



Metal 3D Printer

NOURA M120

New Generation of the M100 Family, with industrial and medical application

The Noura M120 is a versatile system, operating based on selective laser melting (SLM) technology. It is used for production of customized-metal parts as well as low volume series of intricate components. This machine is the new face of the M100 family but with smaller dimensions while maintaining the technical specifications. Ease of transportation and installation were the main factors considered for designing Noura M120. High-speed production and the simplicity of changing material are this machines other advantages. Furthermore, this machine possesses an advanced gas filtration reducing inert gas consumption. Powder bed monitoring and process remote controlling are among Noura M120's capabilities. Medical prostheses, dental implants, and industrial parts can be manufactured with this machine. In addition, this system can be used for research applications. Noura M120 is offered in industrial and medical models.

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TECHNICAL DATA	INDUSTRIAL	DENTAL
Building volume	Ø125 mm × 150 mm height	Ø125 mm × 100 mm height
Layer thickness	20 – 80 µm	
Laser system	Fiber laser 300/500 W (CW)	
Optic system	F-theta-lens; High-speed scanner	
Scanning speed	Up to 7.0 m/s	
Focus diameter	Approx. 80 µm	
Production speed	Up to 20 cm ³ /h	
Power supply	32 A; 200-220 V	
Power consumption	Max. 7 kW	
Inert gas	Nitrogen or Argon	
Operating temperature	15 – 25 °C	
Material*	Stainless steels, Hot work steels, Nickel based alloys, Titanium alloys, Aluminum alloys	Cobalt-Chromium alloy,

(* All Noura systems allow the use of materials from any supplier)

DIMENSIONS (W × D × H)	
System	850 × 1000 × 2000 mm
Filter Box	680 × 1110 × 1020 mm
Recommended installation space	Min. 3000 × 3000 × 2200 mm
Weight	Approx. 700 kg

SOFTWARE

NOURA SLM SOFTWARE

Noura Co. has designed and developed a software to exploit the metal 3d printers effectively and manage the manufacturing process. This software, in addition to monitoring and parameter controlling, has some advantages as listed below:

- Displaying the position of the building platform and the volume of the remaining powder in the machine.
- The ability to monitor and control powder surface remotely, while manufacturing.
- Instant recording of the conditions inside the building chamber.
- The ability to pause the manufacturing process and resume at other times.
- The ability to determine the scanning sequences.
- The ability to define many users and their access levels.
- The ability to edit the number and the placement of parts on the building platform.
- The ability to upgrade the software easily.



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