



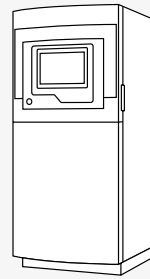
EOS M 100
Additive manufacturing system
for the fast and efficient production
of delicate metal parts



EOS M 100

Proven DMLS quality at an attractive investment

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 DMLS.



- 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.
- The EOS M 100 is ideally suited for applications such as dental crowns & bridges as well as anti-scatter grids for medical devices.

Technical Data EOS M 100

Building volume	Ø 100 x 95 mm (Ø 3.9 x 3.7 in) (height incl. build plate)
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 / average 0.60 kW
Inert gas supply	max. 4,000 hPa, 50 l/min
Inert gas consumption	for flooding: up to 600 l / during building: up to 2,5 l/min
Dimensions (W x D x H)	800 x 950 x 2.250 mm (31 x 37 x 89 in)
Recommended installation space	min. 1.00 x 3.00 x 2.5 m (3 x 10 x 8 ft)
Weight	580 kg

Software

EOSPRINT, EOS RP Tools, Cambridge or Materialise Magics Metal Package and modules

Materials*

EOS CobaltChrome SP2 (CE-certified, CE 0537), EOS StainlessSteel 316L, EOS Titanium Ti64, EOS Tungsten W1

* Further materials on request

Optional accessories

EOSTATE Laser, wet separator, blasting cabinet

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