

# MAXX Series

Premium dental milling machine for  
dental labs and clinics

Made in Korea



CHAIRMAN 5X  
Chairside Milling Machine

## Excellence in Digital Dentistry

MAXX by Robots and Design

[www.maxxzone.net](http://www.maxxzone.net)

# Dental milling machine for dental Labs and clinics.

Design and create precise dental restorations efficiently with **MAXX** series CAD/CAM dental milling machines

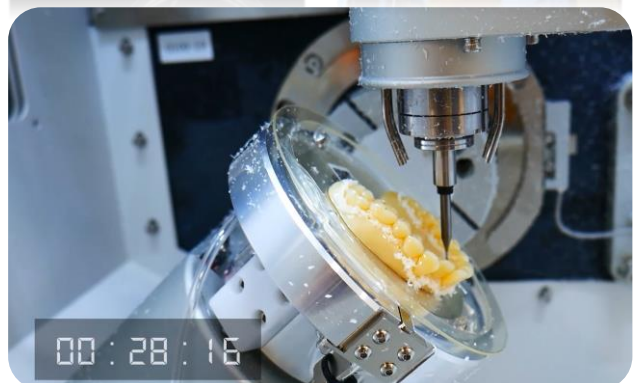
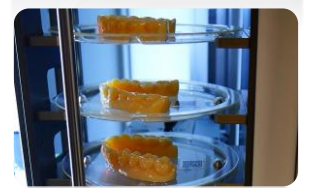


Chairside  
Single-visit Dentistry

For Dental Labs

**MAXX**  
Dental milling  
machines

Clear Aligners





# MAXX Series

Upgrade your digital dentistry workflow with MAXX!

Chairside

Clear Aligner Trimming
















Product name	Chairman 5X	ATM-10	MAXX-5AT
No. of axis	5-Axis	5-Axis	5-Axis
Size and weight	670W x 450D x 410H, approx. 65kg	350W x 500D x 400H, approx. 30kg	866W x 827D x 1522H, approx. 260kg
Controller and motor	Embedded controller (4.0" touch screen), AC servo motor	Embedded PC (7" touch screen), Stepping motor with encoder	Embedded PC (10.1" touch screen)
Index operating ranges	A=0~180deg	AC type, A (-15<A<135 degree) C (±360 degree)	A= -120° ~ + 30° C= 0° ~ + 360°
No. of tools	ATC 6 tools	Manual tool change	ATC 2 tools
Spindle	High-frequency motor dual spindles, max 0.5kW, 100,000 rpm	12,000rpm	High-frequency motor, max 0.5kW, 100,000 RPM
Material	Zirconia, PMMA, hybrid ceramic, glass ceramic (block size up to 40 mm)	PMMA (model), acryl (thermoforming sheet)	
Applications	Crowns, inlay, onlay, veneer, bridge	Clear aligner trimming	
Milling type	Wet	Dry	
Utility	AC110~230/10A & 6.5 bar	AC110~230/10A	AC110~230/10A & 6.5 bar
Fixtures	 Pin blocks		
Unique features	<ul style="list-style-type: none"> <li>Dual spindles. Milling and grinding pin-type blocks in under 15 minutes with aesthetic, precise margin, thinnest connector results with perfect fitting</li> <li>Seamless CAD/CAM software workflow which is compatible with all global brand intra-oral scanners and can import STL from any major CAD software.</li> <li>Air compressor included</li> <li>Noise shielding cover</li> </ul>	<ul style="list-style-type: none"> <li>Milling time : 50 seconds</li> <li>Total operation time for 1 aligner: 1 min 30 seconds</li> <li>Ideal for automation of trimming the same models multiple times.</li> <li>No need for air compressor</li> </ul>	<ul style="list-style-type: none"> <li>QR code scanning</li> <li>Auto loader for loading and unloading 18 clear aligner models</li> <li>Milling time : 30 seconds</li> <li>Total operation time for 1 aligner: 1 min</li> </ul>



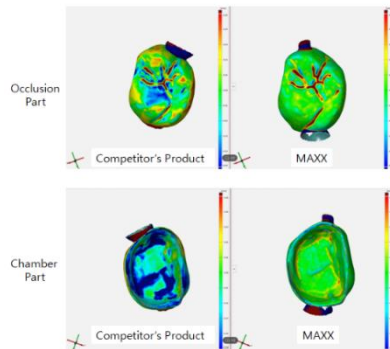
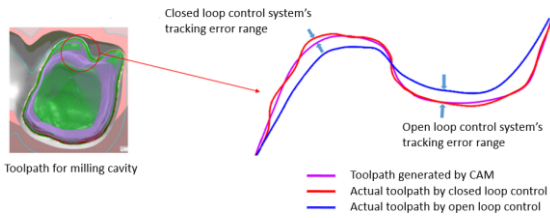


## For Dental Labs



MAXX-5Z	MAXX-4WX / 4W / 4WG	MAXX-5M	MAXX-5AW
5-Axis	4-Axis	5-Axis	5-Axis (Milling machine) + 3-axis (Auto loader robot)
500W x 682D x 712H, approx. 100kg	500W x 725D x 712H, approx. 110kg	620W x 800D x 1520H, approx. 220kg	800W x 800D x 1520H, approx. 260kg
Embedded PC or Win 10 PC (10.4" touch screen), AC Servo motor	Win 10 PC (10.4" touch screen), AC Servo motor	Win 10 PC (10.4" touch screen), AC Servo motor	Win 10 PC (10.4" touch screen), AC Servo motor
A=+32, -32 deg, B=±180deg	A=-180° ~ +180°	A=±25deg, B=±180deg	A=±25deg, B=±180deg
Shank 3 mm, ATC 12 tools	4WX: Shank 6 mm, ATC 8 tools 4W: Shank 6 mm, ATC 12 tools 4WG: Shank 3 mm, ATC 12 tools	Shank 6 mm, ATC 16 tools	Shank 6 mm, ATC 16 tools
High frequency, max 0.5KW, 100,000rpm	High frequency 4WX: max 2.7kW, 60,000rpm 4W: max 1.4kW, 80,000rpm 4WG: max 0.5KW, 100,000rpm	High frequency, S1:1.4KW, max 2.7kW, 60,000rpm (5M, 5AW)	
Zirconia, wax, PMMA, hybrid ceramic	Metal, Ti pre-milled blank, zirconia, wax, PMMA, hybrid ceramic and glass ceramic * 4WG: glass ceramic, hybrid ceramic	Metal, Ti pre-milled blank, zirconia, wax, PMMA, hybrid ceramic, glass ceramic	Metal, Ti pre-milled blank, zirconia, wax, PMMA, hybrid ceramic, poly urethane
Crown, inlay, onlay, bridge, SCRP, denture, bite splint	Crown, inlay, onlay, bridge, SCRP, custom abutment	Crown, inlay, onlay, bridge, SCRP, custom abutment, denture, implant bar & bridge, bite splint	Crown, inlay, onlay, bridge, SCRP, custom abutment, denture, digital model, implant bar & bridge, bite splint
Dry	Wet	Wet & Dry	
AC 110~230V/10A & 6.5bar	4WX: AC 200~230V/10A & 6.5bar 4W & 4WG: AC 110~230V/10A & 6.5bar	AC 200~230V/10A & 6.5bar	
 Disc type  C type  Pin type	 Disc type  Pre-milled blanks 10  Pin type	 Disc type  Pre-milled blanks 10  Pin type	 Disc type  Pre-milled blanks 6  Pin type  Square type
<ul style="list-style-type: none"> <li>Buccal milling for full arch bridge using C-type clamp</li> <li>Special zirconia milling strategy according to user needs like fast, standard and MAXX precision with prosthesis margin (0.1 ~ 0.3 mm)</li> <li>Capability of milling inlays, copings and facial area with thin margin</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for milling Ti pre-milled blanks up to 10</li> <li>Special coordinate compensation technology by local coordinate offsets!</li> <li>Perfect quality of custom abutments which are compatible with major implant brands.</li> <li>Milling of custom abutment occlusion, connection and shoulder parts</li> <li>MAXX-4WG is a unique model for milling that can hold up to 20 blocks in 1 holder.</li> </ul>	<ul style="list-style-type: none"> <li>All-in-one dental milling system which can mill ALL materials</li> <li>Strong 2.7kW spindle for metal implant bar &amp; bridge milling</li> <li>Pre-milled blank holder up to 10</li> </ul>	<ul style="list-style-type: none"> <li>All-in-one dental milling system which can mill ALL materials</li> <li>Strong 2.7kW spindle for metal implant bar &amp; bridge milling</li> <li>Scanning model holders</li> <li>Auto loader for loading and unloading 18 disc holders (Disc, Pre-milled blank, Pin-type block and square type blank)</li> <li>24/7 Automated milling for unmanned operation</li> </ul>

# Why MAXX Series?



## Excellent machine precision & Powerful spindle

1. Stable milling with AC Servo motors result in perfect fitting
2. Minimized post-treatment work for dental technicians due to high performance and precision
3. Minimized margin chipping



Calibration

DATE: 2024-09-18

PJ NO.: 004-18

FRIEND: 71805

Auto Calibration

Manual Calibration

520

150

250

350

450

550

150

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350

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550

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Z

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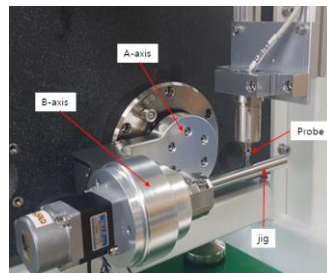
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## Granite Base frames

1. Minimized vibration, corrosion and deformation
2. Low aged deterioration
3. No residual stress
4. Long-duration of calibration data with precise results



## User-friendly MAXX

1. MAXX LINK for remote service, operation and training
2. Continue from stopped location to save time
3. Tool breakage detection sensor

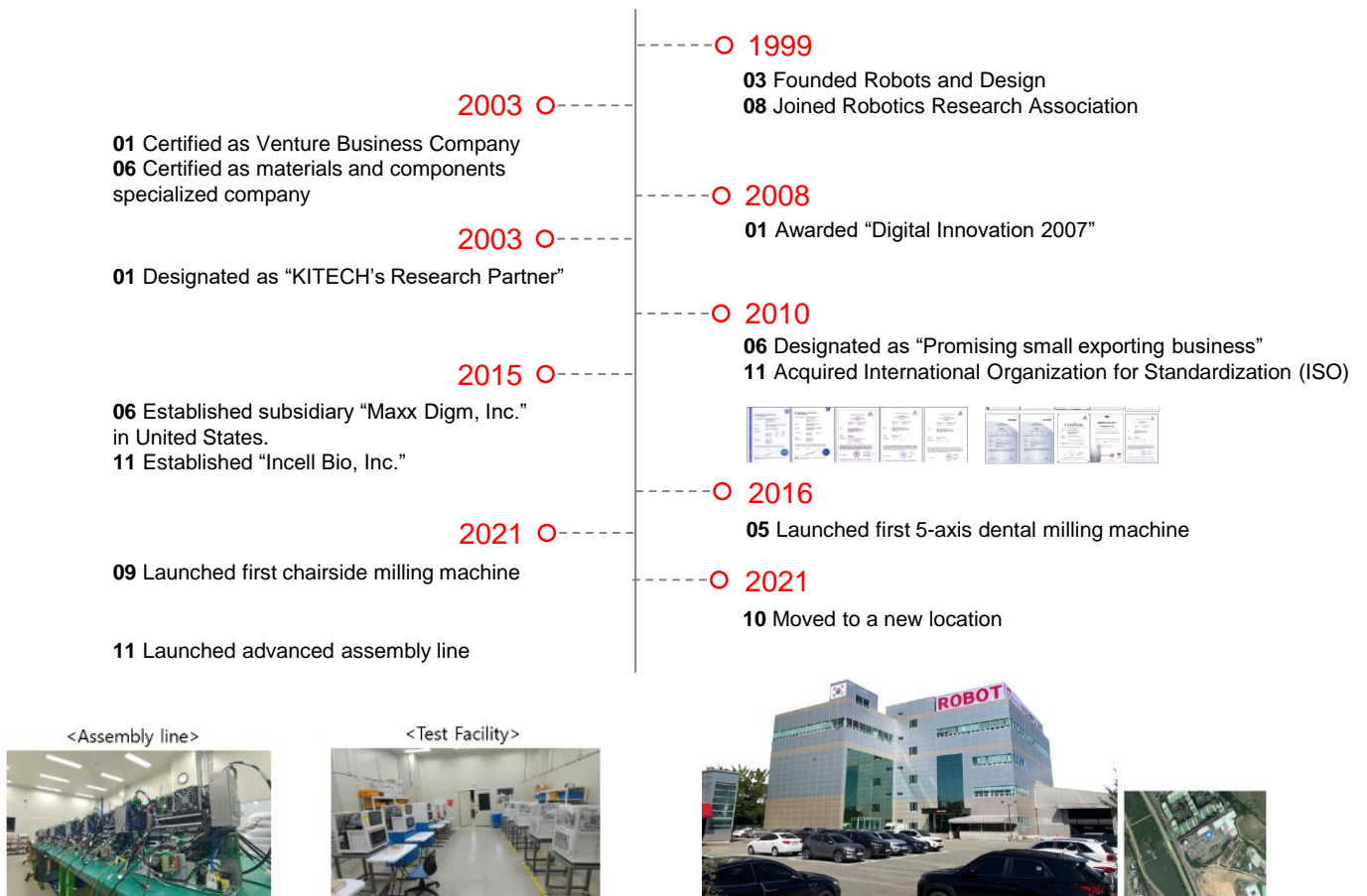
## Open architecture

1. Dental CAM enables you to open an STL file from the major CAD software (EXOCad, 3shape, Dental Wings etc.)
2. Easy to integrate to user's workflow
3. Customized strategies for complex cases





# Company history



Neo  
Biotech

GLIDEWELL  
LABORATORIES

GO2cam

MMKOP

DENTIS

ARIAN DARMAN PAJOLAH  
ENGINEERING COMPANY

Forest-one

DMAX  
DENTAL CAD/CAM SOLUTION

MAXXDIGM

FOLLOW-ME!

JIREH  
TRADING

SD サンデンタル株式会社

yamamoto dental group

Imageworks

NHT  
HIGH TECHNOLOGY

ALSHARAA  
DENTAL SOLUTION

ERK DENTAL

MEDICAL  
PALACE

Fenix  
Innovation in digital dental

CREODENT

ADSYS | Dental  
SOLUTIONS

CAD-Ray

dentcore

Aurident

## Headquarter

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