



*Changing perceptions*

# Unique manufacturing process

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The patented process of Sandhelden enables them to meet any requests and requirements given. The 3D printing technology is not bound to conventional restrictions such as undercuts and quantities. The technology can bring sand into any shape possible. The resulting flexibility allows the production of unique products, which Sandhelden passes on to their customers.

The Sandhelden manufacturing process is divided into different steps. The first step deals with 3D modelling. Based on the customer's wishes, the design is adjusted and a printable 3D file is created.

As a next step, this file is used to initiate the 3D printing process. Sandhelden uses professional 3D industrial printers. In a layering process, the selected shape is printed layer by layer with high-precision nozzles in the highest quality.

The 3D printing technology used is called "Binder Jetting". Two grains of quartz sand are placed on top of each other. In order to keep the sand grains together, a binder is partially applied. Compared to other 3D printing technologies, this process completely avoids the use of high temperatures.

In the third step, the printed object is carefully removed from the printer. The object will then be cleaned with air pressure until no excess sand grain remains attached to the surface.

To offer a high-quality bathroom product, an additional coating of the surface is the last step in the production process. The in-house developed coating process for all bathroom products creates a durable, scratch-resistant surface that is resistant to chemical cleaning agents and has an excellent haptic and optical acknowledgment.

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The interior surface of the washbasins can be compared to mineral casting and acrylic. According to the same criteria as these materials, the products have been also tested by the TÜV concerning sanitary use in order to guarantee conformity to standards and high quality.

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