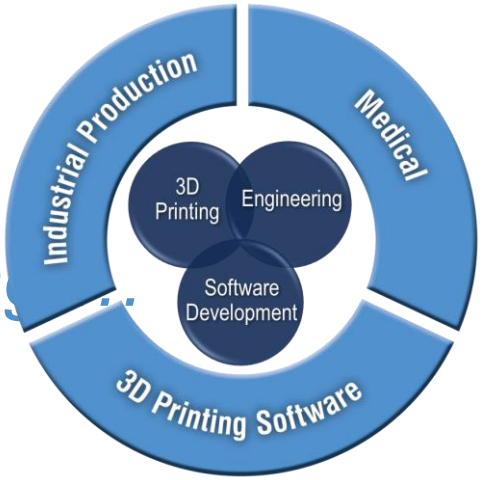
About Materialise

The Factory for 3D Printing...



- *Headquarterd in Leuven, Belgium*
- *Offices and production facilities all around the world*
- *25 years of experience in medical and industrial applications*
- *Europe's largest single-site 3D printing factory, running 100+ 3D printers*
- *Producing over 500.000 parts / year*
- *150.000 customized medical applications printed in 2013*

Phonak

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Changing The Hearing-Aid Industry with Phonak

Producing a hearing aid used to be a labor-intensive process that often required quite a lot of manual retouching before a comfortable fit could be achieved. Thanks to additive manufacturing, it was possible to put a new digitized and automated process in place, saving time, effort, and resulting in a more comfortable, acoustically optimized hearing aid that can now fit so deep in the ear that it is nearly invisible to the outside world.

Laerdal Medical

NewBorn Heart Rate Sensor: 3D Printing to Reduce Infant Mortality

Laerdal Medical co-created with Materialise to develop an easy-to-use, easy-to-manufacture NewBorn Heart Rate Sensor that helps medical staff see when the newborn needs medical attention. Laerdal wanted a monitor without any small gaps or holes. This makes it easier to sterilize and prevent bacteria from getting trapped inside the medical device.

Materialise's approach, by using 3D-printed masters for vacuum casting, allowed going from flexible prototype design to high-quality end parts in an optimum development process.

Nikon

Housings for Nikon handheld 3D scanners

When it comes to making complex shapes, additive manufacturing shines where conventional technologies get stuck. This allows Nikon Metrology to include more functionality into one single part, saving production cost and assembly time. Furthermore, it offers the flexibility to adapt the design to each technology change in no time and at no cost.

Materialise
innovators you can count on

Sonowand

A cocktail of technologies and expertise

Creo Development understands that good design fulfils a purpose - especially when that purpose is a high-end medical device used to save lives. That's why it was crucial for them to find the best manufacturing technologies to produce 50 units per year of SonoWand's new real-time brain scanner.

This project involved a number of different parts - top and monitor covers, probe holders, bumpers and pedals – that needed to be extremely durable given the fast-paced emergency environment. Materialise suggested a combination of technologies depending on the purpose, location and structural requirement of each part.

Materialise – cooperation

Research and development

Models of organs – with usage of special silicon i.e. model of aortas, kidney

Low volumen manufacturing of housing and special products used in special enviroment (medical proof, customised for patient)

Printing of Dissease catalog– 3D Printing of data from Computer Tomograph

Research cooperation i.e. automatical analysys of 3D data

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