



# HANS HENNIG

NOTHING  
SHAPED HUMANITY  
AS MUCH  
AS MASTERING  
THE FIRE



A Körting Company

# Smart Combustion

Everyone knows: Nothing shaped humanity as much as mastering the fire. Few know: Hardly anyone is as good at it as we are.

HANS HENNING has been a leading specialist supplier in the field of industrial combustion technology for more than 50 years. We do not build off-the-peg systems, but tailor-made solutions.

We deliver a tailor-made complete solution for your firing system. Whether new construction or modernization – we plan and realize all work around the industrial firing from A to Z.

With a high degree of vertical integration of our own products, such as industrial burners, valve racks, furnace controls, burner control units, flame monitors or control cabinets, we plan and manufacture your individual system.

Furthermore, we offer you a complete range of accessories for your firing system.

This makes us sustainably successful – in Germany, Europe and worldwide.



## Products:

- Burner technology
- Combustion chambers and hot gas generators
- Control technology
- Electronic components

## Fields of application:

- Steel and aluminium industry
- Foundries
- Glass industry
- Process heat generation
- Cement industry
- Asphalt industry
- Chemical industry
- Fertilizer industry

## Service:

- Assembly and commissioning
- Maintenance
- Spare parts



# Management Board



**Dr.-Ing.  
Christian Barczus**

Technical director,  
PhD mechanical engineer.

Since the beginning of 2018  
Chairman of the Board of  
HANS HENNIG GmbH.

Specialized in environmental  
and process engineering;  
Power plant construction and  
burner technology.

- Project management
- Construction
- Production
- Service
- Technical sales
- Human resources



**Achim Rosenberg**

Commercial Director

Achim Rosenberg has been  
the Commercial Director of  
HANS HENNIG GmbH since  
March 2011.

Mr. Rosenberg is also Senior  
Departmental Leader of  
Commercial Sales at Körting  
Hannover AG. He holds the  
position of Commercial Director  
of numerous subsidiary com-  
panies belonging to Körting  
Hannover AG.

His responsibilities within the  
HANS HENNIG GmbH.

- Commercial sales
- Commercial order processing
- Financial accounts
- Controlling



## History

**1968**

Engineer Hans Hennig founded the  
company HANS HENNIG as a develop-  
ment office for safety-related technical  
equipment at firing plants.

**1973**

Growing demands on the safety  
of firing plants as well as the trend of  
the one-stop-shop concept required  
manufacturing facilities in Ratingen.

**1981**

Development and manufacturing of  
burner control devices, complete con-  
trols, flame monitors etc. according to  
European standards.

**1983**

Setting up of a mechanical manufac-  
turing for orifice plates and gas reduc-  
ing stations as well as valve racks and  
ignition burners.

**1991**

Implementation of an electrical and  
mechanical development department with  
EPLAN and AutoCAD as well as a depart-  
ment for automation and visualization

**2008**

New development of innovative  
burner control device, FDA 6000, in  
accordance with the latest standards  
(EN 298/230).

**2009**

Construction of a new production site  
with an office building in the immediate  
vicinity of the older site.

**2011**

Acquisition of HANS HENNIG GmbH by  
Körting Hannover AG and subsequent  
integration as a separate enterprise  
within the Körting Group.

**2012**

Introduction of SAP/R3 in the sales,  
material administration and financial  
accounts departments.

**2013**

Major order for the delivery of 40 valve  
racks and burner controls for Iran.

**2017**

Order for the delivery of a hot gas  
generator with 100 MW under pressure,  
with the fuel hydrogen for China.

**2018**

Major order for the delivery of 68 valve  
racks and burner controls for Iran.

# Fuel Supply Burner Technology

HANS HENNIG has gained great experience in the planning and manufacturing of all kinds of combustion plants. Our experiences of many years and continuous development guarantees optimal use of your energy resources.

We are a long-time partner of renowned industrial companies and energy suppliers. All control systems for supplying your plants with liquid, gaseous and powdered media will be planned, manufactured and commissioned by us.

HANS HENNIG offers solutions for all types of applications: smelting, air heating, thermal post combustion, reheating or the heating of refractory masses. This is done in a robust, energy-efficient and environmentally-friendly way.

HANS HENNIG's strategy: We are a one-stop shop. We supply you with complete systems as well as individual components of firing systems. Manufacturing and processing of components and assemblies as well as testing of all supply lines for tightness and function are of course carried out in our house.

## Multi-fuel burners

For up to five different fuels without need of changing the lance.



## Gas burners

Gas-fuelled burners with or without air pre-heating.



## Oil burners

Even atomization of various mediums.







## Steel combustion chambers without refractory lining

Developed for thermal post combustion as well as for the generation of process heat. You are on the safe side with our steel combustion chambers when it comes to cleaning contaminated process air.

The utilisation of our counter-flow combustion chambers guarantees the highest efficiency at the lowest energy consumption. Designed and manufactured individually according to your requirements. This ensures an optimum of adjustment to your process.

## Hot gas generators / Test stands

Hot gas generators / test stands by HANS HENNIG are applied for drying processes and hot gas generation in industry and research. By means of rapid performance adaptation and minimum regulating times, highest degrees of utilisation and efficiency are achieved.

## Combustion chambers with refractory lining

Highest quality materials such as refractory ceramic material or refractory concrete guarantee optimum efficiency and long lifetimes. Through the targeted use of different refractory materials, advantages such as high heat storage capacity or short cooling times can be valuable applied.

# Combustion chambers Hot gas generators

# Intelligent firing plants through optimal control technology!

## Switchgears

HANS HENNIG offers control technology solutions for your individual needs. Our wide range of switchgear ranges from the control box to the 2500 A power distributor.

In the construction of control systems, we rely on our own electrical design with more than 30 years of experience. In addition, we manufacture the systems in our own control cabinet production. Thus, we can also efficiently implement individual, highly complex solutions.



## Software engineering

With the constant increase in the complexity of the firing systems, the demands placed on automation are also increasing. Furthermore, the integration into process engineering tasks presents a special challenge.

HANS HENNIG creates software according to your wishes and needs.

From the simple control system to fail-safe systems to the complete guidance system, we cover all areas. Our programmers with many years of experience will bring the automation of your system up to date with the latest technology and make you future-proof.

Of course, we also put this software into operation - worldwide.



## Electronic components

Plant safety is particularly important in combustion technology.

We offer you a wide range of safety components such as flame monitoring, ignition devices and burner control units. These of course comply with all current standards and directives.





# Fields of application

HANS HENNIG has developed and supplied optimally customized solutions for industrial burner technology for more than 50 years.

Due to our individually adapted applications, the burner technology from HANS HENNIG is suitable for almost all applications in heat engineering.



## Steel industry

Firing systems for the steel industry are one of our core competences. HANS HENNIG develops and manufactures firing systems individually adapted to your applications.

With our burners and control systems you will achieve optimal process conditions for continuous as well as for intermittently operated furnaces. We can manufacture a suitable burner for all temperature ranges ranging from stress relief annealing up to forging and rolling.



## Aluminium industry

The production and processing of aluminium means high energy inputs. With the application of our efficient burner systems you will achieve a high smelting performance and homogeneous heat input. Application of our regenerative burners additionally provides a reduced formation of pollutants and low waste gas volumes.

Burners by HANS HENNIG have been designed for hearth furnaces, drum melting furnaces, shaft furnaces or for your particular type of smelting furnaces.



## Foundries

Burners and valve racks for gas and air supply from HANS HENNIG have long been proven in use in foundry processes. Whether pan fire, torpedo fire or gutter heating - our burners ensure the long-lasting and safe operation of your tools. Here, the adaptability of our systems is a decisive advantage over standard products.



## Process heat

By 2018, 80% of the process heat needed in industry will be generated by burning conventional fuels.

By using our technologies both gaseous and liquid fuels, as well as solid dusts can be used highly efficiently for the production of process heat. We can individually adapt our combustion and flow-optimized hot gas generators to application-specific requirements. These can also utilize waste heat and harmful gases (post-combustion) from processes, thereby ensuring an energy-optimized and environmentally friendly process technology.

At HANS HENNIG you will find a comprehensive concept for your process engineering task in process heat generation.



## Asphalt industry

HANS HENNIG also offers unique solutions for the asphalt industry.

For the white division, we offer efficient burner systems that meet all current limits (e.g. "TA-Luft 2018"). In addition to the standard fuels such as light oil and lignite dust, we can also offer the future-proof 3-fuel burner systems with additional natural gas components. Thus, you secure your investment for many years.

We also offer solutions for indirect firing for the asphalt recycling sector. Our hot gas generators are optimized in terms of flow, which means that the resulting process waste heat can be used again. This means energy savings of up to 15%. On the other hand, the outflow of the hot gas to the bituminous recycled material is highly optimized, so that a uniform and gentle heating of the particles can be ensured. This is particularly evident in the low emissions of hydrocarbons from asphalt plants.

HANS HENNIG can therefore offer complete firing concepts for your plants.



## Glass and Ceramics industry

For more than 60 years Körting Hannover AG has planned, supplied and developed complete oil, gas and dust firing plants for furnaces in the glass industry.

During the course of past decades considerably more than 1,000 plants have been commissioned. Our technological experience and knowledge gained from these activities has grown with time and the constantly optimized requirements of technology and environment have been adjusted to meet today's current status and needs. They thereby serve as a basis for the appropriate realization of firing equipment. Today, equipment conforming to the highest thermal efficiency and lowest emissions is planned and supplied.

With its incorporation into the firing technology field, Körting's know how is also at the disposal of HANS HENNIG.

# Service, Assembly and Commissioning. Worldwide!



## Assembly and Commissioning

Our trained and qualified staff professionally commissions your firing system. We will gladly undertake the commissioning of valve racks and burners as well as control and regulation systems.

With HANS HENNIG you are on the safe side when installing the mechanical and electrical components of the systems. We provide you worldwide service.

## Maintenance and Service

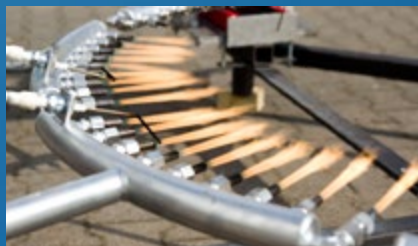
A professional maintenance, checking and calibration of each firing plant is essential for a smooth and efficient plant operation. Only in this way a reliable and trouble-free operation of your plants can be guaranteed. We ensure the minimization of your downtime costs.

HANS HENNIG creates an individual service concept tailored to your needs and offers a guaranteed supply of spare parts.

## Spare parts

You need a spare part urgently?

In our SAP-controlled warehouse we keep spare parts from various manufacturers on hand for you. This guarantees the shortest possible delivery times of e.g. gas pressure controllers, gas filters, solenoid valves and electrical as well as electronic components. This guarantees best efficiency and maximum improvement of your HANS HENNIG firing plant.



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