YUCERA

YRC-520D

Dental Milling Machine

High-Efficiency Milling • Large Screen Smart Interaction

Single Crown in 12 min

13-Tool Capacity

Remote Monitoring

Smart Calibration

Tool Magazine Calibration



Delivering Stable, Precise, and User-Friendly Milling Solutions

YRC-520D Dental Milling Machine

Yucera YRC-520D is a dry milling machine and a meticulously engineered addition to Yucera's CAD CAM solutions. Combining micron-level accuracy with a robust design, it enables detailed milling for various dental restorations on a single machine, delivering more efficient and stable performance.



Precision Milling

Large Smart Touchscreen

High-Power Spindle

Fast and Stable

Remote Monitoring

Multi-Material Compatibility

Product Advantages

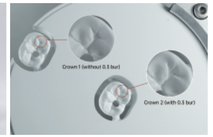
Optimized Milling Strategies+Advanced Workflow=Faster Processing

Ultra-Fast Mode: Posterior implant crown(Tooth#6):10min
with 0.3 mm bur for detailed occlusal milling:12min

Standard Mode: Posterior implant crown(Tooth#6):12min
with 0.3mm bur for detailed occlusal milling:14min

Precision Mode: Anterior veneer milling:12min





All-New Interactive Experience

Large-screen makes operation easier. Remote monitoring of milling status anytime, anywhere, with seamless file transfer beyond physical boundries.





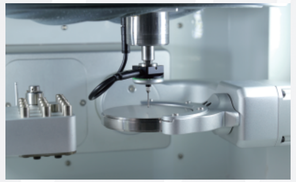
Automatic Calibration

Complete calibration upon startup, eliminating manual calibration while improving efficiency.

More Advantages, Greater Competitiveness

Automatic Calibration

Automatic calibration completed within 5 minutes. Start machining immediately after calibration, improving equipment utilization.



Tool Magazine Calibration

Ensures accurate tool position positioning and more stable machining accuracy.

Remote Monitoring

Supports real-time HD preview, allowing you to check on-site status anytime, anywhere.



Wi-Fi Connectivity

Remote viewing and parameter configuration in one step.
No on-site supervision needed.
Reduces labor costs.



DETAILS!
100% GET TO KNOW THE YRC-520D



21.5-Inch HD Touchscreen

A high-definition touchscreen for easy and efficient operation

Status Indicator Light

3-colour indicator lights
Real-time machine status at a glance

Integral Cast Iron Structure

Strong vibration damping,
deformation resistance,
and long-lasting precision and stability

Closed Low-Center-of -Gravity Structure

Reduces cutting vibration and improves damping performance for reliable edge fit in fine denture machining

High-Precision Transmission and Guide Rails

Taiwan TBI ballscrews and guide rails

Haozhi 60,000 rpm High-Speed Spindle

800W 60000rpm

Fully Enclosed Silicone Dust Protection System

Featuring an integrated silicone sealing membrane, the system keeps dust away from transmission components and electrical systems, preventing mechanical jamming and electrical failures caused by ultrafine dust.

Automatic Tool Changer

13-Tool magazine with automatic tool changing
Tool life monitoring system

*Specifications and software features are subject to change. Actual performance depends on the delivered version.

Machinable Products

Veneer	Full Crown	Full Arch Bridge	Coping	Coping Bridge
Inlay	Telescopic Crown	Abutment Crown & Bridge	Implant Abutment	Partial Arch Model

Holder Types

Standard C-CLAMP

- Suitable for φ98 mm discs
- Machinable material thickness: 10-30 mm
- Approx. 20% higher material utilization



Milling Burs

Zirconia Milling Burs

T01 Zirconia φ2.0 | T02 Zirconia φ1.0 | T03 Zirconia φ0.6 | T04 Zirconia φ1.5

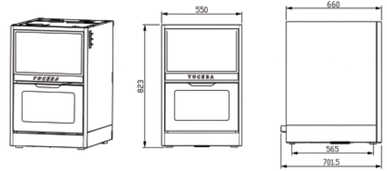
PMMA Milling Burs

T05 PMMA φ2.0 | T06 PMMA φ1.0 | T07 PMMA φ0.6

Product Specifications

Basic Parameters	
Machining Method	Dry milling
Machinable Materials	Zirconia, WAX disc, PMMA, PEEK, composite materials
Machinable Material Thickness	10-30 mm
Working Stroke: X/Y/Z	X/Y/Z: 190 mm - 96 mm - 99 mm
Spindle Power / Speed	800 W / 60000 rpm
Drive System	Full servo motor
Power Supply	220-230 V AC,50/60 Hz
Tool Magazine Capacity	13
Milling Bur Specification	4 mm shank diameter, automatic tool change
Required Air Pressure	6.0-7.5 bar (dry, oil-free)
CAM Compatibility	Open architecture
Total Power	2.0 kW
Outline Dimensions	660*550*823 mm
Weight	155 kg
Machining Cycle	Full crown < 12 min 3-unit bridge < 30 min
Compressed Air Consumption	Approx. 50 L/min
Minimum Dust Extraction Rate	3000 L/min

Outline Dimensions (mm)



After-Sales Service

Rapid Response to Downtime

- 30-min response
- 4-hour solution proposal
- Backup machine/alternative plan for missing parts

Scheduled On-Site Follow-Up

- Installation training
- Maintenance & calibration
- Trade-in service
- Scheduled on-site visits and regular follow-ups

Rapid Remote Software Resolution

- Resolved within 4 hours
- Mainly remote support

Fast Repair for Performance Loss

- 2-hour response
- 48-hour remote diagnosis

Founded in 2017, Shenzhen Yucera Dental Material Co., Ltd. is a national high-tech enterprise located in Pingshan District, Shenzhen. Starting with zirconia blocks for all-ceramic dentures, YUCERA has grown into a full-spectrum provider of premium materials, equipment, and digital solutions across the dental industry.

Headquartered in a modern technology park covering nearly 40,000 m^2 in Pingshan, Shenzhen, the company operates advanced R&D laboratories and intelligent CNC production lines, maintaining consistently high product standards. YUCERA produces over 100,000 zirconia blocks per month and employs a team of more than 400 professionals, over 60% of whom are R&D engineers holding mid- to senior-level qualifications in biomaterials or intelligent CNC technology.

YUCERA's product lines are protected by dozens of invention and utility model patents. The company holds ISO, CE, FDA, and Korean KGMP certifications, and has been recognized as an innovative enterprise, integrity demonstration enterprise, and high-tech enterprise — credentials that underpin the quality of YUCERA products in markets worldwide.

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