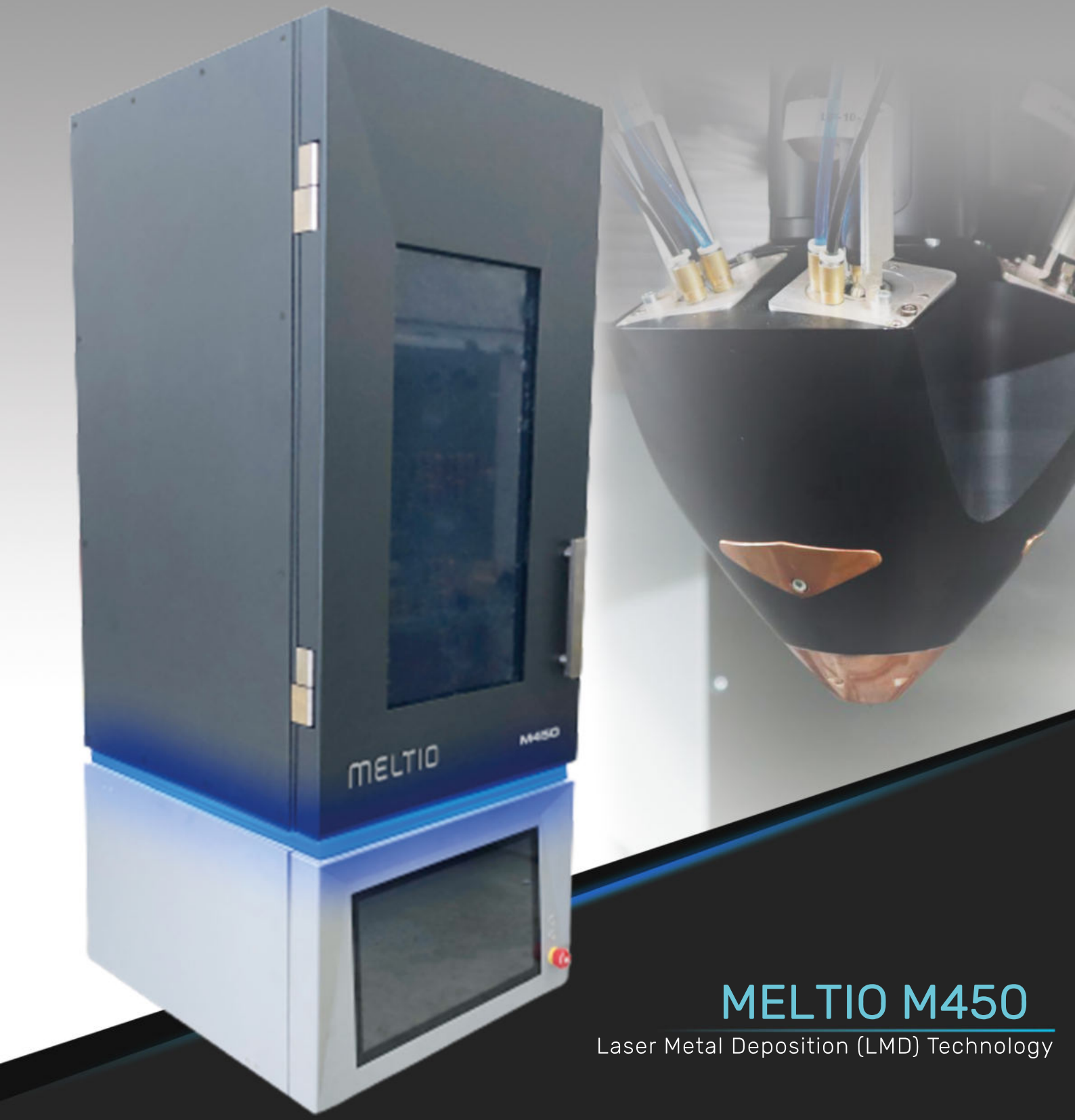
MELTIO

MONOTECH
SYSTEMS LIMITED



MELTIO M450

Laser Metal Deposition (LMD) Technology

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.

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Reliable
The metal 3D printing process is monitored in real time and compesated 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.

Combustion Chamber
SS316L – Aerospace
System: Meltio M450
Size: 110.5 x 110.5 x 170 mm
Weight: 4.88 kg
Print Time: 27 h 30 m

Glas Mold Core
SS316L – Manufacturing
System: Meltio M450
Size: 158.5 x 79.31 x 144.3 mm
Weight: 6 kg
Print Time: 24 h

Tecnical Specification

Technology : Laser Metal Deposition (LMD)

Dimensions (W*D*H): 560x600x1400 mm

System Weight: 250 kg

Laser Type: 6 x 200 W direct diode lasers

Enclosure: Laser-safe, sealed, controlled atmosphere

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

Interface: USB, ethernet, wireless datalink

Accesories: Laser Alignment System, Hot Wire and Dual Wire

Print Envelope (X*Y*Z): 145x168x390 mm

Laser Power: 1200 W

Laser Wavelength: 976 nm

Process Control: Closed-loop, laser and wire modulation

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

Cooling: Active water-cooled chiller included

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

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