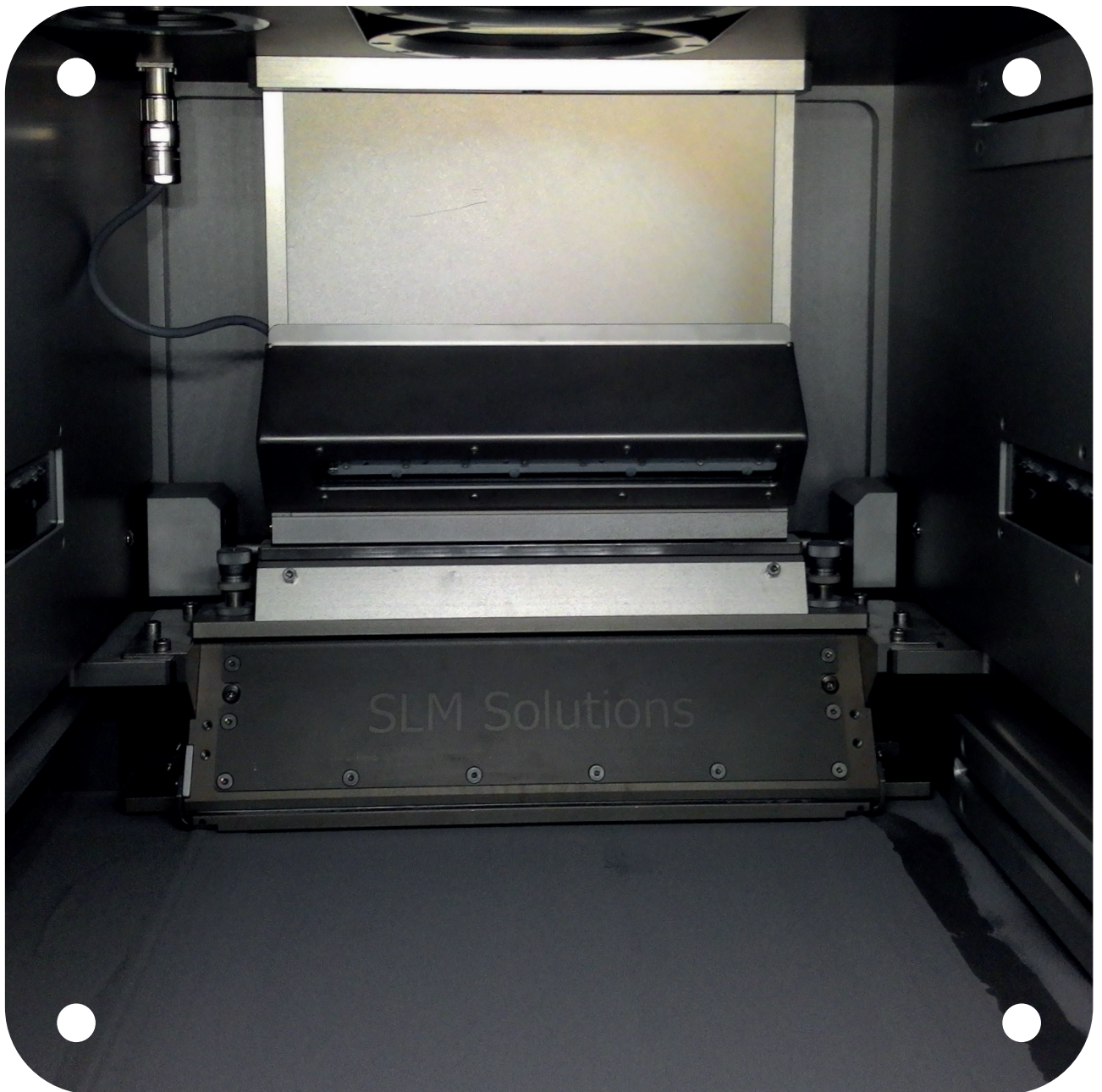


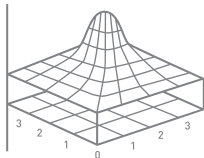
**SLM<sup>®</sup>280<sup>HL</sup>**

**Selective Laser Melting System**



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

**SLM**  
SOLUTIONS

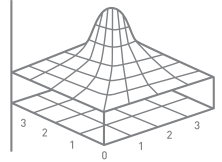


The Selective Laser Melting System SLM®280<sup>HL</sup> provides a 280 x 280 x 365 mm<sup>3</sup> build envelope and a patented multi-beam technology. The SLM®280<sup>HL</sup> is equipped with one or two fiber lasers with 3D scanning optics. The system is available in three models, providing single optics (1x 400 W), dual optics (1x 400 W and 1x 1000 W) and twin optics (2x 400 W). Depending on how the components are arranged, a 80% higher build rate per time unit can be achieved.

SLM®280<sup>HL</sup>







## SLM® 280<sup>HL</sup>



The Selective Laser Melting System SLM® 280<sup>HL</sup> provides a 280 x 280 x 365 mm<sup>3</sup> build envelope and a patented multi-beam technology. The (laser) beam profile has been further improved. The constructive solution of the recoater lip (available in polymer materials, as well as a ceramic blade) allows fine structures and achieves a significantly higher component quality. The field-proven, latest software supports a production-oriented data preparation for specific applications and highly optimized building processes.

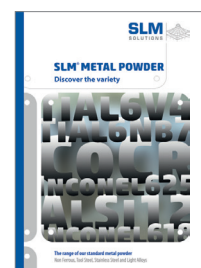
The whole process is carried out under an inert gas atmosphere. The reliable process gas filtration, and its double valve system, enable the highest degree of security. The efficient inert gas circulation during the safe and efficient operation leads to less gas consumption. The SLM® 280<sup>HL</sup> has a winning patented bi-directional powder coating in permanent production with optimal processing conditions for the highest and most constant construction qualities.

The open system provides a lot of opportunities to operate the machine in-house with specific parameters depending on current needs. Furthermore, individual developments on the SLM® 280<sup>HL</sup> can be transferred to other machines in the SLM® 280<sup>HL</sup> and SLM® 500<sup>HL</sup> series, for instance for production.

### Technical Specifications

Build Envelope (L x W x H)	280 x 280 x 365 mm <sup>3</sup> reduced by substrate plate thickness
3D Optics Configuration	Single (1x 400 W), Twin (2x 400 W), Dual (1x 400 W und 1x 1000 W); Single (1x 700 W), Twin (2x 700 W), Dual (1x 700 W und 1x 1000 W) IPG fiber laser
Dual Configuration: with switching unit	
Build Rate	up to 55 cm <sup>3</sup> /h
Variable Layer Thickness	20 µm - 75 µm
Min. Feature Size	150 µm
Beam Focus Diameter	80 - 115 µm
Max. Scan Speed	10 m/s
Average Inert Gas Consumption in Process	2,5 l/min (argon)
Average Inert Gas Consumption Purging	70 l/min (argon)
E-Connection / Power Input	400 Volt 3NPE, 32 A, 50/60 Hz, 3,5 - 5,5 kW
Compressed Air Requirement / Consumption	ISO 8573-1:2010 [1:4:1], 50 l/min @ 6 bar
Dimensions (L x W x H)	3050 mm x 1050 mm x 2850 mm (incl. PSH100)
Weight (incl. / without powder)	approx. 1500 kg / ca. 1300 kg

System configuration for all types of metal powders /  
Technical changes reserved



### Metal powder

Please ask for our metal powder brochure

