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**
  - 1
  - 2
  - 3
  - 4
- **Exposure Module**
  - Up to four precise lasers expose in a 300 x 300mm 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
- **Easy transition to post-processing**
  - Select from 3 different models for easy integration to the post-processing equipment in your production facility.

### Material & Process
- **EOS Materials**
  - Designed specifically for DMLS and are quality controlled.
  - EOS Processes are validated ensuring consistent and repeatable part quality.

### Software
- **EOSYSTEM**
  - Intuitive industry proven machine software optimized for production.
- **EOSPRINT 2**
  - Intuitive and easy job preparation and process development.
- **EOSCONNECT**
  - Easy software integration into a production facility.

### Part Handling
- **IPCM M extra**
  - Manual and flexible powder handling.
- **IPCM M pro**
  - Semi-automated powder handling.
- **IPCM M Powder Station L**
  - Automatic closed loop powder handling.

### Powder Handling
- **AM Industry standard for real-time and post built quality assurance, creating valuable insights for application and process development.**

### System Monitoring
- **EOSSTATE Monitoring Suite**
  - System Monitoring
  - Material
  - Exposure OT
  - PowderBed

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

### EOS M Setup Station M
- **Comfortable gas-tight unpacking from two sides and under inert gas.**

### Unpack Module*
- **Automated unpacking integrable easily integrated in the IPM M Setup Station M.**

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*mandatory configuration  *under development
## EOS M 300-4

### Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building volume</td>
<td>300 x 300 x 400 mm (11.8 x 11.8 x 15.8 in)</td>
</tr>
<tr>
<td>Laser type</td>
<td>Yb-fiber laser; 4 x 400 W</td>
</tr>
<tr>
<td>Precision optics</td>
<td>4 F-theta-lenses; 4 high-speed scanners</td>
</tr>
<tr>
<td>Scanning speed</td>
<td>up to 7.0 m/s (23 ft./sec)</td>
</tr>
<tr>
<td>Focus diameter</td>
<td>approx. 100 µm (0.004 in)</td>
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<tr>
<td>Power supply</td>
<td>3 x 80 A</td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 36 kW / typical 26 kW</td>
</tr>
<tr>
<td>Inert gas supply</td>
<td>7,000 hPa; 15 m³/h (102 psi; 530 ft³/h)</td>
</tr>
</tbody>
</table>

### Dimensions & Weight

#### EOS M 300–4 with Flex Dispenser
- Height: 2,340 mm
- Weight: ca. 6,600 kg

#### EOS M 300–4 with Integrated Dispenser
- in development

#### EOS Transfer Station M
- Height: 1,300 mm
- Weight: ca. 1,000 kg

#### IPM M Setup Station M
- Height: 2,000 mm
- Weight: ca. 1,400 kg

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Status Q2/2019. Technical data subject to change without notice. EOS is certified according to ISO 9001.

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