M2 cusing Multilaser  Metal laser melting system

Machine technology for safe processing of aluminum and titanium alloys.

Standard design available in grey, optional in white.
M2 cusing Multilaser TECHNICAL DATA

Build envelope LaserCUSING®
250 x 250 x 280 mm³ (x, y, z)

Layer thickness LaserCUSING®
20 – 80 μm

Production speed LaserCUSING®
2 – 35 cm³/h (depending on material / laser power)
2 x 200 W (cw), optional 2 x 400 W (cw)

Laser system
7 m/s, 4.5 m/s for variable focus move

Focus diameter
50 μm, optional variable focus move (50 μm – 500 μm)

Reference clamping system (optional)
EROWA, System 3R / others on request

Connected loads
Max. power consumption 7.4 kW
Power supply 3/N/PE AC 400 V, 32 A, compressed air 5 bar
2 gas connections provided
N₂ generator external (optional)

Inert gas supply
< 1 m³/h

Inert gas consumption
integrated, with a 20 m² filter surface

Filtering system
2542 x 1818 x 1987 mm³ (W x D x H)

Dimensions
approx. 2.400 kg

Weight
15 – 35°C

Operating conditions

LaserCUSING® materials
- CL 20ES: Stainless steel (1.4404)
- CL 31AL: Aluminium alloy (AlSi10Mg)
- CL 41Ti ELI: Titanium alloy (TiAl64V ELI)
- CL 42Ti: Pure titanium Grade 2
- CL 50WS: Hot-work steel (1.2709)
- CL 91RW: Stainless hot-work steel
- CL 92RW: Precipitation hardening stainless steel (17-4 PH)
- CL 100NB: Nickel-based alloy (Alloy 718)
- CL 101NB: Nickel-based alloy (Alloy 625)
- CL 110CoCr*: Cobalt-chromium alloy (F75)*
- remanium® star CL: Cobalt-chromium alloy (by Dentaurum)
- rematitan® CL: Titanium alloy (by Dentaurum)

*The material is currently being prepared. Other materials on request.