Smiles

light up life with smiles

Ownsmile Biotechnology Co., Limited

+852-82262286

+86 18665997520

Info@own-smile.com

www.own-smile.com

Rm 745, 7/F, Star House, 3 Salisbury Road, Tsim Sha Tsui, Kowloon, Hong Kong

Rm 312, Building A2, Fuhai Information Port, Fuhai Street, Baoan District, Shenzhen, Guangdong.

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Ownsmile®

DENTAL MIILLING MACHINE

light up life with smiles



Ownsmile Biotechnology Co., Limited

OS-502D
Dry Dental Milling Machine

Dry dental milling machine offers advanced precision and efficiency, perfect for modern dental laboratories. Specializing in dry milling, it delivers exceptional results for zirconia, PMMA, and other restorative materials, streamlining workflows and enhancing productivity without wet processing.

- Touch Screen
- 5 Axis
- Support Dry
- 9 Tool Changer
- 60,000 rpm

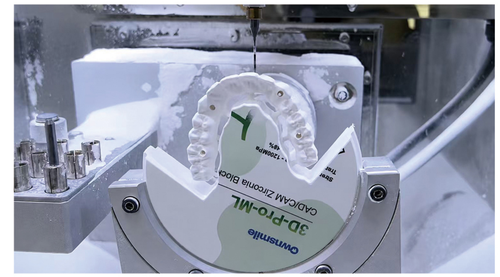


Technical Data

Model	OS-502D
Size	631*479*685 mm
Weight	110kg
Max Spindle Speed	60000rpm
Max Power	1600W
Number of Axes	5
Rotation Angle	A:+360° B:+25°-115°
Tool Magazine Capacity	9 (Air tool)
Cooling Mode	Water Cooling
Processing Method	Dry Milling
Processable Materials	Zirconia, PMMA, PEEK, WAX
Voltage	220-230V/50-60hz

90° Vertical Miling

Perfect for anterior restorations, our 90° vertical milling allows fordelicate texturing on dentures, ensuring a highly refined and natural appearance.



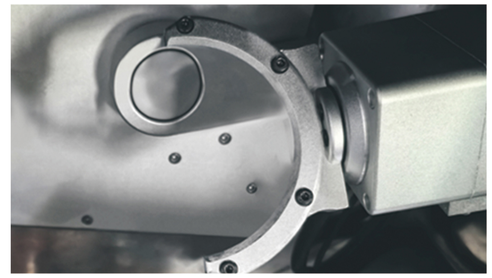
9-Tool Automatic Changer

Efficiently handle multiple tasks with the 9-tool automatic changer, ensuring smooth transitions between tools and reducing downtime for greater productivity.



60,000 rpm Spindle Speed

60,000 rpm high-speed spindle delivers fast, precise milling for detailed restorations and implant cases, helping labs improve efficiency without compromising quality.



Support Materials



OS- 505D Air Free
Dry Dental Milling Machine

OS-505D Air Free is a 5-axis dry dental milling machine built with an air-free spindle, eliminating the need for an external air compressor. It simplifies setup and supports stable milling of zirconia, PMMA, wax, PEEK, and other dry CAD/CAM materials for daily lab workflows.

- Touch Screen
- 5 Axis
- Support Dry
- 9 Tool Changer
- 60000 rpm



Technical Data

Model	OS-505D
Processable Materials	Zirconia, PMMA, PEEK, Wax
Size	631*479*685 mm
Weight	110kg

Spindle

Max Spindle Speed	60000rpm
Max Power	900W
Number of Axes	5
Rotation Angle	A:+360° B:+25°-115°

Structure parameters

Tool Magazine Capacity	9
Spindle Power	500W
Processing Method	Dry Milling
Voltage	220-230V/50-60hz

High-quality spindle, continuous high-precision processing.

It is equipped with a high-quality German spindle, which offers excellent stability and a processing accuracy of 0.01mm. It perfectly showcases the surface texture of the restoration and helps achieve the aesthetic details of anterior teeth.



Air-Free Design: Save costs, reduce noise, and simplify laboratory layout

OS-505D Air Free innovatively adopts an air-free design, significantly reducing laboratory costs; it also significantly lowers operating noise, improving the working environment in the laboratory.



High-Accuracy Milling for Fine Margins and Complex Angles

Precisely mills fine margins, occlusal details, and hard-to-reach areas. Stable multi-axis machining helps preserve restoration accuracy across crowns, bridges, inlays, and implant cases.



OS- 502W

Wet & Dry Miiling Machine

Ownsmile's latest 5-axis milling solution with seamless integration lets you switch between dry milling and wet milling with ease. Need to handle tough materials or complex cases? Every detail, from the smooth interface to precise performance, helps you stay in control. Your results always stay on point.

- Touch Screen
- 5 Axis
- Support Wet & Dry
- 16 Tool Changer
- 60000 rpm



Holder Type



Technical Data

Model	OS-502W
Size	631*479*685 mm
Weight	110kg
Max Spindle Speed	60000rpm
Max Power	2700W
Number of Axes	5
Rotation Angle	A:+360° B:+25°-65°
Tool Magazine Capacity	16 (Air tool)
Cooling Mode	Water Cooling
Processing Method	Dry Milling / Wet Milling
Processable Materials	Zirconia, PMMA, PEEK, WAX, Lithium disilicate, Titanium, Premill
Voltage	220-230V/50-60hz

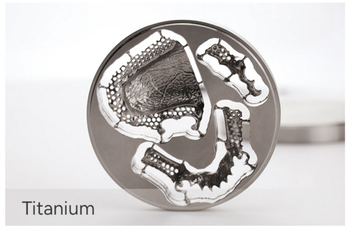
Support Materials


Glass Ceramics


Zirconia Block


PMMA


Premill


Titanium


Wax

One Machine. More Milling Possibilities

From zirconia and glass ceramics to titanium premills, OS-502W combines wet and dry milling in one system to support a wider range of restorative workflows.



- High-Precision Milling for Flexible Material Processing
- Automatic Calibration for Easier Setup
- Breakpoint Resume After Interruption
- Base Cabinet, Chiller, Water Tank & Pump Included

