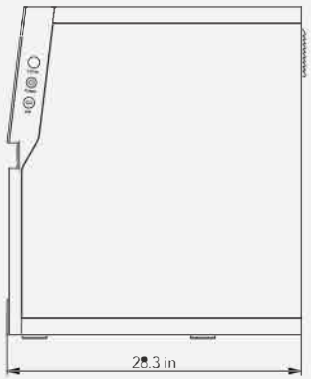
·3 positions for pre-milled blank

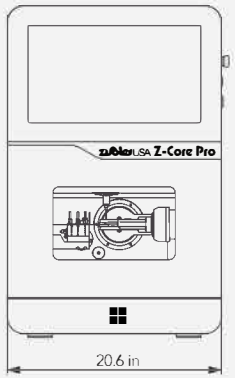
Technical Parameters

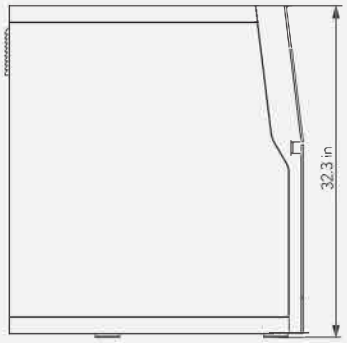
General	
Processing mode	Wet & Dry
Millable material	Zirconia, Glass ceramics, Plastics I Wax, PEEK, Composite, Titanium
Applications	Crown I Bridge, Veneer, Inlay I Onlay, Abutment, Denture, Screw-retained bridge, Model cast, Occlusal splint, Surgical guide, Implant bar
Power	220V/3.2kW
Dimension	20.6 x 28.3 x 32.3 in
Weight	286.6 lbs
Air supply pressure	>0.5 MPa
Air flow	>90 L/min
Water tank capacity	10L

Structure parameters	
Basic construction	Aluminum
Number of axis	5
Rotary axis A-axis	360°
Rotary axis B-axis	-30°~+90°
Tool	18×2

Spindle	
Speed	60,000 rpm
Power	2.5kW
Positioning/Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ6 mm
Cooling method	Water cooling









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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