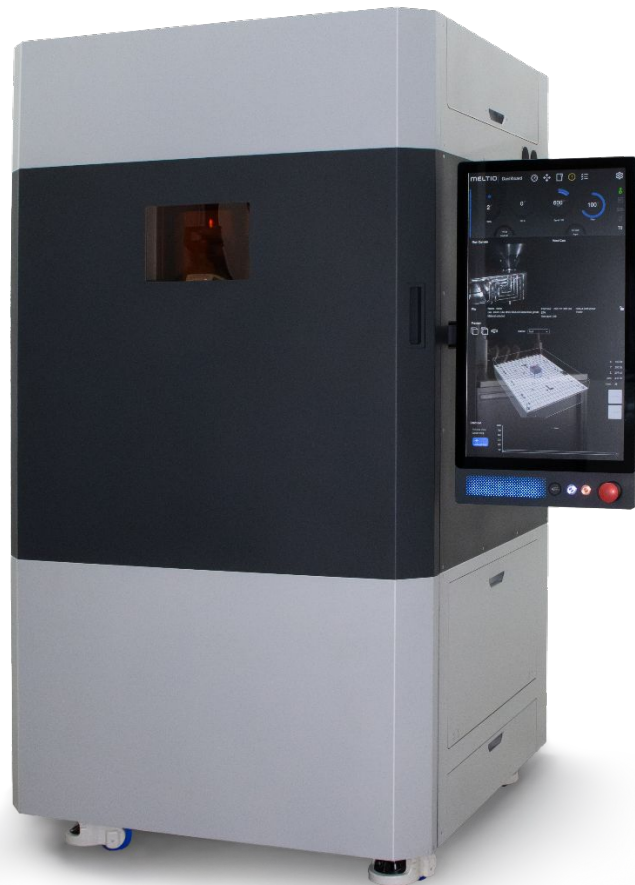


# Meltio M600

## Industrial Metal 3D Printer

Expand your manufacturing capabilities with Blue lasers, a large build volume, and a fully inert chamber for the best material properties. Printing is easier than ever thanks to the improved process control, advanced sensors, and live monitoring allowing you to produce parts consistently 24/7.

The Meltio M600, with its built-in 3-axis probing system and work-holding solutions, is the ideal companion for your manufacturing operations.



## Value Proposition

### As simple as press Print.

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Standardized printing strategies for a faster, safer, and more productive experience. The improved process control will take care of the rest.

### Easy-to-use

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Advanced sensor solutions, simplified UI, Dedicated Slicer, zero point clamping system etc. all designed to minimize operator interaction.

### Reduced maintenance

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The newly developed deposition head removes the need for laser alignment, while the motion system has been improved and over-sized to ensure maximum life-times.

### Production Ready

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Bigger parts, higher deposition rate, Larger material range, inert print chamber, less maintenance, and built-in workholding solutions.

### Reliable

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Redeveloped from scratch, boasting an improved wire feeding system, fiber-free deposition head, improved process control systems, and many more making for an extremely reliable machine.

## Technical Specifications

|                             |   |                                 |   |
|-----------------------------|---|---------------------------------|---|
| <b>Dimensions:</b>          | 1050 x 1150 x 1950 mm                                     | <b>Power Input:</b>             | 400V Three Phase                          |
| <b>Build Envelope:</b>      | 300 x 400 x 600 mm  | <b>Power Consumption:</b>       | 4-6 kW Peak Depending on selected options |
| <b>System Weight:</b>       | 800-1000 kg (depending on options)                        | <b>Process Control:</b>         | Closed Loop, Laser and wire Modulation    |
| <b>Movement System:</b>     | Servo Motor Linear axis with Absolute encoder on all axis | <b>Touch Probe:</b>             | Automated XYZ Touch Probe integrated      |
| <b>Filtration system:</b>   | 3 Stage Particulate and Chemical Filtration included      | <b>Enclosure:</b>               | Laser-safe, Controlled inert atmosphere   |
| <b>Environment Control:</b> | Control O2 and Humidity level                             | <b>Interface:</b>               | USB, Ethernet, WiFi                       |
| <b>Laser Type:</b>          | 9x Direct Diode Lasers                                    | <b>Cooling:</b>                 | Active Water cooled Chiller Included      |
| <b>Laser Wavelength:</b>    | 450nm (Blue)  | <b>Wire Feedstock Diameter:</b> | 0.8-1.2mm                                 |
| <b>Total Laser Power:</b>   | 1000 W  | <b>Wire Feedstock Spool:</b>    | BS300 or External Wire Drum               |

## Wire Materials

|                               |  |
|-------------------------------|--|
| <b>Stainless Steels:</b>      | Excellent strength and corrosion resistance                        |
| <b>Mild Steels:</b>           | Cheap and ductile, with unparalleled machinability and weldability |
| <b>Carbon Steels:</b>         | High impact strength, retain hardness at high temperatures         |
| <b>Titanium Alloys:</b>       | Highest strength to weight ratio and corrosion resistance          |
| <b>Nickel Alloys:</b>         | High versatility, outstanding heat and corrosion resistance        |
| <b>Copper &amp; Aluminum:</b> | Conductivity and corrosion resistance & lightweight strength       |

## Upgrades and Accessories

|                                      |   |
|--------------------------------------|---|
| <b>Hot Wire:</b>                     | Programmable power supply that preheats the material to increase the deposition rate                      |
| <b>Dual-Wire</b>                     | This option allows for sequential 3D Printing of up to 2 materials with very fast automatic wire switches |
| <b>Quad-Wire</b>                     | This option allows for sequential 3D Printing of up to 4 materials with very fast automatic wire switches |
| <b>External Wire Drum Connection</b> | Connect external wire drums to the M600, allowing the use of 100 kg and 200 kg material packs             |
| <b>Zero Point Clamping System</b>    | Accurately and quickly couple fixture plates to the print bed of the M600 for production                  |