Mlab cusing 200R Metal laser melting system

The ideal machine for manufacturing metal components with elaborate structures, and parts made from reactive materials like titanium.
Ideally suited to fine detail, high quality surface finish, and precision component structures.
Equipped with a 200 watt laser.
**Mlab cusing 200R TECHNICAL DATA**

**Build envelope**
- 100 x 100 x 100 mm³ (x, y, z)
- 70 x 70 x 80 mm³ (x, y, z)
- 50 x 50 x 80 mm³ (x, y, z)

**Layer thickness**
- 15 – 30 µm

**Production speed**
- 1 – 9 cm³/h (depending on material)

**Laser system**
- Fibre laser 200 W (cw)

**Max. scanning speed**
- 7 m/s

**Focus diameter**
- approx. 75 µm

**Fixation of the building plate**
- pneumatic non-twisting clamping system

**Connected loads**
- Power consumption max. 1.5 kW
- Power supply 1/N/PE AC 230 V, 16 A

**Inert gas supply**
- 1 gas connection provided / Nitrogen or Argon

**Inert gas consumption**
- approx. 0.6 – 0.8 l/min*

**Filter system**
- integrated

**Dimension machine**
- 820 x 1839 x 1410 mm (W x H x D)

**Dimension handling station**
- 729 x 1392 x 628 mm (W x H x D)

**Weight machine**
- approx. 700 kg

**Weight handling station**
- approx. 100 kg

**Operating conditions**
- 15 – 30°C

**Materials**
- CL 20ES Stainless steel (316L/1.4404)
- CL 31AL Aluminium (AlSi10Mg)
- CL 41TI ELI Titanium alloy (TiAl6V4 ELI)
- CL 42TI Commercially Pure Titanium Grade 2
- CL 50WS Maraging steel (MS300/1.2709)
- CL 80CU Bronze
- CL 92PH Precipitation hardening stainless steel (17-4 PH)
- CL 100NB** Nickel based alloy (Alloy 718)
- remanium® star CL Cobalt-chromium alloy (Dentaurum)
- rematitan® CL Titanium alloy (Dentaurum)

*Inert gas consumption during the building process with N₂.
**The material is currently being prepared. Other materials on request.