



EOS M 300 Series Digital Additive Manufacturing for the Industrial Production of High-Quality Metal Parts

- reliable and repeatable quality
- up to 10x higher productivity
- easily integrated in production



EOS M 300 Series

Enables DMLS Quality with up to 10x Higher Productivity

Designed for industrial applications, the EOS M 300 Series offers multiple configuration options combined with safety and security features enabling digital Additive Manufacturing. The platform offers the flexibility to choose the degree of automation that best suits your needs for an optimized workflow as well as the option to easily ramp-up as demand increases.



Exposure Module

Number of Lasers



Laser Power



Laser Focus

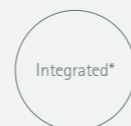


Up to four precise lasers expose in a 300 x 300 mm square with each laser covering the entire area.

Dispenser Modules

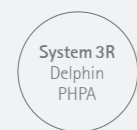


Flexible Dispenser
Offers fast and easy material change.



Integrated Dispenser
Automated feeding enabling closed loop powder supply.

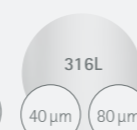
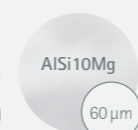
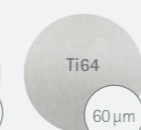
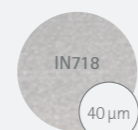
Clamping Modules



Select from 3 different models for easy integration to the post-processing equipment in your production facility.

Material & Process

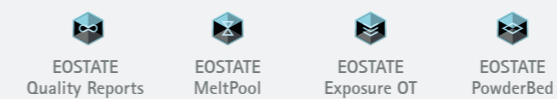
EOS NickelAlloy EOS MaragingSteel EOS Titanium EOS Aluminium EOS StainlessSteel



EOS Materials are designed specifically for DMLS and are quality controlled.

EOS Processes are validated ensuring consistent and repeatable part quality.

EOSTATE Monitoring Suite



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

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.

Part Handling



EOS Transfer Station M

IPM M Setup Station M

EOS Transfer Station M
Fast switch-over of the exchangeable frame.

IPM M Setup Station M
Comfortable gas-tight unpacking from two sides and under inert gas.

Unpack Module*
Automated unpacking and easy integration in the IPM M Setup Station M.

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.

● mandatory configuration *under development

EOS M 300-4

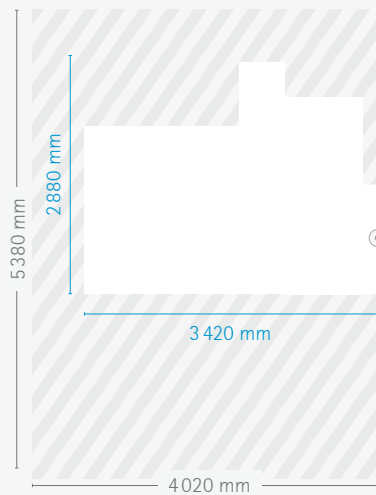
Technical Data

Building volume	300 x 300 x 400 mm (11.8 x 11.8 x 15.8 in)
Laser type	Yb-fiber 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/s)
Focus diameter	approx. 100 µm (0.004 in)
Power supply	3 x 80 A
Power consumption	max. 36 kW / typical 26 kW
Inert gas supply	7 000 hPa; 15 m ³ /h (102 psi; 530 ft ³ /h)

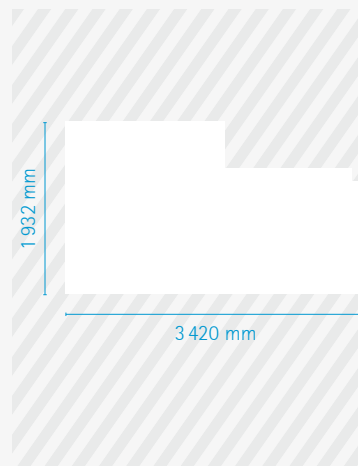
Dimensions & Weight

EOS M 300-4 with Flex Dispenser

Height: 2340 mm / Weight: ca. 6600 kg

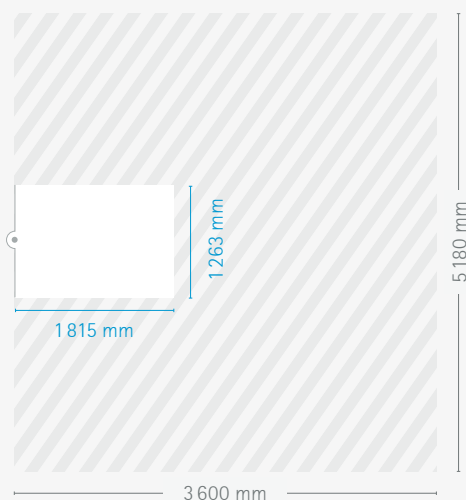


EOS M 300-4 with Integrated Dispenser*



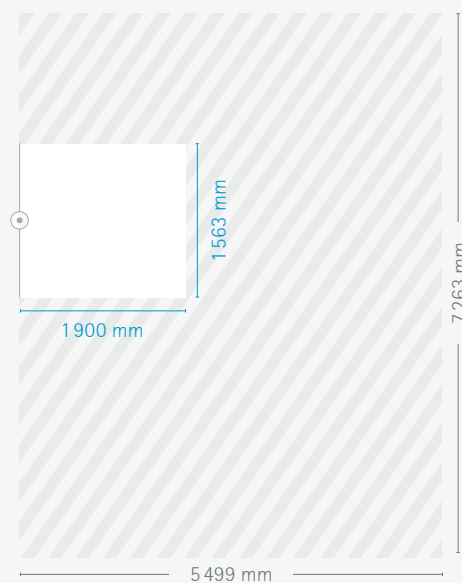
EOS Transfer Station M

Height: 1300 mm / Weight: ca. 1000 kg



IPM M Setup Station M*

Height: 2000 mm / Weight: ca. 1400 kg



System

Workspace

Interface

*in development

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