

EP-M150

Dental Metal 3D Printer

High Efficient & Reliable & Save cost



EP-M150

Eplus3D EP-M150 uses a fiber laser to directly melt elemental or alloy metal powders to form dental restorations, like crowns, bridges and partials. Featuring a short production time, low operation cost and high quality, EP-M150 is an ideal choice for dental clients worldwide.

HIGH EFFICIENCY

It only takes around 5.5 hrs to print a full plate of teeth (around 220 crowns) , around 8 hrs to print a full plate of partials (around 25 pcs.).

HIGH QUALITY & FINE DETAILS

Thanks to self-developed optical path system and professional high-precision correction method, EP-M150 guarantees high printing quality.

CONVENIENT OPERATION

- “One-click printing” makes sure people can operate EP-M150 very easily.
- Optimized structure design allows easier maintenance.

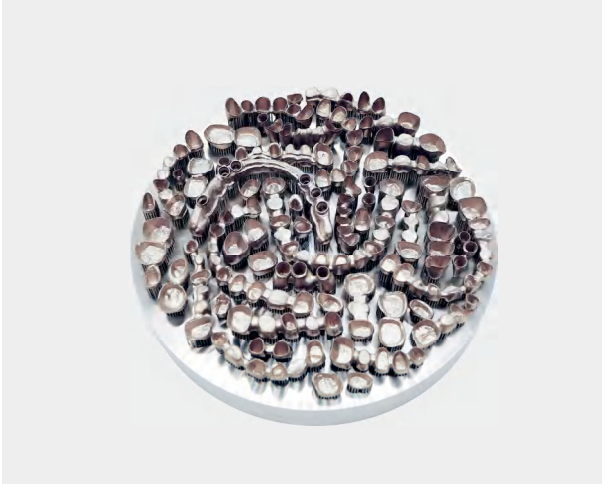
LOW OPERATION COST

- Improved powder feeding and sieving system enables a high material utilization rate : approx. 550 crowns printed only by 1 kg powder.
- Optimized chamber structure and excellent sealing proper ties minimize gas consumption: gas consumption <0.2 L/min (printing period).

HIGH SAFETY

- EP-M150 integrates more than 10 security technologies to enhance overall safety.
- Working environment and real-time gas monitoring helps to ensure high equipment safety.

APPLICATIONS



EP-M150

PARAMETER

Machine Model	EP-M150
Build Volume (X x Y x Z) (height incl. build plate)	Φ 150 x 100 mm (Φ 5.91 x 3.94 in)
Optical System	Fiber Laser, 200 W (single or dual-laser optional)
Spot Size	40 - 60 μm
Max Scan Speed	8 m/s
Theoretical Printspeed	Up to 35 cm ³ /h
Layer Thickness	20 - 50 μm
Material	Titanium Alloy, Cobalt Chrome.
Power Supply	220 V, 2.5 kW, 14 A, 50 ~ 60 Hz (Dual Laser : 3.5 kW, 19 A)
Gas Supply	Ar / N ₂
Oxygen Content	≤100 ppm
Dimension (W x D x H)	1750 x 810 x 2190 mm
Weight	900 kg
Software	EPControl, EP Hatch
Input Data Format	STL or other Convertible File

Notice: Eplus3D reserves the right to explain any alteration of the specifications and pictures.



Powder Dry Oven EP-DO450

Keep your powder dry!

Equipment Size	650 x 650 x 1350 mm
Voltage	230 V
Used for Materials	All metal powders



Vacuum Cleaner EP-VC215

Keep your lab clean!

Equipment Size	500 x 630 x 1360 mm
Voltage	230 V
Max. Air Flow	215 m ³ /h
Noise Level	77 dB(A)
Used for materials	All metal powders



Nitrogen Generator EP-NG150

Create the right printing atmosphere!

Machine Size	740 x 540 x 755 mm
Voltage	230 V
Power	0.7 kW
Air Supply	14 m ³ /h at 8 bar
Gas Production	2.88 m ³ /h at 99,99% Purity Enough to supply two EP-M150 at the same time.
Buffer Tank	40 L at 8 bar
Used for Materials	Non-reactive metal powders



Band Saw EP-BS150

Cut the printed parts off the build platform!

Machine size	300 x 800 x 600 mm
Voltage	230 V
Used for Materials	All metal powders



Vacuum Furnace EP-VF150

Relieve stress by annealing!

Machine size	700 x 600 x 1100 mm
Chamber size	200 x 200 x 200 mm
Voltage	230 V



Sieving Machine EP-MS300

Keep your powder clean!

Machine size	800 x 350 x 1000 mm
Voltage	230 V
Sieving speed	5 kg in 5 mins
Voltage	230 V
Used for Materials	All metal powders