



HYPERMILL SERIES

Five Axis Dental CNC Milling Machine

Free 98% technicians
manual operation

Auto Tool Change
High Precision

Dry&Wet Milling
High Stability

Qiyu Dental Technology Ltd.

DPS Company is a dental CAD/CAM overall solution provider with more than 20 years of dental experience. In addition to providing a full set of professional machines, we also provide dental design services. We develop, design, and mass-produce a full range of equipment and accessories such as dental milling machines, 3D printers, porcelain furnaces, and crystallization furnaces. At the same time, our design team also provides professional denture design services to clinical customers. The company has two industrial parks with an area of more than 30,000 square meters and more than 800 employees.



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X5C DNW

Dry&Wet 5-axis CNC Milling Machine

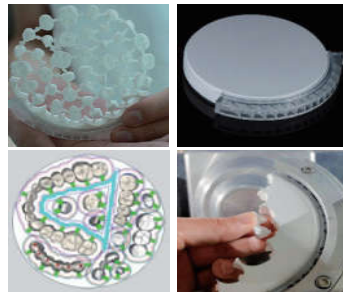
Amazing 38-40pcs/disc (98mm)

Crowns output +30%



Machine Benefits

- ✓ The targeted and unique design solves 98% of clinic chairside operations with extreme minimal technician operations
- ✓ The optimized milling path algorithm ensures perfect presentation of details and minimizes the work of technicians
- ✓ Specially designed burs more perfectly match the optimization algorithm
- ✓ Camera in working chamber for remote monitoring
- ✓ Adapted the tablets for more freedom and easier operation
- ✓ High-precision five-axis linkage, multi-direction fine processing, detailed milling produces fine and perfect teeth fissures
- ✓ High precision servo driver, industrial-grade system
- ✓ High precision screw guide rail, high milling precision
- ✓ Thickened aluminum plate frame, stable structure designed for high precise milling
- ✓ High precision, high frequency and high speed spindle, brings perfect milling performance and crowns throughput
- ✓ Auto-scaling burs library, quick change the burs



Product Specification

Length/width/height: 610x425x585mm	Weight: 110KG	Total Power: 800W
Milling Precision: 0.02mm	Driven: Full servo driven	Burs Diameter: 4mm
Rotary axis speed: A:360°	Spindle Speed: 0-60000rpm	Burs Quantity: 6pcs
Transport interface: USB/LAN	Processing method: five-axis linkage, dry and wet integration	

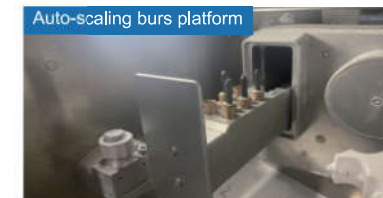
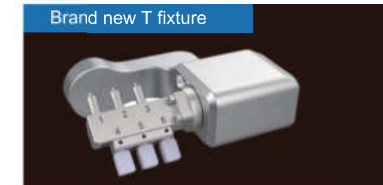
Processable materials: zirconia, wax, PEEK, composite materials, glass ceramic (pin-type), titanium disc and pin-type column, etc.

Processable types: sleeve crown, pile-core crown, Bolt Channel, inlay, full crown, connecting bridge, upper planting restoration, Inner Crown

X5C WET

Wet 5-axis CNC Milling Machine

Innovative T-type metal fixture, multi-material combination milling.



Machine Benefits

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- ✓ Specially designed burs more perfectly match the optimization algorithm
- ✓ Camera in working chamber for remote monitoring
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- ✓ High-precision five-axis linkage, multi-direction fine processing, detailed milling produces fine and perfect teeth fissures
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Transport interface: USB/LAN	Processing method: five-axis linkage, dry and wet integration	

Processable materials: zirconia, glass ceramic, titanium column and etc.

Processable types: inlay, full crown, Inner Crown, veneer, titanium pin-type column

DPS X5ROB

Five-axis Automatic Tools Change Milling Machine

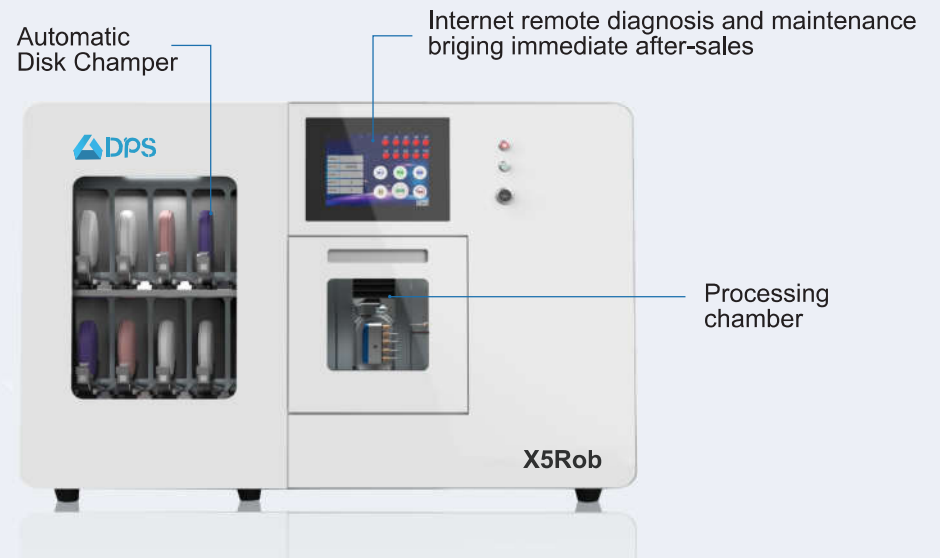


DPS X5Rob:

- 5 axis, 10pcs replaceable disk fixtures
- Unparalleled remote control management system
- Enjoy your high efficiency & convenient experience

DPS X5Rob dry milling most materials in the dental industry with the highest precision, producing flawless restorations. DPS X5Rob's outstanding operating system provides a friendly and easy-to-use operation interface, making it easy and convenient for every customer.

Five-axis Automatic Tools Change Milling Machine: DPS X5Rob



Various optional materials

Diameter 98mm, Thickness 10-30mm disc			
Zirconia	Wax	PMMA	Composite Material
✓	✓	✓	✓

Wide range of dental indications

Inlays/Onlays	Tooth model	Model version	Composite material
Removable denture	Veneer	telescopic crown	Telescopic crown second layer



Patented secondary fixture



10 disks, Automatic loading and unloading
High efficiency production



high frequency high precision heavy duty spindle



Replaceable Burs Chamfer

Remote Control Management

- The optimized milling path algorithm and specially designed burs bring perfect detailed presentation for chairside in clinic

Best Machine and Affordable price

- The national patented 118° opening secondary fixture maximizes the utilization of materials.

Premium Performance

- Stable performance, smooth processing without lagging
- High precision, more perfect milling effect
- More suitable for high-efficiency horizontal five-axis machining centers
- Industrial grade precision ball screw
- Precision full servo drive system

Excellent Reliability

- Equipped intelligent sensing system to deal with different situations
- Burs lifetime detection system make you know Burs condition well and
- Convenient to replace burs at any time
Excellent after-sales engineer team offer 24 hours online services

Summary of Advantages

- ✓ Reduce costs by 50% and increase efficiency by 99%
- ✓ 24-hour high-efficiency unmanned automatic production, automatic loading and unloading of 10 disks materials
- ✓ Industrial grade precision ball screw; precision full servo drive system
- ✓ The 118° opening fixture cooperates with the secondary fixture to maximize the utilization rate of materials
- ✓ 60000rpm high frequency, high precision heavy duty spindle
- ✓ The burs can be replaced quickly, which is convenient for different types of burs to be quickly switched
- ✓ Burs damage and lifetime control system

Main Technical Parameters

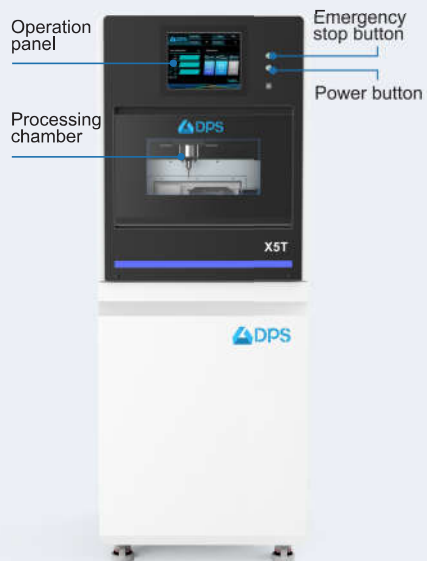
Length/width/height: 60.5x97x68cm	Weight: 170kg	Max. power: 1000W
Air pressure (min/max): 4.5~7.5bar	Gas consumption: about 50L/min	Power: 220VAC, 50Hz
Rotary axis operating angl: A:360° B: ±30°	Number of axes: 5 axis linkage	Spindle cooling: air cooling
Air pressure: 0.45~0.7MPa	Spindle: speed 0-60000rpm	Auto Tool Changer: 5 burs
Auto Disc Changer: 10 disc	Processing method: Dry Milling	Power: 220~230VAC, 50/60HZ
Connection interface: USB and LAN RJ45 connected to computer		Drive mode: full servo motor

Processed material dimension: Disc shape, 98mm diameter and 10-30mm height

DPS X5T

Five-axis linkage milling machine: DPS X5T

Innovative T-type metal fixture, multi-material combination milling.



Machine Benefits

- ✓ Innovative secondary C-type fixture can increase 98mm zirconia disc milling output to 35-40pcs crowns
- ✓ High-precision five-axis linkage, multi-direction fine processing, detailed milling produces fine and perfect teeth fissures
- ✓ High precision servo driver, industrial-grade system
- ✓ High precision screw guide rail, high milling precision
- ✓ Thickened aluminum plate frame, stable structure designed for high precise milling
- ✓ High precision, high frequency and high speed spindle, brings perfect milling performance and crowns throughput
- ✓ Auto-scaling burs library, quick change the burs

Main Technical Parameters

Length/width/height: 705x520x1540mm	Weight: 193kg	Power: 3.0KW
Cutting method: Wet cutting	Driven: Full servo driven	Power: 220VAC, 50Hz
Number of axes: 5 axis linkage	Spindle cooling: water cooling	
Air pressure: 0.45~0.7MPa	pair of specifications: the number of 6 Diameter: 4mm	
Spindle: speed 0-60000rpm Power: 1.8KW	Stroke: X:190mm/Y:110mm/Z:105mm A:360°B:+35	
Processable materials: titanium column, glass ceramic		

DPS X5M

Five-axis linkage milling metal machine: DPS X5M

Innovative T-type metal fixture, multi-material combination milling.



High-precision titanium bridge and crown machining



Machine Benefits

- 5-axis linkage can realize large-angle bridge processing
- Integrated computer and touch screen
- Equipped hi-precision ball screw
- Ultra-precision servo drive system
- Excellent mechanical structure ensures mechanical precision and long lifetime.
- The one-piece cast aluminum structure ensure more stably
- Integrated cooling tank and liquid circulation pump
- High-performance spindle with automatic tool change
- LED lights display machine status in real time



Main Technical Parameters

Length/width/height: 780x630x1670mm	Weight: 249kg	Power: 4.5KW
Cutting method: Wet cutting	Driven: Full servo driven	Power: 220V AC, 50Hz
Number of axes: 5 axis linkage	Spindle cooling: water cooling	
Air pressure: 0.45~0.7MPa	Burs specification: Quantity 11 pieces Diameter: 6mm	
Spindle: speed 0-60000rpm Power: 2.5KW	Travel: X: 255mm/Y: 110mm/Z: 120mm A: 360° B: ±35°	
Processable Material: Titanium disk Titanium column		

DENTAL 3D PRINTER

DPS HyperShape

DPS HyperShape 3D printer is professional dental 3D printer, could used for multy dental application, it's based on DLP (Digital Lighting Procession) 405nm UV cured Technology, printing material is 405nm UV cured Resin. With our own optimized ROS™ Technology, we could provide high precision printing models to end user in dental works and clinic.



For Dental only
Tailor-made design



ROS™ Tech
for Hi-precision



Various resin
for all dental app

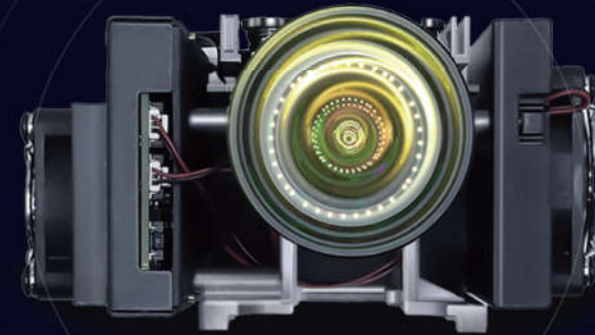


Higher Positioning Accuracy Smaller Printing Tolerance

To ensure hi-precision of Z axis, we use linear screw with 0.003mm precision which satisfy JIS C3 class criteria. All servo motor came from Japanese tier one suppliers like Mitsubishi, Panasonic and etc.

Excellent Optical Design and Smart Arithmetic

Equipped with Edge Featur™ Technology, Each light engine is tuned and optimized to ensure uniformity up to 99% from DLP original 85%, LCD solution even worse a lot.



Advanced DMD



Edge Feature™



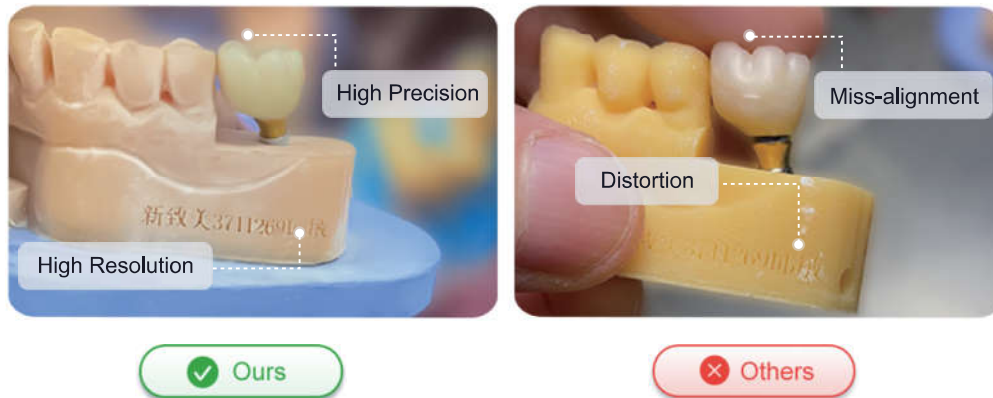
Extreme Uniformity



High Precision

What we print is What you want

Following 2 printed casts are from the same STL drawing The tooth crown and abutment are the same one



Dental Applications

DPS HyperShape is tailor-made design to satisfy all kinds of dental application. Such as Dental Models, Surgical Guides, Castable Burn, Gingival Mask, Customize Impression Trays, Hi-precision Dental Models, Digital Dentures, Clear Aligner Bonding Trays.



Perfect printing parameter for Dental application

DUO DLP-47 could offer perfect printing parameter to you and meet all dental applications, we could also support OEM & ODM, please contact us for further communication.

Printer Parameter

3D Printing Technology	Digital Light Processing (DLP) 405nm wavelength
Layer Thickness Option	30um, 50um, 100um
Min. Feature XY Resolution	37.5um (optimized by EFA™ Technology), typical 75um
Printing Material	Reshape Series Resin
Printing Area	144mm x 81mm (5.66" x 3.18")
Network Requirement	LAN-TCP/IP
User Controls	7" touch-screen with direct print via USB port
Unit Dimension (W x D x H)	630mm x 425mm x 585mm (24.8" x 16.7" x 23"); 60Kg (132.27 Pound)
Operation Environment	Temperature 18–25°C (64–77°F); Humidity 30%–70%, Non-Condensing
Input Power	Single phase: 100–120VAC, 50–60Hz, 10A or 220–240VAC, 50–60 Hz, 5A
Software	Wisdom Printing Assistant & Wisdom 3D printing network terminal, need to be installed on computer.
Computer configuration	Operating System: Windows 7 or above, CPU: i3 or above, Memory: 4G or above, Graphics card: No need for independent Hard Disk: 120G or above
Dental Application	Dental Models, Surgical Guides, Castable Burn, Gingival Mask, Customize Impression Trays, Hi-precision Dental Models, Digital Dentures, Clear Aligner Bonding Trays and etc.
Other Used Environment	No need with Compressed Air, No need with special Ventilation Fans in the equipment room, the direct sunlight should be avoided

DPS HYPERMILL SERIES

Sintering Furnace Helios



Ultra-high speed zirconia sintering furnace

Ultra-high-speed zirconia sintering furnace, Equipped excellent heating element and precise temperature control system, fast heating, accurate temperature, user friendly operation interface, easy to operate. The crystallization time can be shortened to 1 hour.

- ✓ Special high temperature resistant rapid drop sintering tray
- ✓ Various types of crown sintering procedures
- ✓ Multifunctional crystallization, perfect glaze
- ✓ Quick sintering 20-25 units per hour

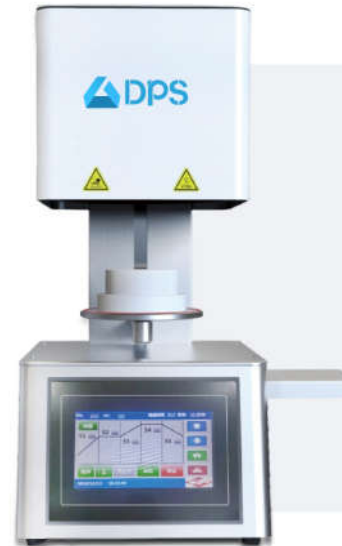
Main technical parameters

Length/width/height: 340x468x657mm	Net Weight: 30KG	Power: 3500W
Fast Sintering Time: 59mins	Max. Temperature: 1600°C	Voltage: 220-240V
Regular Program: 20-25 units	Touch Screen: 7" TFT Color	Temperature Error: ±5
Heating Element: Silicon molybdenum rod	Regular Program: P4、P5、P6	Fast Program: P1、P2、P3
Cleaning Program: Program 2	Total Program No.: 10 programs	Platform Height: 85*26mm
Chamber Size: Diameter 105mm, height 70mm		

Top height: The height of the top and bottom of the crown does not exceed 30mm

DPS HYPERMILL SERIES

Porcelain Furnace Atlas



Porcelain Furnace

Equipped excellent heating element and precise temperature control system, with fast heating, accurate furnace temperature control, user friendly interface and easy to use, Custom made compact size for clinics.

- ✓ A wide range of individual programming options for crystalline glazing of glass ceramics. All porcelain, Addition of glaze to porcelain products, etc
- ✓ User friendly operation interface is simple and clear, Intelligent touch screen
- ✓ Upgraded operating platform, accurate and stable control of furnace temperature

Main technical parameters

Length/width/height: 380x320x610mm	Net Weight: 20KG	Power: 2000W
Max. Temperature: 1000°C	Voltage: 220-240V	Platform Height: 85*26mm
Top height: The height of the top and bottom of the crown does not exceed 30mm		

Silent Vacuum Cleaner

- Industrial level full copper motor
- Support 7x24hrs long term production
- 53 decibels, quiet and comfortable
- Super filter, free from dust interference
- Small and beautiful
- one-key operation and one-key dust removal



Technical parameters

Length/width/height: 380mmX520mmX660mm

Weight: 38kg

Power: 350W

Voltage: 220v-240v

Dryer



Adopts high-power far-infrared heating lamp, high penetration rate, reaching 180°C in 10 minutes

Temperature controllable 230°C adjustable, can dry workpieces with different temperature requirements

Controllable drying time, standardized production, stable product quality

Has a unique effect on the penetration of zirconia dyeing agent and the drying of OP paste

Technical parameters

Length/width/height: 305mmx280mmx315mm

Weight: 10KG

Power: 700W

Voltage: 200-240V