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A company combining
tradition and future



From blacksmith's forge to plant engineering and construction

When he established the company in 1934, Heinrich Nießing did not imagine that some 75 years later his business would have become a professional engineering and construction company for exhaust air plants. It all started in Borken-Marbeck not far from the Dutch border:

1934
Establishment of a blacksmith's forge for horse shoeing by Heinrich Nießing.

The 1950s
Sale and repair of agricultural machinery, first sales rep for „Fendt“ tractors.

The 1960s
The company gets involved in industrial manufacturing for the agricultural machinery sector.

The 1970s
Expansion into the field of mining equipment and development of Nießing's own product range.

The 1980s
Accreditation as a specialist welding company; construction of steel chimneys and flue gas installations for industrial and civil engineering projects throughout Germany as well as for export to many foreign countries.

... to the present day.

Further specialisation in the field of stainless steel processing. Prompted by the move towards turnkey provision of flue gas and exhaust gas plants, Nießing develops new silencing systems in cooperation with research institutes.

New and patented soundproofing systems extend the range of products. The integral „angular stack“ silencing concept receives several innovation awards.



Nießing provides the full range of services, from planning through to installation.

In the last 30 years Nießing delivered more than 3,000 plants and construction projects all over the world.

The team spirit and creativity of Nießing's staff and its partnerships with universities and research institutes enables the company to initiate various developments.



Quality sets the standard

Award-winning USP

Nießing is regularly audited by independent organisations (e.g. SLV Duisburg welding inspection, RAL Quality Assurance Association).

Official awards:

- 1999** Innovation Award Münsterland
- 2000** Professor Adalbert Seifriz Award
- 2001** Bavarian State Prize for Technology and Design
- 2001** IHK Award for Environmental Protection
- 2009** Daimler Environmental Leadership Award

Nießing is a cooperation partner and licensee of the Fraunhofer Institut für Bauphysik (IBP), Stuttgart and a member of RAL Quality Assurance Association. Nießing achieved a quality assurance label for structural steelwork and steel chimneys, including external annual monitoring. Furthermore Nießing is a member of the German Acoustics Association e. V. (DEGA) and the industrial association for chimney construction (IVS - Industrieverband Schornsteinbau).

The great potential of well trained and highly qualified staff ensures best results.



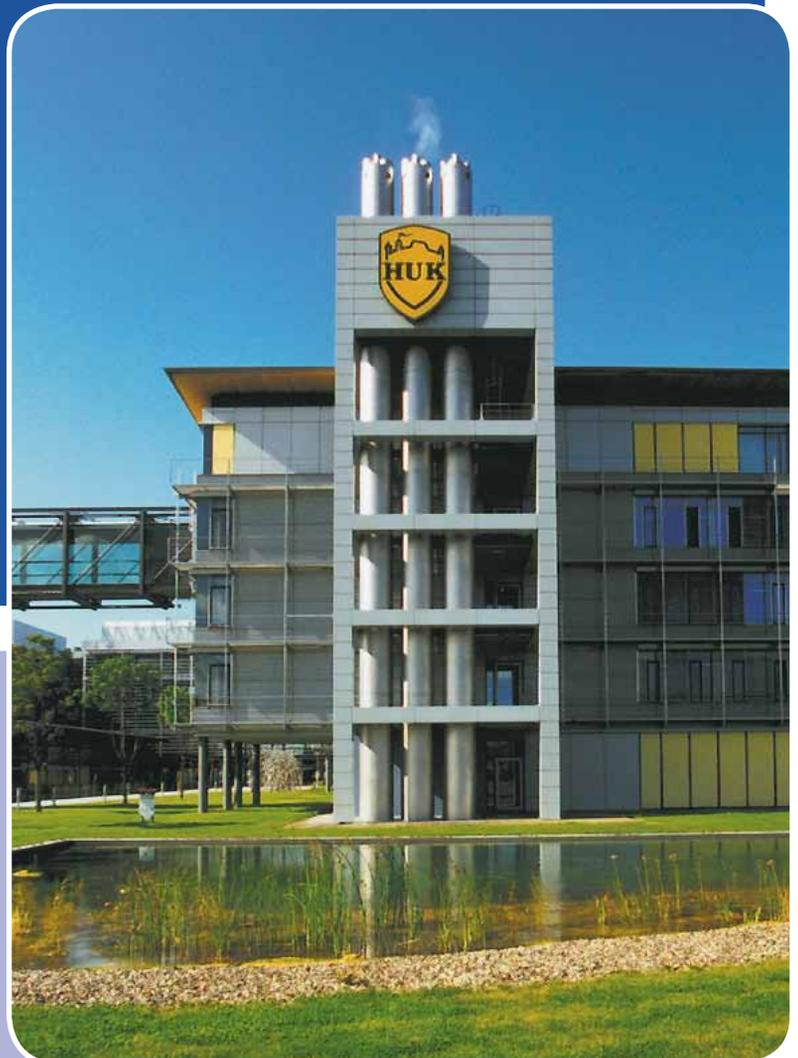


Harmony of the chimneys

Process air passes through turnkey exhaust air plants and steel chimneys. Nießing takes on the engineering, construction, production, commissioning, monitoring and maintenance of equipment for entire plants.

Best exhaust air plants
Nießing's steel chimneys are incorporated perfectly into the overall architectural appearance of industrial and commercial units. Often they are used as eye catchers.

Nießing plants fit their surroundings with a convincing aesthetic appearance.





Closed exhaust air systems



Bespoke flue gas systems cover far more components than chimneys: starting with the boiler or motor, Nießing offers complete systems with piping, compensators, shut-off valves and silencers.

Turnkey systems – such as engine test benches – are part of Nießing's core business.

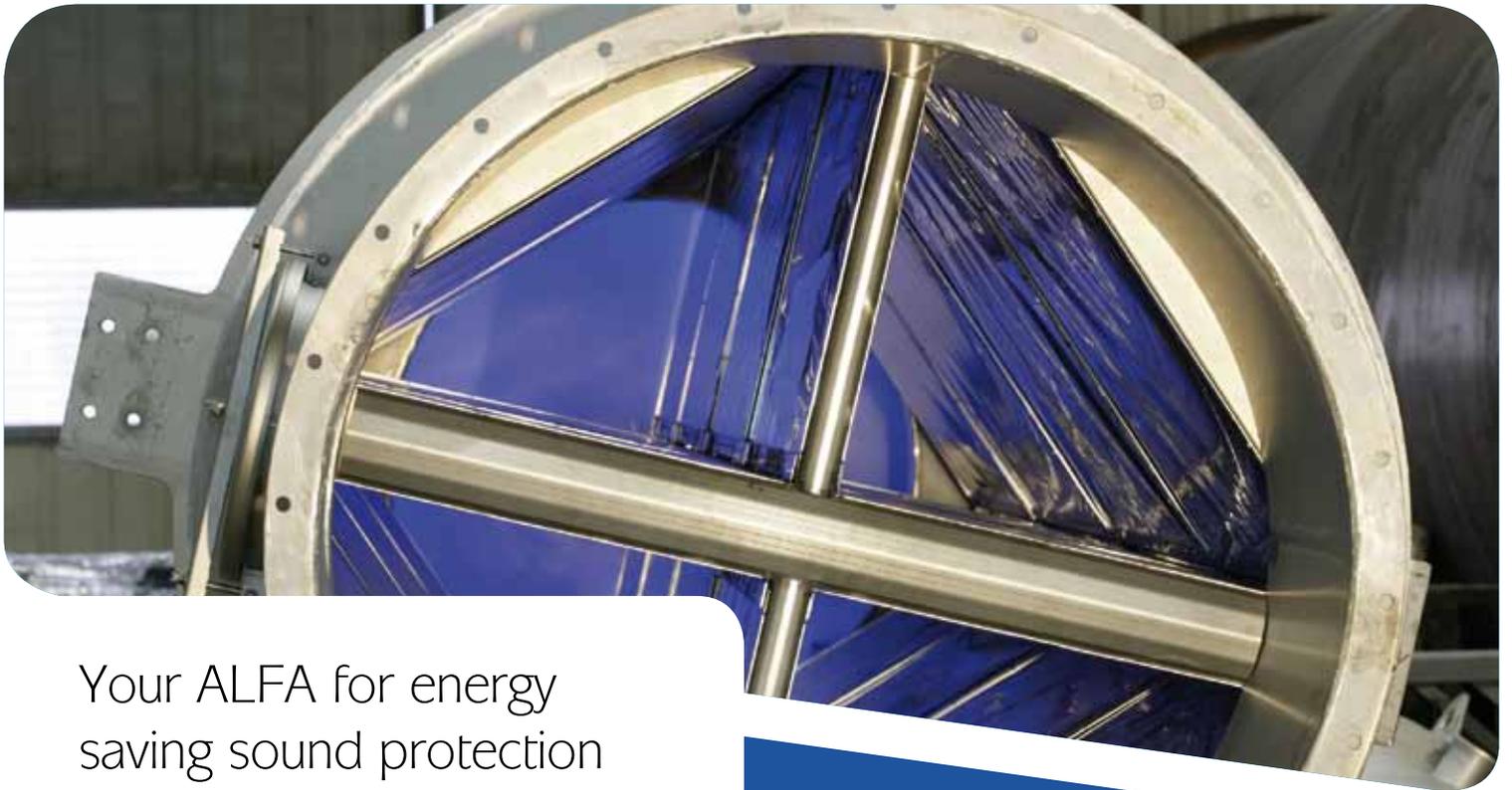


Steadfast safety

Slender, tall structures such as radio masts and steel chimneys are affected by lateral oscillation – due to regular vortex shedding or aerodynamic instabilities perpendicular to the wind direction.

Maintenance-free oscillation absorbers reduce lateral oscillation or eliminate it completely. Nießing developed these absorbers in cooperation with RWTH Aachen and the Fraunhofer Institut für Bauphysik (IBP), Stuttgart. Specific location characteristics (such as earthquake loads, seismic activity or strong wind events) are part of the calculation basis for construction.





Your ALFA for energy saving sound protection

Operators of power stations are more and more challenged to fulfil environmental requirements concerning noise emission.

In addition to conventional sound-proofing for exhaust gas and exhaust air systems, Nießing offers new silencer systems (ALFA principle - Alternative Fibre-Free Absorbers) developed in cooperation with the Fraunhofer Institut für Bauphysik (IBP), Stuttgart. They are very strong in attenuation of low frequency noise and in saving space and energy costs.



The volume resonators operate without any pressure drop. They are cleanable and attenuate low frequency noise.



Smooth plates that are capable of oscillation are integrated as angular stack silencers, which transform sound energy into vibration-/heat-energy. In addition, they are resistant to pollution. Flue gas and exhaust air systems therefore do not require any additional silencers.

Regular condition monitoring is required by law.



Monitoring

Condition monitoring

Nießing's highly trained experts inspect chimneys to ensure their safety. Nießing creates an expert report taking into account all relevant paperwork (such as statistical calculations, engineering drawings, photo documentation etc.).

Regular maintenance ensures the operational ability and safety of the facility, as any damage is detected at an early stage. This avoids the cost of a laborious overhaul, a complete system shut-down, or the need for a complete rebuild of the facility.

Sound level and frequency measurement

Good soundproofing requires good frequency measurement in order that noise emissions can be monitored and any necessary measures can be introduced where applicable.

Sound level measurements covering octave and third octave bands take place on site as well as in-plant.

Sound level measurement and frequency analysis.



Stainless steel as a convincing material CAD-supported construction and modern manufacturing methods enable Nießing to engage in all kinds of specialised pipe and container production.

Pipe manufacturing in particular is characterized by its extreme precision. Stainless steel sheet-metal production starts at 1.5 mm and is scalable. Steel pipe production covers all dimensions up to a diameter of 3,500 mm.

Nießing also manufactures functional containers which can be very unusual in terms of their shape and components. Small production runs and individual manufacturing complete the range of services on offer. Flexibility and reliability are common demands for all projects.



Stainless steel is renowned for its durability in many kinds of structures, from simple protective casings to highly complex terminals.



Stainless steel containers and casings



Individual manufacturing of tubes in various forms of stainless steel and mild steel.



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