



EOS M 400 Series Production Platform for Additive Manufacturing of High-Quality Metal Parts

- Reliable and repeatable part quality
- NEW: More precise results in the overlap area
- NEW: Lifelong filters

EOS M 400 Series

DMLS Quality plus Highest Productivity

With a 400 x 400 x 400 mm build volume, and your choice of one 1000 W or four 400 W lasers, the EOS M 400 Series combines the highest productivity with reliable and repeatable DMLS part quality. Powered by an extensive portfolio of materials and processes, the EOS M 400 Series enables the development and production of a wide variety of applications. The EOS M 400 Series is easily integrated in your production – both from a part and data flow perspective. In addition, with the EOS Shared Modules you can easily expand your machine park as demand grows – from one to many systems in one or many facilities worldwide.

→ Repeatability of part quality needs a precise calibration of the lasers. This is ensured thanks to EOSYSTEM SmartCal, the only tool for automatic multi-laser calibration.

→ Filter change is a thing of the past with the new recirculating filter system RFS 2.0. The filters have an extremely long lifetime and do not need to be changed even when the material is changed. This reduces operating expenses significantly.

Exposure Module

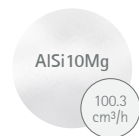
Laser power 1x 1kW 4x 400W The precise Yb fiber lasers with their fixed focus expose a square 400 x 400 mm area.

Materials & Processes

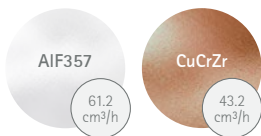
EOS materials are designed specifically for DMLS and are subject to extensive quality control. EOS processes are validated in order to ensure constant and repeatable part quality.

EOS M 400

EOS Aluminium

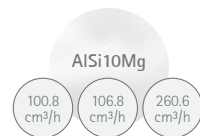


EOS CopperAlloy

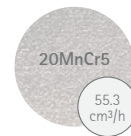


EOS M 400-4

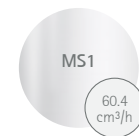
EOS Aluminium



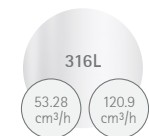
EOS CaseHardeningSteel



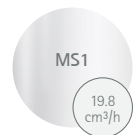
EOS MaragingSteel



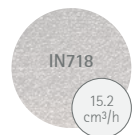
EOS StainlessSteel



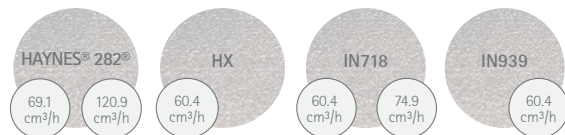
EOS MaragingSteel



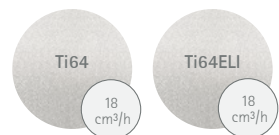
EOS NickelAlloy



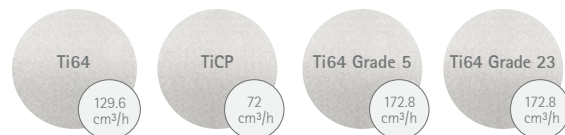
EOS NickelAlloy



EOS Titanium




EOS Titanium





EOSTATE Monitoring Suite

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 EOSTATE
Quality Reports
- 
 EOSTATE
MeltPool
- 
 EOSTATE
Exposure OT
- 
 EOSTATE
PowderBed

The automated and intelligent multi-monitoring suite for quality control and process development. EOSTATE offers insights into all of your production and quality relevant data in real time.

Software



EOSYSTEM
Intuitive industry proven machine software optimized for production.

EOSPRINT
Intuitive and easy job preparation and process development.

EOSCONNECT
Easy software integration into a production facility.

Powder Handling



IPCM M extra
Manual and flexible powder handling.



IPCM M pro
Semi-automated powder handling.



IPM M Powder Station L
Automatic closed loop powder handling.

EOS M 400 Series

Technical Data

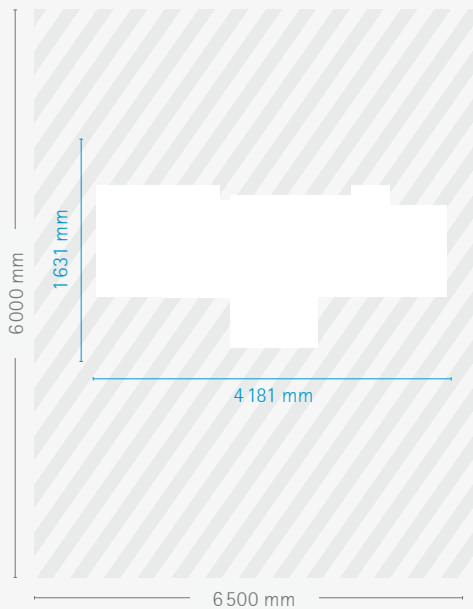
	EOS M 400	EOS M 400-4
Building Volume	400 x 400 x 400* mm (15.8 x 15.8 x 15.8 in*)	400 x 400 x 400* mm (15.8 x 15.8 x 15.8 in*)
Laser type	Yb fiber laser, 1000 W	Yb fiber laser, 4 x 400 W
F-theta lens	1	4
High-speed scanners	1	4
Scanning speed	up to 7.0 m/s (23 ft/s)	up to 7.0 m/s (23 ft/s)
Focus diameter	approx. 90 µm (0.0035 in)	approx. 100 µm (0.004 in)
Power supply	50 A	3 x 50 A
Power consumption	max. 50.2 kW / typical 16.22 kW	max. 45 kW / typical 22 kW
Inert gas supply	7 000 hPa; 15 m³/h (102 psi; 706 ft³/h)	7 000 hPa; 15 m³/h (102 psi; 706 ft³/h)

* height includes build plate

Dimensions & Weight

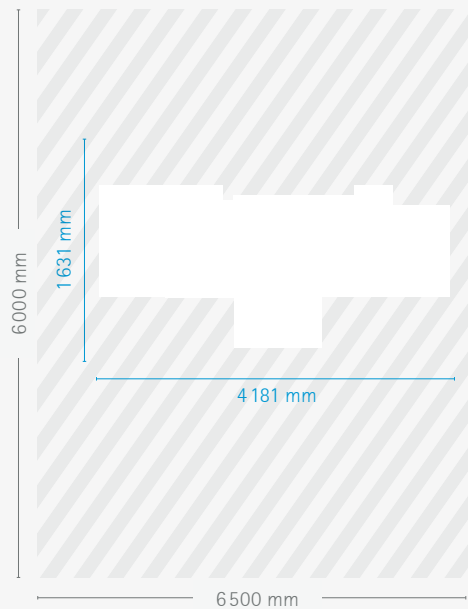
EOS M 400 with IPM M Setup Station L

Height: 2 340 mm / Weight: approx. 4 635 kg



EOS M 400-4 with IPM M Setup Station L

Height: 2 355 mm / Weight: approx. 4 835 kg



System

Workspace

Headquarters

EOS GmbH
Electro Optical Systems
Robert-Stirling-Ring 1
D-82152 Krailling/Munich
Germany
Phone +49 89 893 36-0
info@eos.info

www.eos.info

EOS

EOSGmbH

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#responsiblemanufacturing

#futureisadditive

Further Offices

EOS France
Phone +33 437 497 676

EOS Greater China
Phone +86 21 602 307 00

EOS India
Phone +91 443 964 8000

EOS Italy
Phone +39 023 340 1659

EOS Japan
Phone +81 45 670 0250

EOS Korea
Phone +82 2 6330 5800

EOS Nordic Et Baltic
Phone +46 31 760 4640

EOS North America
Phone +1 877 388 7916

EOS Singapore
Phone +65 6430 0463

EOS UK
Phone +44 1926 675 110

