MELTIO

Technical Datasheet
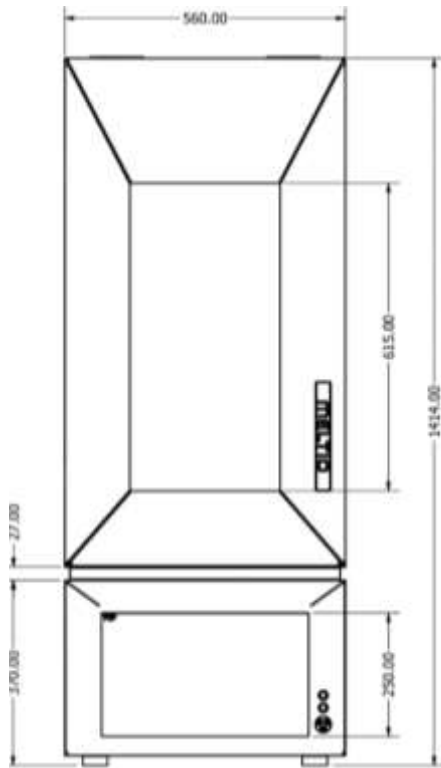# Meltio M450

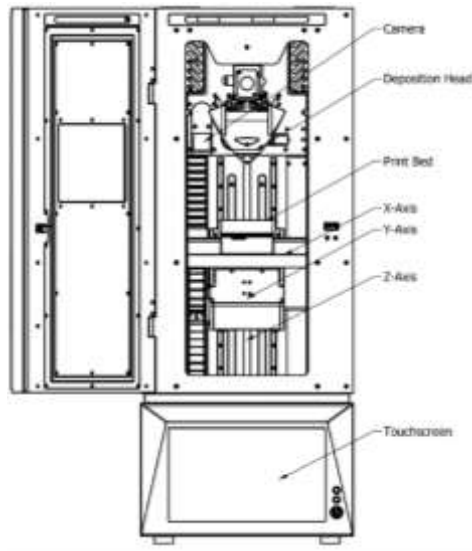|	
Dimensions (W*D*H): 560*600*1400mm	**Print Envelope (X*Y*Z):** 150*170*425mm
Weight: 250kg	**Laser Power:** 1200W
Laser Type: multiple 200W direct diode lasers	**Laser Wavelength:** 976nm
Enclosure: laser-safe, sealed, controlled atmosphere	**Process Control:** closed-loop laser and wire modulation
Power Input: 208/230V single phase or 400V three phase	**Power Consumption:** 2-5kW peak depending on selected options
Interface: USB, ethernet, wireless datalink	**Cooling:** active water-cooled chiller included

Materials

Wire Materials:
stainless steel, carbon steel, titanium alloys, inconel

In development:
copper

Wire Feedstock:
0.8-1.2mm diameter

Wire Feeds:
up to two K300 spools

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Labels on diagram: Camera, Deposition Head, Print Bed, X-Axis, Y-Axis, Z-Axis, Touchscreen

Upgrades and Accessories

Hot Wire:
programmable power supply that preheats the material before it enters the melt pool.

Dual Wire:
this option allows to 3D print two wire materials sequentially with very quick wire switches.

Station:
sturdy wheeled stand made from stainless steel and aluminum. Contains tool and material drawers.