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

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**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

max. 4,000 hPa, 50 l/min

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

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**Software**

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

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**Materials**

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

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**Optional accessories**

EOSSTATE Laser, wet separator, blasting cabinet