



EOS M 290 Simply Production of Metal Parts

- Boringly reliable and repeatable quality
- Largest installed base worldwide
- Most metal systems in production
- Over 24 Materials to choose from



EOS M 290

The Benchmark in Metal AM with proven DMLS® Quality

The EOS M 290, the fourth generation of the mid-size range, has been used in serial production of a wide range of applications since 2014. Its robust and reliable performance, building on the legacy of its three predecessors, ensures homogeneous part properties from part-to-part, job-to-job and machine-to-machine. The wide range of materials, a comprehensive monitoring suite plus the easy integration into your production make it the clear choice for flexible series production of metal parts.

Monitoring



EOSTATE
Quality Reports



EOSTATE
MeltPool



EOSTATE
Exposure OT



EOSTATE
PowderBed

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.

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.



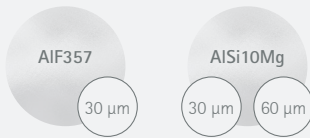
IPCM M pro
Semi-automated powder handling.



Comfort Powder Module
Safe handling of powder inside process chamber.

Material & Process

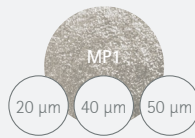
EOS Aluminium



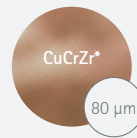
EOS Case HardeningSteel



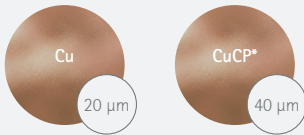
EOS CobaltChrome



EOS CopperAlloy



EOS Copper



EOS NickelAlloy



EOS StainlessSteel



EOS Titanium



EOS MaragingSteel



EOS ToolSteel



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

EOS Processes are validated ensuring consistent and repeatable part quality.

* for AMCM M 290 1kW

Exposure Module

Number of Lasers



Laser Power



Optics



Up to two precise lasers expose in a 250 x 250 mm square with different optics to choose from and Pulse Modulation enabled.

Recoater Options

Hard Recoaters

Offer repeatably quality



Soft Recoaters

Offer flexibility



● mandatory configuration *customized by AMCM GmbH ** Development tool

EOS M 290

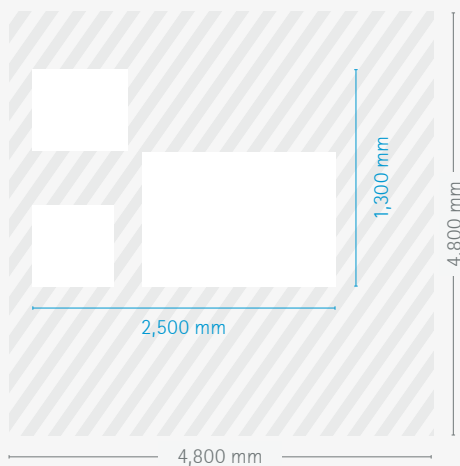
Technical Data

Building volume	250 x 250 x 325 mm (9.85 x 9.85 x 12.8 in) (height incl. build plate)
Laser type	Yb fibre laser; 400 W
Precision optics	F-theta lens; high-speed scanner
Scanning speed	up to 7.0 m/s (23 ft/s)
Focus diameter	100 µm (0.004 in)
Power supply	32 A / 400 V
Power consumption	max. 8,5 kW / average 2,4 kW / with platform heating up to 3,2 kW
Compressed air supply	7,000 hPa; 20 m ³ /h (102 psi; 706 ft ³ /h)

Dimensions & Weight

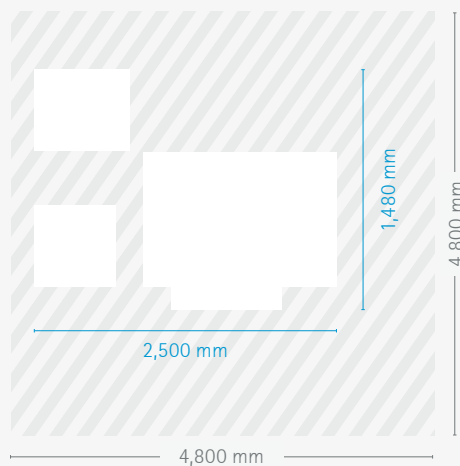
EOS M 290

Height: 2,190 mm / Weight: ca. 1,250 kg



EOS M 290 with Comfort Powder Module

Height: 2,190 mm / Weight: ca. 1,250 kg



System

Workspace

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#ResponsibleManufacturing

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