stomdevice PLUS MENTAL DENTAL CAD CAM SYSTEM

Open System

New World of CAD/CAM Dentistry

PLUS Mill S4 Dental Milling System

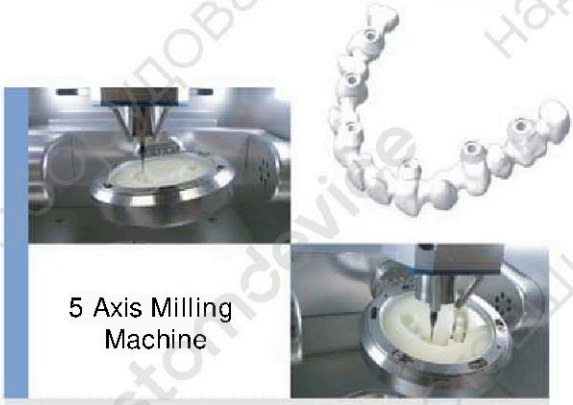


PLUS Mill S5 Dental Milling System





4 Axis Milling Machine



5 Axis Milling Machine

KFDA 식품의약품안전청 GMP

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PLUS Mill S4 Dental Milling System



PLUS Mill S5 Dental Milling System

Optimal Milling System for Dental Lab

Standard Milling Time for a Single Coping :

Zirconia : about 8 minutes

Wax : about 7 minutes

PMMA : about 9 minutes





Full Contour Crown and Multi-Unit Coping Milling

Custom Abutment Milling

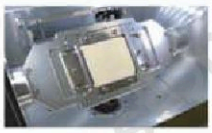
Full Bridge Abutment Milling

Inlays / Onlays Milling

PLUS Mill S4 Dental Milling System

> 4-Axis Simultaneous Control by Servo Motor
> Table Tilting for Undercuts Milling by Y-Axis Machining
> Compatible with Various Block Shapes
> To Be Provided with Preferred Jigs
> Compatible with Disk Blocks of
098.5mm x Max. 24mm Thickness
> Compatible with Square Blocks of
100mm x 100mm x Max. 24mm Thickness





PLUS Mill S5 Dental Milling System

> 5-Axis Milling System with Servo Motor and Simultaneous Controller
> Full Mouth Bridge Abutment Milling
> Each Screw Hole of Above 25° Tilting Milling
> Undercut Milling by Rotating and Tilting Table
> Compatible with Disk Blocks of
098.5mm x Max. 24mm Thickness
> Compatible with Square Blocks of
100mm x 100mm x Max. 24mm Thickness





Upgrades Available from 4-Axis Plus Mill to 5-Axis Plus Mill by Changing the Spindle Table

> Control of 5-Axis(X, Y, Z, A, & B) by the Built-in Controller
> 8 Tools Automatic Changer
> Highly Effective 800W Spindle
> Tool's Length Correction by the Touch Sensor
> Emergency Stop System in case of a Malfunction of Feed Shaft
> Easy Analysis of Errors on the Screen Detected by Each and Every Sensor
> Both Wet and Dry Milling Available
> Excellent Compatibility with Various CAM Programs
> Easy Interface for Beginners
> Fast and Precise Molding
> Convenient Operation via Touch Screen
> Compact Milling System Requires Less Space
> Dust Removal through Air Jet Processing of Objects
> Efficient Dust Emissions through External Dust Collector
> Compatible with Various Block Shapes
> Low Noise, Fast, & Precise Milling

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Larger Machining Area and Larger Block Use



Area Offered for Processing Bigger Than Full Mouth
Simultaneous Installation of Two Types of Blocks
Various Block Jigs Make All Sizes of Blocks Processed

4-Axis Milling Machine
Transfer distanced, Y, Z, A) : 195 X 220 X 95 X 360° Free rotation
Working Size(X, Y, A) : 195 X 120 (0120)

5-Axis Milling Machine
Transfer distanced, Y, Z, A, B) : 195 X 220 X 95 X 270° X 360° rotation
Working Size(X, Y, A) : 195 X 120 (0120)

8 Tool & Automatic Tool Change



Installing 8 Tools at Once for Efficient Operation
Automatic Tool Change by the G Code
No Restriction for Tool Length
Automatic Tool Offset Setting with High Precision Tool Touch Sensor
Sensor Installed in Each Tool Pocket Detects Errors during Tool Change
Various Shapes of Tools with Shank 06mm, and Tool Length 1~25mm



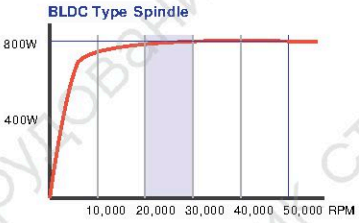
High Effectiveness 800W Spindle

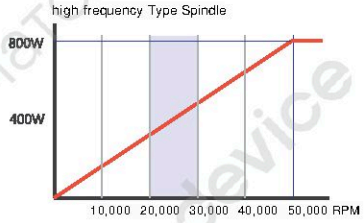
Automatic Correction of Torque and Speed Corresponding with the Milling Load by the 800W BLDC Spindle

Various Materials Can Be Processed.
Automatic Chuck Open by User Button
All Tools under Shank 06mm Can Be Used.
Spindle Air Cooling



RPM : Rated 30,000 Max. 50,000
Power : 800W BLDC Motor
Cooling : Air
Voltage : 220V
Motor Poles : 2P
Tool Clamping Range : 03~6mm (Tool Holder Change)
Bearing : 4pcs
Housing Diameter : 032mm, 046mm





Various Shapes of Tools Used

Tool Shank : 03~6mm
Tool Shank length : 20~40mm
Tool length : 1~23mm



Regardless of tool length or shape, installable Tool Pock is offered so various tools for undercut removal can be used



External device On / Off Control

Plus Mill provides the on and off control through the M-code to power the water pump and dust collector. You can control three external devices' power and reduce unnecessary energy consumption.

Touch Screen 8i Graph user interface





Screen size 10.2"
LED Back Light
Full Touch Screen

Plus Mill Provides an intuitive graphical interface for the user-friendly and easy user experience.
To start, load the generated data and press the start button.
Plus Mill S4's internal safety programs actively work out to suppress equipment clash by user mistakes.

> Beautiful Screen Design
> Simple Button Operation
> Configuration for Operating Associated Equipment
> Lighting icon shows the condition at a glance
> No Need to Use Functional Screen

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5-axis milling machine


100x100 Box Type


Ø98.5 Disk Type


More Type

Easy Jig Changes for Fitting to the Preferred Block Shapes

4-axis milling machine


Block Bury Type

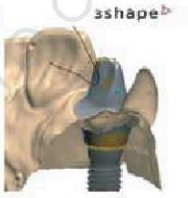

098.5 Disk Type


Box & Disk Type


100x100 Box Type

Every Dental CAD / CAM Software Compatible







The control system has 100% compatibility with every CAM Software.

Basically, Plus Mill is compatible with every CAD/CAM Software, so only by adding or changing some, it can meet any user's requirements.
Most of leading dental CAD/CAM software has verified their compatibility

Network Data Transfer



> Transmit the Generated Date over the LAN
> Online Maintenance Available on the Internet
> Easy Upgrade through Online Requests



Dedicated Table

Plus Mill's dedicated table keeps the optimal rigidity for the axis travel during milling operation.

It suppresses at maximum inertia vibration caused during the axis shift and offers room for the installation of milling's external devices

The body of Plus Mill S4 receives external control signals to turn on and off the external devices

The design of a dedicated table suits the body of Plus Mill, giving a clean image of the dental office
You can install small dust collectors or small water tanks inside the dedicated table.

Dimension W x H x D (mm) : 780 x 730 x 610



Global Support System

Anywhere in the world you can get the latest version of program

You can request online maintenance on the homepage run by Dental Plus
or you can get the failure diagnosis of Plus Mill in real time through the internet network



By upgrading the latest and improved version of programs,
better milling environment is provided.

You can apply for supplies and order parts for repair online

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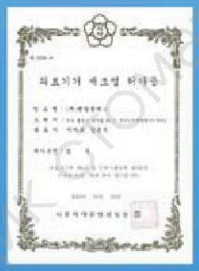
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PLUS Mill S4 , S5 Dental Milling System



Product name	Plus mill S4	Plus mill S5
Dimension W x H x D (mm)	743 x 640 x 610	743 x 640 x 610
Weight	110 kg	118 kg
Milling stations	1 (dry milling)	1 (dry milling)
Block size	098.5	098.5
Drive type	AC servo motors 4ea	AC servo motors 5ea
Spindle(rpm)	10,000-50,000	10,000-50,000
Spindle Power	800W BLDC	800W B1DC
Tool positions	8	8
Voltage	220V, 180W, 3A	220V, 185W, 3.5A
Minimum air pressure	5.5-8 bar	5.5-8 bar
Production capacity per day, approx	80 elements	80 elements
Materials	Zirconia	Zirconia
	PMMA	PMMA
	Wax	Wax
Indication	Bridges with up to 14 elements	Bridges with up to 14 elements
Remotoe maintenance	Application	Application
Automatic night-time operation	Application	Application
Automatic tool length measurement with broken tool detection	Application	Application
Automatic numerical control	4 axis	5 axis
Ethernet	Application	Application
Touch Screen Control	Application	Application
Open System	Application	Application
Block Jig - Change	Application	Application
Dry process	Application	Application
Water Process	Application	Application
Dust collector	Application	Application
Outside Machinery Control	Application	Application

KFDAi® 식품의약품안전청





Open System

Scan | Dental 3D Scanner | Dental Design | Dental Milling



Model Scan







Model Scan







Oral Scan





PLUS Mill S4 Dental Milling System

PLUS Mill S5 Dental Milling System







An Open Milling System Compatible with Various CAD/CAM Softwares

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DENTAL CAD CAM SYSTEM

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