

Selective Laser Melting Plant

Plant of NRW Central Laboratory for Battery Technology

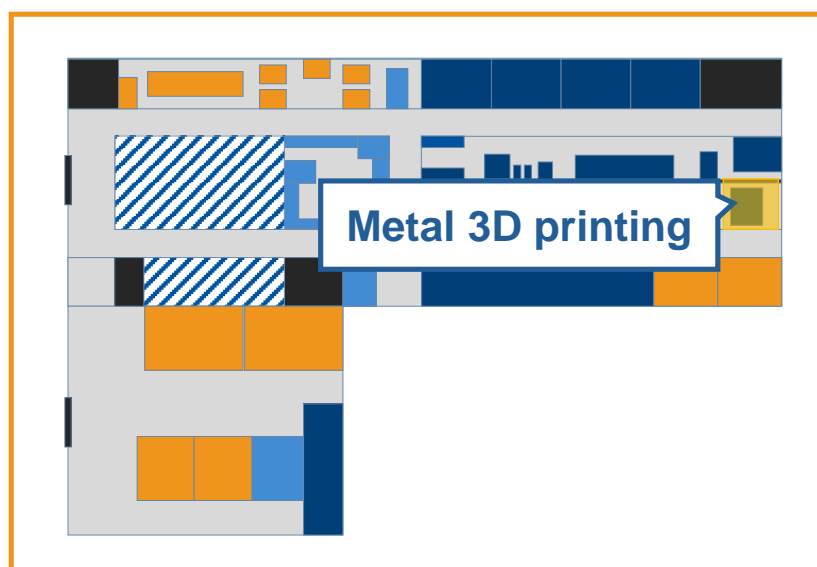


Costs:

Hourly rate:
32,23 €

Daily rate:
773,59 €

Technical specifications



Selective Laser Melting System SLM® 280HL

- The system provides an installation space of 280 x 280 x 365 mm³ and a patented multi-jet technology.
- The design solution of the soft coating lips (available in polymer materials, as well as a ceramic blade) enable filigree structures and achieve a significantly higher quality of the component.
- The tried-and-tested, further developed software supports production-oriented data preparation for optimised construction processes and individual applications.

Technical specifications

Installation space (L x B x H)	280 x 280 x 360 mm ³ minus substrate plate height
Laser	single (1x 400 W)
Build-up rate	up to 45 cm ³ /h
Variable layer thickness	20 µm - 75 µm
Min. structure size	150 µm
Focus diameter	80 - 115 µm
Max. Scanning speed	10 m/s

Qualifications required for operation

- Introduction to the machine by the rental company
- Knowledge in the use of Materialise Magics

Fields of application

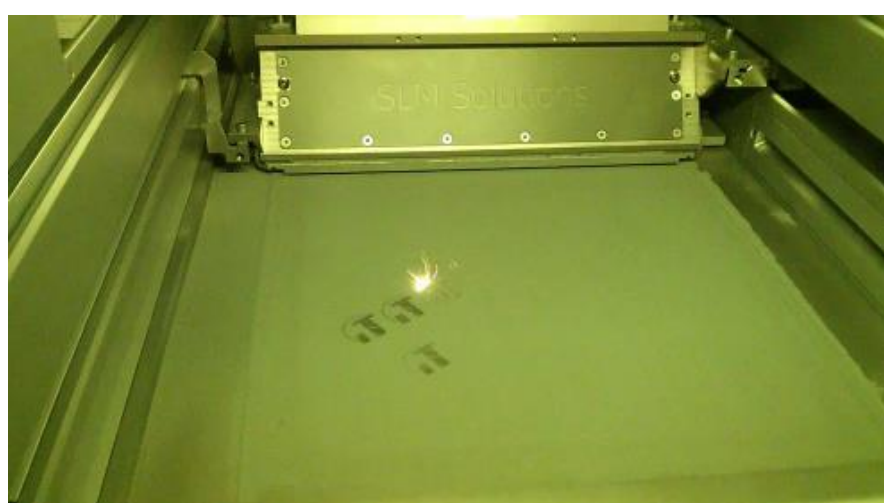
- Development of individual metallic structures e.g. integrated cooling structures
- Optimisation of the process according to various parameters (open system)
- Two different materials (AlSi10Mg and CrNi steels) available

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