Z-Apex Pro

The 5-axis milling machine for wet and dry machining



- *All materials available*
- *Automatic disc changer*
- *Industrial grade automatic calibration*

5 Axis | 18 Tools | 8 Discs | 40 Pre-mill | 48 Blocks | Wet / Dry

zublerUSA

Highlights!

The reason to choose Z-Apex Pro.



Just one is enough

The Z-Apex Pro features an integrated floor-standing structure, enhancing the machine's rigidity and stability. It is also equipped with a powerful spindle, enabling the milling of metal materials and a vast range of other materials. This versatility meets the needs of many laboratories, offering a cost-effective solution for multi-purpose use.



Comfort to use

The changer and tool magazine are separated from the sealed milling enclosure, solving the problem of the changer and magazine being easily contaminated and difficult to clean. At the same time, you can select an automatic wet/dry switch module, making the Z-Apex Pro more convenient and comfortable to use.



Non-stop machining

The Z-Apex Pro is equipped with an 8-slot rotary automatic disc changer, which enables continuous processing. Once the material to be processed has been clamped in the fixture and placed in the changer, the machine will automatically grab it and begin working.
Ultimately, this results in greater efficiency in the use of equipment and a reduction in the time spent by personnel.



Industrial-grade automatic calibration

The Z-Apex Pro is equipped with an industrial-grade probe head, ensuring high measurement accuracy. The device is integrated into the machine's working chamber and is capable of setting the automatic calibration frequency, enabling the calibration of each axis and automatic compensation within the system based on the calibration results. Furthermore, the probe is capable of locating prefabricated materials, such as premills, to guarantee precision during milling.



MORE ADVANTAGES! MORE FEATURES!

High accuracy

- C5 grade high precision ball screw and P grade guide rail
- Premium spindle with precision bearing, powerful 2.5kW and 60,000 rpm
- High resolution encoder servo control system
- Rotary repetitive positioning high precision harmonic reducer
- 5μm repetition accuracy

High efficiency

- Automatic disc changer for 8 discs, 48 blocks or 40 abutments
- Automatic Tool Magazine for 18 tools
- Zero-point quick change

Maximum variety

- 62mm diameter water-cooled spindle, good equipment rigidity, can process metal and all other dental materials
- 3 types of holders available for 98mm disc, block, pre-milled blank
- Large application due to a ±30° rotation angle in the 5th axis, and up to 35 mm discs

Stable

- Cast aluminum body
- Floor-mounted structure, with a heavier base to reduce vibration
- Steel C-type B-axis



Strong reliability

- 24-month warranty for core non-destructive parts
- 24-hour remote service

Strong scalability

- Integrated camera, ionizer, and remote management capabilities.

Z-Apex Pro

Integrated Status Indicator

The color-coded status light, positioned at the top left of the machine, provides immediate visual feedback on machine activity and job progress — allowing operators to monitor production from across the lab floor.

Automatic Disc Changer

8-slot
RFID identification
Separate from the milling enclosure



Automatic Tool Magazine



18 tools
Removable milling tool holder

Built in camera



Appearance

15-inch HD display (Win10 system UI)
All-glass material on front
Illuminated logo and RGB LED
Floor-standing moveable body

Powerful Spindle

2.5kW
Torque 0.48Nm
Water cooling



Automatic Calibration Probe

Industrial grade, accuracy 3um
IP68 protection level



Filtering System

35L liquid tank
Easy filter replacement

Millable Materials

Zirconia	Glass ceramics	Plastics | Wax	Composites
Pre-milled Blank	Titanium	Cocr	

Holder Types



Half-open blank holder(C-CLAMP)

· Standard
· Suitable for processing ϕ98mm zirconia discs, resin discs, titanium discs, etc
· Enables 5-axis milling up to 90° axis adjustment
· Maximum material thickness 35mm



Block holder

· Standard
· 6 positions, suitable for blocks of glass ceramics, resin and zirconia
· Glass-ceramic block size I13/C14/C16/B32/B40 available
· PMMA and zirconia block Size
18*13*15/20*15*14/20*15*19/40*15*14/40*15*19/55*15.5*19 available



Premill Abutment holder

· Standard
· 5 positions, Suitable for pre-milled blank
· Integrated systems Arum, Geo, manix, Yenadent, NT-trading
· Arum system standard, other system holder optional

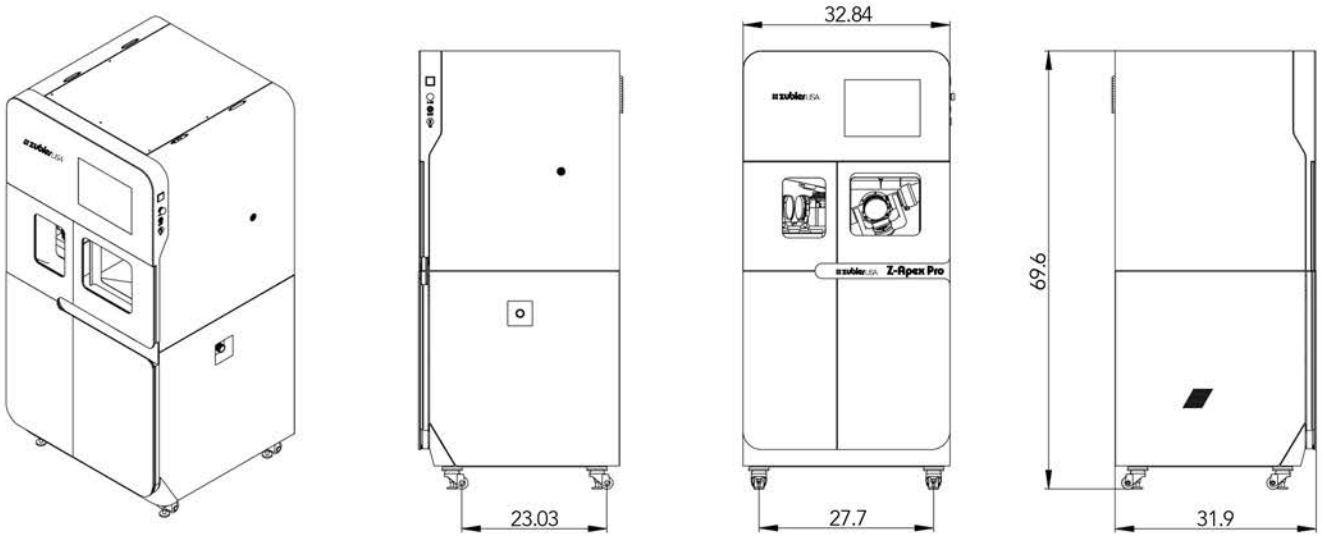
Z1 CAM PRO

Parameters	
Power	700W (110V)
Size	7.9 x 26.6 x 23.2 in
Filter System	Permanent filter



General	
Processing mode	Wet & Dry
Millable material	Zirconia, Glass ceramics, Plastics | Wax, Composite, Premill, Titanium, CoCr
Applications	Crown | Bridge, Veneer, Inlay | Onlay, Abutment, Denture, Screw-retained bridge, Model cast, Occlusal splint, Surgical guide, Implant bar
Power	220V/3.5kW
Dimension	32.9 X 31.9 X 69.7 in
Weight	727.5 lbs
Air supply pressure	>0.5 MPa
Air flow	>100 L/min
Water tank capacity	35L
Structure parameters	
Basic construction	Aluminum
Number of axes	5
X-axis working stroke	280mm
Y-axis working stroke	135mm
Z1-axis working stroke	105mm
Z2-axis working stroke	165mm
Rotary axis A-axis	0~360°
Rotary axis B-axis	-30°~+30°
Tool	18
Tool setting accuracy	0.01mm
Maximum feed speed	4000mm/min
Maximum idle speed	8000mm/min
Spindle	
Speed	10,000~60,000 rpm/min
Power	2.5kW
Collet	Φ6 mm
Cooling method	Water cooling
Scope of delivery	
CAM Software	Millbox / Hyperdent
Clamps	Half-open blank holder(C-CLAMP)
	Block holder
	Premill Abutment holder

Z-Apex Pro Outline Dimensions (in)



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