



SH A P E

Your partner on the path
from idea to reality.



SHAPE was established in 1995 with the intent to be a frontrunner in utilizing modern digital software, and computer controlled machinery, to manufacture moulds and prototypes for our customers.

Over the years we have continued to be in the front of the technological advancements in our field, and our customers today can be found in a wider selection of professions than ever.

We are located in Ålesund in the western part of Norway, surrounded by fjords and mountains.



Customers

Our customers as of today can be found among:

- **Foundry** (3D-modelling and machining of moulds)
- **PU-Casting**. (Furniture, Offshore, etc) (Machining of moulds)
- **Plastics**. Vacuum Forming, Rotational Moulding, and some simple Injection Moulding
- Manufacturing of moulds for Composites/GRP.
- Product development and prototyping.

...and many more.

Services

- 3D-Modelling
- Reverse Engineering
- Machining
- Prototypes and Models
- Counselling regarding product development

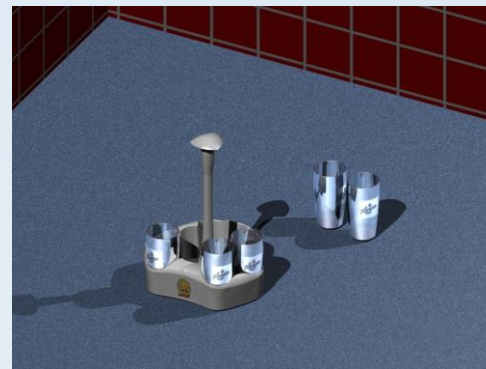
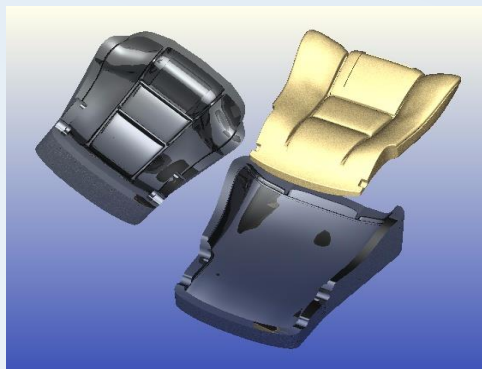
3D-Modelling

SHAPE is using CAD-software from Siemens NX and SolidWORKS to process models from all kinds of data.

Complex parts and surfaces are handled on a regular basis.

We can make renderings and animations based on the model.

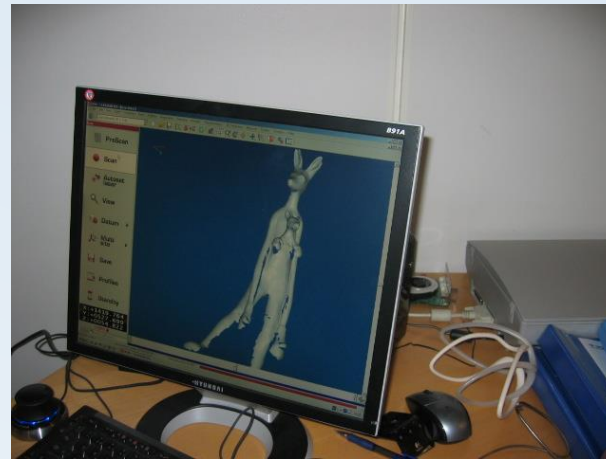
The most usual formats for import/export of data are Parasolid, STEP, SAT, IGES, DXF/DWG and STL. We can handle many more, but these are the most common.



Reverse Engineering

With our portable Laser Scanner, we can convert almost any physical part to a 3D-model. This raw-model can be used as-is, or converted into a "real" 3D-model, using the scanned data as reference.

Further treatment, and machining, can be done on both the "Raw" and the "Real" model.

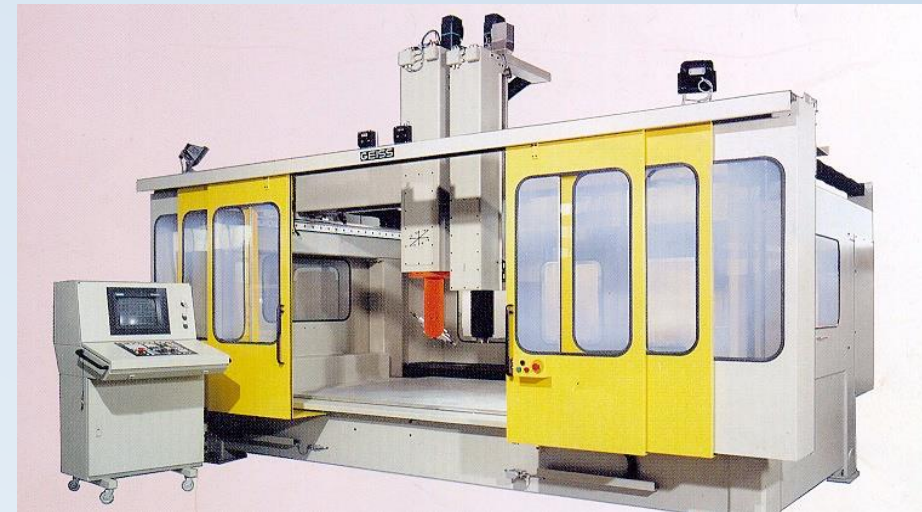


Machining

We have two CNC Milling machines, and are able to process workpieces up to 3000 x 1200 x 1000mm. Even larger parts can be made by combining several smaller parts. Materials from soft foam or EPS to steel can be used.



Fidia K211
5-axis machining with high accuracy
All materials
3000 x 1250 x 1000mm
42 tools

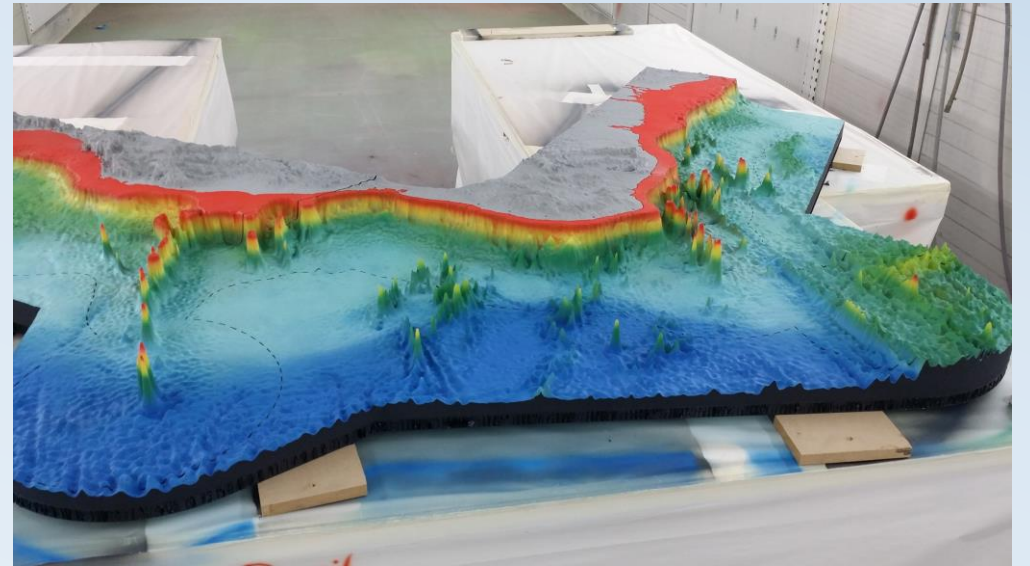


GEISS
3-axis machining.
Light materials (EPS, PU-boards)
2100 x 1350 x 700mm

Prototypes and Models

Using our milling machines we can make prototypes using all kinds of machineable materials.

Because the prototypes are made using the real material (as opposed to 3d-printing), they can be used for checking strength of the final part



Sample – Moulds for «Formula Student» car.

We have made several sets of moulds for the Formula Student cars made at NTNU. The moulds are used in a complex layup of Carbon-fibre with honeycomb core.



Sample – Injection moulds for snowshoes.

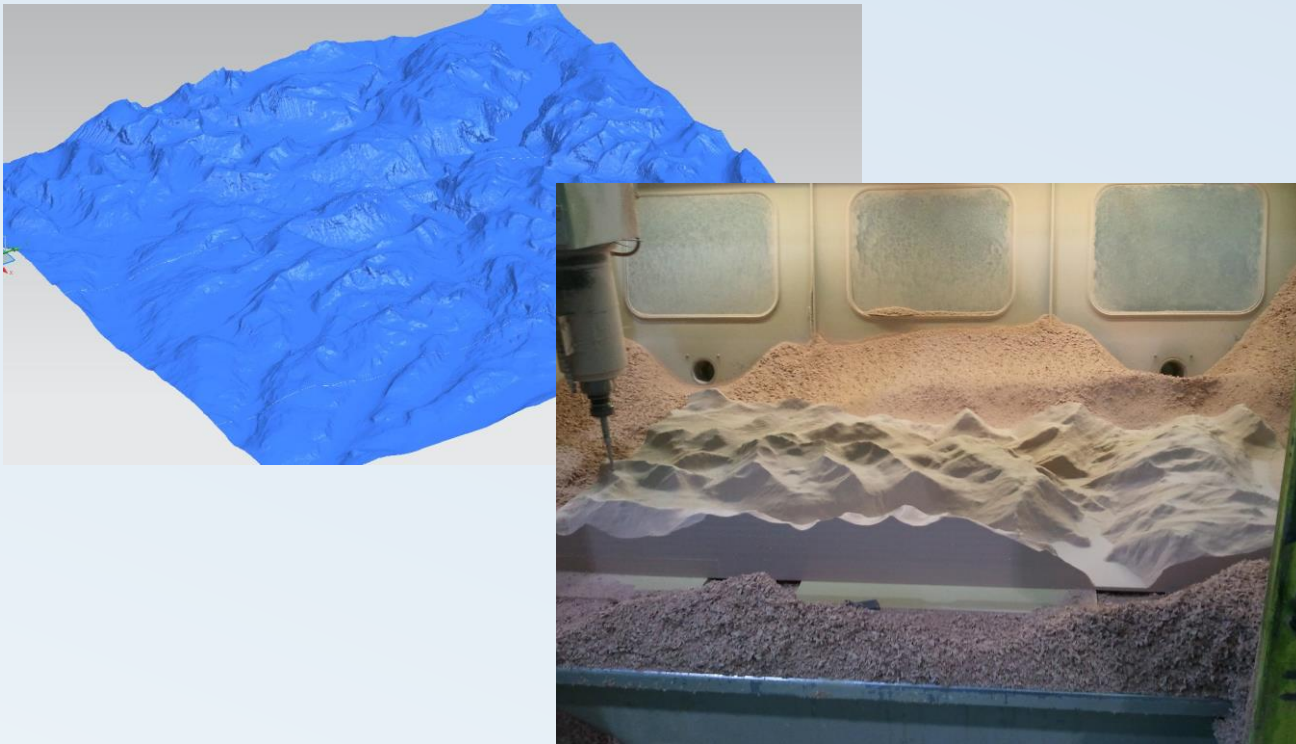
A set of injection moulds for making high-tech snowshoes.

Customer is SnowMotion.



Sample – Terrain model.

Using official terrain-data from the Norwegian government, we made a model of a mountainous area around Tafjord. The model is used by a power company for displaying how water is being led into the power stations.



Contact Information.

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