MELTIO

Meltio M450

Turn-key Metal 3D Printer

Designed for industry without the need for industrial infrastructure; affordable, reliable, safe and easy-to-use metal 3D printer. Ideal for small to medium size part fabrication and multi-metal 3D printing research.

Reliable
The metal 3D printing process is monitored in real time and compensated if required by process control.

Safe
Suitable for any environment thanks to a process built around wire, a sealed chamber and a built-in 3 stage filter.

Easy-to-use
Automatic toolpath generation and material print profiles supplied by Meltio make for a plug-and-play experience.

Affordable
The low capital and running costs of the Meltio M450 make metal 3D printing of conventional parts possible.

Technical Specifications

Dimensions (WxDxH):
560x600x1400 mm

Print Envelope (WxDxH):
145x168x390 mm

Weight:
250 kg

Laser Type:
6 x 200 W direct diode lasers

Laser Wavelength:
976 nm

Total Laser Power:
1200W

Power Input:
208/230 V single phase or 400 V three phase

Power Consumption:
2-5 kW peak depending on selected options

Process Control:
Closed-loop, laser and wire modulation

Enclosure:
Laser-safe, sealed, controlled atmosphere

Interface:
USB, ethernet, wireless datalink

Cooling:
Active water-cooled chiller included

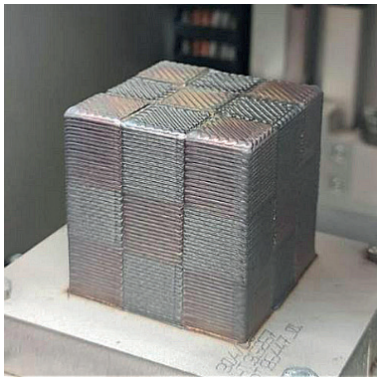
Materials

Wire Materials:
Compatible with a wide range of welding wires including stainless steels, mild steels, carbon steels, titanium alloys, inconel and tool steel.

Wire Feedstock:
Diameter: 0.8-1.2 mm
Spool Type: BS300

Upgrades and Accessories

Hot Wire:
Increase the print speed with a programmable power supply that preheats the material before it enters the melt pool.



Dual Wire:
Print parts in two materials using the dual wire option. Dual wire allows for the fast and automatic switching of materials within a print without cross-contamination.