

CONCEPTLASER

a GE Additive company

M1 cusing Metal laser melting system

The ideal machine for newcomers to the LaserCUSING® technology.



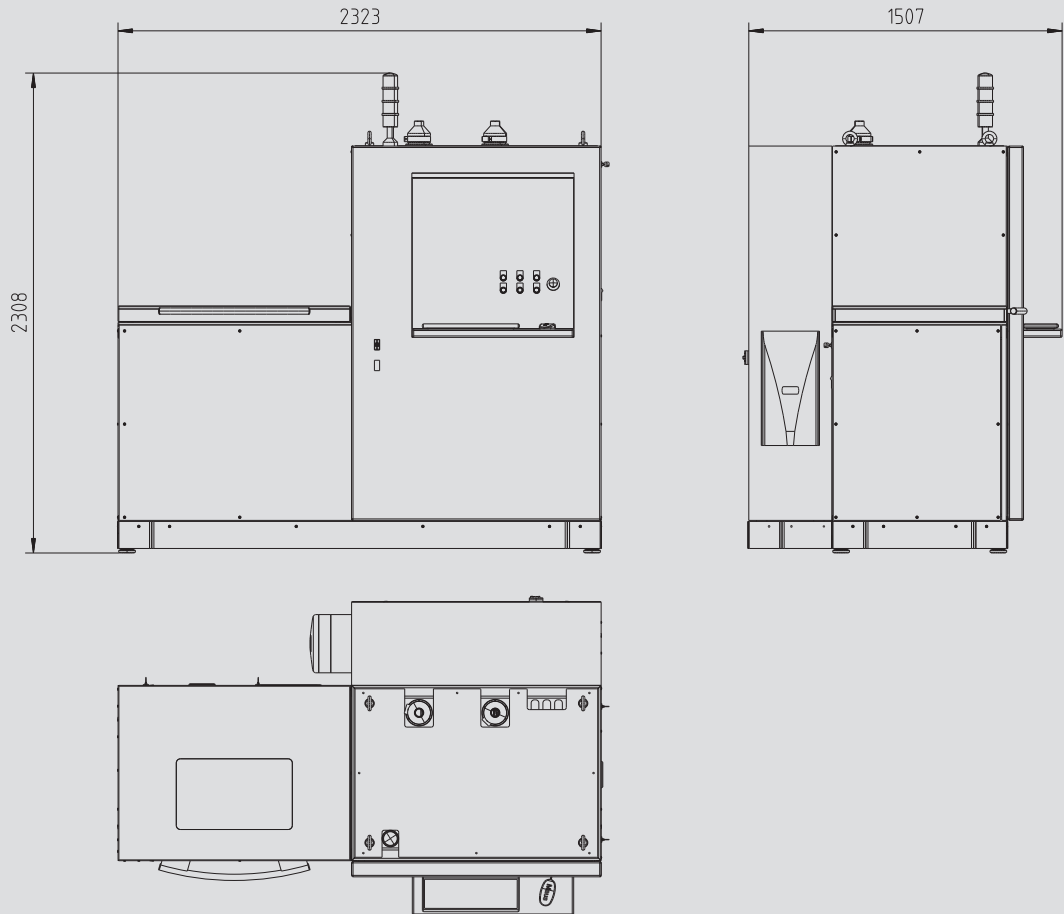
Standard design available in grey, optional in white.



M1 cusing TECHNICAL DATA

Build envelope LaserCUSING®	250 x 250 x 250 mm (x, y, z)	
Layer thickness LaserCUSING®	20 - 80 µm	
Production speed LaserCUSING®	2 - 15 cm³/h (depending on material / laser power)	
Laser system	Fibre laser 200 W (cw), optional 400 W (cw)	
Max. scanning speed	7 m/s	
Focus diameter	50 µm	
Reference clamping system (optional)	EROWA, System 3R / others on request	
Connected loads	Power consumption max. 5.5 kW (200 W) / max. 6.8 kW (400 W) Power supply 3/N/PE AC 400 V, 32 A Compressed air 5 bar	
Inert gas supply	1 gas connection provided N ₂ generator external (optional)	
Inert gas consumption	< 1 m³/h	
Dimensions	2323 x 1507 x 2308 mm (W x D x H)	
Weight	approx. 1500 kg	
Operating conditions	15 - 35°C	
LaserCUSING® materials	CL 20ES	Stainless steel (1.4404)
	CL 50WS	Hot-work steel (1.2709)
	CL 91RW	Stainless hot-work steel
	CL 92PH	Precipitation hardening stainless steel (17-4 PH)
	CL 110CoCr*	Cobalt-chromium alloy (F75)*
	CL 100NB	Nickel-based alloy (Alloy 718)
	remanium® star CL	Cobalt-chromium alloy (by Dentaureum)

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



Concept Laser GmbH
 An der Zeil 8
 D 96215 Lichtenfels

T: +49 (0) 95 71. 1679 200
 F: +49 (0) 95 71. 1679 299
 info@concept-laser.de

