



High-End System for the Fast and Efficient Production of Complex Metal Parts by Means of Additive Manufacturing



e-Manufacturing Solutions

# EOS M 100: Tried-and-Trusted EOS Quality at an Attractive Investment Volume

The size and modular design of the EOS M 100 make it ideal as an entry level model for Additive Manufacturing. In terms of process and component quality, it corresponds to the EOS M 290, the leading system on the market for Direct Metal Laser Sintering (DMLS).

## Reproducible component quality, simple and fast handling, high cost efficiency

- The beam quality and stable performance of the 200 watt fibre laser guarantee optimum, constant processing conditions for the production of high-quality components.
- The smaller laser spot with excellent detail resolution is ideal for manufacturing highly complex, sophisticated DMLS components.
- The building volume and efficient recoating and exposure strategy reduce secondary time, so that parts can be produced quickly and efficiently in small quantities.
- Thanks to the modular inner design and the powder supply bin, setup and shutdown only take minutes, changing material is straightforward and maintenance is done quickly.
- The peripheral devices are matched to the industrial manufacturing process and ensure minimum powder contact.

## Technical data EOS M 100

Building volume	Ø 100 mm x 95 mm (Ø 3.9 in x 3.7 in) height, incl. build platform
Laser type	Yb fibre laser; 200 W
Precision optics	F-theta lens; high-speed scanner
Scanning speed	up to 7.0 m/s (23 ft./sec)
Focus diameter	40 µm
Power supply	200 - 240 V
Power consumption	max. 1.7 kW
Inert gas supply	max. 4,000 hPa, 50 l/min

## Dimensions (W x D x H)

System	800 mm x 950 mm x 2250 mm (31 x 37 x 89 in)
Recommended installation space	min. 1.00 m x 3.00 m x 2.5 m (3 x 10 x 8 ft)
Weight	580 kg

## Software

EOSPRINT, EOS RP Tools, Cambridge or Magics RP and other modules

## Materials\*

EOS CobaltChrome SP2 (CE-certified, CE 0537), EOS StainlessSteel 316L, EOS Titanium Ti64\*\*

## Optional accessories

EOSTATE Laser, powder conveying and sieving module\*\*, wet separator, blasting cabinet

\* Further materials on request  
\*\* Currently under development

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