

Gautschi[®]
EBNER[®] GROUP MEMBER



Full Solution Provider



Furnace and Casting Systems for the Aluminium Industry



The most innovative full solution provider for Casthouses.
Melting, Casting and Homogenization all from one supplier:

Gautschi[®]



Liquid metal

Casting machines

Heat Treatment

OUR PRODUCTS



MELTING AND HOLDING FURNACES

For processing of liquid and solid metal



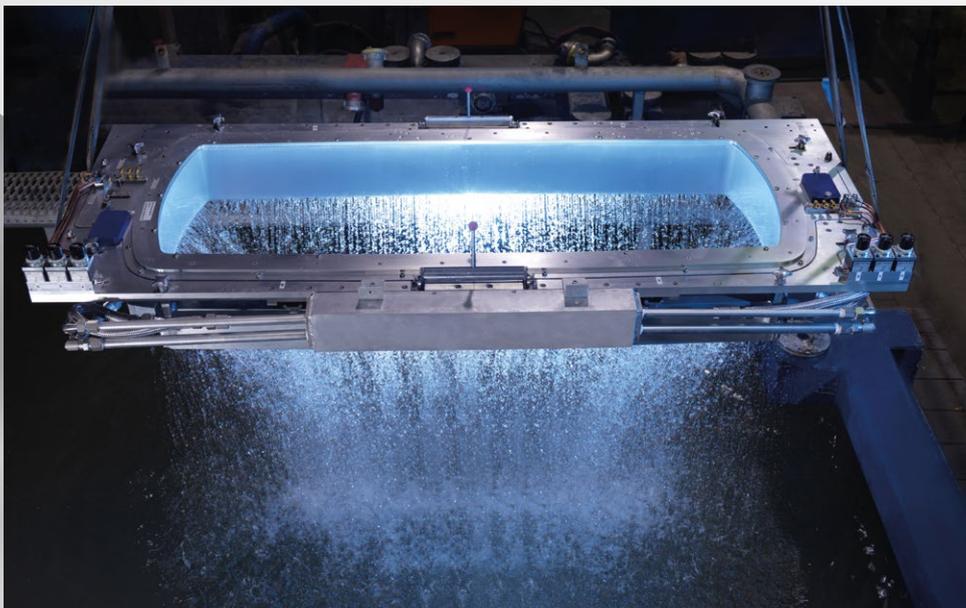
VERTICAL CASTING MACHINES

For rolling slabs and billets



HEAT TREATMENT FURNACES

For rolling slabs, coils and billets



LIQUID METAL FURNACES

Advanced solutions drawing on decades of experience



Gautschi has over 95 years of experience in the design of melting and holding furnaces for the Aluminium industry.

Our reference is an experience of more than 500 sold furnaces with a capacity of up to 140t liquid.

ROUND, TOP CHARGED MELTING FURNACES

Up to 140t metal capacity

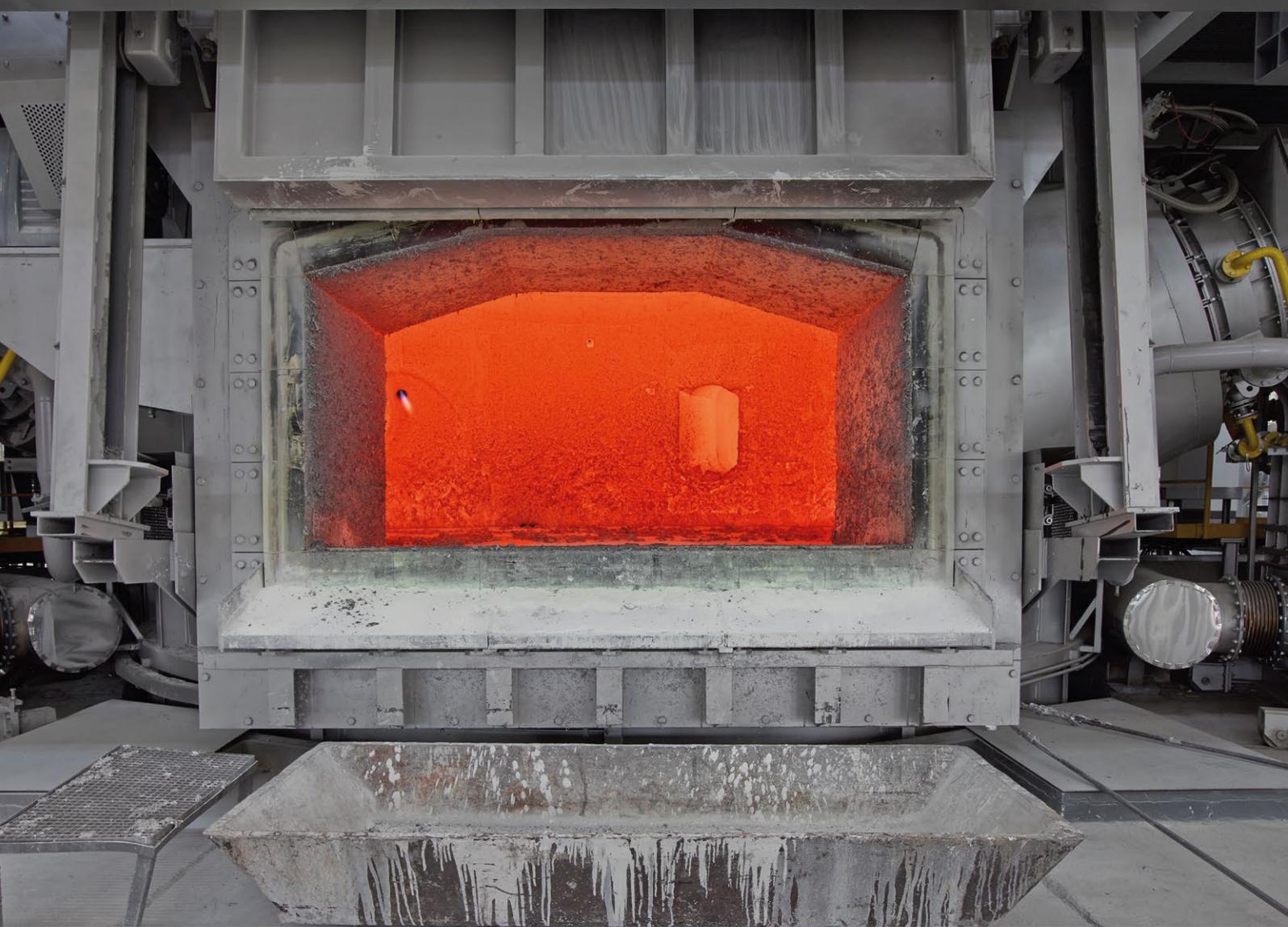
- Stationary or tilting type
- With swing or travelling roofs
- Air cooled furnace cover structure
- Dry cleaning door frame design
- Melting rates up to 40t/h
- Gautschi Varega® regenerative burner for a high energy efficiency

RECTANGULAR AND OVAL SHAPED MELTING AND HOLDING FURNACES

Up to 140t metal capacity

- Fixed hearth or tilting type
- Single or multiple door, available over full furnace width
- High energy efficiency Gautschi Varega® regenerative burner or cold air burner





GAUTSCHI BURNER SYSTEMS

Up to 9'000kW

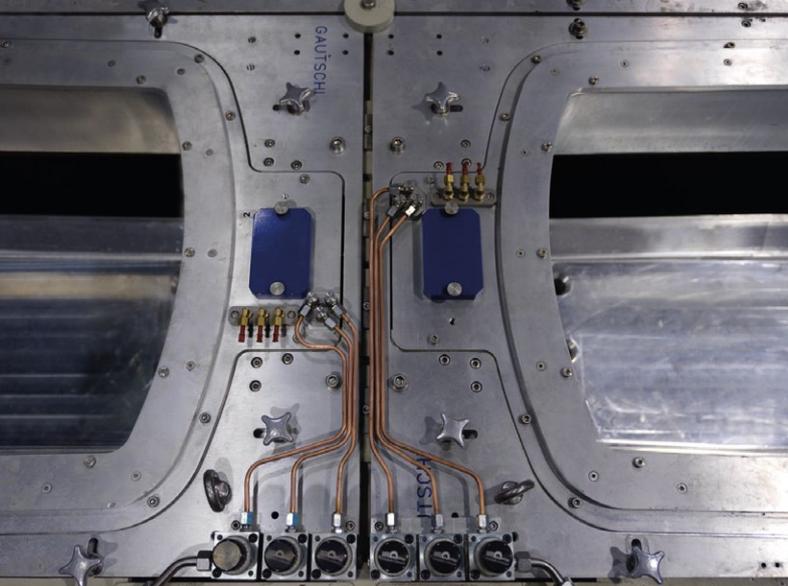
- Cold air, hot air, regenerative
- For NG, light fuel oil, heavy oil
- High energy efficient
- Meeting all stringent new environmental requirements (low NOx)

CASTING MACHINES

For rolling slabs and billets (for all alloy types)



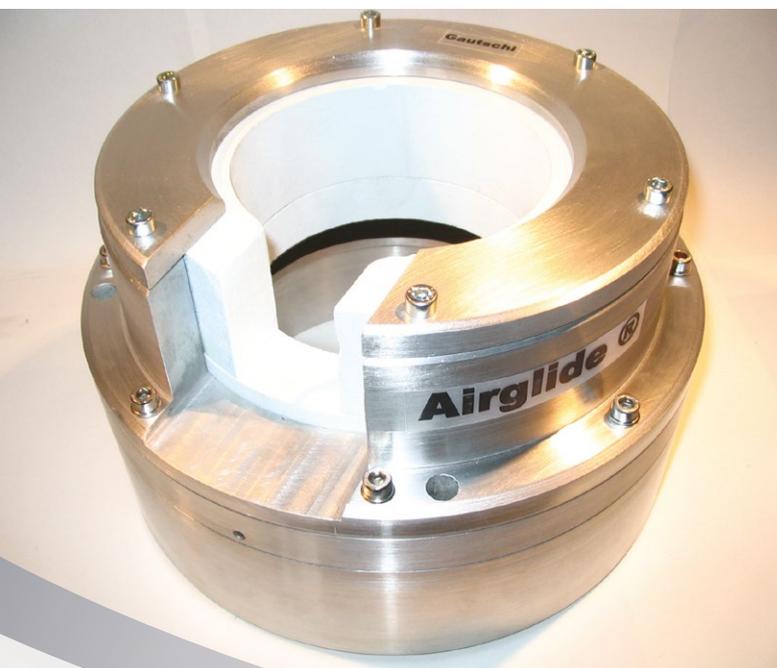
Gautschi is a leading supplier of casting equipment for aluminium. The casting machines are known for their accurate and robust design and high automation level. Casting machines of high quality for rolling slab, extrusion billet and forging stock are produced around the globe by the Gautschi family.



VERTICAL D.C. CASTING MACHINES FOR ROLLING SLABS AND EXTRUSION BILLETS

- Top quality, slabs and billets for all alloy types especially 2xxx, 6xxx and 7xxx
- Less cracking, especially of alloy 7150 compared to competitors
- Controlled and low butt curl, no butt swell
- Internally guided casting cylinder
- Air Glide® mould system for billets
- Gautschi® slab mould
- Capacity range from 5 to 170t drop weight
- Tilt frame and drive carriage designs available





NEWEST TECHNOLOGY OF "HANDS-FREE" OPERATED CASTING EQUIPMENT

RELIABLE OPERATION AND EXCELLENT PERFORMANCE

Gautschi® AIRGLIDE® and AIRSOL VEIL® billet mould systems offer excellent billet qualities at low operating cost.

HEAT TREATMENT PLANTS

Fully integrated production process

Modern technology, state-of-the-art design, competent manufacturing and installation, as well as effective commissioning, ensure fulfillment of relevant metallurgical requirements. PLC Control Systems and Industrial Computers facilitate the operation of the Heat Treatment Plants and enable a fully automatic production.



PUSHER TYPE FURNACES

References up to 810t furnace load

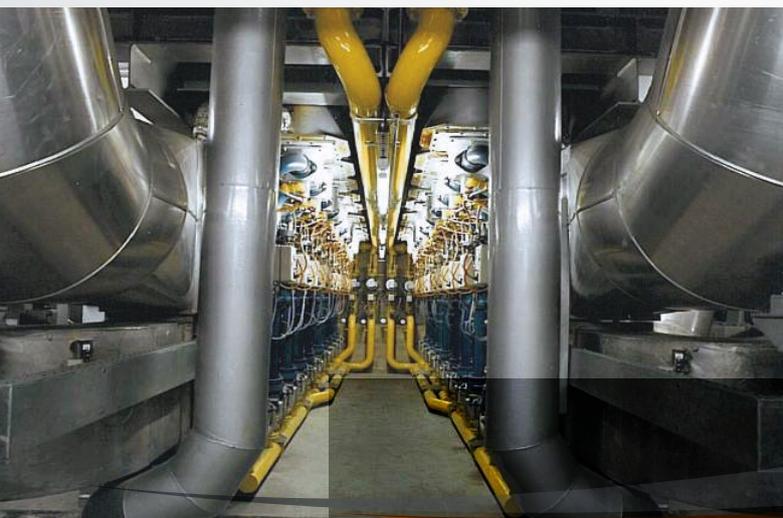
- Tailor-made handling equipment
- Highly efficient self-recuperative burners
- Sophisticated nozzle system for good temperature uniformity and short heat-up times
- Patented sliding shoe system ensures smooth slab transport
- Low energy consumption
- Effective cooling system for homogenizing process



SOAKING PIT FURNACES

References up to 470t furnace load

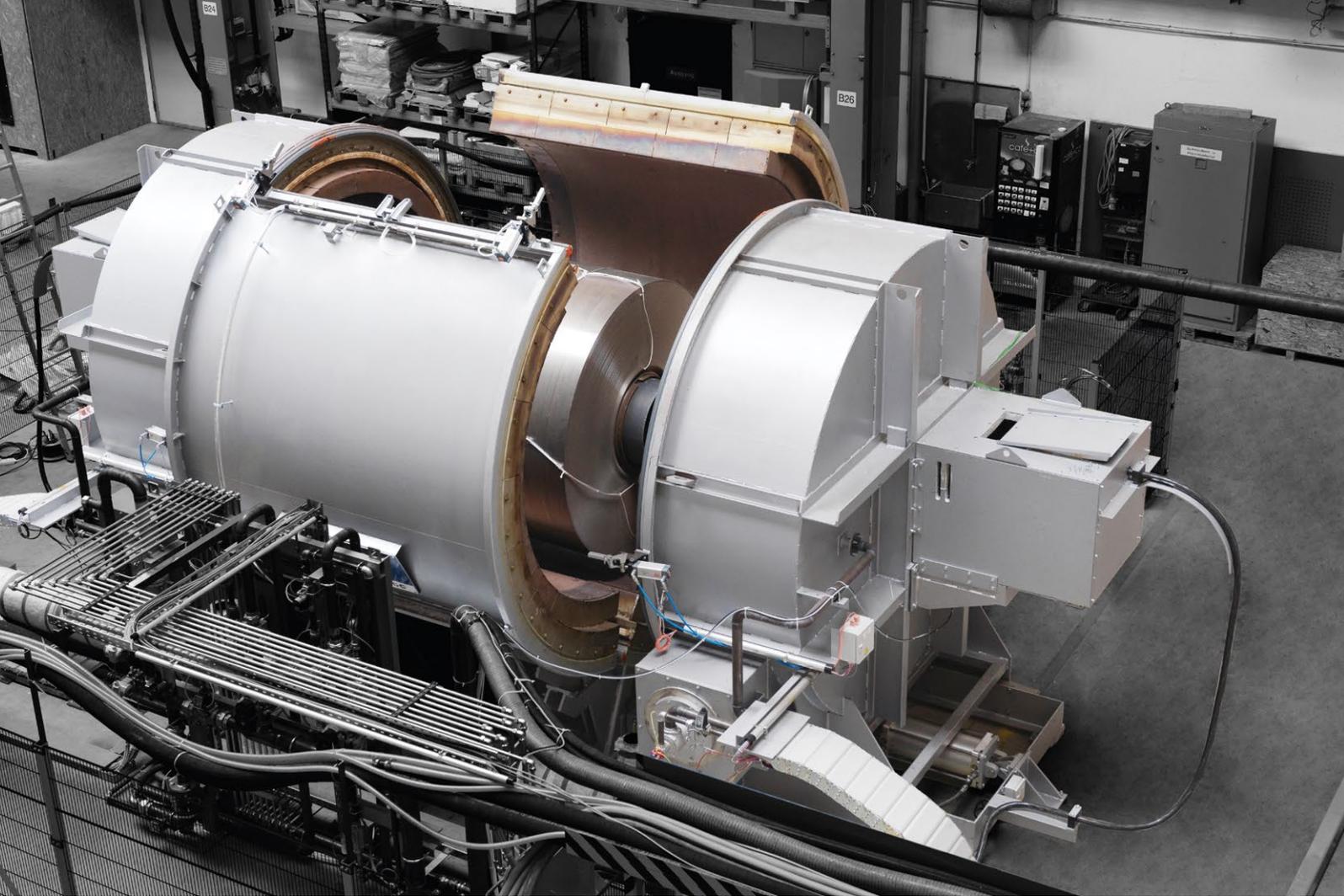
- Flexible charging for various slab dimensions
- Highly efficient self-recuperative burners
- Strong and spring-loaded supporting structure
- Separately controlled individual furnace zones



BATCH TYPE FURNACES

For strip and foil coils, billets and slabs

- Protective-gas annealing
- High heat transfer nozzle system
- Self-recuperative burners
- Homogenizing for billets and slabs
- Incl. fully automatic charging machines



COMPACT COIL FURNACE (CCF)

Next generation single coil furnace

- Energy savings of 75%
- Inert gas savings of 55%
- Flexible production
- Easy adaptable design
- Short installation time
- Use of existing coil handling
- Furnace array can be equipped with an automatic handling system
- Less workshop building height required
- Fully automated plant (possibility to work men-free)

In its Heat Treatment Furnaces Gautschi incorporates high efficient recuperative burners with minimized heat losses to the benefit of the environment and the customer. High convection heat transfer and optimized process technology ensure best anneal results combined with a maximum throughput.



CONTROLS & AUTOMATION

Everything supplied by one hand - GAUTSCHI®

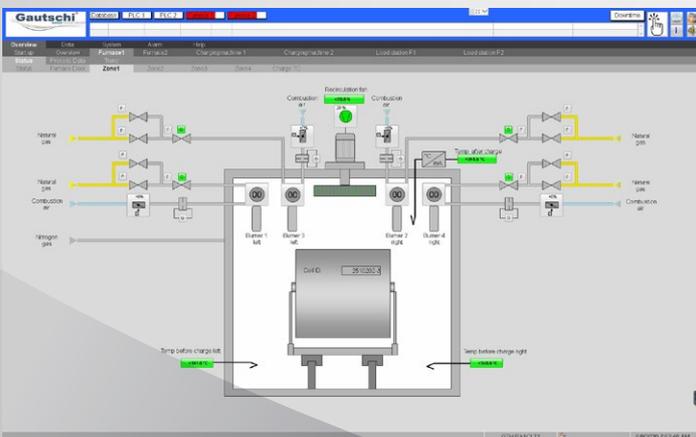
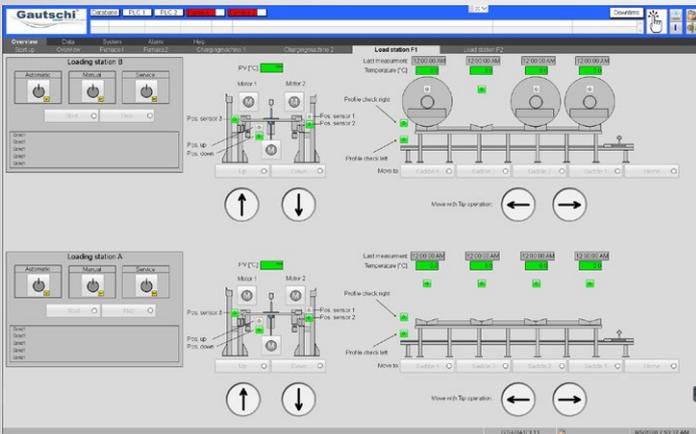
Continuously increasing requirements in the quality of products and production equipment, as well as the need to make production sequences as efficient as possible, mean that new functions and the latest technologies must be continually implemented.



The focus is currently being placed on process automation, supervision and quality assurance, plus the coordination of material flow with upstream and downstream production processes.

GAUTSCHI® EASy (Express Alloy System) for autonomous and automatic alloying of the molten metal.

GAUTSCHI® Cast-House System - designed to be a hands-free operation for most of its activities, operational by tablet computer.



CUSTOMER SERVICE

The best service for your Furnace and Casting Systems



Customer Services Department is dedicated of knowing customer needs in advance and offering customer specific solutions – anywhere in the world from our locations in Austria, China and the US.

The know-how and experience of Gautschi employees is organized into three core areas.

Spare Parts Sales, customers can profit from the efficient, cost-effective, and rapid delivery of every type of spare part.

Technical On-Site Service, offers a range of services ensuring problem-free operation of a facility over a longer period of time.

Upgrade & Rebuild, provides customers with modifications and technical innovations to existing facilities, ensuring operations at the highest technical standard.



CASHOUSE (R)EVOLUTION CENTER
CRC

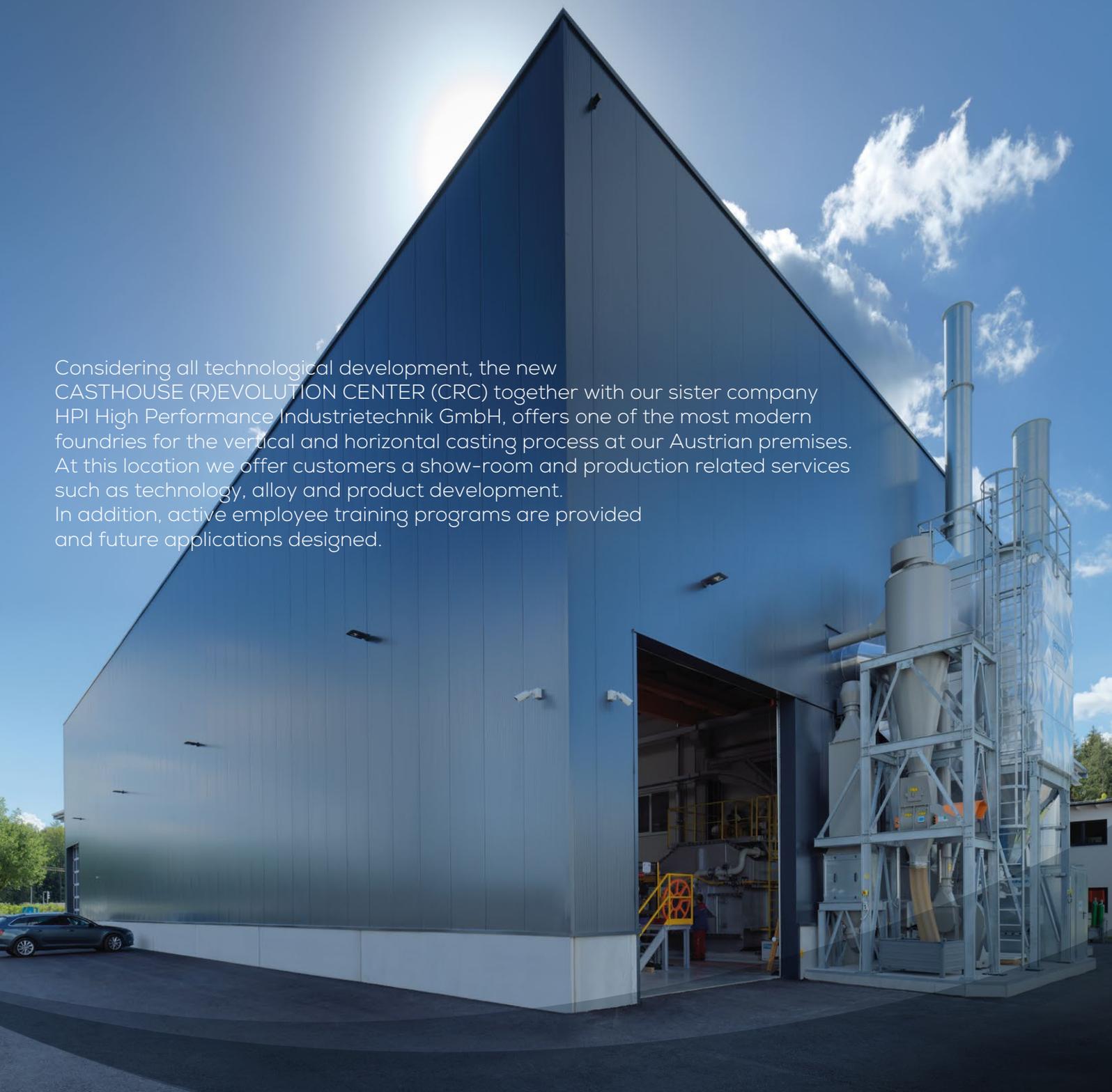


CASTHOUSE (R)EVOLUTION CENTER

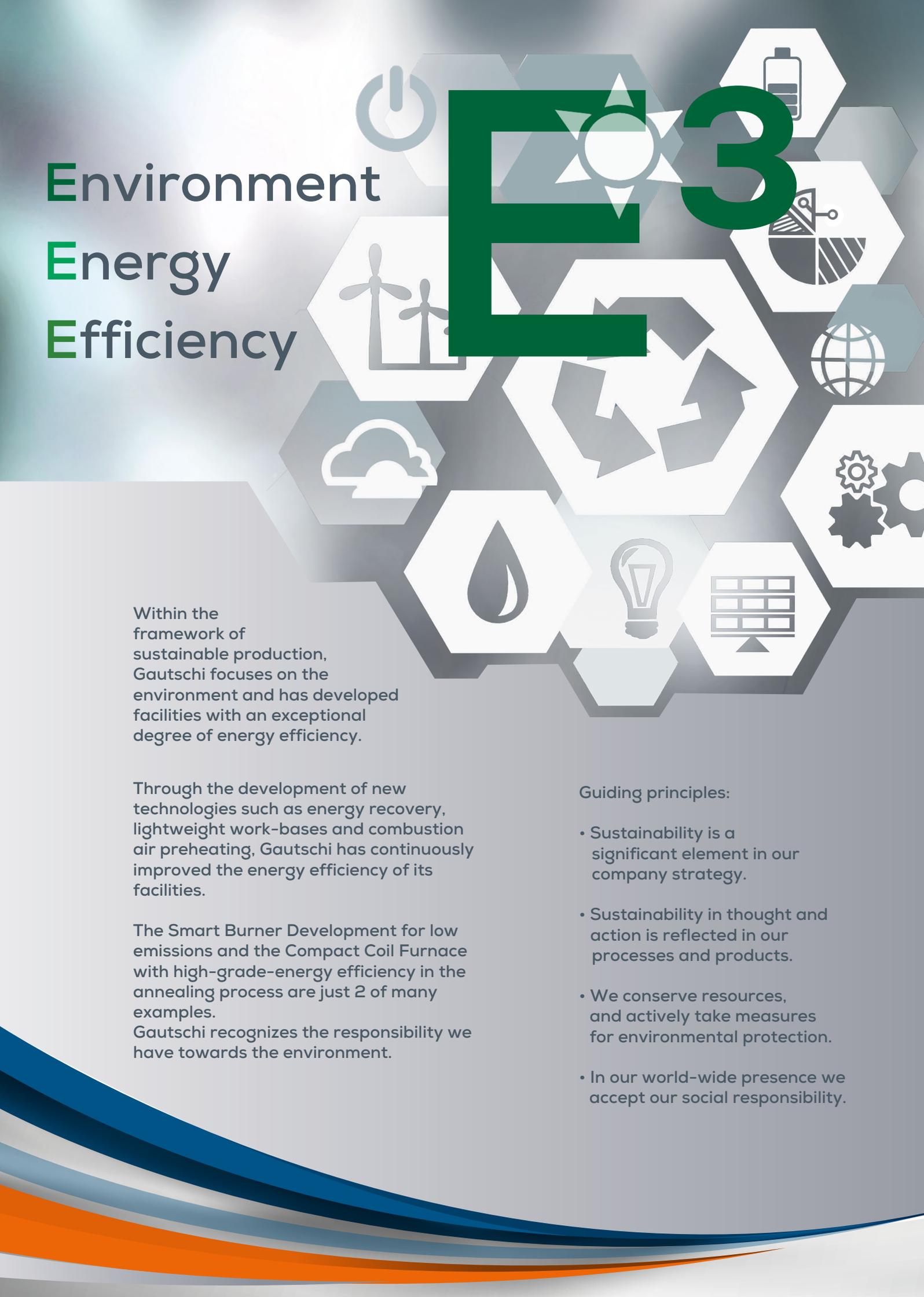
"Moulding" a New Future in Casting Technology

Looking back on almost 100 years of company history with more than 1,000 systems installed globally, we honor the experience gained, but even more important for us, targeting a wide and persistent market presence, and the motivation for our actions, is the preview into the future.

Considering all technological development, the new CASTHOUSE (R)EVOLUTION CENTER (CRC) together with our sister company HPI High Performance Industrietechnik GmbH, offers one of the most modern foundries for the vertical and horizontal casting process at our Austrian premises. At this location we offer customers a show-room and production related services such as technology, alloy and product development. In addition, active employee training programs are provided and future applications designed.







Environment

Energy

Efficiency

Within the framework of sustainable production, Gautschi focuses on the environment and has developed facilities with an exceptional degree of energy efficiency.

Through the development of new technologies such as energy recovery, lightweight work-bases and combustion air preheating, Gautschi has continuously improved the energy efficiency of its facilities.

The Smart Burner Development for low emissions and the Compact Coil Furnace with high-grade-energy efficiency in the annealing process are just 2 of many examples. Gautschi recognizes the responsibility we have towards the environment.

Guiding principles:

- Sustainability is a significant element in our company strategy.
- Sustainability in thought and action is reflected in our processes and products.
- We conserve resources, and actively take measures for environmental protection.
- In our world-wide presence we accept our social responsibility.

Gautschi®

EBNER® GROUP MEMBER

THE MOST INNOVATIVE
FULL SOLUTION PROVIDER
FOR CASTHOUSES.

EBNER GROUP

DIGITAL SOLUTIONS

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EED

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EBNER R&D Lab, Austria



Casthouse (R)Evolution Center, Ranshofen



CUSTOMER SERVICES

- Spare parts sales
- Field Service
- Upgrade & Rebuild