

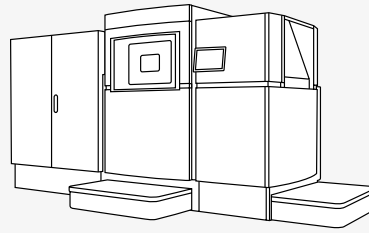


EOS M 400-4
The ultra-fast quad-laser
additive manufacturing system for
high-quality metal parts

EOS M 400-4

Proven DMLS quality plus high productivity for industrial production

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 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.

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Technical Data EOS M 400-4

Building volume	400 x 400 x 400 mm (15.8 x 15.8 x 15.8 in) (height incl. 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 m³/h (102 psi; 706 ft³/h)
Dimensions (W x D x H)	4,181 x 1,613 x 2,355 mm (164.6 x 63.5 x 92.7 in)
Recommended installation space	min. 6.5 x 6 x 3.3 m (256 x 236 x 130 in)
Weight	approx. 4,835 kg (10,659 lb)

Software

EOSPRINT with EOS ParameterEditor, EOSTATE Everywhere, EOSTATE PowderBed, EOSCONNECT Core, Materialise Magics Metal Package and modules

Materials*

* further materials on request

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

** currently under development

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

