



Full Dental CAD/CAM Solution

UP3D PRODUCTS 2023

UP3D
FULL DENTAL CAD/CAM SOLUTION



DIGITAL
TECHNOLOGY
IMPROVES LIFE

 www.up3ds.com

 info@up3d.cn

 +86-755-26983202

About us

UP3D, as a full dental CAD/CAM developer, have been in the market since 2015.

Since the begaining of the company, Up3D has been focusing on the R&D of high quality full solution ranging from 3D scanning, CAD/CAM, milling and intelligient platform, currently we are deliverying to international customers of more than 120 countries, we are very happy to see that worldwide dentists and dental technicians are counting on our total solution for a stable daily production and high quality treatment.

TABLE OF Contant

Dental Scanner	01
5-axis Dental Mill	15
Smart Dust Cleaner	33
Sintering Furnace	37

01

UP400

Ultra-high-speed Scanner



Automatic Add-scan



High Speed Scan



Upgraded Upscan Software

UPSCAN

Upgraded Scanning Software

New UI interface, post-processing speed upgrade



Freely Switch Scanning Steps

Support freely switch scanning steps, no need to recreate the order, simple and convenient operation.



Fill Hole on Abutment

No need to add the wax manually, the software fills the screw holes automatically.



Mark Margin Line

Mark the margin line directly in UPCAD & exocad the software after scanning, reducing time of the tooth design.

Virtual Articulator Function

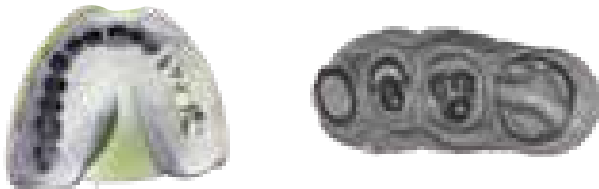
Obtain the precise movement of the jawbone simply and quickly by registering with exocad, which will reduce the subsequent time of adjusting.



With the Ultra-high-speed UP400 Scanner, Providing You the Better Scanning Experience

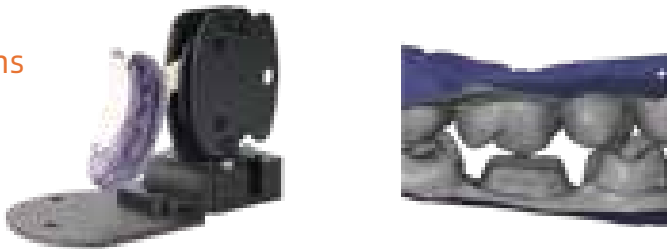
Post & Core Impression Scanning

Only 33s



Triple Tray Impressions Scanning

Only 70s



02

UP560

True Color Texture RPD Design Expert

Texture Expert to Simplify the RPD Process Provide One-stop Solution for Digitalization of RPD

No need to follow the traditional process step by step, all processes are left to the software within the computer, reducing manual errors and rework rates, maximize productivity and facilitate digital transformation.



Color Texture Model



Orthodontics Model



Implant Model



Unsectioned Model



Big Articulator



Impression

01 Open System

Support PLY format, 3Shape, exocad import directly

02 True Color Texture Scan

For RPD design

03 Full Arch Implant Scan in One Time

No need to unscrew the abutment, significantly improving the scanning efficiency of the implant restoration



UP560 achieves new upgrade based on UP360 series, with dual 3 megapixels cameras (high frame rate), realizes faster and clearer capture image, and provides more efficient and accurate data for the digital dental industry.



03

UP1000

Easy to Obtain the High Precision Data

High Precision Dental 3D Scanner

UP1000 is a high precision dental 3D scanner with dual 5 megapixels high resolution cameras.

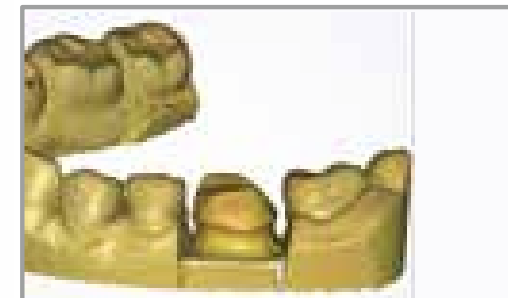
Newly upgraded software algorithm, high resolution and precision scanning data, applicable for different kinds of complicated cases such as fixed restoration and implant scanbody, screw-retained crown and bridge and so on.



Comprehensive Implant Scanning Strategy

Scan multiple scanbodies in one time, applicable for all kinds of complicated cases such as implant scanbody, screw-retained crown and bridge, and so on.





01. Free switching

Without limit from the traditional scanning processes, one-button to switch to the needed scanning process.

02. High precision scanning

Obtain the scanning data with dual 5 megapixels cameras, with 5 μ m accuracy, which can capture the margin line details clearly.

Satisfying all kinds of fabrication of sophisticated dental bridges, implant restorations and bars.

03. Big articulator free scanning

Complete the static scanning of occlusion in a second;

Dynamic scanning of occlusion supports different kinds of articulator, completely and accurately.



UP400

Dimension: 270*360*390 (mm)
Weight: 10kg
Cameras: 2*1.3mp
Accuracy: 8 microns

Scan Speed: Full arch: 15s;
All-in-one: 20s
Impression (single tray): 32s
Dies scan (9): 28
Unsectioned models scan: 13s



UP560

Dimension: 300*285*556 (mm)
Weight: 10kg
Cameras: 2*3.0mp
Accuracy: 6 microns

Scan Speed: Full arch: 15s
All-in-one: 21s
Impression: 38s
Dies scan (9): 29
Unsectioned models scan: 13s



UP1000

Dimension: 295*525*347 (mm)
Weight: 15kg
Cameras: 2*5.0mp
Accuracy: 5 microns

Scan Speed: Full arch: 15s
All-in-one: 22 s
Impression (single tray): 41s
Dies scan (9): 32
Unsectioned models scan: 15s

Parameters

UP3D Scanner

UP400/UP560/UP1000

Projector	Customized blue-light
	Multi-color scanning
Interface	USB 3.0
Output Formats	STL, UM, PLY, OBJ
Power Supply	AC110-240V, 50Hz
Product Features	All-in-one scan, one-click scanning triple tray
	Detect margin line, true color texture scan
Main Feature	Unsectioned models scan
	All-in-one, smart add-scan
Compatible Design S/W	UPCAD, exocad and 3Shape
Structure	Open
Scanning Method	Non-contact blue light scanning
Axis	2 axis

04 P53

Easier Smarter and More Effective
Ways to Fit in with Your Lab

Maximizing Your Efficiency

P53- 5-axis milling machine

A 5-axis milling machine developed by UP3D, has intelligent features such as automatic calibration, monitoring of burs life, and automatic renewal, the P53 digitizes and scales up traditional processing methods.



ZIRCONIA
LONG BRIDGE



ZIRCONIA
MALONE BRIDGE



ZIRCONIA



WAX



PMMA

01 Automation

- Automatic Calibration
- Automatic tool changer
- Automatic Calculation of tools lifetime

02 LED Milling Progress Bar

Display the milling progress of P53 can reduce personnel inspection time and improve efficiency.

90° Vertical Milling

WHAT IS THE 90° MILLING & DESIGN?



90 Degree Milling

It is convenient for the embrasure processing of the anterior teeth, making the finished teeth closer to the designed teeth, and the shape is more nature and complete.



Parameters

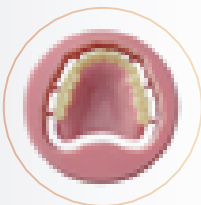
UP3D 5-Axis Milling Machine



Model	P53
Dimension	718*443*628 (mm)
Weight	87kg
Input Voltage	AC 200~240V 50~60Hz
Maximum Power	1.1KW
Spindle Power	0.35KW at max
Axis Quantity	5-Axis simultaneous motion
Milling Range	X/Y/Z:167/206/104mm A:±30° B:±360°
Milling Mode	Dry milling
Max Rotation Speed	30,000 rpm
Max Feed Rate	3000 mm/min
Tools Quantity	11
Tools Changing Method	Automatic (Air pressure >0.5MPa)
Spindle Cooling	Air cooling with compression air (Air pressure 0.25~0.35MPa)
Milling Materials	Zirconia, Wax, PMMA, PEEK and soft materials
Milling Time	Coping: Zirconia-10min Wax- 4.5min Crown: Zirconia-13min Wax-5.5min
Tools Diameter	2 + 1 + 0.6 (Φ4 calibration bur)
Disc Specification	Round disc with Φ98, 30mm max for thickness
Spindle Clamping Diameter	Φ4.0mm
Cam Supported	UPCAM and Millbox
Data Transmission	Network interface

05 P53DC

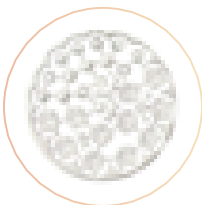
Why Not Work Less,
Mill More and Live More?



PMMA



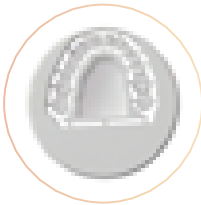
SOFT MATERIAL



ZIRCONIA



ZIRCONIA
LONG BRIDGE



ZIRCONIA
MALONE BRIDGE

P53DC 5-Axis

Dental Milling with Automatic Disc Changer

P53DC 5-Axis Dental Milling machine with Automatic Disc Changer improves lab productivity and profits. The 24-hour unattended operation ensures carefree production. Comparing the traditional workflows, the new system offers more flexibility and efficiency for an easier, more cost-effective workflow.

Automatic Disc Changer

Disc Capacity - the P53DC features a large disc capacity, which is capable of accommodating 12 different discs and multiple shades of zirconia, and replacing the zirconia disc as ordered.



01. 90° Vertical Milling

The 90° milling for easy anterior incisal embrasure milling so that the P53DC is able to deliver the perfect results.



02. Material Saving

The new C-Clamp adapter improves the utilization of materials at the edges. Material is saved and 100% of its potential can be achieved.



03. Automation

- Automatic calibration
- Automatic tool changer
- Automatic calculation of tools lifetime



Parameters

UP3D 5-Aixs Milling Machine



Model	P53DC
Dimension	718*871*630 (mm)
Weight	130kg
Input Voltage	AC 200~240V 50~60Hz
Maximum Power	1.1KW
Spindle Power	0.35KW at max
Axis Quantity	5-axis simultaneous motion
Milling Range	X/Y/Z:167/206/104mm A:±30° B:±360°
Milling Mode	Dry milling
Max Rotation Speed	60,000 rpm
Max Feed Rate	3000 mm/min
Tools Quantity	11
Disc Library Quantity	12
Tools Changing Method	Automatic (Air pressure >0.5MPa)
Spindle Cooling	Air cooling with compression air, air flow>50L/min
Milling Materials	Zirconia, Wax, PMMA, PEEK and soft materials
Milling Time	Coping: Zirconia-10min Wax- 4.5min Crown: Zirconia-13min Wax-5.5min
Tools Diameter	2 + 1 + 0.6+0.3 (Φ4 calibration bur)
Disc Specification	Round disc with Φ98, 30mm max for thickness
Spindle Clamping Diameter	Φ4.0mm
Cam Supported	UPCAM and Millbox
Data Transmission	Network interface

06

P42

German Quality,
Immediately Take and Wear



P42 is a newly upgraded wet dental milling machine with 4 axis, applicable for milling the glass ceramic and titanium abutment. Original component imported from Germany, capable of grinding 3 glass ceramic blocks or 1 titanium abutment at once.

With high precision and effeicient, as well as auto calibrabin resume milling and underant remoral functions, we ensure our P42 is conforming the clinical milling standard match.



Undercuts removal, remote monitoring

1. Capable of milling for removing undercuts by swinging $\pm 20^\circ$ of A axis to make sure every restoration fits perfectly.
2. Simple and easy to use, connected to UP3DLink platform for remote monitoring.

Consistent quality with German spindle

Adopting core algorithm and imported spindle from Germany.
The water-cooling structure spindle makes more stable grinding of hard material and ensures milling precision.



Grinding with clear water, ultra thin veneer

1. Grinding with clear water, no other grinding fluid, is needed care for the material, say goodbye to cumbersome waste disposal.
2. Capable of grinding multiple materials, up to 0.2mm ultrathin veneer, applicable for high precision grinding of all types of immediate restorations.



Parameters

4 Axis Intelligent Wet Dental Grinding Machine



Model	P42
Application Field	Wet grinding
Axis Quantity	4
Grindable Materials	Glass ceramic, Premilled abutment
Indication	Coping, anatomical crown, screw-retained crown, inlay/onlay, veneer, telescopic crown, abutment
Linear Axis X/y/z	Driven by precision ball screw (distance of travel of X/Y/Z axis: 110/75/50)
Rotation Axis A	±360°
Lightning Device	LED bar displays the machine status
Camera System	built-in camera to monitor the grinding status
Spindle	Imported spindle from Germany, tools changing by air (air pressure>0.5,Pa)
Rotation Speed	60,000rpm at maximum
Tools Diameter	4Φ
Spindle Power	0.39KW at maximum
Tools Changing	6 tools library
Air Compression	0.5-0.8MPa, 45 L/min
Voltage/frequency	100VAC ~ 130VAC, 200VAC ~ 235VAC (two options) 50 ~ 60Hz
Data Transmission	Wi-fi, USB, ethernet
Working Temperature Range	10 °C ~ 50 °C
Working Air Humidity	Below 93% RH, no condensation
Dimension	571*449*585 (mm)
Weight	80kg
Cam Software	UPCAM, Millbox
Jig	Premill abutment jig for multiple implant systems (optional)

07

V10

More Hygienic for Your Production



Linkage System

Linked to the P53 intelligent milling machine, instantly responds



Dust Free

Easily removable dust box for cleaning



Silent

Brushless Direct Current Motor
reduce working noise and ensures
a quiet working environment



Parameters

Smart Linkage System



Model	V10
Dimension	530*240*443 (mm)
Weight	20Kg
Rated Voltage	220V±10%
Rated Frequency	50Hz
Air Volume	2600L/min
Air Pressure	20KPa
Filtration	0.3-1um
Operation Mode	Push button
Db-level	65db
Cleaning Mode	Electronic vibrating dust and drawer collecting dust
Rated Power	0.5Kw

08

F20

The Temperature Control Expert



Power Failure Renewal

Continued sintering after abnormal power failure ensures efficient sintering



Multiple Sintering Programs

Professional 20 sintering programs are available



Large Capacity

Support 150 crowns sintering simultaneously on three sintering hold racks



Parameters

Smart Sintering Furnace



Model	F20
Dimension	548*389*673 (mm)
Weight	64Kg
Rated Voltage	220V±10% 110v±10%
Rated Frequency	50HZ
Fuse	2X~500V 32A
Rated Power	2000W
Heating Element	Four Ultrapure Silicon Molybdenum Bar
Operation Mode	7 - Inch Color Touch Screen
Maximum Temperature	1600°C
Temperature Sensor	Model-B Thermocouple