

## SLM<sup>®</sup>280<sup>HL</sup>



Ideal for medium to high volume metal part production and prototypes, the next generation Selective Laser Melting System SLM<sup>®</sup> 280HL provides a 280 x 280 x 350 mm build envelope with an improved laser beam profile. Likewise, the newly integrated SLM Build Processor and open software architecture offers the freedom of controlling system parameters to optimize and meet strict production needs.



The complete process is performed in a closed-loop powder handling and inert gas atmosphere. The patented internal recirculation of gas at laminar flow also ensures efficient and safe consumption. A high-efficiency filter system enables a complete filter change under safe and stable conditions. The filter housing unit is also reusable and can be set-up with recyclable filter cartridges that help to reduce your overall operational costs.



Achieve greater component quality for complex, delicate, yet fast part builds. Individual developments on the SLM 280 HL can be transferred for the production of other machines in SLM series, such as the SLM<sup>®</sup>500HL.



**Metal powders**  
Please request our separate powder brochure

### System parameters

Build Envelope Volume in mm (x/y/z)	280 x 280 x 350
Laser Power	400/1000 W or 2x 400 W Yb-Fiber-Laser
Build Speed	20 - 45 ccm/h
Pract. Layer Thickness	20 - 75 µm / 100 µm
Min. Scan Line / Wall Thickness	150 / 1000 µm
Operational Beam Focus	80 - 120 / 700 µm
Scan Speed	15 m/s
Inert Gas Consumption in Operation	Ar/N <sub>2</sub> , 2.5 - 3.0 L/min
Inert Gas Consumption Venting	Ar/N <sub>2</sub> , 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

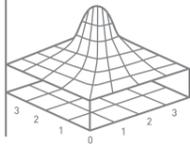


## SLM<sup>®</sup>280<sup>HL</sup> Selective LaserMelting<sup>®</sup> System



**Gain fast build speed and flexibility while lowering operating cost**  
Ideal for medium to high volume metal part prototypes and production

**SLM**  
SOLUTIONS



**COST-EFFICIENT FOR PRODUCTION. UNIQUE OPTIONS FOR FAST RESULTS.**

With its patented bi-directional loader movement, the Selective Laser Melting® System **SLM®280HL** is 30% faster than the competition. Additionally, you can achieve up to 2x faster build speeds with the option to add unique twin laser beam technology. Cut your operational cost with the system's safe internal gas recirculation at a laminar flow and closed-loop powder handling system.

The SLM 280HL is equipped with a 400W fiber laser with options to add a 1000W or twin-optics (2x 400W).

**SLM®280HL**