

CONCEPTLASER

a GE Additive company

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.



Standard design available in gray, optional in white.



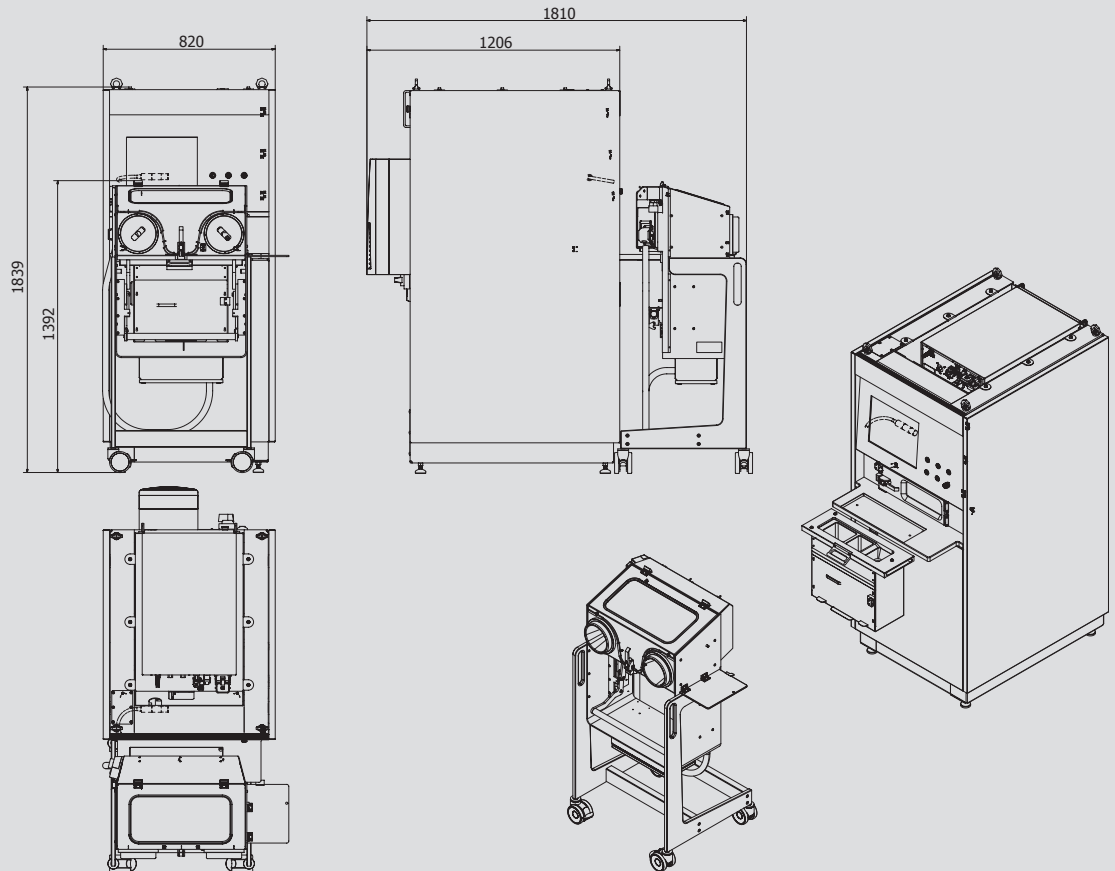
Mlab cusing 200R TECHNICAL DATA

Build envelope LaserCUSING®	100 x 100 x 100 mm ³ (x, y, z) 70 x 70 x 80 mm ³ (x, y, z) 50 x 50 x 80 mm ³ (x, y, z)																
Layer thickness LaserCUSING®	15 – 30 µm																
Production speed LaserCUSING®	1 – 5 cm ³ /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, optional 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																
LaserCUSING® materials	<table border="0"> <tr> <td>remanium® star CL</td> <td>Cobalt-chromium alloy (Dentaurum)</td> </tr> <tr> <td>rematitan® CL**</td> <td>Titanium alloy (Dentaurum)</td> </tr> <tr> <td>CL 20ES**</td> <td>Stainless steel (1.4404)</td> </tr> <tr> <td>CL 31AL**</td> <td>Aluminium (AlSi10Mg)</td> </tr> <tr> <td>CL 41TI ELI**</td> <td>Titanium alloy (TiAl6V4 ELI)</td> </tr> <tr> <td>CL 42TI**</td> <td>Commercially Pure Titanium Grade 2</td> </tr> <tr> <td>CL 80CU**</td> <td>Bronze</td> </tr> <tr> <td>CL 92PH**</td> <td>Precipitation hardening stainless steel (17-4 PH)</td> </tr> </table>	remanium® star CL	Cobalt-chromium alloy (Dentaurum)	rematitan® CL**	Titanium alloy (Dentaurum)	CL 20ES**	Stainless steel (1.4404)	CL 31AL**	Aluminium (AlSi10Mg)	CL 41TI ELI**	Titanium alloy (TiAl6V4 ELI)	CL 42TI**	Commercially Pure Titanium Grade 2	CL 80CU**	Bronze	CL 92PH**	Precipitation hardening stainless steel (17-4 PH)
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* Inert gas consumption during the building process with N₂.

** The material is currently being prepared.

Other materials on request.



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