



## EOS M 290 Simply Production of Metal Parts

- Reliable and repeatable quality
- Largest installed base worldwide
- Most metal systems in production
- Over 24 materials to choose from



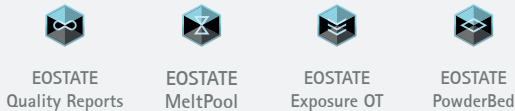
# EOS M 290

## The Benchmark in Metal AM with Proven DMLS® Quality

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

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### Monitoring



#### 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.

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### 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.

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### Powder Handling



**IPC M extra**  
Manual and flexible powder handling.



**IPC M pro**  
Semi-automated powder handling.

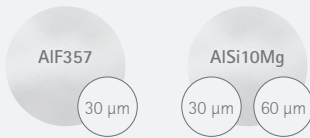


**Comfort Powder Module**  
Safe handling of powder inside process chamber.

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## Material & Process

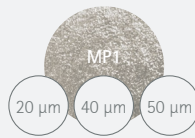
### EOS Aluminium



### EOS Case HardeningSteel



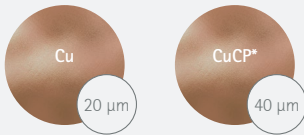
### EOS CobaltChrome



### 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

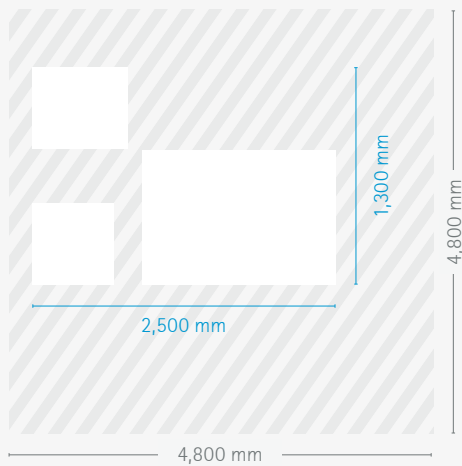
## Technical Data

|                       |   |
|-----------------------|---|
| Building volume       | 250 x 250 x 325 mm (9.85 x 9.85 x 12.8 in) (height incl. build plate) |
| Laser type            | Yb fiber 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 <sup>3</sup> /h (102 psi; 706 ft <sup>3</sup> /h)     |

## Dimensions & Weight

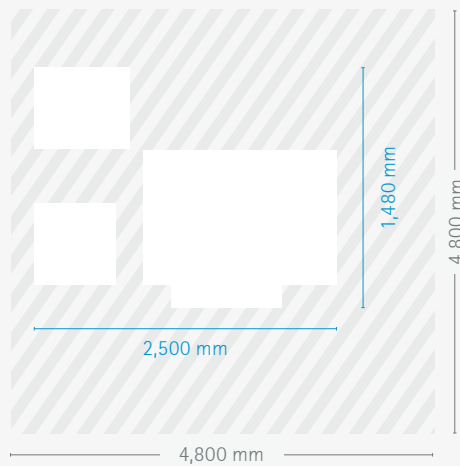
### EOS M 290

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



## Headquarters

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