TECHNIK AUS BEGEISTERUNG
VALUES & EMPLOYEES

A strong team.

AICHELIN offers the tradition of a successfully established company along with a modern, dynamic team. This combination allows us to join many years of experience with state-of-the-art technology so we can provide the best solutions for our customers’ needs.

Our daily business is based on the values of openness, responsibility, appreciation, constant striving for improvement and learning from mistakes. We consider this to be the foundation for a reliable partnership.

The key to our success are our employees. At AICHELIN, long-standing and new staff complement each other to form a reliable team, in which experience is appreciated and new stimuli are received openly. We value a climate of open and honest dialog. We encourage our employees to introduce ideas, criticism and suggestions for improvement. Cross-departmental work is also very important to us. This means that AICHELIN employees are open-minded and creative team players.
VISION & CUSTOMERS

Technology based on enthusiasm.

Our values determine not only how we deal with each other, but also our relationships with customers and partners. We treat our customers the same way we want to be treated ourselves. Customer benefit is the yardstick that determines our business strategy and our daily actions. Our customers see AICHELIN as a technologically leading manufacturer of heat treatment systems, just as we do. We consider our customers’ high technical requirements as a challenge that we are happy to take on, and which serves as a basis for our continuous growth. We appreciate suggestions for improvement from our customers and implement these ideas as part of our continuous product development.

Our furnace concepts ensure a very energy-efficient and environmentally friendly operation with consistently excellent product quality. These concepts also help our customers to further reduce their CO₂ emissions and energy consumption. To ensure this combination works, we rely on a regular exchange of information between the best and most experienced professionals in the heat treatment industry.
PRODUCTS & SERVICES

Perfection down to the smallest detail.

Each of our plants at AICHELIN Mödling is unique. Our goal is to always find the best solution in terms of technology, price and cost effectiveness for each specific customer request. Our long-term partnerships with our customers have resulted in proven system solutions that are characterized by unbeatable operating costs, serviceability and reliability.

At AICHELIN we don’t just talk about quality – we practice quality as a matter of course. We have been ISO 9001 certified since 1994. For us, production quality starts with procurement management. By choosing suppliers in our immediate vicinity, we can perform regular quality control checks. AICHELIN assembles and checks all plants in its own production facilities. All components of the very large systems are tested cold. Smaller plants are tested cold up to the fully automatic stage and some are even warmed up on the way to the approved-parts production.

The scope of services offered by AICHELIN ranges from project planning to after-sales service. Our plants are used mainly in the automotive and supplier industry, in contract hardening shops, in the screw and bearing industry, and the industry for precision and bulk small parts. Just as varied as our customers are the parts that need to be processed and their requirements during heat treatment. A complete product portfolio founded on standard modular basic elements and continuous product development offer optimal furnace technology.

We strive for constant improvement in all departments. All this is only possible with our highly qualified and regularly trained employees.
CHAMBER FURNACE

The all-rounder.

A universal heat treatment furnace for small and medium capacities and a wide range of parts. Chamber furnaces are ideal for high flexibility in different heat treatment processes and when quality and efficiency with many different parts are required.

Ongoing developments enable the treatment of different series with throughput capacities of 500 kg/h – 1,800 kg/h. Low-cost solutions are made possible by the standardized and proven furnace technology. By working with our customers, we can also develop individual furnace concepts to accommodate deviating requirements. Our Evolution line is particularly flexible – it fits into any existing chamber furnace line.
PUSHER TYPE FURNACE

The workhorse.

Thanks to their continuous operation and high throughput capacities of 600 kg/h – 3,000 kg/h, pusher type furnaces are very economical. The product range covers a wide field of applications and offers maximum customer benefits. This furnace is often used in the commercial vehicle industry, because it optimally covers the needs of the parts.

Benefits to the user include extremely high reproducibility of the heat treatment results, low staffing requirements, high degree of automation, robust and easy to maintain drives and the potential to save energy.
ROTARY HEARTH FURNACE

The flexible one.

Rotary hearth furnaces are often used for the heat treatment of components that are quenched in presses, such as two-wheeler components and clutch parts. They operate accurately and with high temperature uniformity.

Reproducible quality and top efficiency are the key benefits of AICHELIN's rotary hearth furnaces. Thanks to decades of partnerships with our customers, we have created a sophisticated design characterized by serviceability and durability.
RING HEARTH FURNACE

The alternative.

Ring hearth furnaces are very versatile and appreciated especially by the automotive industry. This plant operates very efficiently with a throughput capacity of 800 kg/h.

The optimal combination of proven rotary hearth furnace and pusher furnace technology provides unique advantages for the operator: The newly designed ring hearth furnace efficiently joins all of the procedural steps. Processes such as carburization or hardening with press are carried out in one step. The division of the furnace into zones enables precise process control.
ROLLER HEARTH FURNACE

The efficient one.

AICHELIN’s roller hearth furnaces generally operate fully automatically as concatenated production processes for the heat treatment of parts such as roller bearings, thrust link belts, and components for commercial vehicles and the agricultural industry.

Roller hearth furnaces meet high demands with respect to component quality at high output rates. Bare surfaces, avoidance of case decarburization, certain structure properties and defined hardness properties of the components can all be achieved with AICHELIN roller hearth furnaces. The plant design results in an economical use of resources and highly efficient operation. Another major benefit is the serviceability of the continuously optimized design.
CAST PLATE BELT FURNACE

The powerful one.

Conveyor systems are used for the heat treatment of large quantities of bulk material or individual parts. Most of the treated parts are supplied to the automotive and steel industry as well as to ship and bridge builders.

These furnaces are characterized by high efficiency, environmental friendliness, reliability and reproducible quality. The inside cast link belt carries up to 2.5 times the load. The retention of the conveyor belt heat and its multi-year use results in less energy consumption and lower costs. Conveyor belts are offered in various designs according to the customer requirements, for example as precision castings.
WIRE LINK BELT FURNACE

The precise one.

The modern heat treatment of bulk small parts places high demands on the process flow. A band conveyor system ensures that the parts are transported through the furnace regularly and continuously. The furnaces offer high precision and repeatability and are suitable for series parts.

Thanks to the low operating costs, great flexibility and environmental friendliness, the wide range of technical solutions guarantees efficiency. The furnace capacity allows for small to large throughputs.
PLANT COMPONENTS

A seamless solution.

As a provider of complete solutions, we offer the appropriate auxiliary equipment for our heat treatment system concepts.

Cleaning systems
Flawlessly clean surfaces are essential for the quality of the end products when components are heat-treated. AICHELIN offers systems with aqueous solutions and neutral detergents for cleaning and drying components before and after the heat treatment. In hardening plants, aqueous cleaning has proven to be the best cleaning method, from an economical as well as ecological standpoint.

Protective gas generator
Gas carburization processes and other heat treatment processes that use protective gas place high demands on the atmosphere’s control capacity. The best results are achieved with the proven carrier gas method that relies on endothermic gas forms. All AICHELIN protective gas generators in the ENDOMAT® series are delivered with an air cooling system.

Automation technology
Measuring, regulating, controlling, visualizing and documenting are the important tasks of a heat treatment plant’s automation. AICHELIN systems are automated in a modular manner and can be upgraded with the FOCOS process control system upon customer request.
AFTER-SALES SERVICE

Life-long partners – based on our love for our furnaces.

Our furnaces are designed to meet our customers’ increasing requirements well into the future. That is why we support our customers in keeping their plants “fit” throughout their entire life cycle.

AICHELIN’s coordinated logistics concepts ensure that the right part is in the right place at the right time. Thanks to a centralized warehouse management, furnace parts can be quickly replaced and components can be repaired speedily and professionally.

The durability, safety and productivity of your furnace is guaranteed by individualized services that are performed at regular intervals or on demand.

Our plants’ constantly changing requirements call for the continuous optimization and adaptation of the technology. With tailor-made solutions for the modernization or conversion of the furnaces, it is possible e.g. to increase throughput capacities or reduce our customers’ energy costs.

We help our clients qualify their operating and maintenance personnel by offering training and instructions. Equally important to us is the safety of the plants. We support our customers in the implementation of the latest safety standards and training of new employees.
An excerpt of sold AICHELIN plants in Europe.
REFERENCES

A small excerpt of our references:

COMPANY HISTORY

Tradition and progress.

In 1868, Jakob AICHELIN took over a stove factory in Stuttgart. His production initially focused on kitchen stoves and living room stoves made of porcelain and iron. After World War I, the company ceased manufacturing these stoves and focused exclusively on industrial furnaces.

The company acquired the Victorin factory in Mödling near Vienna in 1960 to better serve the market behind the „Iron Curtain“. The workforce soon grew to about 200 employees and the Austrian branch became a separate unit.

In 1997, the majority of the company shares were sold to the internationally operating Berndorf AG. In 2004, the production of new furnaces was transferred to Austria. Since then, the German unit has focused on the after-sales business and spare parts supply to our customers. What was once a German company headquartered in Korntal is today an Austrian company with headquarters in Mödling.

Due to the steady growth into an internationally active corporate group, it was decided in 2008 to separate the operations and management and found AICHELIN Holding GmbH.

Today, AICHELIN Ges.m.b.H. is a member of the globally operating AICHELIN Group. Its core competences include the construction, production, assembly and commissioning of customized heat treatment plants, as well as services ranging from spare parts sales to annual maintenance.
INTERNATIONALIZATION

We are committed to reliability.

The AICHELIN Group is a world leader in heat treatment systems for metal components. By now the company can look back on a 144-year long history of achievements. In addition to the production of industrial furnaces, the AICHELIN Group is active in the field of induction heating, as well as the production of industrial gas burner systems.

AICHELIN wants to be perceived as the most reliable partner in the industry. We stand for consistent product quality and high service availability in all our markets. Offices in Europe, China, the United States, Brazil and a joint venture in India ensure customer proximity and optimal support during the entire project phase, along with system-specific after-sales service.

In our work, it is important for us to respect cultural differences and meet market-specific requirements. We therefore encourage regular information exchange with clients and partners and draw on our decades of experience in heat treatment systems and processes.

Reliability creates trust - and trust creates lasting success!