



MAXX Series

Premium Dental Milling Machine

Your Satisfaction is our Ultimate Goal

Robots and Design



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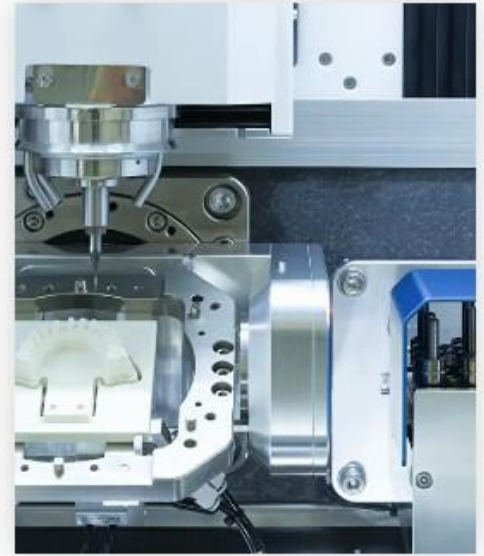
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About us

- Established in 1999, Robots and Design is one of the leading developers and manufacturers of robotics today.
- Based on our knowledge and experience in manufacturing semi-conductor robot for Samsung and SK Hynix, we began to develop dental CAD/CAM in 2008.
- In 2015, we established our subsidiary milling center, Maxx Digm Inc. in Santa Clara, USA. By operating our machines at milling center, we are continuing to test its quality and durability.
- With technical competence, consistent focus on product quality and customer-oriented thinking and acting, we became a reliable partner for our customers.
- As one of the largest milling machine manufacturer in Korea, we are growing rapidly, showing dramatic increase in sales every year. Our aim is to become your Total Milling Solution Provider.

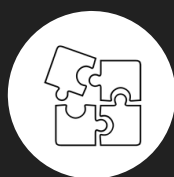
MAXX

Dental Milling Machine for
Dental Labs and Clinics

PREMIUM EDITION



MINIMIZATION OF
POST PROCESSING

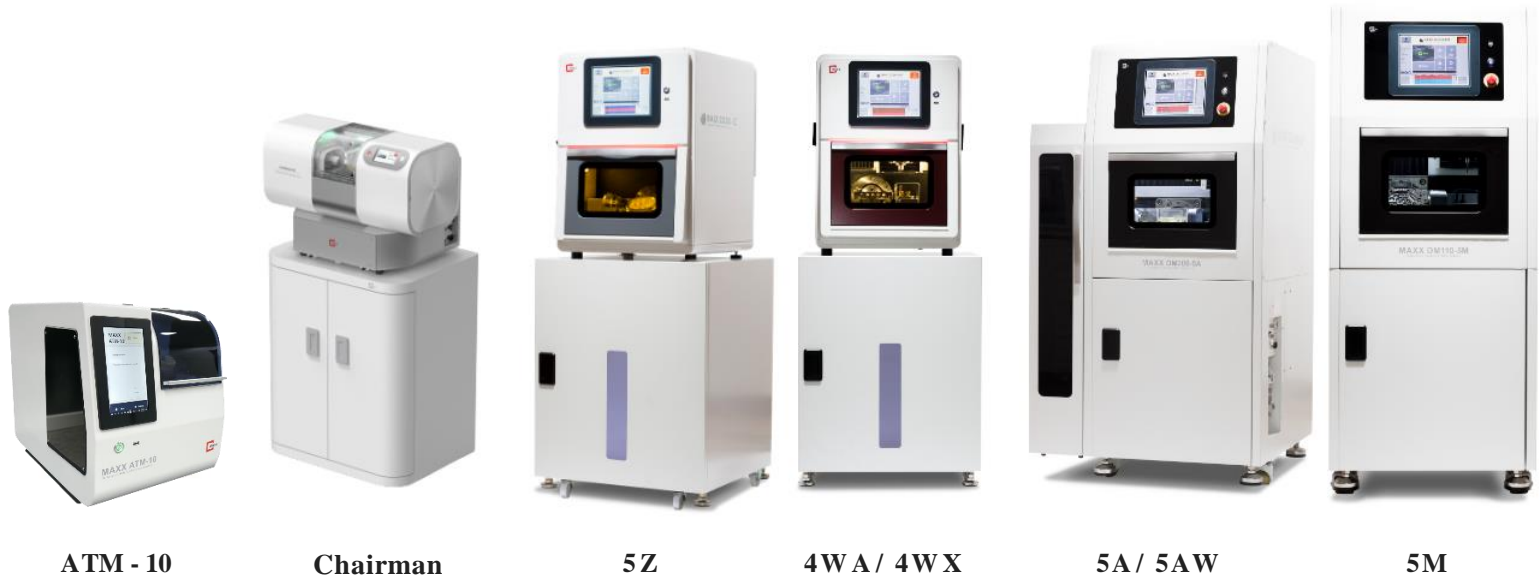


THE BEST FITTING OF
RESTORATIONS



AUTOMATION OF
LOADING &
UNLOADING

MAXX Series



KEY FEATURES

Maximize productivity

- Unmanned overnight and weekend operation by auto loader (MAXX-5A/5AW)
- Operation of multiple machines by remote program (MAXX LINK)
- Automatic tool management (8,12,16 Auto tool changer)

User-friendly MAXX

- Auto calibration
- MAXX LINK for remote service, operation and training
- Continue milling function to save time
- Tool sensor to detect tool breakage
- Compatible with all scanner and CAD (open system)

Fast and powerful spindle

- MAXX-5Z: 0.5kW (60,000 RPM)
- Chairman: 0.5kW (100,000 RPM)
- MAXX-4WX, 5M, 5AW: 2.7kW (60,000 RPM)

AC Servo Motor

- Servo motor suitable for high torque installed in all products
- Stable and precise control and milling

Granite base frame

- Minimized vibration, corrosion and deformation caused by heat
- Enabled coping margin to be thinly designed
- Minimized margin chipping and hand finishing work

Embedded PC (10.1")

- Fast and easy operation Check and change setting of machine easily
- Connect PC and machine with MAXX LINK to check, send files and start milling remotely
- Perform customer service immediately through MAXX LINK



Glass Ceramic



Zirconia



PMMA



Hybrid ceramic




Chairman



Wet milling

Chairside milling for single visit dentistry

No. of axis	5 (3x2)
Size and weight	670W x 450D x 410H, approx. 65kg
Controller and motor	Embedded controller (4.0" touch screen), AC servo motor
Index operating ranges	A=0~180deg
No. of tools and tool spec	Shank diameter : 4 mm, ATC 6 tools
Spindle	Dual spindles, max 0.5kW, 100,000 rpm
Material	Zirconia, PMMA, Hybrid ceramic, Glass ceramic (Block size up to 40 mm)
Applications	Crowns, Inlays, Onlays, Veneers, Bridges
Milling type	Wet
Utility	AC110~230/10A & Built-in compressed air (6.5 bar)
Fixtures	 Pin blocks





Metal



Ti pre-milled blank



Zirconia



Wax



PMMA






Hybrid ceramic

MAXX- 4WA



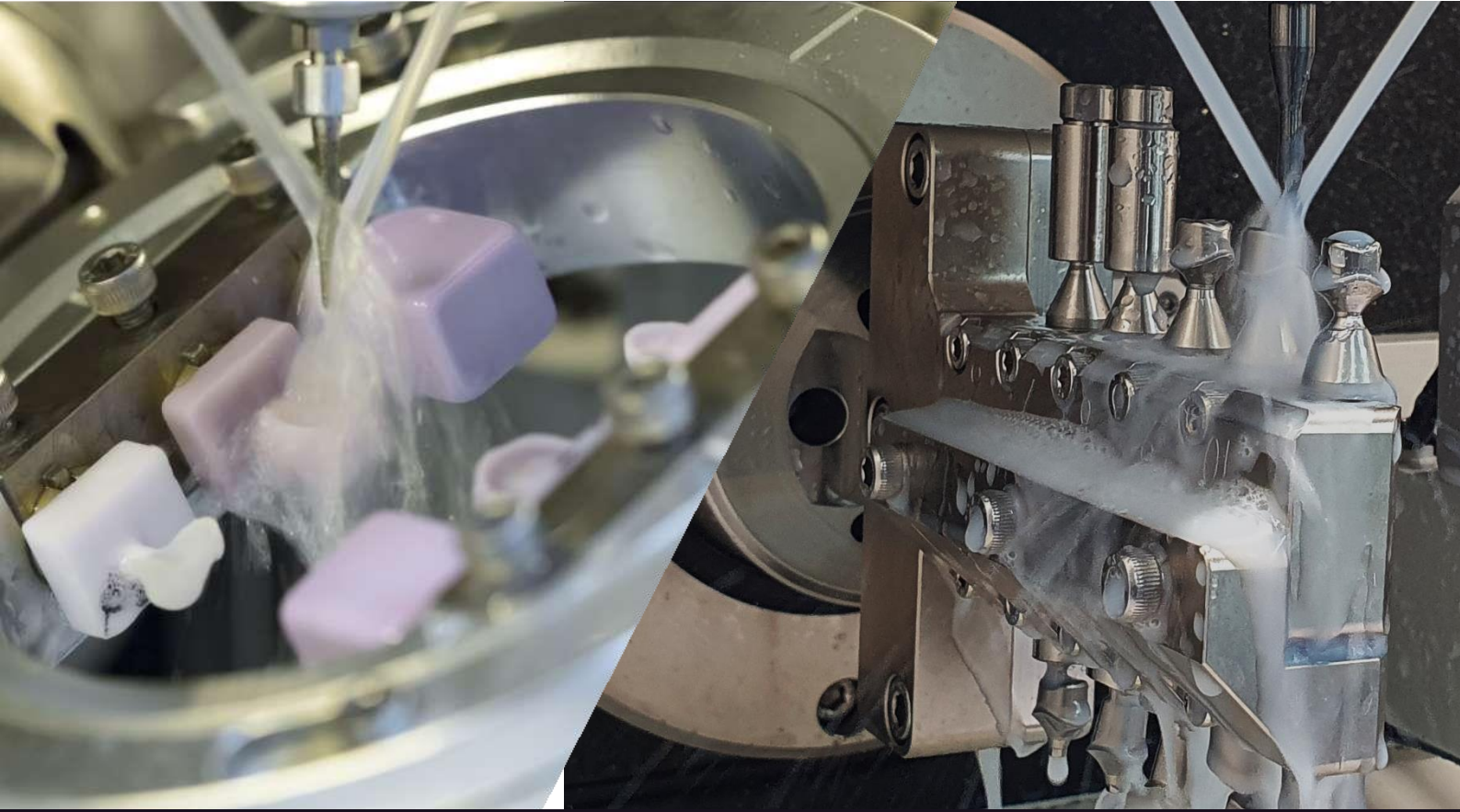
Wet milling

Small, but strong with durability

No. of Axis	4-Axis
Size and Weight	500W x 725D x 712H, Approx. 110kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=0~180deg
No. of tools and tool spec	Shank diameter : 6 mm, ATC 8 Tools
Spindle	High Frequency, S1:1.4KW, Max 2.7KW, 60,000rpm
Material	Metal, Ti pre-milled blank, Zirconia, Wax, PMMA, Hybrid ceramic
Applications	Crowns, Inlays, Onlays, Bridge, SCRPs, Custom Abutment
Milling type	Wet
Utility	AC 200~230V/10A & Compressed air (6.5bar)
Fixtures	 Disc type  Pre-milled blanks 5  Pin type

- Disc (Φ98, height: 10~25mm) and Ti pre-milled blank (5 blanks)





Metal



Ti pre-milled blank



Zirconia



Wax



PMMA



Hybrid ceramic






Glassceramic

MAXX- 4WX



Wet milling

Custom abutment and glass ceramic on one machine

No. of Axis	4-Axis
Size and Weight	500W x 725D x 712H, Approx. 110kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=-180° ~ +180°
No. of tools and tool spec	Shank diameter : 6 mm, ATC 8 Tools
Spindle	High Frequency, S1:1.4KW, Max 2.7KW, 60,000rpm
Material	Metal, Ti pre-milled blank, Zirconia, Wax, PMMA, Hybrid ceramic and Glass ceramic
Applications	Crowns, Inlays, Onlays, Bridge, SCRPs, Custom Abutment (Occlusion milling is available)
Milling type	Wet
Utility	AC 200~230V/10A & Compressed air (6.5bar)
Fixtures	   Disc type Pre-milled blanks 10 Pin type

- Disc (Φ98, height: 10~25mm) and Ti pre-milled blank (10 blanks)





Zirconia



Wax



PMMA






Hybrid ceramic

MAXX-5Z



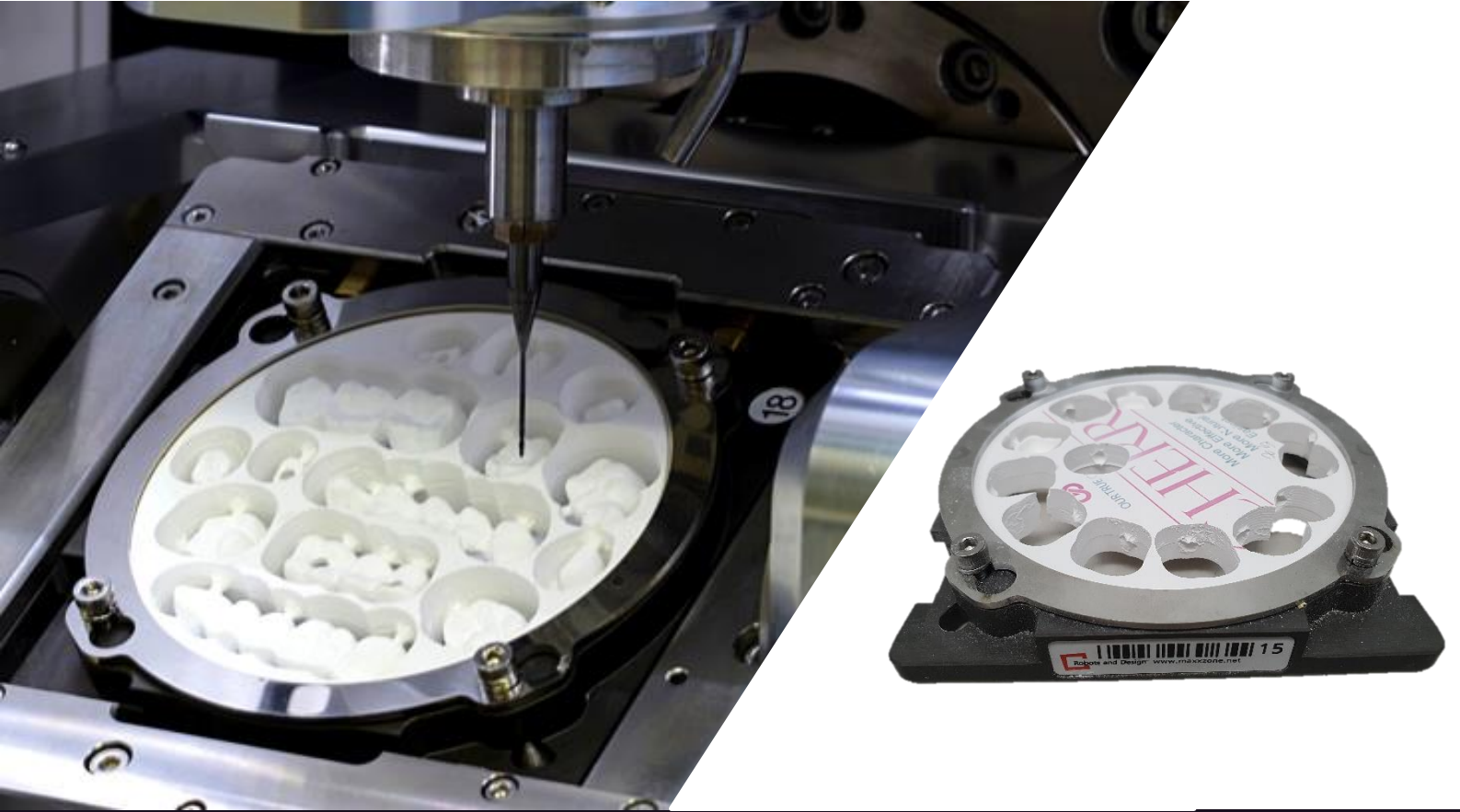
Dry milling

Specialized in precise dry milling

No. of Axis	5-Axis
Size and Weight	500W x 682D x 712H, Approx. 100kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=+36, -32 deg, B=±180deg
No. of tools and tool spec	Shank diameter : 3 mm, ATC 12 Tools
Spindle	BLDC motor, Max 0.5KW, 60,000rpm
Material	Zirconia, Wax, PMMA, Hybrid ceramic
Applications	Crowns, Inlays, Onlays, Bridge (Buccal milling by C type fixture), SCRPs, Denture, Bite splint
Milling type	Dry
Utility	AC 110~230V/10A & Compressed air (6.5bar)
Fixtures	   Disc type C type Pin type

- Disc (Φ98, height: 10~25mm) and Pin type (6 blanks)





Zirconia



Wax



PMMA



Hybrid ceramic






Poly urethane

MAXX-5A



Dry milling

Full automatic system to increase productivity

No. of Axis	5-Axis (Milling machine) + 3-axis (Auto loader robot)
Size and Weight	800W x 800D x 1520H, Approx. 260kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=±25deg, B=±180deg
No. of tools and tool spec	Shank diameter : 6 mm, ATC 16 Tools
Spindle	High Frequency, S1:1.4KW, Max 2.7KW, 60,000rpm
Material	Zirconia, Wax, PMMA, Hybrid ceramic, Poly urethane
Applications	Crowns, Inlays, Onlays, Bridge, SCRPs, Custom Abutment, Denture, Digital Model, Implant bar & Bridge, Bite Splint
Milling type	Dry
Utility	AC 200~230V/10A & Compressed air (6.5bar)
Fixtures	 Disc type  Pin type  Square type

- Disc (Φ98, height: 10~30 mm) and Ti pre-milled blank (6 blanks), Auto loader (18 discs)





Metal



Ti pre-milled blank



Zirconia



Wax



PMMA



Hybrid ceramic



Poly urethane







Glass Ceramic

MAXX-5AW



Wet milling Dry milling

Full automatic system to increase productivity

Auto loader	For loading and unloading 18 discs (Height ~30 mm)
No. of Axis	5-Axis (Milling machine) + 3-axis (Auto loader robot)
Size and Weight	800W x 800D x 1520H, Approx. 260kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=±25deg, B=±180deg
No. of tools and tool spec	Shank diameter : 6 mm, ATC 16 Tools
Spindle	High Frequency, S1:1.4KW, Max 2.7KW, 60,000rpm
Material	Metal, Ti pre-milled blank, Zirconia, Wax, PMMA, Hybrid ceramic, Poly urethane
Applications	Crowns, Inlays, Onlays, Bridge, SCRPs, Custom Abutment, Denture, Digital Model, Implant bar & Bridge, Bite Splint
Operation	Wet & Dry
Utility	AC 200~230V/10A & Compressed air (6.5bar)
Fixtures	 Disc type  Pre-milled blanks 6  Pin type  Square type

• Disc (Φ98, height: 10~30 mm) and Ti pre-milled blank (6 blanks)





Metal



Ti pre-milled blank



Zirconia



Wax



PMMA



Hybrid ceramic



Poly urethane



Glass Ceramic

MAXX-5M






Wet milling



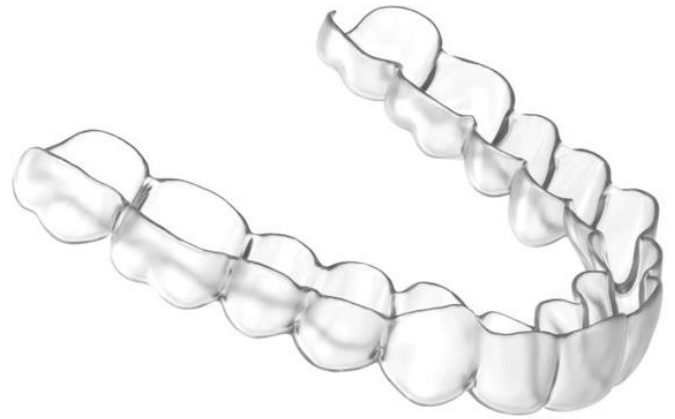
Dry milling

Premium 5-axis system to mill all materials

No. of Axis	5-Axis
Size and Weight	620W x 800D x 1520H, Approx. 220kg
Controller and motor	Embedded PC (10.4" touch screen), AC Servo motor
Index operating ranges	A=±25deg, B=±180deg
No. of tools and tool spec	Shank diameter : 6 mm, ATC 16 Tools
Spindle	High Frequency, S1:1.4KW, Max 2.7KW, 60,000rpm
Material	Metal, Ti pre-milled blank, Zirconia, Wax, PMMA, Hybrid ceramic, Poly urethane, Glass ceramic
Applications	Crowns, Inlays, Onlays, Bridge, SCRPs, Custom Abutment, Denture, Implant Bar & Bridge, Bite splint
Operation	Wet & Dry
Utility	AC 200~230V/10A & Compressed air (6.5bar)
Fixtures	 Disc type  Pre-milled blanks 10  Pin type

- Disc (Φ98, height: 10~25 mm) and Ti pre-milled blank (10 blanks)





Acryl




ATM-10

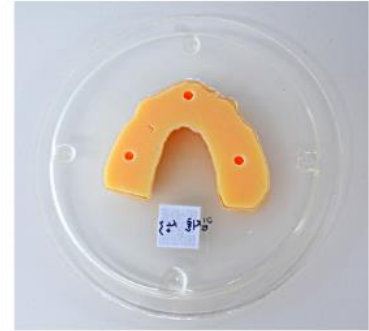
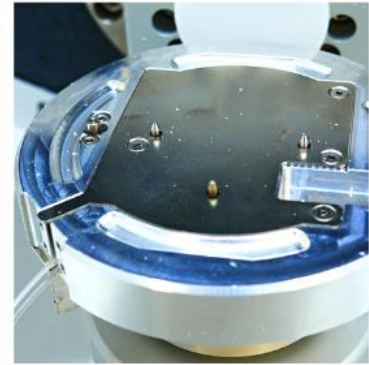


Dry milling

Aligner trimming machine

No. of Axis	5-Axis
Size and Weight	350W x 500D x 400H, Approx. 30kg
Controller and motor	Embedded PC (7" touch screen), Stepping motor with encoder
Index operating ranges	AC type, A (-15<A<135 degree) C (±360 degree)
No. of tools and tool spec	Manual tool change
Spindle	12,000rpm
Material	Acryl, PMMA
Applications	Clear aligner trimming
Milling type	Dry, dust collection through dust collector port
Utility	AC110~220/10A (Free voltage)
Fixtures	





Acryl

MAXX-5AT

Full automation for Clear Aligner Trimming

No. of Axis	5-axis
Size and Weight	866W x 827D x 1522H, Approx. 260kg
Controller and motor	Embedded PC (10.1" touch screen), AC Servo motor
Index operating ranges	A= -120° ~ + 30° C= 0° ~ + 360°
No. of tools and tool spec	Shank diameter: 4mm, ATC 2 tools
Spindle	High frequency motor, Max 0.5kW, 100,000 RPM
Material	PMMA (Model), Acryl (Thermoforming sheet)
Operation type	Dry
Utility	AC110~220V (Free voltage)/10A & Compressed air (6.5bar)
Auto loader	For loading and unloading 18 clear aligner models



PARTNERS



The biggest dental milling laboratory in USA



Osstem Implant is one of the top 5 companies in Dental Implant Industry. The quality of Implant bar overdenture has been proven by the affiliate of Osstem "Cozahn"



One of the major companies in the medical sector, produce 1,000,000 Ti pre-milled abutment a year.

CONTACT

The Ultimate Dental Milling
Machine for Dental Labs and
Clinic

MAXX SERIES



ATM - 10
DRY



Chairman
WET



5Z
DRY



4WA/ 4WX
WET



5A/ 5AW
DRY/ DRY & WET



5M
DRY & WET

We will do our best to satisfy the customer with a consistent mind.



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