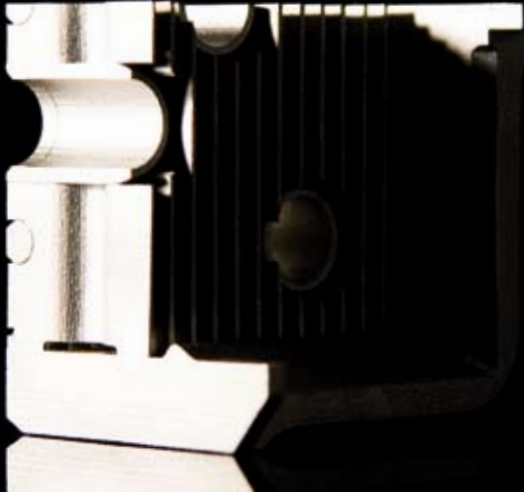


Lasercusing

Layer by layer



We produce for you metal parts made from stainless steel as well as mould inserts with near-surface cooling in heat resistant steel. Lasercusing is a layer construction method which constructs metallic components on the basis of 3D-CAD data, so to say, out of nothing.

As a pilot user, sauer product has been using Lasercusing for many years and today is working with machines of the second generation. With this method, the single component powder medium is completely smelted together. The minimum layer thickness is 0.030 mm.

The technological highlights include the realisation of near-surface cooling for the elimination of problem zones like gloss level formation or shrink marks in tool and mould making. Such improved tools lead to shorter cycle times and therefore to higher efficiency with injection moulding of plastic parts.

Tool inserts which are produced in this process have 100% impermeability and enable reworking with all conventional production processes like drilling, turning, milling, grinding and welding. In addition, combined components made from conventionally manufactured base plates and built on near surface areas using laser melting are possible and can

also be subsequently tempered. The manufacture of metallic prototypes using Lasercusing in the area of functional parts is an efficient alternative to the previously used conventional production processes of spark erosion and high speed milling HSC.

Benefits of layer construction process

- Mould inserts with near-surface cooling made from heat resistant steel or temperable stainless steel
- Functional parts made from stainless steel, heat resistant steel or cobalt chrome steel
- Reduced expenses for CAM programming
- Overnight manufacture of components is possible
- Components can be further processed or reworked with all traditional processes

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