

The milling master!

W5 Pro

The floor-standing type 5-axis milling machine
for dry and wet machining



• Self-calibration

• Large spindle and high rigidity

24*2
Tools

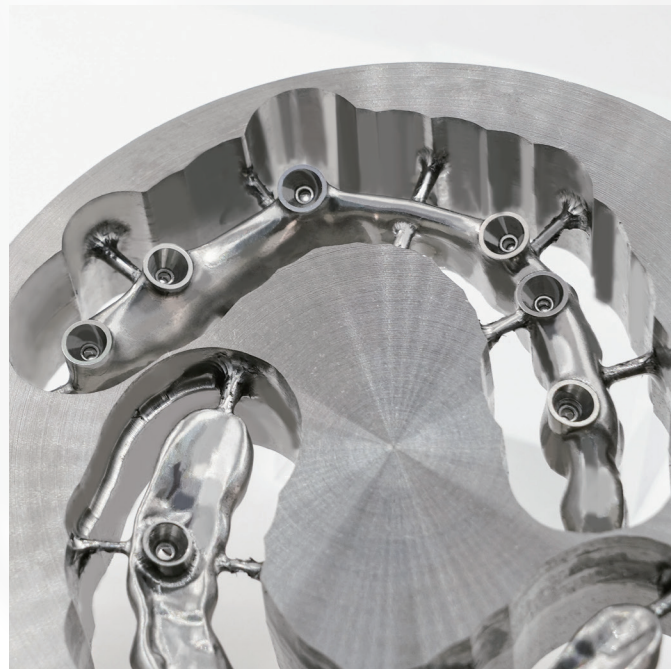
1
Discs

4
Pre-milled

8
Blocks

Zero point quick change

Highlights!



Professional milling: Stable value contribution

W5 Pro has been continuously tested and optimized in the processing of various materials, and can easily complete various indications to meet all your business needs.

- | | | | |
|--------------------|-----------------|------------|-------------------|
| ✓ CoCr | ✓ Titanium disc | ✓ Zirconia | ✓ Glass ceramic |
| ✓ Pre-milled blank | | ✓ PMMA | ✓ Composite resin |

Good milling result

W5 Pro has a powerful spindle, a solid frame and precise transmission; their cooperation ensures excellent milling results and restores the design details.

Fast and stable value creation

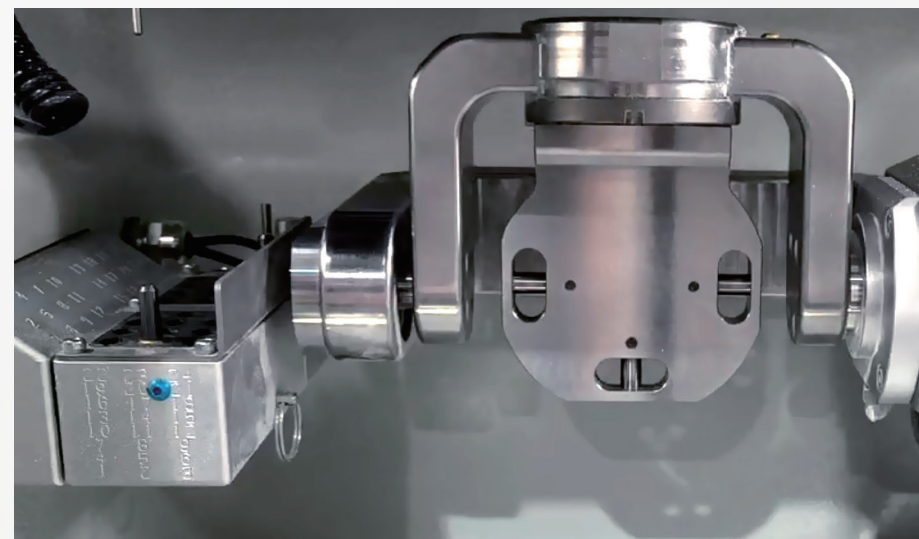
W5 Pro is a trustworthy device that creates value faster while ensuring the effect.

• Self-calibration

Automatic calibration allows the equipment to undergo built-in calibration every time it is processed, ensuring milling accuracy.

• Zero-point quick change:

Zero-point quick change makes the replacement of milling materials faster and more stable, saving time.



More features! More advantages!

High accuracy

- C5 grade high precision ball screw and P grade guide rail.
- High resolution encoder servo control system.
- 5 μm repetition accuracy.
- Ball bearing made of hybrid ceramic for the highest concentricity $< 3\mu\text{m}$.
- Zero point quick change accuracy $\leq 5\mu\text{m}$.

Stable

- 2.5kw $\Phi 62\text{mm}$ spindle.
- Floor-mounted integrated casting is stronger and more stable.
- Stainless steel A B axis Support, strong intensity.
- Professional water-cooled spindle, longer life.
- Titanium column auto-calibration
- Glass-ceramic auto-calibration.

Maximum variety

- Large rotation angle, A axis $\pm 360^\circ$, B axis $\pm 30^\circ$.
- C-CLAMP holder suitable for processing $\varnothing 98 \times 35\text{mm}$ (max) zirconia discs, resin discs, titanium discs...and support 90° milling
- 8-position block holder suitable for glass ceramic.
- 4-position premill abutment holder with reverse clamping capability to avoid machining and grinding of titanium premill blanks.

Smart

- Windows10 operating system.
- Remote operation: remote heat-up; remote management of tasks and files;
- Built-in camera: remote recording and loop recording; no blind spots in camera;

Easy to operate, upgraded functions

- Secondary filtration system.
- The observation window is easy to maintain.
- Dry-wet conversion and separation are easier, pipeline separation.
- Smart safety lock for the equipment.



Details! 100% understanding of the W5 Pro

✓ Powerful Spindle

*2.5kW $\varnothing 62\text{mm}$ *Torque 0.48Nm
Water cooling

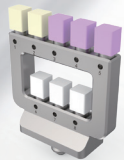
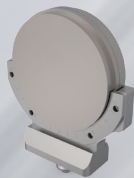


✓ Automatic Tool Magazine

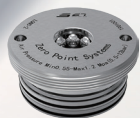
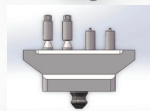
24 tools, Double tool magazine
Monitoring of tool wear length and breakage

✓ 3 holders

Available for discs/blocks/pre-milled blanks

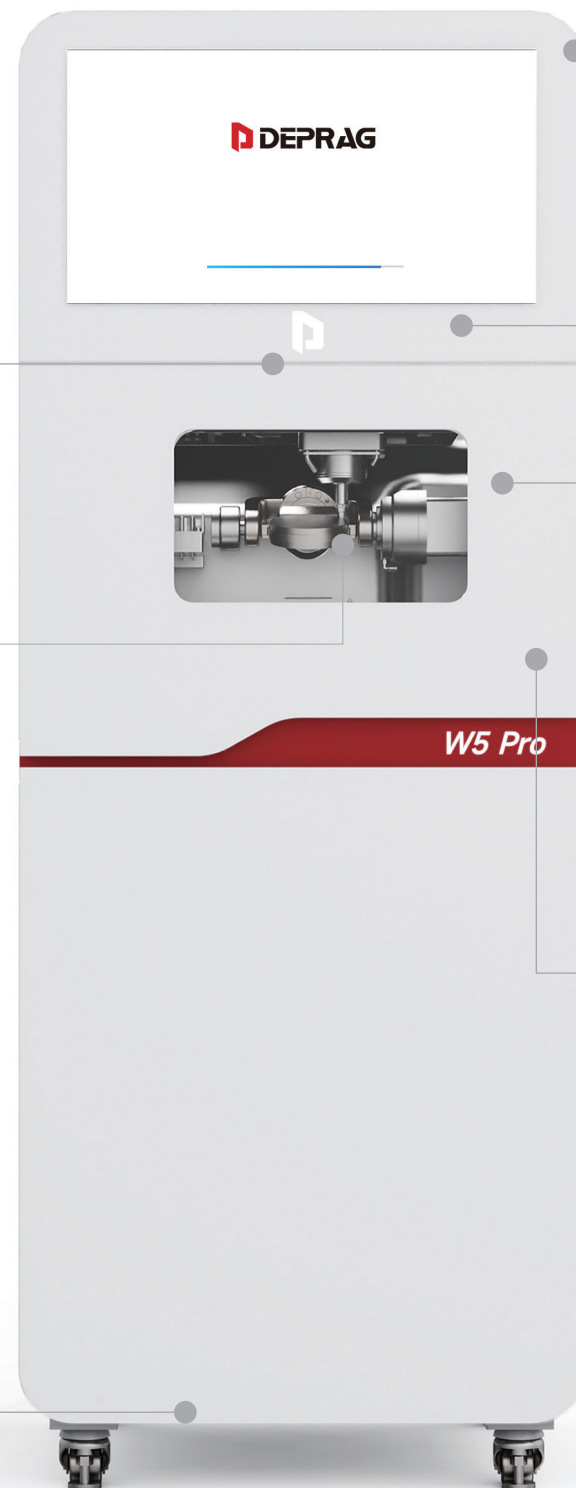


*Support reverse clamping, less grinding.



Zero point clamp,
complete replacement in 2 seconds.

✓ Floor-standing movable body



✓ Appearance

HD display (Win10 system UI)
All-glass material on front

✓ Self-calibrating

✓ Built-in camera



✓ Wet and dry conversion^(option)

Automatic spraying device;
Separation of dry and wet pipes;
Independent cleaning module.

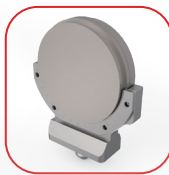
Machinable materials

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

Applications

Crown Bridge	Inlays Onlays	Abutments	Telescopic crown
Model cast	Occlusal splint	Implant bar	Model tooth die
Veneer	Surgical guide	Denture	Screw-retained bridge
Secondary crown	Protrusion splint		

Holder Types



Half-open blank holder(C-CLAMP)

- Standard
- Suitable for processing $\phi 98\text{mm}$ zirconia discs, resin discs, titanium discs, etc
- Enables 5-axis milling up to 90° axis adjustment
- Maximum material thickness 35mm



Block holder

- Standard
- 8 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
- 4 positions, Suitable for pre-milled blank
- Integrated systems Arum, Geo, Medentika
- Reverse clamping can greatly improve efficiency and quality. (optional)

Milling Burs

Zirconia milling burs

2.0/6.0mm Roto, Diamond coated	1.0/6.0mm Roto, Diamond coated	0.6/6.0mm Roto, Diamond coated	1.5/6.0mm Flat, Diamond coated	0.3/6.0mm Roto, Diamond coated
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Resin milling burs

2.0/6.0mm Roto, Diamond coated	1.0/6.0mm Roto, Diamond coated	0.6/6.0mm Roto, Diamond coated	1.5/6.0mm Flat, Diamond coated
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Titanium milling burs

3.0/6.0mm Roto, Diamond coated	2.0/6.0mm Roto, Diamond coated	1.5/6.0mm Roto, Diamond coated	1.0/6.0mm Roto, Diamond coated	0.5/6.0mm Roto, Diamond coated
2.0/6.0mm End mill, Diamond coated	1.5/6.0mm End mill, Diamond coated	1.5/6.0mm End mill, Diamond coated	2.5/6.0mm Drill, Diamond coated	1.5/6.0mm Drill, Diamond coated
2.0/6.0mm Flat, Diamond coated	1.0/6.0mm Flat, Diamond coated	2.0/6.0mm Flat, Diamond coated		

Glass ceramic milling burs

2.5/6.0mm Roto, Diamond coated	1.0/6.0mm Roto, Diamond coated	0.6/6.0mm Drill, Diamond coated
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Vacuum Cleaner (Optional)

Parameters	
Power	360W(220V~50/60HZ)
Size	260mmx420mmx450mm
Capacity	3.6L



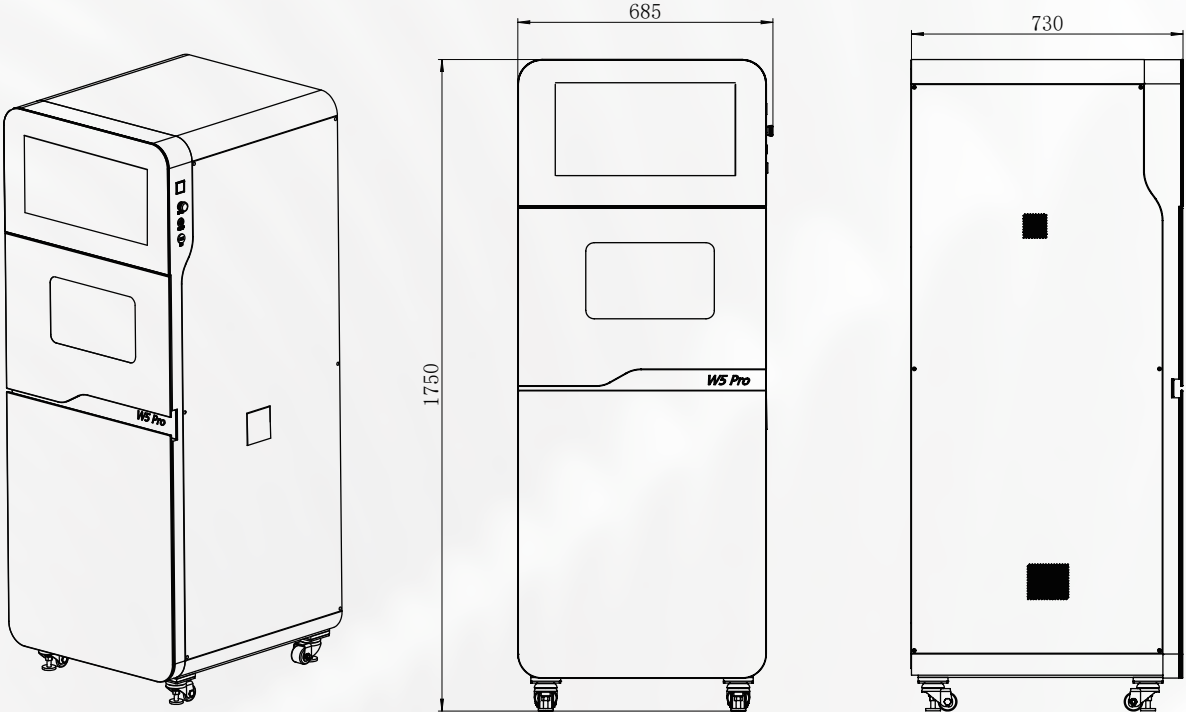
Wet and dry conversion (Optional)

Parameters	
Size	335mmx225mmx350mm
Capacity	30L



Equipment parameters

General	
Processing mode	Dry&Wet
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
Dimension	685 × 730 × 1750mm
Weight	300 kg
Power	220V/3.5kW
Air supply pressure	>0.5 MPa
Air flow	>100 L/min
Structure parameters	
Basic construction	Iron
Number of axes	5
X-axis working stroke	220mm
Y-axis working stroke	145mm
Z1-axis working stroke	130mm
Rotary axis A-axis	0~360°
Rotary axis B-axis	-30°~+30°
Tools-positions	24×2
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 / WorkNC available
Clamps	Half-open blank holder(C-CLAMP)
	Block holder
	Premill Abutment holder



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