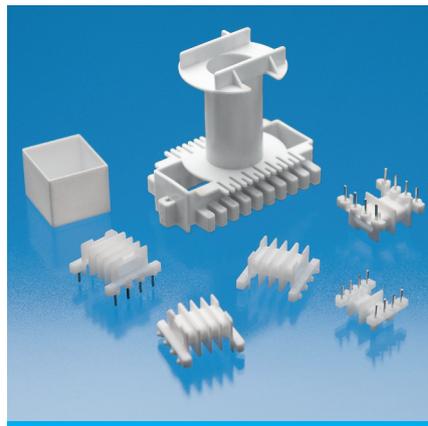


3D Printing Technology

3D printing technology provides various processes, depending on the area of application. The basis of all processes is a 3D CAD design to generate the geometric data for the printer.

Additive component production is very varied. To allow better differentiation, the production processes are splitted into 3 main groups:



Rapid Prototyping

Production of prototypes for product development

Rapid Tooling

Production of tool components, e.g. for injection moulding tools

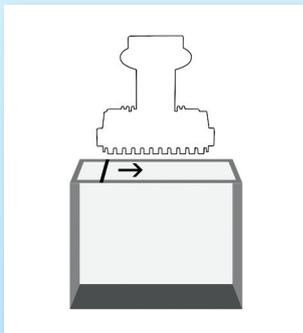
Rapid Manufacturing

Production of series parts

Selective laser sintering (SLS or SLS-FDR) is the production process currently used by NORWE, as this technology is ideal for prototypes and small series (rapid manufacturing). The powdered material is applied in layers and melted or sintered using a laser.

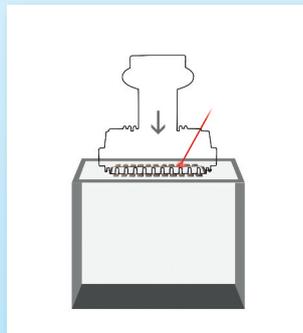
Selective laser sintering at NORWE

There are several advantages to using SLS for producing components for coilformers and boxes. The design is very accurate in every detail and various materials and colours are available. The SLS process produces components, which can be used directly without additional expenditure during printing, such as support structures. Care must however be taken to ensure that the designs are optimized for easy printing with a 3D printer in order to compensate height tolerances, for example.



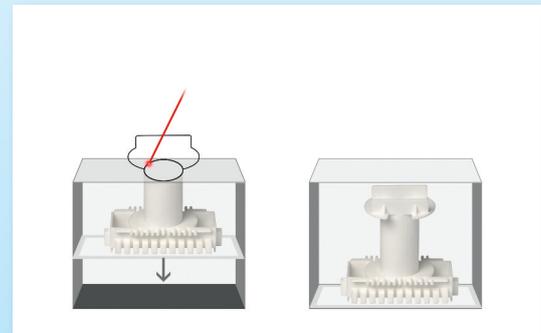
Step 1

Application of a thin powder layer, e.g. of polyamide 12 or polyamide 11 plastic.



Step 2

Melting the powder across the component cross section using a laser.



Step 3

The component descends step by step. During descent, additional layers of powder are applied until the component is complete.

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All dimensions in mm/inch

The permissible deviations according to DIN 16901 apply as tolerances

Warranties:

refer to Terms and Conditions of Sale

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