NOURA

Metal 3D Printer

NOURA M300

Ideal For Mass Production and Large Parts Manufacturing with High Production Rate

The Noura M300 operates based on selective laser melting (SLM) technology. The innovative design of the inert gas circulation, not only creates a clean process environment, but also reduces the gas consumption. High-resolution laser beam paired with the highly-uniform gas flow results in homogenous mechanical properties throughout the manufactured final parts. The advanced powder coating system along with the laser's high-power, leads to a high production rate making this machine suitable for industrial applications. In addition, the dimension of the building platform makes it suitable for manufacturing parts in series, spares and customized components. According to the aforementioned specifications, Noura M300 can be used in a wide variety of applications, such as power plant, car, petroleum, gas, petrochemical, and food industries.

NOURA CO.
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Noura M300

TECHNICAL DATA

Building volume	Ø300 mm × 350 mm height
Layer thickness	20 – 100 µm
Laser system	Fiber laser 500/1000 W (CW)
Optic system	F-theta-lens; High-speed scanner
Scanning speed	Up to 7.0 m/s
Focus diameter	Approx. 100 µm
Production speed	Up to 40 cm^3/h
Power supply	40 A; 380 V (3P)
Power consumption	Max. 15 kW
Inert gas	Nitrogen or Argon
Operating temperature	15 – 25 °C
Materials*	Stainless steels, Hot work steels, Nickle-based alloys, Cobalt-Chromium alloy, Titanium alloys, Aluminium alloys

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

DIMENSIONS (W × D × H)

System	2700 × 1300 × 2500 mm
Filter Box	1250 x 750 x 1250 mm
Recommended installation space	Min. 6000 × 4300 × 4000 mm
Weight	Approx. 3000 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 capabilities as listed below:

- Displaying the position of the building platform and the volume of the remaining powder in the machine.
- Instant recording of the conditions inside the building chamber
- The ability to monitor and control powder surface remotely, while manufacturing.
- 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 placement of the parts on the building platform.
- The ability to upgrade the software easily.

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