



Desktop Dental Metal 3D Printer

Small in Size Big in Performance

## RITON ADDITIVE TECHNOLOGY CO., LTD



## **Desktop Metal 3D Printer**

MLab is a high-performance desktop metal 3D printer tailored by Riton 3D for dental labs. Its compact and streamlined design addresses the spatial constraints in dental labs. Equipped with Riton's independently developed hardware and software control system, in collaboration with Riton's efficient and high-quality services, MLab provides robust empowerment for dental processing labs.



## Fine craftsmanship tailored exclusively for dentistry **Personalized production**

## at your fingertips

Three dimensions to assist you in efficient manufacturing

## **More Economical**

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### Optimal layout for dental labs

With a compact size of 60×60×80cm, it supports highly flexible layouts, effectively addressing spatial constraints in dental labs

 Dual reductions in air and power consumption, offering double savings and advantages Small in size, low in power consumption, further reducing production costs

## Safer

### Pre-soaking system

The filter cartridge can be pre-soaked during cleaning, avoiding spontaneous combustion and eliminating safety hazards

### Ergonomic design

Placed at a height of 80cm on the desktop, eliminating the need for bending during operation, reducing occupational strain

## **More Efficient**

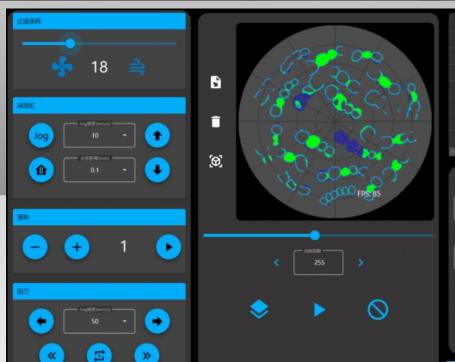
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 Customized for dentistry Print area of φ100×80mm, In the fastest case, it only takes 2.5 hours to print 100 metal C&Bs or 7 metal RPDs (Actual time may vary due to different conditions)

- Dual-module control Utilizing PLC and industrial computer dual-module control to effectively enhance equipment stability
- · Optimized layout of the cooling system Equipped with 6 fans for efficient heat dissipation, achieving an ideal thermal circulation state
- Upward powder feeding structure design Allows for mid-print powder addition, effectively reducing the rate of discarded prints
- Clear equipment status
- 10.1-inch touchscreen, bird's-eye-view panel, providing real-time control of the device's working status.
- · Intelligent connection to production equipment. Wireless transmission of printing data enables remote operation of printing.

**Convenient and Fast User Interface** 

Full Control over Equipment Status

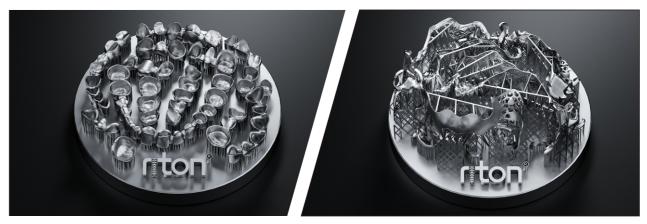


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## **Technical Specifications**

Laser Source Laser Power Maximum Scanning Speed Layer Thickness Protective Gas Printing Materials Printer Weight Input Voltage Installation Environment

## **Printed Samples**



### Intelligent monitoring and feedback

Monitoring of the overall machine operation status: PLC connection status, laser status, emergency stop, lifting axis status of the forming chamber, powder falling axis status, scraper axis status, and powder shortage status, providing a comprehensive understanding of component status



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### Real-time recording and traceability

The interface now includes a "One-Click Filter" function: errors, warnings, and normal execution information



Intuitive and easy to use
 The user interface is simple, intuitive, and easy to operate

Single-fiber laser
250W
11200 mm/s
20-60µm
Nitrogen or Argon
Cobalt-chromium alloy / Titanium alloy / Stainless steel
135kg
220V
15°C-35°C, Humidity: ≤95%, No vibrations

## AUXILIARY EQUIPMENT

## SMALL IN SIZE BIG IN PERFORMANCE



**Vacuum Cleaner** φ28.5×50cm (H)



**Tube Furnace** 60×67×72cm (L×W×H)









Nitrogen Generator 55×55×85cm (L×W×H)



## TECHNICAL SERVICES



Installation Consultation Service

Equipment Consultation
Site Space Consultation
On-site Installation



# Professional Training Services Design Training 3D Printer Operation Training Post-Processing Training



### Worry-Free After-Sales Service

Online Technical Support
On-site Repair within 48 Hours
Providing Proxy Printing Services during Equipment Maintenance Period

