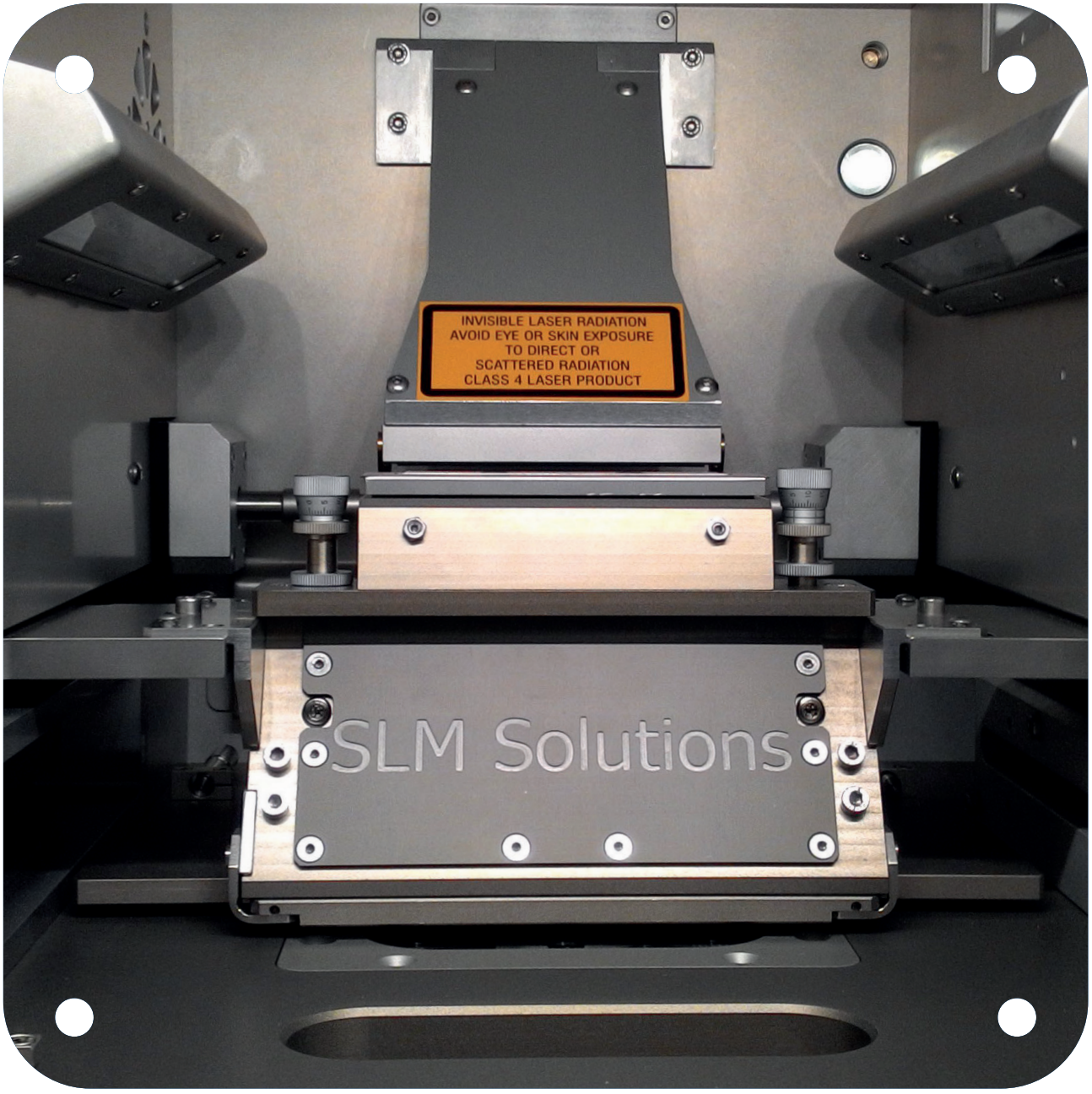
SLM SOLUTIONS

SLM®125HL

Selective Laser Melting System



Accurate, compact and highly performant options for fast results

For production of highly complex components in research and development

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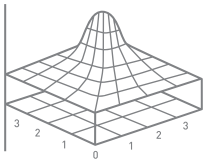

The Selective Laser Melting System SLM®125^{HL} offers a build envelope of 125 x 125 x 125 mm^3. The extremely economical system with its compact dimensions has been designed for quick results in the research and development sector, as well as for the production of smaller components. In addition, the SLM®125^{HL} provides a build volume reduction of 50 x 50 x 50 mm^3 thus decreasing the amount of powder by 80%.

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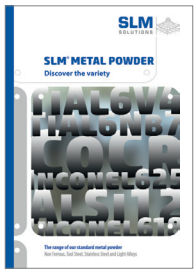
The Selective Laser Melting System SLM®125HL produces high-quality metal components using 3D-CAD data. The precise and economical system is a winning solution, suitable for small lot, as well as in the field of research and development.

The highest build rates in this class are achieved thanks to the patented bi-directional coating. The system concept is impressive thanks to its patented process gas filtration and its safety. The efficient inert gas circulation as well as the laminar flow provide for an reduced gas consumption.

The SLM®125HL is available with an optional software for reading CAD/STL data or slice data for configuring the process-specific and component-specific parameters. The open operation concept enables the construction processes to be carried out individually and customized manually. Stainless steel, tool steel, cobalt-chrome, inconel, aluminium or titan can be processed. Thanks to the machine's compact design, with few powder-transporting components, materials can be changed quickly and easily. With a variety of options and expansion possibilities, the system can be adapted to individual customer requirements.



Metal powder
Please ask for our metal powder brochure

Technical Specifications

Build Envelope (L x W x H)	125 x 125 x 125 mm³ reduced by substrate plate thickness
3D Optics Configuration	Single (1x 400 W) IPG fiber laser
Build Rate	up to 25 cm³/h
Variable Layer Thickness	20 µm - 75 µm, 1 µm increments
Min. Feature Size	140 µm
Beam Focus Diameter	70 µm - 100 µm
Max. Scan Speed	10 m/s
Average Inert Gas Consumption in Process	2 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 kW
Compressed Air Requirement / Consumption	ISO 8573-1:2010 [1:4:1], 50 l/min @ 6 bar
Dimensions (L x W x H)	1400 mm x 900 mm x 2460 mm
Weight (incl. / without powder)	approx. 750 kg / ca. 700 kg

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

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