

Rauschert Metal 3D printing

Powder Bed Fusion



- Hybrid manufacturing
- Cooling close to contour
- Active temperature control
- Reduction of back space

www.rauschert.com

Rauschert
Your Challenge.
Our Technology.

Benefits

- Active temperature control with several cooling circuits due to cooling channels close to contour
- Weight reduction of up to 50% through volume reduction in the interior
- Cost savings through hybrid components made of conventional and 3D-manufactured parts



Rauschert metal 3D printing for molding, tooling and engineering

In powder bed-based laser melting, components are built up from powdered metallic series materials in systems with an installation space size of 250x250x200 mm.

Thin layers of the powder material are applied to a base body and then fused to the desired contour using the laser. This results in near unlimited design possibilities in component production – including weight and volume reduction as well as cooling channels close to the contour. Furthermore, it is also possible to create more cost-effective hybrid components. In this way, customer-specific processes and industrial tasks in mold, tool and assembly construction can be designed more efficiently.

The laser control is based on 3D/CAD data, for example in the formats STEP, Solid Works, STL.

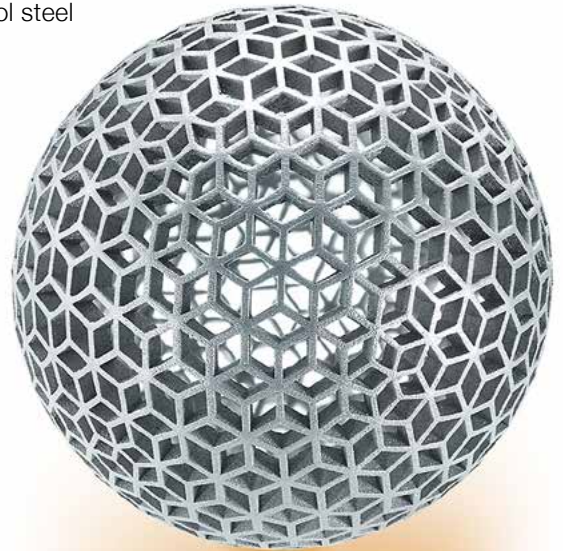
Rauschert Materials

Tool steel

- 1.2709 Cold and hot work tool steel

Stainless steel

- 1.4404 Stainless steel
- 1.4542 Stainless steel, sterilizable (17-4 PH®)



Contact

bkl / Additive Manufacturing –
a Rauschert Business Unit

Rauschert Kloster Veilsdorf GmbH
Industriestr. 1
98669 Veilsdorf
Germany

Phone +49 3685 685-0

E-mail info@rkv.rauschert.de

www.rauschert.com

Rauschert
Your Challenge.
Our Technology.