



surface  
technologies



**Venlo**  
heat treatment

# Aalberts Surface Technologies Venlo B.V.

## Specialists in heat treatment

Aalberts Surface Technologies Venlo B.V. provides services in heat treatment to a diverse market within the metalworking industry. The Company policy is mainly based on proven process control to guarantee reproducible product-quality level and best delivery reliability, resulting in a high customer satisfaction score.

Based on the high level of expertise and competencies Aalberts Surface Technologies Venlo B.V. works in close partnership with our key stakeholders, preferably at the design stage of the component, in order to provide an optimum heat treatment process and best quality. Our engineers know the possibilities of heat and surface treatment as no other, and will gladly assist with your design, choice of material and it's properties. The goal is to deliver maximum yield, cost efficiency and sustainability - you raise the bar and we will take the challenge. Customer focus is our practiced business philosophy, and we hold great value in individual assistance from the initial contact through to final shipment of the part.

Your parts will be treated with the utmost care. All processes are fully traceable so, from order acknowledgement (via delivery time confirmation) to final completion you will be informed automatically about the progress and status of your order. We can assure short lead times for single parts as well as for large serial volumes.

Our equipment portfolio consists of sealed quench furnaces, vacuum furnaces and nitriding/nitrocarburizing furnaces. Further core business activities are brazing and annealing processes carried out in continuous furnaces, together with normalizing, soft annealing, recrystallization and stress relieving.

Furthermore, the demands for cleanliness and good surface appearance are very high, so Aalberts Surface Technologies Venlo B.V. offers a variety of methods from classical alkaline water-based cleaning systems through to continuous cleaning and specialist solvent-based systems. We even offer combined aqueous and solvent-based cleaning. Finally shot-peening can be performed to enhance the surface condition of the part.

# Technologies

### Thermal processes

- Hardening and tempering
- Annealing
- Sub-zero



Thermal processes are all Heat Treatment processes which only involve heating of the products to be treated. With these processes we are able to optimise the mechanical properties of the products. Most of the treatments in this section are hardening treatments which increase the hardness of the core of the product.

### Thermo-chemical processes

- Carburizing
- Carbonitriding
- Nitriding
- Nitro Carburizing
- Oxi-Nitro Carburizing
- Nitrotec®



Thermo-chemical processes are Heat Treatments where in addition to heating of the products, there is also a chemical diffusion process. With these treatments we are able to produce a very high hardness at the surface, while controlling the core to a different level. This results in a combination of high strength and wear resistance at the surface and a ductile/tough core.

### Brazing

- Continuous process
- Copper / Nickel
- Leakage testing



At Aalberts Surface Technologies Venlo B.V. we are able to provide several brazing processes tailored to your requirements. Brazing processes are joining processes where parts are connected in a high-quality manner by fusing with brazing material. Typically the strength of the brazed connection exceeds that of the base material.

## Our Markets



Automotive



Agriculture



Flow systems



Tooling / Dies



Machinery



Mining



## Your contacts



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## Quality

Quality at every level, that is the basic goal of our work every day. We ensure that all details of our activities are transparent and open. All processes are clearly documented. There is an intensive, internal transfer of knowledge and information. Both we and the customer reap the benefits of our dedication to quality; everyone benefits from better processes and higher productivity.

ISO 9001	IATF 16949	CQI-9	AS/EN 9100	NadCap	ISO 14001
<b>A</b>	<b>A</b>	<b>A</b>			<b>A</b>



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