Vsmile®
HappyZir

C512W Smile-Craft

Digital 5-axis Wet Milling Machine



5 Axis

12 Tools

3 fixtures

90° Milling

3.2KW
Spindle output

Modular
Low maintenance cost

1s
Quick-change fixtures

Wifi
Networkable camera

90°
Milling

3
Different types of fixtures

12
Maximum capacity tools

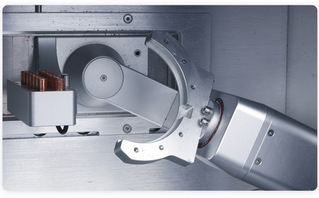
12'
Touchable LED screen

Equipment features

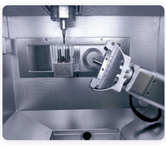
The C512W is a wet 5-axis milling machine for milling PMMA, PEEK, WAX, glass ceramics, Premill Titanium and other materials. It stands out for its futuristic and pioneering appearance, it's a eye-catcher in any laboratory,it excels the function for processing both soft dental materials and hard metals to meet ....

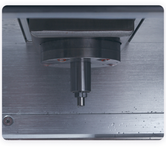
Meet your creative needs efficiently

The **powerful spindle power** provides you with surging force. The **90° vertical processing** and **12 tools** setup enable you to create with meticulous carving.









MD (modular design)

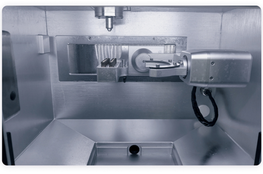
1.Assembling accuracy(≤±0.005mm)
2.Low maintenance cost
3.Easier to update

Large rotation angle

1.A axis: ±360°
2.B axis: -28°, +92°
3.90° vertical processing

Spindle

1.Speed is 60,000 rpm
2.Output 2,200w
3.German spindle is available



Powerful and Diverse functions

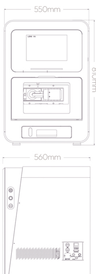
1. 12" touchable LED screen
2. Resolution(1280*800)
3. High sensitivity
4. Equipped with servo motor
5. 5 axes simultaneous system
6. Repeated positioning accuracy(≤±0.005mm)

Equipment parameters

C512W Smile-Craft

Digital 5-axis Wet Milling Machine

Frame material	Cast-aluminum for aviation
Spindle	Made in China
Spindle cooling system	Water-cooling
Millable material	Glass ceramics, Composite resin, Premilled abutment,PMMA, Wax
External dimensions D/W/H(mm)	550/560/810
Weight(kg)	120
Axis motor technology	Digital AC Servo Motor
Power supply(V/A)	AC 100 to 230V 50/60 Hz
Spindle power consumption(w)	2200
Output(w)	3800
Motor speed(rpm)	60,000
Compressed air connection	6 bar 50 L/min
Torque(ncm)	50
Collet chuck(Ømm)	6
Axes	5
Accuracy （μm）	8
Rotary axis travel angle	A aixs: ±360° B axis:-28°, +92°
Shank diameter （mm）	6
Number of burs housed	12
CAM software	Millbox Worknc Hyerdent
Milling time	Premilled abutment ≤15min Glass ceramic ≤20min
Filter and tank system	Built-in



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