



Full Dental CAD/CAM Solution

# UP3D PRODUCTS 2025

UP3D  
FULL DENTAL CAD/CAM SOLUTION



UNLEASH  
DENTAL  
CREATIVITY

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# About us

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

Since its inception, UP3D has focused on the R&D of high-quality full solutions ranging from 3D scanning, CAD/CAM, milling, materials, and an intelligent platform. Currently, we are delivering to international customers in more than 120 countries. We are very pleased to see that dentists and dental technicians worldwide are relying on our total solution for stable daily production and high-quality treatment.

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# FULL DIGITAL DENTAL CAD/CAM SOLUTION

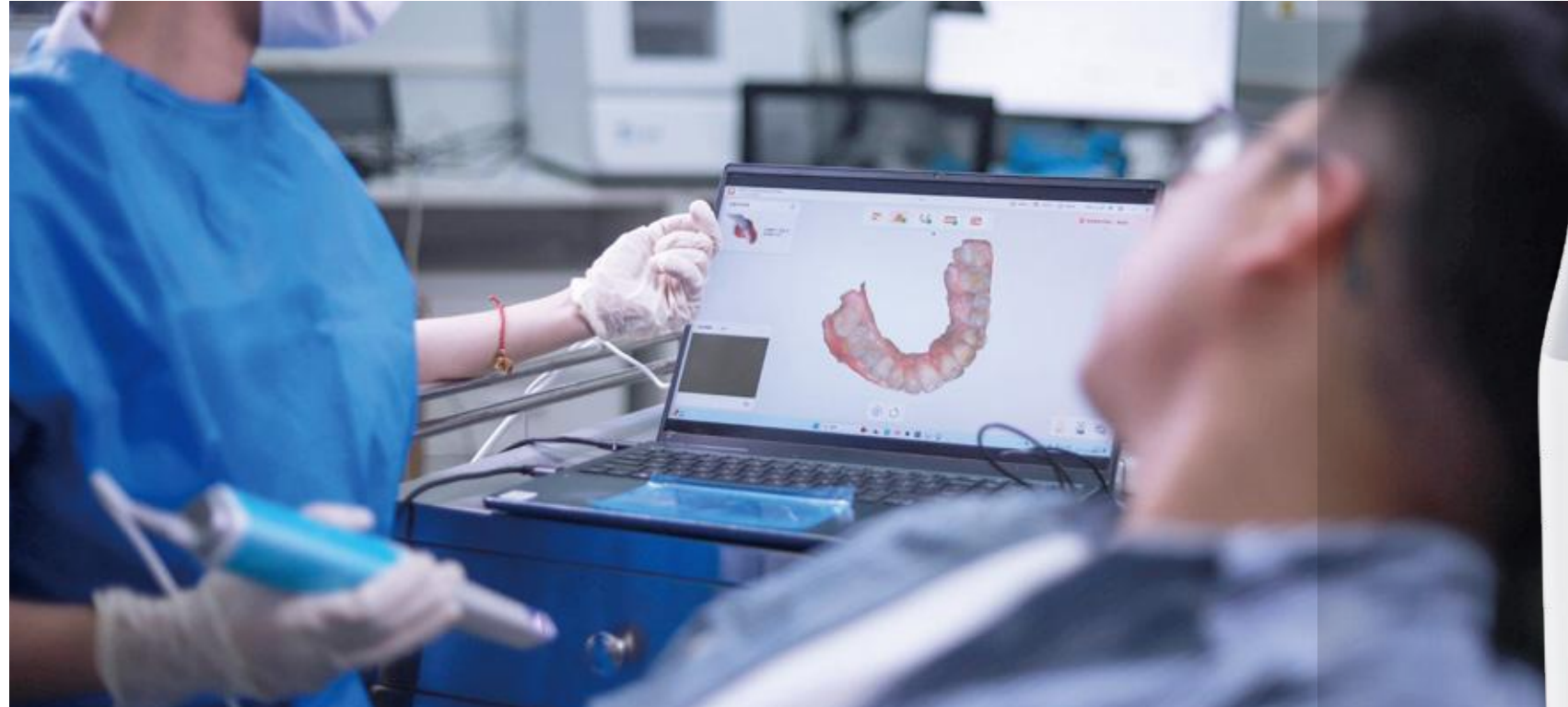


**Soreal**  
 SMART CLINICAL SOLUTION

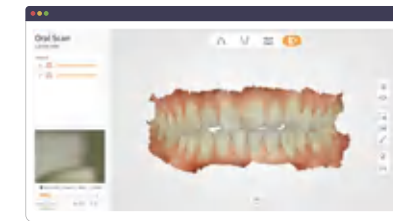
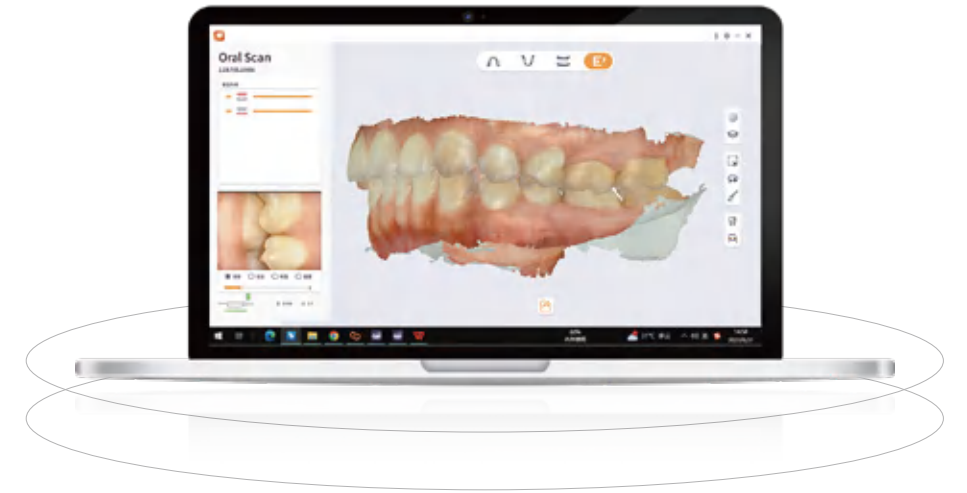


*DENTALHOUSE*  
 SMART LAB SOLUTION

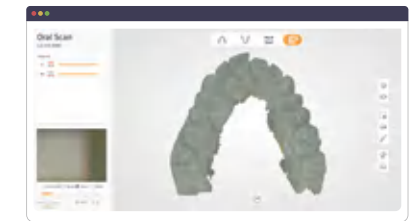
# CLARISCAN UP610



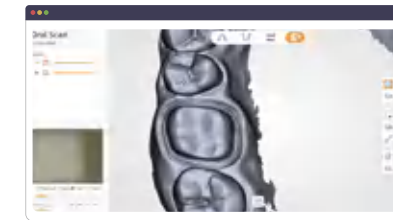
Bid farewell to conventional mold-taking and embrace advanced oral scanning technology for implantology, orthodontics, and prosthetics. Elevate your dental services to the next level with speedy, precise, and realistic results that guarantee a comfortable and seamless experience for your patients.



Accurate Occlusion



Scan Models Clearly



Margin Line



Clear Vision

## Soreal Platform

- 01. Cloud Data - Automatically uploads all scanned data.
- 02. User-Friendly Interface and Operation.
- 03. AI Design - Integrated with UP3D dental chairside CAD.



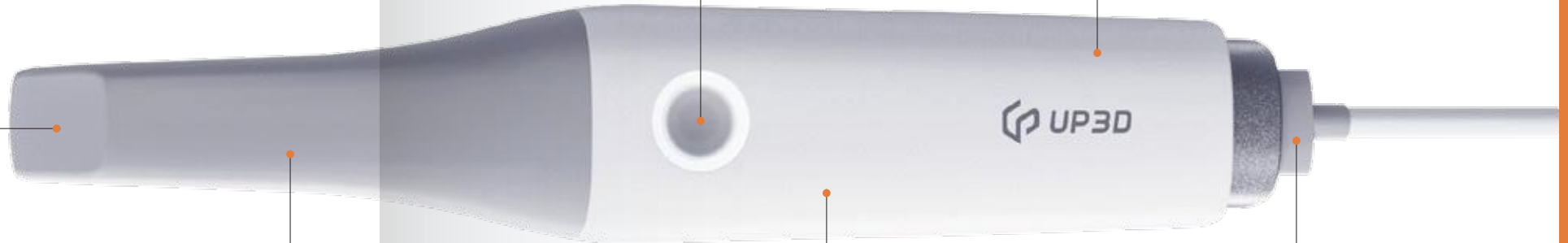
# SMALL DETAILS MAKES UP610 MORE EXCEPTIONAL

With advanced hardware and smart software working in harmony, UP610 delivers smooth workflows and reliable results.



**29s**  
Faster scanning

**Detachable Scanner Tip**  
Auto Anti-fogging  
Powder-Free



**Remote Button**  
One-button easy control

**210g**  
Light weight

**Ergonomic Design**  
Improved grip for comfort

**Detachable Cable**  
Easy connection

# CLARISCAN UP610

## Chairside Immediate Restoration



Intraoral scanning



Design



Grinding/Milling



Sintering



Completion

## Collaborating with Dental Laboratory



Intraoral scanning



Transmission via  
UP3D's platform



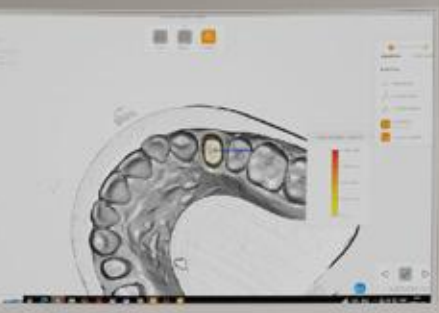
Production  
by dental laboratory



Return to  
dental clinic



Completion



# Parameters

## Intraoral Scanner

**UP610**

Dimensions	227 × 42.5 × 33.3 mm
Weight	210 g
Scan Depth	22 mm
Scan Field	14.5 × 16.2 mm
Full Arch Scanning Time	≤ 2 min
Accuracy	10µm for Full Arch
Scanning Frame	22-24 FPS
Output Formats	STL, PLY, OBJ
Input Power	DC 12V, 3.0A (appropriate power supply for the scanner)

# MODEL SCANNER SERIES



## UP560HD [2025 New]

Classic Upgraded:  
Continuing the Global Bestselling Legacy

Building on excellent scanning capabilities of the UP560, this upgraded model features a more refined and compact design. Equipped with dual 5-megapixel high-resolution cameras, it achieves a scanning accuracy of up to 4 microns.

## UPSCAN

Upgraded Scanning Software

New UI and enhanced post-processing speeds.



### Freely Switch Scanning Steps

Support the ability to switch scanning steps freely without the need to recreate the order, ensuring a simple and convenient operation.

### Mark Margin Line

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

### Fill Hole on Abutment

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



# MODEL SCANNER SERIES

## COMMON FUNCTIONS



### 01 Open System Integrated with exocad

Supports PLY format and direct imports from 3Shape and exocad.

### 02 Smart Design with UPCAD

After scanning, it enters UPCAD design swiftly and seamlessly.

### 03 Easy Operation

You'll learn to use it in just 15 minutes.

### 04 Versatile Applications

UP3D model scanner series can meet all dental application needs.

## SCAN APPLICATION



Texture



Orthodontics



Abutment



Unsectioned Model



Big Articulator



Impression



Triple Tray Impressions



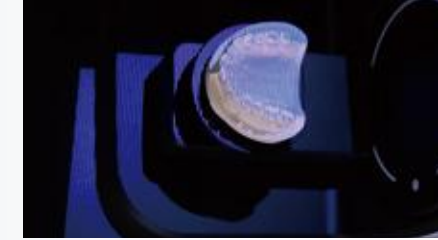
Post & Core



All-in-one

# UP560HD | NEW

## UNSECTIONED MODEL SCANNER



### More Accurate 4µm Precision

Achieving up to 4-micron precision, the UP560HD ensures highly reliable and detailed scan results, raising the standard for complex dental restorations.



### More Details 5MP Dual Cameras

Powered by dual 5MP high resolution cameras, the UP560HD delivers high-resolution scans with exceptional clarity, capturing fine details with no blind spots.



### More Speed 30% Faster Scanning

With a 30% speed boost, the UP560HD scans a single arch in just 10 seconds, accelerating workflows and boosting efficiency to handle more cases.



### More Coverage Optimized Scanning Paths

Enhanced scanning angles expand coverage and navigate tight spaces, ensuring faster, smoother workflows.



### UP560HD - Classic Upgraded

Dimensions: 298 x304 x543(mm)  
Weight: 10kg  
Cameras: 2\*5.0mp  
Accuracy:4microns

**Scan Speed:**  
All-in-one: 15s  
Impression(single tray): 12s  
Dies scan(9): 15s  
Unsectioned models scan: 10s



### UP560 - Unsectioned Model

Dimensions: 300\*285\*556 (mm)  
Weight: 10kg  
Cameras: 2\*3.0mp  
Accuracy: 8 microns

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



### UP400 - High Speed

Dimensions: 355\*268\*384 (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



### UP1000 - Implant Scanning

Dimensions: 520\*295\*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

## UP560HD/UP560/UP400/UP1000

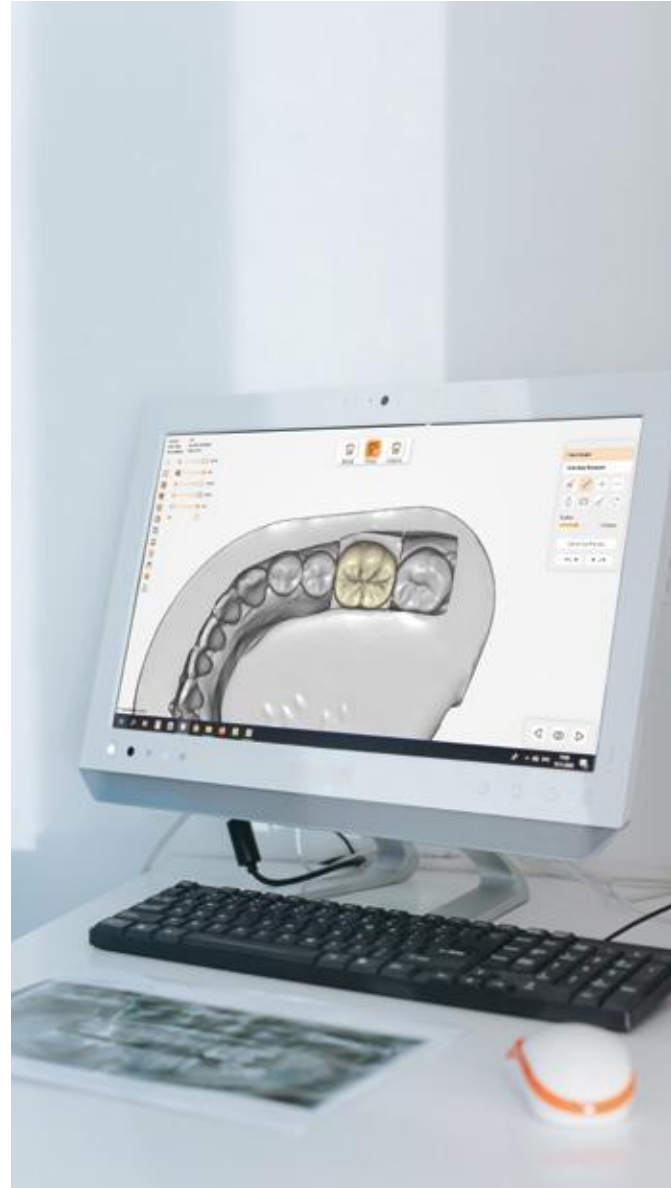
Projection	Customized blue-light
	Multi-color scanning
Interface	USB 3.0
Output Formats	STL, UM, PLY, OBJ
Power Supply	AC100-240V, 50/60Hz
Product Features	All-in-one scan, one-click scanning triple tray
	Detect margin line, true color texture scan
Main Feature	Unsectioned model scan
	All-in-one, smart add-scan
Compatible Design S/W	UPCAD, exocad and 3Shape
Structure	Open
Scanning Method	Non-contact blue light scanning
Axis	2 axis

# UPCAD

## DESIGN SOFTWARE

### DESIGN YOUR SMILE

- Strong capability of data calculation
- Easy workflow
- Wide range of indications
- UP3D remains dedicated to creating a new standard of aesthetic dentistry



## BASIC DESIGN FUNCTIONS



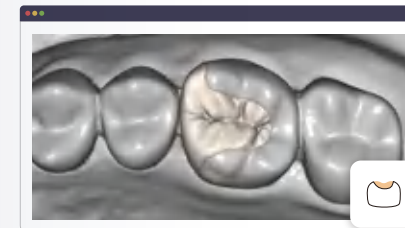
### 01. Crown-bridge design

Sectional margin line drawing makes the bridge design more accurate and flexible.



### 02. Veneer design

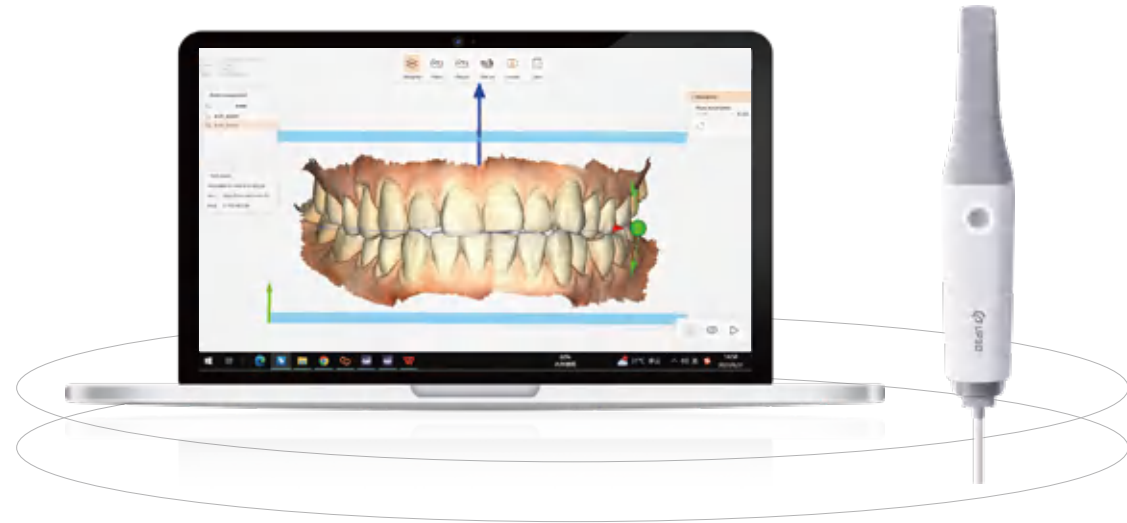
Aesthetic restoration design to ensure the appearance of veneer.



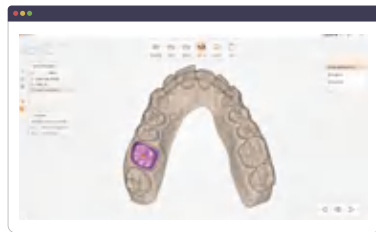
### 03. In/on lay design

Effortlessly create a beautiful and natural in/on lay quickly and easily.

# UPCAD | DESIGN SOFTWARE



## MODEL EDITOR



Plateless Model



Predefined Base



Model Alignment

## Integrated with all UP3D's scanners

Make digital scanning and designing easier, build a dental CAD/CAM system.

## Tooth Library

- Original crown template in UPCAD
- Various design options
- Support importing the tooth libraries

## Design Toolkit

Help you finish designing kindly and efficiently.



## Open system

Any CAM software can import the design data.

## User-friendly Interface

- Easy operation;
- Tooth design can be completed in just 5 steps

## Cement parameters

Support for customized parameters;

# DENTAL MILLING MACHINE SERIES

All the Milling Systems, Including Hardware and Software, Are Developed and Produced By UP3D

## P55D | NEW

24-Hour Heavy-Duty Milling



## P53DC 5-Axis Automatic Disc Changer Dental Milling Machine



## P42 4-Axis Intelligent Wet Dental Grinding Machine



## UPCAM Nesting Software



## P53 5-Axis Smart Dental Milling Machine



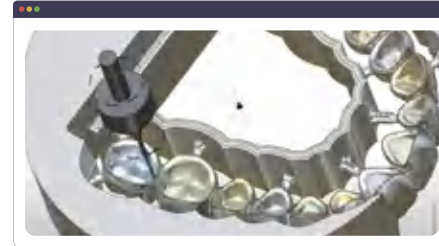
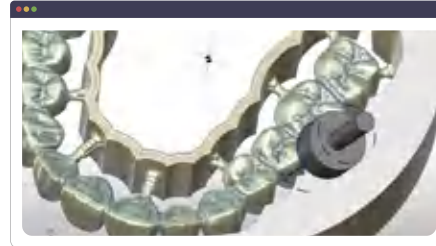
## V10 Smart Dust Cleaner



# UPCAM

## DENTAL MILLING MACHINE SERIES

Extremely fast CAM toolpath calculation  
Single crown NC file generation in just 30 seconds.



### MAIN BENEFITS

#### 01. Fast Toolpath Generation

Generate NC files for single restorations in just 30 seconds and complete nesting for a full disc in 6 minutes, significantly boosting productivity.

#### 02. Easy to Use

Designed with a user-friendly and intuitive interface, UPCAM shortens the learning curve, enabling users to get started quickly and work efficiently.

#### 03. Multi-Language Support

Available in multiple local languages, UPCAM allows users to adopt the software effortlessly and focus on their workflows.

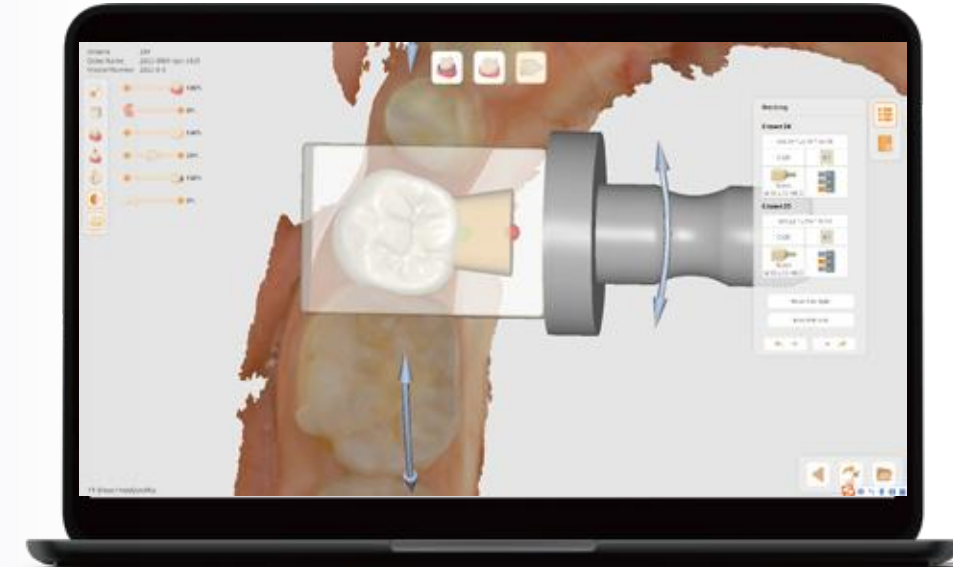
#### 04. Fully Licensed by UP3D

UPCAM is independently designed and developed by UP3D, ensuring a stable, secure, and licensed software solution.

## OPTIMAL PRODUCTION SYSTEM-UPCAM

01. Automated Denture Nesting Software

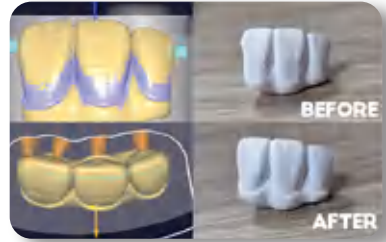
02. Integrated with all UP3D's Dental Milling Machines



Our newly developed, latest-generation UPCAM 2023 integrates dental-specific automated nesting technology and efficient 5-axis CAM strategies. This minimizes the need for manual input and creates an optimized process for precision denture machining seamlessly bridging the gap between planning and digital production.

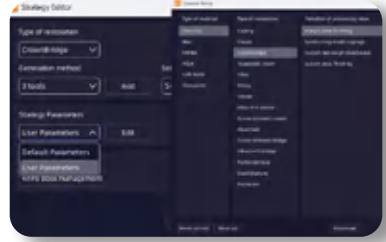
# DENTAL MILLING MACHINE SERIES

UPCAM is continuously enhanced with innovative features and customer-focused improvements, delivering intuitive nesting solutions that meet evolving market demands.



### 01. 90° Milling

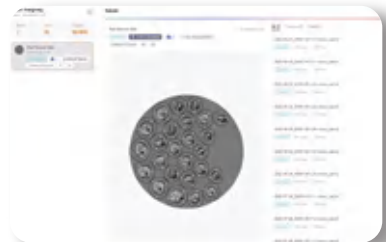
Enables precise milling of undercuts in the buccal or labial areas by rotating the machine to a 90° position. This ensures thorough material removal in hard-to-reach areas, ideal for restorations with complex geometries.



### 02. Strategy Editor

Customize milling strategies to match different material hardness and enhance efficiency:

- For harder materials, reduce milling speed to minimize tool wear.
- For softer materials, increase speed to maximize productivity.



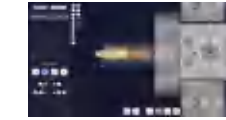
### 03. Automatic Nesting

Automatically positions restoration designs in the disc and generates pin placements, reducing manual adjustments and saving time.

# UPCAM VERSION



Crown, Bridge, Inlay, Veneer



Abutment



Implant Bridge



Post Core



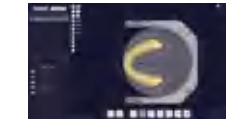
Ultra-Thin Veneer



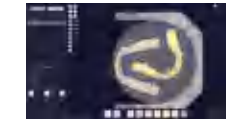
RPD



Overstructure



Denture



Splints



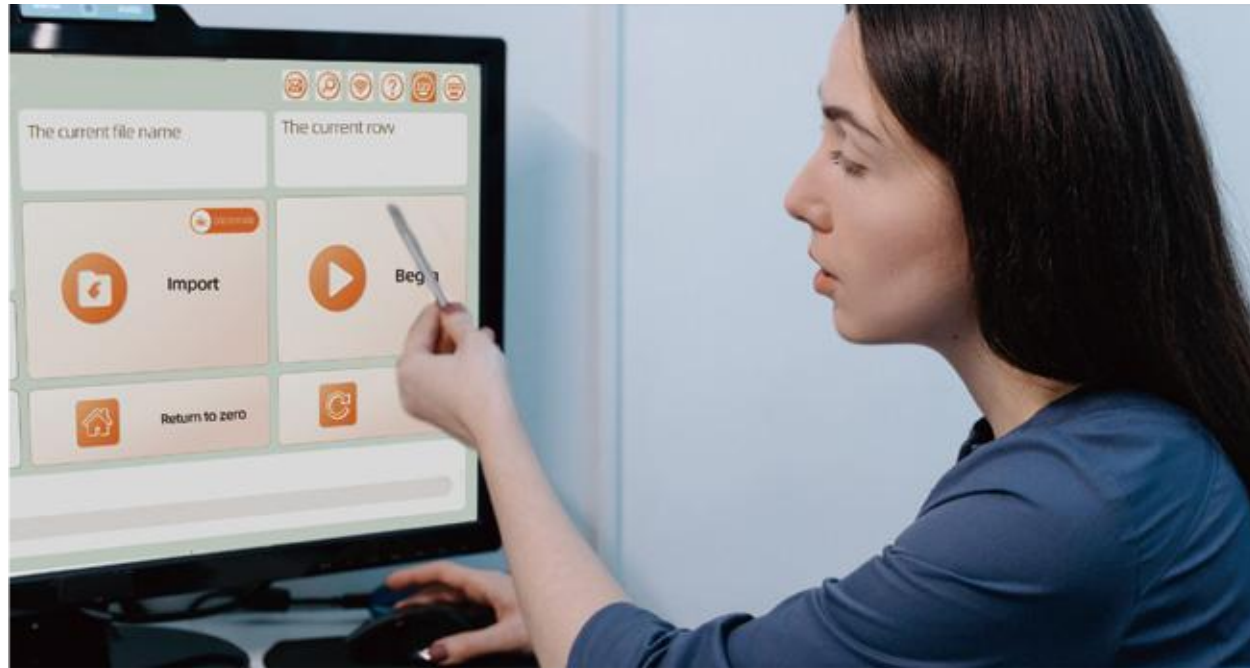
Models

	Features	Standard	Advanced
<b>Restoration</b>	Crown,Bridge	✓	✓
	Inlay,Veneer	✓	✓
	Abutment	✓	✓
	Implant Bridge	✓	✓
	Post Core	✓	✓
	UltraThin Veneer		✓
	RPD		✓
	Overstructure		✓
	Denture		✓
	Splints		✓
Models		✓	



# UPCNC | CONTROL MILLING SYSTEM

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



## 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 the UP3D's platform for remote monitoring.

## MILLMIND | Easily manage all your milling machines with MillMind



## MILLING REMOTE CONTROL SYSTEM

You can choose any remote control method you like to control all machines in the UP3D series

### 01. Small PC control

### 02. Computer Wi-Fi remote control

### 03. MillMind - Cellphone remote control

# UP3D 5-AXIS DRY MILLING MACHINES



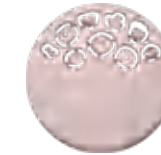
## WIDE RANGE OF APPLICATIONS FREEDOM OF CHOICE IN CREATION



Zirconia (disc)



Zirconia (block)



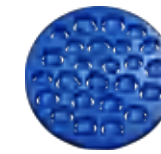
Composite Resin (disc)



Composite Resin (block)



PMMA



Wax



Cocr Sintering Metals



PEEK



### Automation

Automatic Calibration

Automatic tool changer

Automatic Calculation of tool lifetime

# UP3D 5-AXIS DRY MILLING MACHINES

P55D



## High-Quality Spindle 24-Hour Heavy-Duty Milling

The P55D is engineered for continuous, high-precision milling with a German spindle that reaches up to 60,000 RPM, ensuring stable, efficient, and continuous 24-hour production. Experience powerful performance and unmatched convenience—ideal for maximizing productivity.



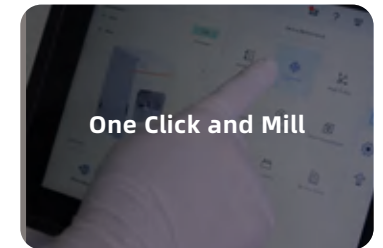
## Smart Servo System High-Precision Milling

The P55D's Smart Servo System actively reduces milling vibrations, achieving micron-level precision with unmatched stability. Designed to handle the demands of complex restorations, this intelligent system ensures reliable, high-quality results with minimal adjustment—delivering confidence in every case.

## User-Friendly with a Short Learning Curve



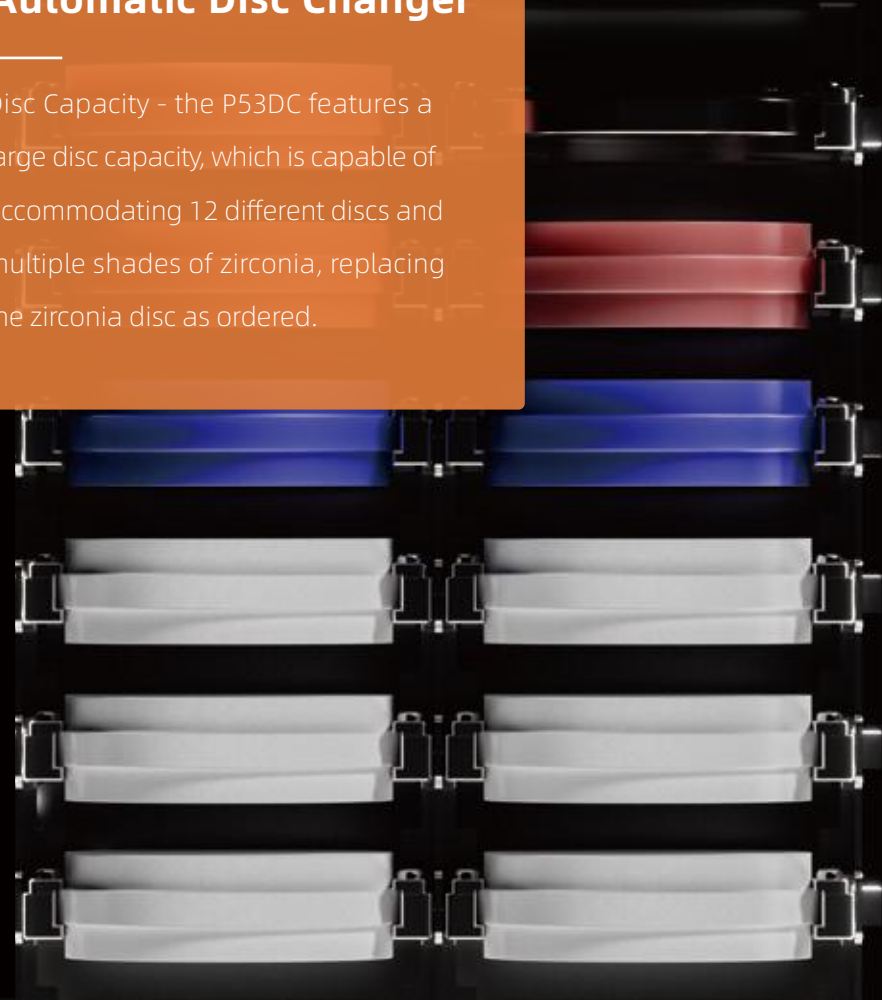
No Compressed Air Needed



One Click and Mill

## 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, replacing the zirconia disc as ordered.



## Smart Material Management System

**-Smart Order Management (Smartassign):**

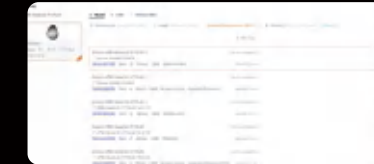
Quick Import: Batch import design orders with one click

**Intelligent Recognition:**

Automatically identifies design type, color, and thickness for easy categorization

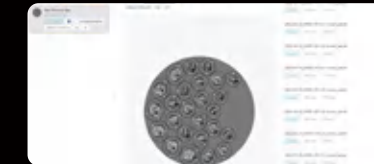
**Automatic Material Matching:**

Recommends optimal materials based on design specifics



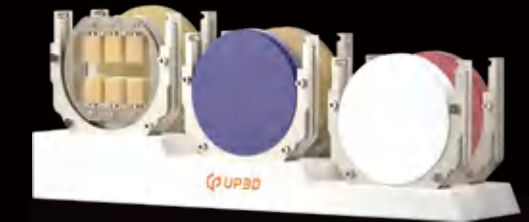
**-Smart Nesting:**

Import dental design data, intelligently position teeth within the disc, and automatically generate pin placements.



## Pre-Loadable Material Adapters

Six pre-loadable material adapters with unlimited expansion, allowing efficient management of various material types.





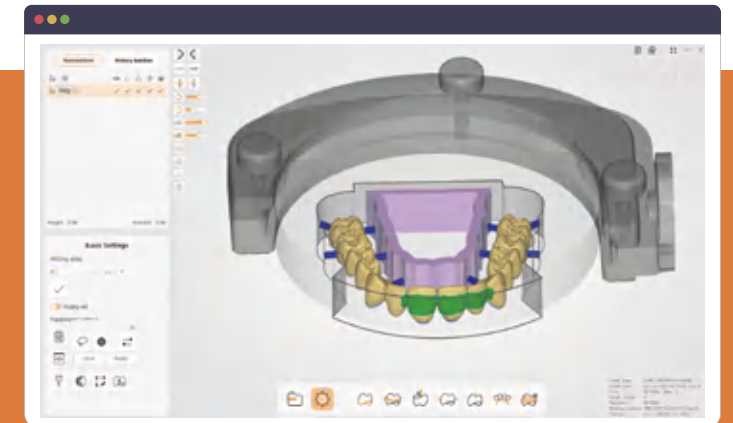
# 90° Vertical Milling

WHAT IS THE 90° MILLING & DESIGN?



## 90 Degree Milling

It is convenient for the embrasure processing of the anterior teeth, bringing the finished teeth closer to the design, and the shape is more natural and complete.



# MULTI-MACHINE CONTROL



## ENHANCED IONIZER: CLEANER MILLING, BETTER RESULTS

The ionizer effectively neutralizes static electricity, preventing debris from adhering to the working chamber and tools, which could compromise milling accuracy. This ensures long-term, stable milling of PMMA and resin materials, delivering a clean and smooth milling process that enhances overall quality.



# HIGH END CLASS FOR CLINIC

## D500

Dry milling machine



### 01. Premium Clinical Performance & User-Friendly

- Built-in PC and camera
- Compressor-free, quiet milling
- Snap-in clamp for easy loading

### 02. Compact & Stable

- Lightweight 45kg metal frame
- Small footprint, coffee machine size in dental clinic

### 03. Versatile Applications

- Dry milling of both discs and blocks
- Immediate and complex restorations



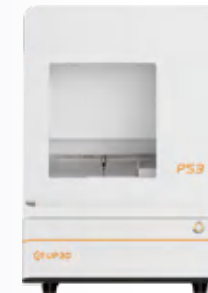
### D500

Dimensions: 520×360×580 (mm)

Weight: 45Kg

Input Voltage: 100VAC-240VAC, 50-60Hz

Materials: Zirconia, Wax, PMMA, PEEK, Composite Resin,  
Soft CoCr Sintering Metal



### P53

Dimensions: 443.5×718×628.5 (mm)

Weight: 87kg

Input Voltage: 100VAC-130VAC, 200VAC-240VAC (selectable)

Coping: Zirconia-10min Wax- 4.5min

Crown: Zirconia-13min Wax-5.5min



### P53DC

Dimensions: 875×720×630 (mm)

Weight: 138kg

Input Voltage: AC 100-240V

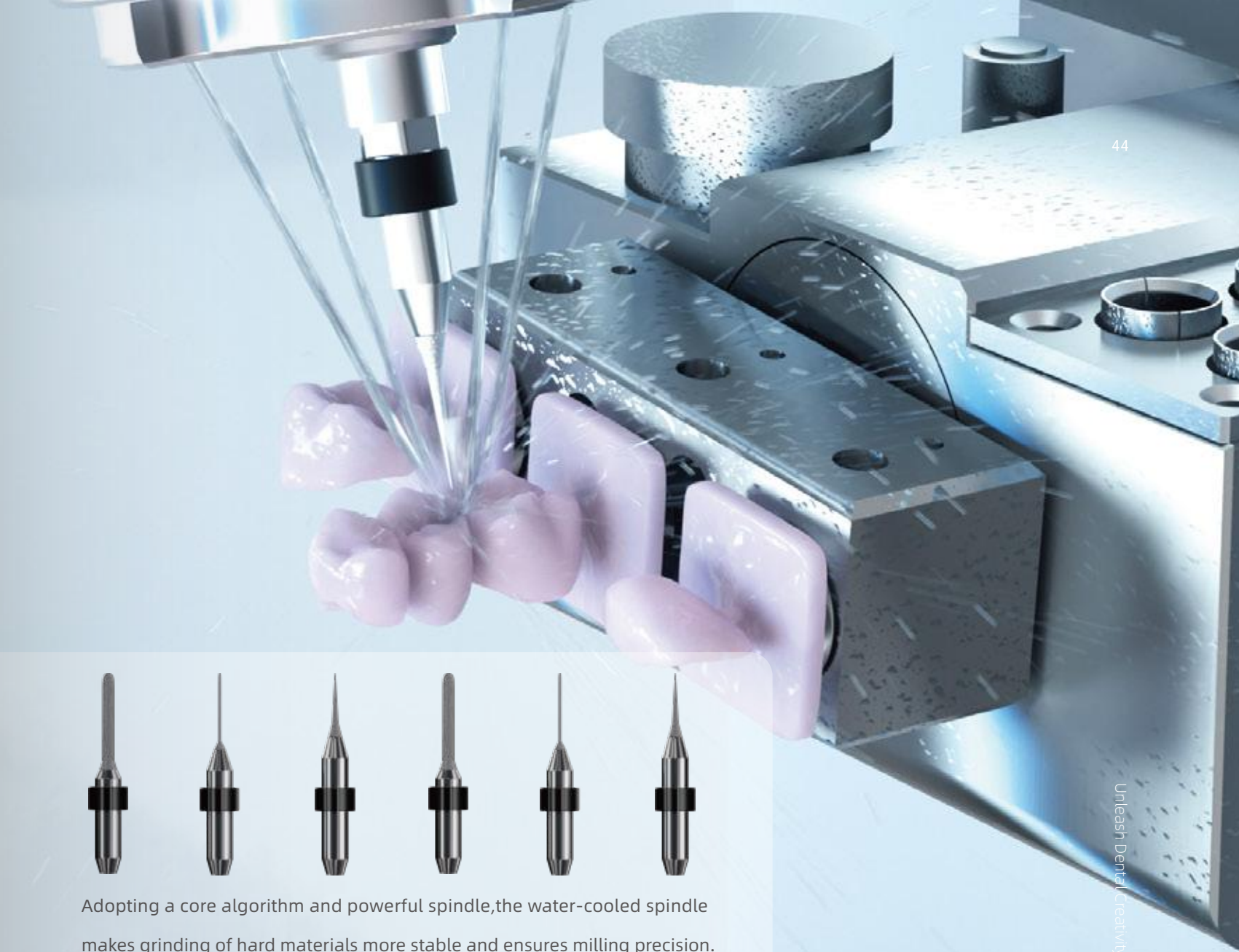
Disc Library Quantity: 12

Coping: Zirconia-10min Wax- 4.5min

Crown: Zirconia-13min Wax-5.5min

# UP3D WET MILLING MACHINE

P42 PLUS



Adopting a core algorithm and powerful spindle, the water-cooled spindle makes grinding of hard materials more stable and ensures milling precision.





### Visible operating instructions

Our self-developed CNC control software has operating instructions, every step of the operation is clearly visible.



### Remote assistance

Remote monitoring assists production, and the technician only needs to load and unload the ceramic blocks, making it intelligent and efficient.



### Multi-tooth nesting

Efficient multi-tooth nesting on a single ceramic block effectively reduces production costs.



### Automatic calibration

Intelligent one-click automatic calibration maintains high-precision processing mode of the equipment.



### Tool life monitoring

Automatic tool life detection reduces the risk of processing anomalies.



Embedding



Three-unit Bridge



Dental Crown



Dual Veneer



Abutment

## GENERAL

Fields of Application	Wet machining
Materials	Glass ceramics, titanium, composite resin, PMMA
Material Specifications	Blocks up to 40x20x20mm(Max)
Indications	Copings, anatomical crowns, screw-retained crowns, inlays, onlays, veneers, telescopic crowns, implant abutments

## BASE SYSTEM

Construction	Machine bed made of solid cast aluminum body
Number of Axes	4-axis
Housing	Steel, white high-gloss lacquer finish, main front housing: injection-molded
Rotary Axes (A/B)	A-axis: $\pm 360^\circ$
Lighting	LED lighting inside the working chamber

## SPINDLE

General	High-frequency spindle, automatic tool change, no air cooling required
Speed	60,000rpm (max)
Tool holding	$\Phi 4.0\text{mm}$
Power	Peak power (Pmax): 800watts•continuous power(S1): 450watts

## CONNECTION REQUIREMENTS

Voltage	AC 200V-240V, 50~60Hz
Data	Wi-fi、USB、Ethernet port

## DIMENSIONS & WEIGHTS

Dimensions (W/D/H)	560x400x565(mm)
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## SCOPE OF DELIVERY

CAM Software	UPCAM
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# UP3D METAL MILLING MACHINES

**P55W**

Coming soon (May 2025)

- 01. Wet milling
- 02. Supports processing of various materials
- 03. Intelligent monitoring system
- 04. Boosting overall production output by 15%



Implant Bridge



Abutment



Sample Disk



# UP3D PRODUCT



V10



F20



F30

Visit the UP3D website for detailed specifications  
Scan the QR code with your camera to explore more