

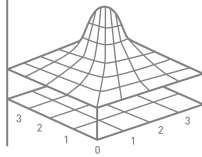
SLM[®]280^{HL}

Selective LaserMelting System



The optimal approach for metal part production and prototypes
Flexible, safe und efficient. Up to 80% higher volume build-up rate

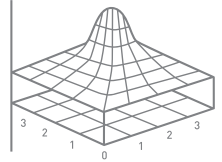
SLM
SOLUTIONS



The Selective Laser Melting System®280^{HL} provides a 280 x 280 x 360 mm³ build envelope with unique double laser beam technology. The SLM®280^{HL} is equipped with two fiber laser (400 W+1000 W or the optional twin-optics 2x400 W). Depending on the arrangement of the components the system is up to 80% higher volume construction rate per unit of time.

SLM®280^{HL}





SLM®280^{HL}



The Selective Laser Melting System SLM®280^{HL} provides a 280 x 280 x 360 mm³ build envelope with unique double laser beam technology. The (laser) beam profile has been improved. The constructive solution of the soft coating lips (silicone lips) enables delicate structures and component quality reaches a much higher quality. The field-proven, advanced software supports the production-oriented data processing for individual applications and optimized construction processes.



The complete process will be performed in an inert-gas atmosphere. The patented internal recirculation of inert gas at laminar flow also provides for safe and efficient gas consumption. The SLM®280^{HL} convinced with a patented bi-directional loader in a permanent production use with optimum process conditions for maximum and constant construction quality.



The open control concept enables the user to customize and supply individual construction processes. Furthermore, individual developments on the SLM®280^{HL} can be transferred for the production to other machines of the series SLM®280^{HL} and SLM®500^{HL}.

System parameters

Build Envelope Volume in mm (x/y/z)	280 x 280 x 360
Laser power	400/1000 W or 2x 400 W Yb-Fiber-Laser
Build speed	20 ccm/h / 45 ccm/h
Pract. Layer Thickness	20 µm - 75 µm / 100 µm
Min. Scan Line / Wall Thickness	150 µm / 1000 µm
Operational Beam Focus	80 - 120 µm / 700 µm
Scan speed	15 m/s
Inert Gas Consumption in Operation	Ar/N ₂ , 2,5 l/min - 3,0 l/min
Inert Gas Consumption Venting	Ar/N ₂ , 1700 l @ 100 l/min.
Compressed Air Requirement	ISO 8573-1, 18 l/min. @ 1.5 bar
Dimensions in mm (B x H x T)	1800 x 1900 (2400) x 1020
Weight	approx. 1000 kg
E-Connection / Consumption	400 Volt 3NPE, 32 A, 50/60 Hz, 8 KW

Subject to technical changes



Metal powders

Please request our separate powder brochure

