Our location

Address:
Katwijk, Nederland

Our passion worldwide:
Austria - Headquarters
Sweden
Nederland
Slovakia
France
Spain
Mexico
Alutech Nederlands B.V.
Turnover 60M€
240 Employees
5 days 3 shift

Start in 1916 (as van Reekum N.V.)
Registered in 1927 (as Slotboom)
general sheet metal production

Yesterday
European automotive tier-1 supplier of
aluminum, steel and stainless steel fuel
tanks to commercial vehicle industry
(trucks & buses)

Today

Tomorrow
European automotive tier-1 supplier of
aluminum, steel and stainless steel fuel
tanks to commercial vehicle industry
(trucks & buses)
Within the next 5 years Alutech Nederlands B.V. wants to be the leading organization in producing and supplying energy storage systems. This will be achieved by innovation of technical and logistics processes and by actively developing related markets, products and applications. All in a socially responsible manner and with healthy growth.

Alutech Nederlands B.V. wants to achieve this by means of a flexible organization with highly trained and motivated employees who are able to work in multidisciplinary teams with a proactive attitude towards customers, organization and suppliers.
Alutech Nederlands – Production Processes

- **Automated welding processes** dedicated for production of high volumes
- **Specials department** for small series, specials and prototypes
- **Typical steps** in the production process:
  - Deep drawing
  - Rolling
  - Welding
  - Powder coating
  - Assembling (optional)
- **Materials used**: aluminum, Aluminized steel
- **Logistics**: Bulk delivery’s and sequence delivery’s
Certified Quality Standards

Commitment to quality improvement is an ongoing process for SAG - with measurable and common objectives. High quality standards count for us both in terms of the business strategy and personal responsibility.

IATF 16949 : 2016  
ISO 9001  
ISO 14001 : 2015  
OHSAS 18001
Capabilities

- Concept Design
- 3D Modelling CREO / Catia
- Sheet metal design
- FEM Analysis
- Document Management
- Project Management
- Prototyping
- Group expertise
3D Modeling

Together with the customer a list of demands can be made. This means that all demands and wishes will be written down in a document with mutual agreement.

When the demands of a new product are clear, (concept) design can be started. With PTC Creo Parametric 3D constructions can be designed in (close) corporation with the customer.

When starting with the design, first a Space Claim is set up. The Space Claim is part of a Parametric design and is used as reference for the design of single parts. This is a so called ‘Top-Down’ design.
When the Space Claim has been set the individual parts can be designed. With the use of the so called ‘Top-Down’ design this can be done easily.

All data from the space claim can be used to design the parts. Parts of the space claim will be copied to the individual parts and will be used to define its geometry.

Eventually, all the parts are made and the design is completed with all its mounting parts etc.
When the design is finished and approved by the customer, drawings of the individual parts can be made. On the drawing the dimensions, tolerances and finishing is defined. With the drawings the parts can be manufactured.

If the design is very complex, special assembly lay-outs can be made to support production and assembly. Step-by-step exploded views defined in these lay-outs can help during the assembly of the final product.
In some cases the requirements of a construction could introduce high loads on the construction or on some of the parts. With the loads and the constraints a FEM analysis can be performed on both the complete construction or on individual parts. With FEM analysis the expected failure can be minimized.

When the (Von Mises) stress exceeds the limits, the construction can be optimized by adding or leaving material in strategic places. Or in some cases it has to be changed to another material.
Special tanks

- Bus wheel arch tank
- Diesel tank mounted in chassis
- OEM Truck coolant tank
- Level sensor mounted
- Low-entry bus diesel tank (mounted partly under entry)
- 2 diesel tanks connected volumes
To validate a design we have several options in house. We have a 3D printer to validate some small parts on form and fit function.

When the parts are too big to print or an actual prototype is required we have several options to accommodate that. We have a large variety of machines to cut and bend sheet metal parts as we have conventional machinery for making milled or turned parts. Because of the current work experience in the workshop we also have fast experience in welding thin walled sheet metal parts.
Production Processes

Test of filling speed of the tank
Sealings for Starhole and fillerneck
% H2 to test with
Test speed of sniffling system
Re-use of gas mixture
Determine exact tacttime
Determine flushing time
Possible solutions against fuel theft

- Mechanical lock
- Original float sensor
- Blackbox or CANbus interface
- Motion detector
- External sensor
Demonstration 1: Fuel Theft Alarm
SAG Group – Progress is our passion

Let’s stay in touch!

visit us at www.sag.at