



The additive manufacturing system for industrial production of high-quality large metal parts

EOS M 400: DMLS quality for additive manufacturing – with high productivity and enhanced quality management

With a building volume of 400 x 400 x 400 mm, EOS M 400 allows the production of large metal parts on an industrial scale – directly from CAD data and with no need for tools.

- A 1 kW laser boosts productivity due to higher build rates and increased layer thickness.
- Bilateral recoating of powder material reduces non-productive time.
- A recirculating filter system with automated cleaning reduces filter changes and extends filter lifetime, significantly reducing filter costs.
- 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

Building volume	400 x 400 x 400 mm (15.8 x 15.8 x 15.8 in), including build plate
Laser type	Yb-fibre laser; 1 kW
Precision optics	F-theta-lens
Scanning speed	up to 7.0 m/s (23 ft/sec)
Focus diameter	approx. 90 µm (0.0035 in)
Power supply	50 A
Power consumption	max. 20,2 kW / typical 16,2 kW
Inert gas supply	7,000 hPa; 20 m ³ /h (102 psi; 706 ft ³ /h)

Dimensions (W x D x H)

System	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. 4,635 kg (10,218 lb)

Software

EOSPRINT; EOS ParameterEditor; EOSTATE Everywhere; EOSTATE PowderBed; Materialise Magics Metal Package and modules

Materials*

EOS Aluminium AlSi10Mg, EOS MaragingSteel MS1, EOS NickelAlloy HX, EOS Titanium Ti64, EOS Titanium Ti64ELI

Optional accessories

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

* Further materials on request
** Currently under development

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