



The Ultra-Fast Quad-Laser Additive Manufacturing System for the Industrial Production of High-Quality Metal Parts

# EOS M 400-4: High Throughput of Metal Parts in Trusted and Repeatable EOS DMLS Quality

Designed for industrial applications, the EOS M 400-4 offers a large building volume of 400 x 400 x 400 mm combined with four lasers for up to four times higher productivity.

- Four precise 400 watt fibre lasers operate in a 250 mm x 250 mm square each with an overlap area of 50 mm.
- Exceptional beam and power stability provides highest DMLS part quality.
- All processes running on the EOS M 290 can be transferred to the EOS M 400-4 and deliver equivalent part properties.
- New and patented EOS ClearFlow Technology ensures consistent process gas management for ideal build conditions.
- Wide range of materials: from light metals to stainless and tool steels to superalloys.
- Easy handling through a high degree of automation in workflow and operation.
- Extensive monitoring features ensure high process stability and part quality.
- Intuitive user interface, flexible software tools and a variety of additional equipment fulfill industrial production requirements.

## Technical data EOS M 400-4

|                   |   |
|-------------------|---|
| Building volume   | 400 mm x 400 mm x 400 mm (15.8 x 15.8 x 15.8 in), including build plate |
| Laser type        | Yb-fibre laser; 4 x 400 W   |
| Precision optics  | 4 F-theta-lenses; 4 high-speed scanners                                 |
| Scanning speed    | up to 7.0 m/s (23 ft./sec)  |
| Focus diameter    | approx. 100 µm (0.004 in)   |
| Power supply      | 3 x 50 A  |
| Power consumption | max. 45 kW / typical 22 kW  |
| Inert gas supply  | 7,000 hPa; 20 m <sup>3</sup> /h (102 psi; 706 ft <sup>3</sup> /h)       |

## Dimensions (W x D x H)

|                                |   |
|--------------------------------|---|
| System                         | 4,181 mm x 1,613 mm x 2,355 mm (164.6 x 63.5 x 92.7 in) |
| Recommended installation space | min. 6.5 m x 6 m x 3.3 m (256 x 236 x 130 in)           |
| Weight                         | approx. 4,835 kg (10,659 lb)                            |

## Software

EOS RP Tools; EOSPRINT; EOS ParameterEditor; EOSTATE Everywhere; EOSTATE PowderBed; Materialise Magics RP and modules

## Materials

EOS Aluminium AlSi10Mg, EOS Nickel Alloy IN718, EOS Nickel Alloy HX, EOS MaragingSteel MS1, EOS StainlessSteel 316L, EOS Titanium Ti64, EOS Titanium TiCP Grade 2

## Optional accessories

EOSTATE Laser, IPM M Powder Station L\*, IPM M UnpackStation L\*

\* Currently under development

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