

How art is created from a 3D printer - An evolution of creations

Sindelfingen, Baden-Wurttemberg Feb 4, 2022 ([IssueWire.com](https://www.issuewire.com)) - Art is pure creativity and comes in many forms. As a 3D printing service provider, we are following with great interest that artists have discovered the freedom of additive manufacturing for themselves. Therefore, more and more modern art and design objects from the 3D printer are appearing in exhibitions and galleries, which surprise and fascinate the viewer with the apparent impossibility of their imagery and design language. In September, we received a rather unusual request for a 3D-printed artificial component. While the focus is usually on functional parts and prototypes, artist Christopher Hopp had a completely different idea. A sculpture should be made from a 3D printer. Christopher Hopp, born in 1984, comes from graffiti and street art, whose influence is mainly reflected in the choice of his color palette. They are bold, dynamic colors that he brings to the canvas with a keen sense of aesthetic expressiveness. In his pictures, colors combine and interpenetrate in a fascinating and harmoniously balanced interplay of great luminosity. (<https://blackgallery.art/christopher-hopp.html>)

Bright Testing GmbH usually focuses on the areas of testing technology, assembly technology, and electronics. AM Pioneers GmbH was founded as a subsidiary in order to also be able to cover the area of additive manufacturing. The business field of AM Pioneers extends to the sale of industrial 3D printing systems, engineering in the field of additive manufacturing, as well as the production of prototypes and small series. In addition to classic FDM printing and continuous fiber printing, Desktop Metal systems can now also be used to print industrial-quality stainless steel.

After receiving the order, a suitable CAD model had to be found, which forms the basis for each 3D-printed component. In order to be able to produce the model on common 3D printers, it must be prepared in a so-called slicer. This software creates a model that is built up layer by layer by the 3D printer.

Defining the optimal parameters for the printing process requires a certain amount of expertise. For example, the layer height, the nozzle temperature, and the printing speed must be defined. The alignment of the model during the printing process is at least as important for the quality of the component. In 3D printing, a compromise must always be found between component quality and printing speed. Accordingly, for the production of the sculpture, the focus during production was more on the surface quality than on the speed. After the component had been printed, minor rework had to be carried out, such as the removal of the supporting structures, the so-called support.

At this point, the component was handed over to the artist Christopher Hopp for further processing. In order to give the component the final touches, it had to be sandblasted and then painted. The finished sculpture was exhibited in the Blackgallery, the artist's platform. The overall result shows that 3D printing technology is also suitable for the production of visually appealing components.

We are the right partner to give shape to even the most unusual ideas. Together we transform your data model into reality. Try it out and request a non-binding offer.

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Media Contact

BRIGHT Testing

sebastian.dressel@bright-testing.de

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