

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.