



P42

German quality, immediately
take and wear



Digital technology improves life

**4 Axis Intelligent Wet
Dental Grinding Machine**



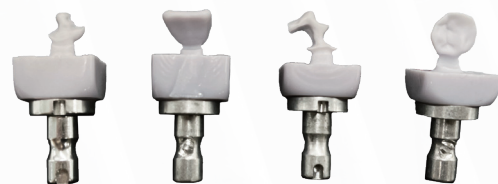
P42 is a newly upgraded wet dental grinding machine with 4 axis, applicable for grinding the glass ceramic and titanium abutment.

Original component imported from Germany, capable of grinding 3 glass ceramic blocks or 1 Premilled abutment.

Ensuring the milling precision and controlling the milling product quality efficiently to make sure it is conforming the clinical milling standard, with auto calibration, resume milling and undercut removal functions, etc.

Grinding with clear water, ultrathin veneer

1. Grinding with clear water, no need other grinding fluid, care for the material, say goodbye to cumbersome waste disposal.
2. Capable of grinding multiple materials, up to 0.2mm ultrathin veneer, applicable for high precision grinding of all types of immediate restorations.



Consistent quality with German system

Adopting core algorithm and imported spindle from Germany, water-cooling structure spindle makes more stable grinding of hard material and ensures milling precision.



Undercuts removal, remote monitoring

1. Capable of milling for removing undercuts by swinging $\pm 20^\circ$ of A axis to make sure every restoration can wear immediately after milling.
2. Simple and easy to use, connected to UPLink platform for remote monitoring, intelligently and highly efficient



01 Built-in computer

no need to connect to the external computer

02 Auto calibration

auto calibration, keeping the machine working with high precision by auto calibration every week, worry-free and stable grinding

03 Tools life monitoring

monitor and solve the tools issues in time by UPCNC software, which can reduce the abnormal grinding risks.





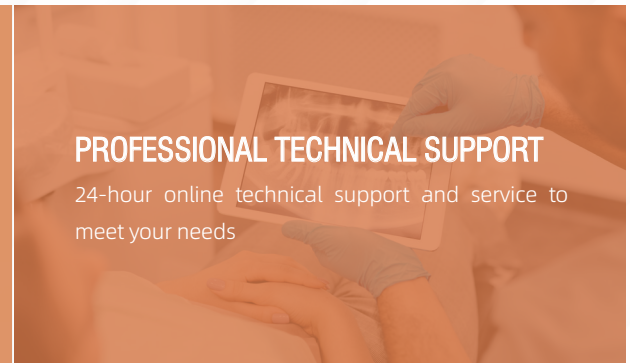
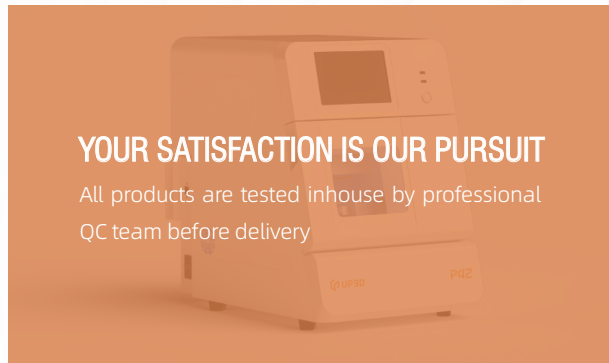
Other Functions

Resume grinding

one-button to resume the grinding position of last time after accidentally suspending, which avoids repeated grinding efficiently and lowers the production cost

Glass ceramic

capable of grinding 3 glass ceramics or 1 premill abutment at the same time with only one nesting, no need to load and unload the materials repeatedly for high efficient production

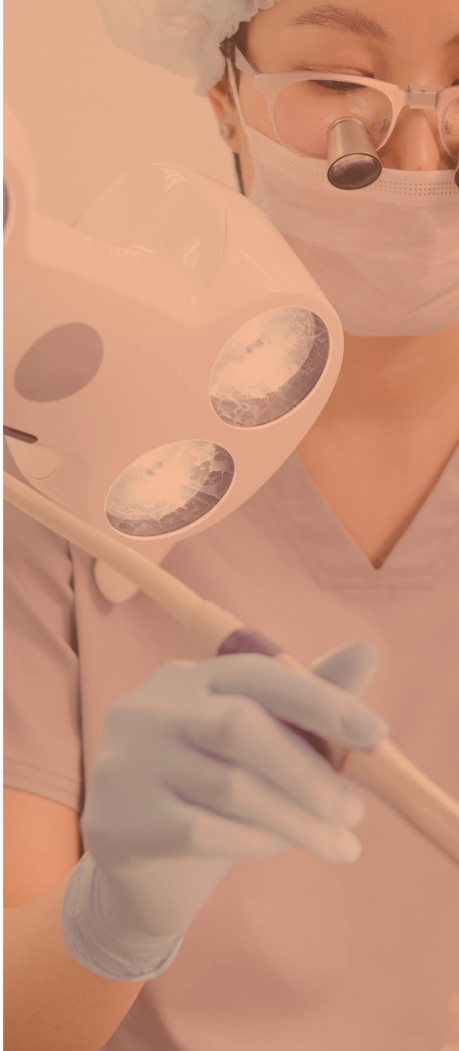


Parameters

4 axis intelligent wet dental grinding machine



Model	P42
Application field	Wet grinding
Axis quantity	4
Grindable materials	Glass ceramic, Premilled abutment
Indication	Coping, anatomical crown, screw-retained crown, inlay/onlay, veneer, telescopic crown, abutment
Linear axis X/Y/Z	Driven by precision ball screw (distance of travel of X/Y/Z axis : 110/75/50)
Rotation axis A	±360°
Lightning device	LED bar displays the machine status
Camera system	built-in camera to monitor the grinding status
Spindle	Imported spindle from Germany, tools changing by air (air pressure>0.5,Pa)
Rotation speed	60,000rpm at maximum
Tools diameter	4Φ
Spindle power	0.39KW at maximum
Tools changing	6 tools library
Air compression	0.5-0.8MPa, 45 L/min
Voltage/frequency	100VAC ~ 130VAC, 200VAC ~ 235VAC (two options) 50~60Hz
Data transmission	Wi-fi, USB, ethernet
Working temperature range	10 °C ~ 50 °C
Working air humidity	Below 93% RH, no condensation
Dimension	LxWxH=560x400x565mm
Weight	80kg
CAM software	UPCAM, Millbox
Jig	Premill abutment jig for multiple implant systems (optional)





UP3D is a high tech company and the few companies in the world that are capable of developing a full dental CAD/CAM solution including software and hardware, from scanning, designing, to milling.

UP3D remains dedicated to our customers' requirements for training and support as well as for innovative, high-quality products that perform reliably. We have native technical support to deal with any after-sales problems to ensure that you can use our products happily.

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