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.

Technical Specifications

Dimensions (WxDxH):	560 x 600 x 1400 mm	**Power Consumption:**	2 - 5 kW peak depending on selected options
Print Envelope (WxDxH):	145 x 168 x 390 mm	**Process Control:**	Closed-loop, laser and wire modulation
System Weight:	250 kg	**Enclosure:**	Laser-safe, sealed, controlled atmosphere
Laser Type:	6 x 200 W direct diode lasers	**Interface:**	USB, ethernet, wireless datalink
Laser Wavelength:	976 nm	**Cooling:**	Active water-cooled chiller included
Total Laser Power:	1200 W	**Wire Feedstock Diameter:**	0.8 - 1.2 mm
Power Input:	208/230 V three phase and 400V three phase are compatible.	**Wire FeedstockSpool:**	BS300

Wire Materials

Stainless Steels:	Excellent strength and corrosion resistance.
Mild Steels:	Cheap and ductile, with unparalleled machinability and weldability.
Carbon Steels:	High impact strength, retain hardness at high temperatures.
Titanium Alloys:	Highest strength to weight ratio and corrosion resistance.
Nickel Alloys:	High versatility, outstanding heat and corrosion resistance.

Upgrades and Accessories

Hot Wire:	Programmable power supply that preheats the material to increase the deposition rate.
Dual Wire:	This option allows to 3D print two wire materials sequentially with very quick wire switches.
Laser Alignment System:	It allows users to align Meltio's multi-laser deposition head accurately and effortlessly prior to every print.