

# 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.