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PIUS DENTAL
DENTAL CAD CAM SYSTEM





PLUS MILL RS5 Premium



5-Axis Milling System with Servo and Simultaneous Controller

NEW World
of CAD/CAM
Dentistry

Maunfacturing Company

CE KFDA

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DENTAL PLUS Machine

PLUS MILL RS5 Premium



Diskjig



Possible to be equipped with a 98.5mm disk.
Special-designed jig that can maintain high precision even after a long-time use due to its stable and durable features.

6P Glass multi jig

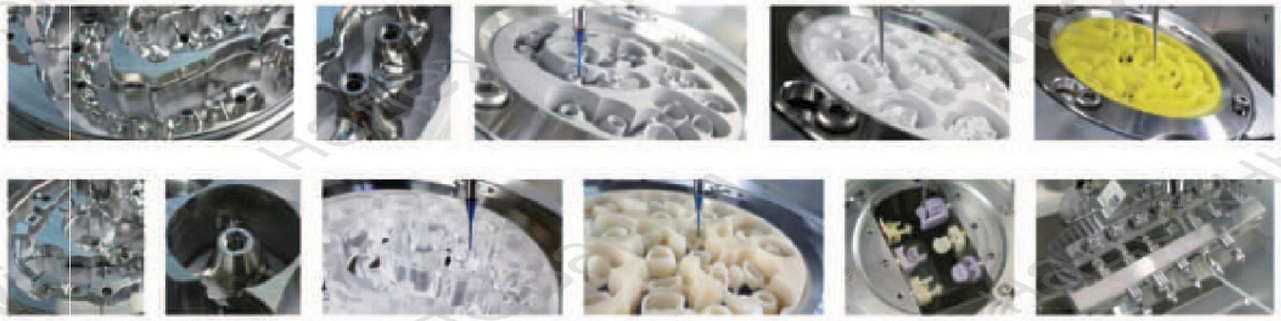


Possible to mill all kinds of glass ceramic regardless of the material and change disk jigs and block jigs without any difficulty.
Increase productivity through its simultaneous milling of 6 block cubes.

Premill multi jig



Possible to be equipped with 11 premill abutments all at a time and its simultaneous milling of 11 premill abutments can improve productivity for users.
Users can mill their desired premill abutments as a variety of premill abutments are available.





5"Axis Technology

5-Axis Milling system with servo and simultaneous Controller, high-precision Twin Ball screws and Harmonic drive

End products without undercuts

Possible to mill without a hitch even in any tilted angle as the intersection point of the two rotation axes is assembled precisely.

Maintain high strength and high precision consistently by using twin ball screws.

Range of applications

Milling type



Copings | Full contour crowns | Full contour bridges | Full contour crowns with inlay | Inlay | Onlay | Models | Glued-based abutments | Full contour zirconia abutments | Screw-retained bridges | Attachments | Bars | Abutments

Possible to mill more various types besides the mentioned types.

Material type



Chrome cobalt | Titanium | Sintering metal | Zirconium | PMMA | WAX | Chemical wood | Acrylic | Resin ceramics | Lithium disilicate | Lithium disilicate | Glass ceramic | Premill abutments (Custom abutment)

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RS5 Technology

Fulfilling high quality end products

Developed based on our own technical expertise over many years.

Users can operate easily the complicated processes that are necessary in every process.



[5-Axis base]
Possible to mill a variety of material without difficulty due to the simple change of jigs.



[Sliding tool pocket]
This sliding method of tool pocket helps to maintain the precision and increase the durability of the machine through protecting the tools from contaminated materials generated during milling. 24 various tools can be positioned.



[Dry-type conversion box]
Convert to the dry type easily by replacing the box for dry type in the drawer.

[Wet-type filter box]
Easy to clean and filter out milling chips through the milling chip filter box when milling metals.





[RS5 dedicated table]
This dedicated table can bear the weight of the machine stably. In addition, users can store the accessories and other materials in its 3 drawers.



[Twin ball screw system]
Designed to suitable for high-intensity milling by using two precision ball screws. Using ball screws with the precision of below 5pm in all axes.



[Easy-to-use interface]
Easy operation for everyone and even a novice by providing an easy-to-use interface.
Calibration can be done easily through the calibration wizard.



[Touch screen]
Provide a touch screen in order to use the milling machine simply without a keyboard and a mouse.



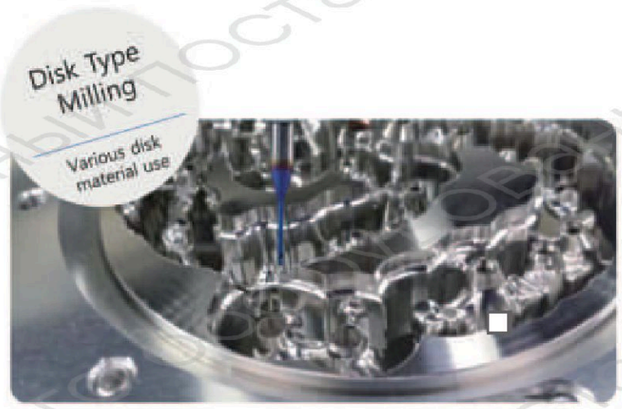
[E-stop]
Maintain its luxurious design even for the switch of an emergency stop.

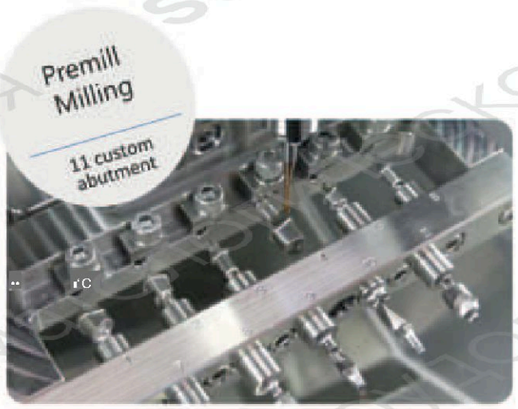


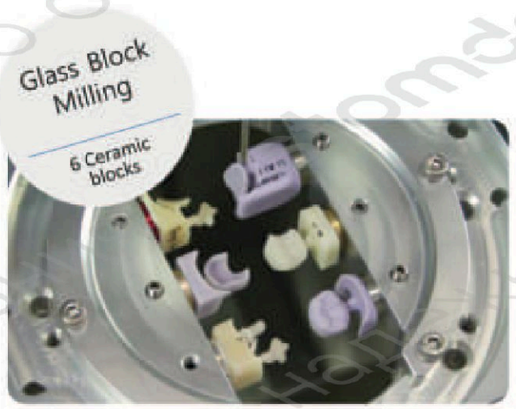
[Digital air pressure gauge]
Check the air input with the digital method and stop processing or wait automatically if the air is insufficient or there is a problem with the air input.



[Large cutting oil tank]
Provide a large cutting oil tank and a filter cage to filter milling chips.
Easy to clean milling chips and replace with new cutting oil without taking out the tank by using the cutting oil drain.









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RS5 milling machine

RS5 dedicated table



CAM Software included for RS5



Users can choose the CAM software and are provided the CAM software plus the milling strategy with RS5.





Jig


Disk jig


6P Glass milling jig


IIP Premill jig

Wet and Dry Accessories


Wet milling filter box


Dry milling dust box


Coolant tank

The design of the dust collector may be modified for upgrading its **performance.**

Setup Kit (Sold separately)



Disk

Chrome Cobalt	1ea
Sintering Metal	1ea
Zirconium	1ea
PMMA	1ea
WAX	2ea
Lithium disilicate	3ea
Premill abutment	3ea

Endmill for Metal

Ball -03mm, 02mm, 01.5mm, 01mm	1ea on each
Flat - 01.5mm, 01mm, 00.5mm	1ea on each
Flat round - 01.5mm, 01mm	1ea on each

Ball endmill for Soft material

02.5mm, 02mm, 01mm, 00.6mm	1ea on each

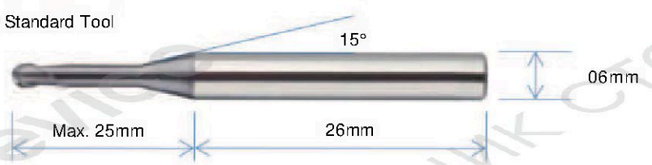
Ball endmill for Glass ceramic

02.5mm, 02mm, 01mm, 00.6mm	1ea on each

Tools

Soft Material Milling	Ball End Mill 02	Ball End Mill 01	Ball End Mill 00.6
Glass Ceramic Hybrid-Resin Milling	Diamond Bur 02.5	Diamond Bur 02	Diamond Bur 01

Standard Tool



Metal Milling	Ball End Mill 03	Ball End Mill 02	Ball End Mill 01.5	Ball End Mill 01	Flat End Mill 01.5	Flat End Mill 01	Flat End Mill 00.5	Flat Round Mill 01.5	Flat Round Mill 01

Possible to support for using more various tools besides the above tools depending on the milling types.

Accessories


Wrench Set


3mm Wrench Driver


4mm Wrench Driver


Chuck Remover


Pump Signal Cable


Dust Collector Signal Cable


Power Booster 110V to 220V

Provide only for countries using 110V.


Vernier Calipers

Chuck Cleaning Brush


Milling Room Cleaning Brush


Power Cable


Water Valve


Mouse Keyboard

and
- Cutting Oil Filter
- Redundancy Bolts
- Etc.

The design of the accessories may be modified for upgrading its performance.

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RS5 Interface

[Easy-to-use Interface]





Plus Mill RS5 can be used for everyone without difficulty through its touch screen and easy-to-use interface.
Simple conversion for wet and dry by touching the screen.
Online checking is possible with our online technical support.



Machine calibration



Premill calibration
(Custom abutment)



Cleaning positions



On / Out list of sensors and machine coordinates



G-Code view



Axis jog



NC Data

[NC Data Transmission method J

- LAN
- USB Wireless LAN (Wi-Fi)
- USB Memory



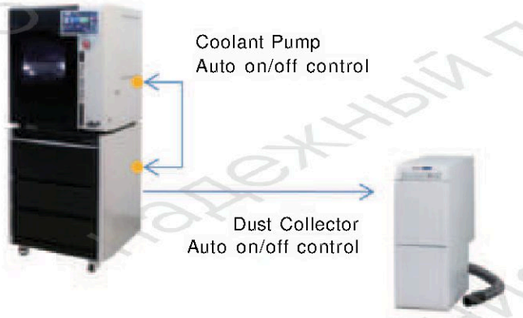


[Online technical support method]

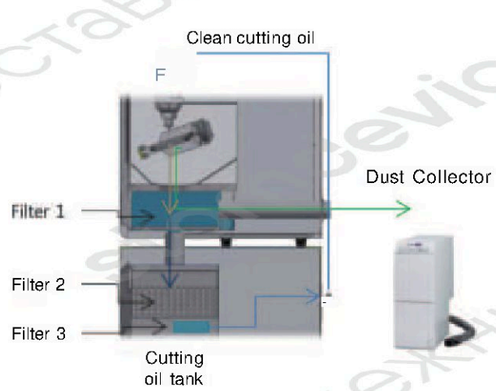
- LAN
- USB Wireless LAN (Wi-Fi)

Online technical support is possible by checking and controlling the machine through the internet.

[External device control]



[Wet and Dry system]



Open system

CAD Software & Scanner

ashape

exocad

dental wings



Design

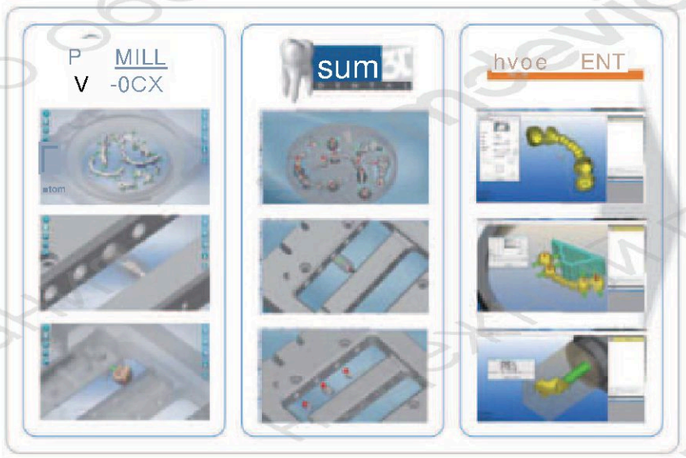


-Stl

RS5 is compatible with all dental scanners and CAD Software as it is an open system.

CAM Software

Users can choose CAM software and will be provided CAM software plus the milling strategy with RS5.



Plus Mill RS5 milling machine



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Inside



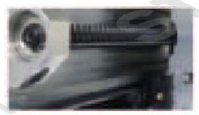
[Harmonic Drive J

Realize the precise angle of A and B axes and support stiffness by using the high-end precision reducer of harmonic drive.



[LM Guide]

Support for making the processed products that are suitable for metal milling by using the high-stiffness and high-precision guide.
More durable and resistant to moisture due to the corrosion protection coating.



[Ball Screws]

Realize the position precision of below 5 p
by using the high-stiffness and high-precision ball screws.



[Servo System]

Use 200W servo motors in all axes.



[Built-In Computer]

Equipped with a control PC and no need for a separate computer.



[Air Regulator & Separator]

Maintain the compressed air for necessary pressure.
Filter the contaminated compressed air and supply the air to the machine to protect the spindle and internal devices.



Product name	Plus Mill RS5
Machine Dimension W x D x H (mm)	696 x 647 x 800
Machine Weight	145kg
Table W x D x H (mm)	696 x 647 x 854
Table Weight	115 kg
Number of Axes	5 axes
Accuracy	±5pm
Motor Type	200W servo motor 5 axis
Spindle Speed (rpm)	Max. 70,000
Spindle Power	1.2Kw
ATC Number of Tools	24
Voltage	210-250V / 160W ! 2.5A
Minimum Air Pressure	Min, 0.5 bar
Remote Maintenance	Application
Automatic Tool Length Measurement with broken tool detection	Application
Filtering Step	3 steps
Coolant Tank Capacity	20ĩ
Internet	Application
Touch Screen Control	Application
Disk and Multi Jig - Changeable	Application
Wet Process	Application
Water Pump Control	Application
Dry Process	Application
Dust Collector	Application
Outside Dust Collector Vacuum Control	Application

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