



FLANGES . CLAMPING RINGS . BENDING PARTS

since 1987



ESKATE IS A **GLOBALLY** **ACTIVE SUPPLIER** FOR THE METAL-PROCESSING INDUSTRY

Our range of offerings includes cold-bent flanges made of steel and stainless steel, clamping ring systems, the full range of cold-formed steel and stainless steel shapes as well as welded sub-assemblies of mechanical parts.

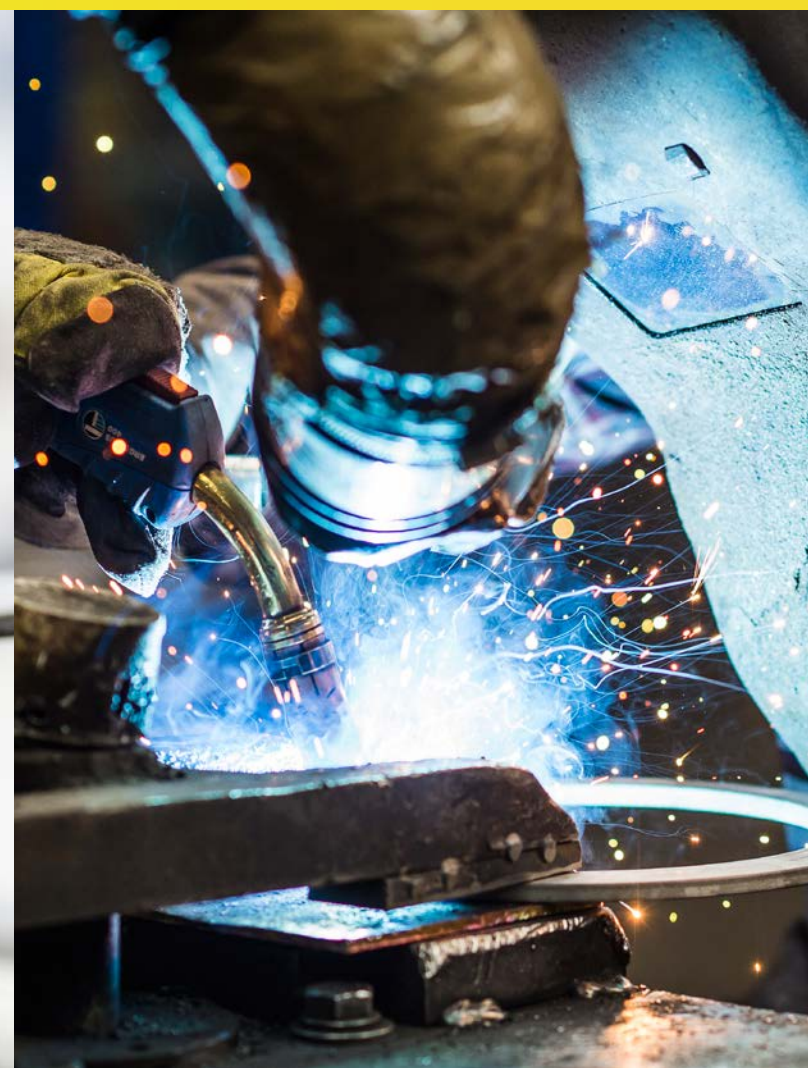
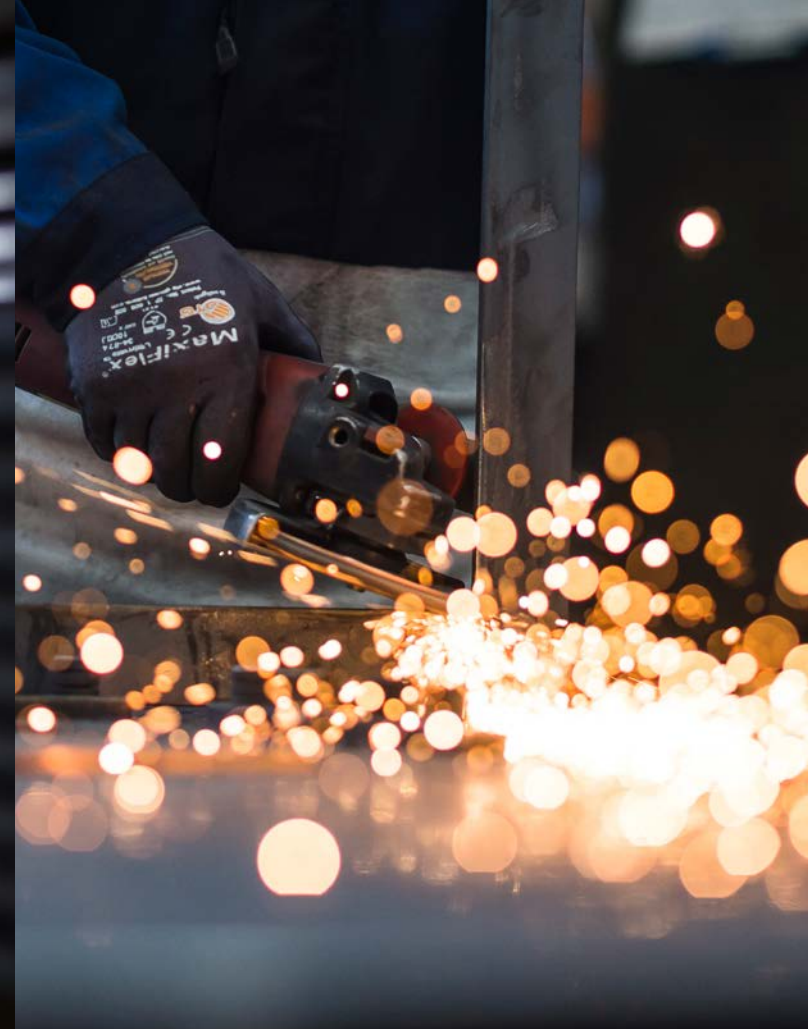
Quality, speed and **cost-efficiency** are the drivers of our day-to-day actions here. This is why we manufacture for you at our locations in Germany, Poland and the United Arab Emirates, and use our global supplier and customer network in order to do justice to your individual requirements at all times.

You as a customer are our main focus. We can count more than 1.500 companies worldwide among our customers. Many business relationships have developed over a period of years, and we will be delighted if you too are able to put your trust in us in future and grow along with us.

For over 25 years we have offered a fast, uncomplicated service and can be reached by you personally at any time. Simply give us a call or send us your enquiry.

We look forward to hearing from you.

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FLANGES

We manufacture and supply flanges in all dimensions and formats for ventilation and extraction systems, machinery and container construction and for shipbuilding, as well as many other areas of use specific to each customer. By developing our own machines and using the most up-to-date CNC technologies, we are able to offer our customers the full range of flange products, taking into account the efficient utilization of the material.

Bulk-oriented series production and customer-specific piece production are easy, quick and affordable for us to carry out. We continually stockpile common DIN and EN flange standards and customer-specific factory standards in raw, hot-galvanised and stainless steel versions so they are available for you on demand in our warehouse.

- › **Flat flanges** in accordance with DIN24154 (series 1–5) for ventilation systems
- › **Flat flanges** in accordance with EN12220 (series 1–5) for ventilation systems
- › **Angle flanges** in accordance with DIN24155 (series 2, 3, & 4) for ventilation systems
- › **Rectangular and square flanges** in accordance with DIN 24193
- › **Plate flanges** in accordance with DIN2573, 2576, 2641, 2642, 2632, 2633 (PN 6 – PN 40)
- › **Flanges for unpressurized vessels and machinery** in accordance with DIN 28031
- › **Flanges for ventilation systems on ships** in accordance with DIN 82330
- › **Flanges for ventilation systems on ships** in accordance with DIN 86044
- › **Special flanges and factory-standard flanges**

BE IT BIG OR SMALL, THICK OR THIN
WE BEND YOUR FLANGE IN NOMINAL
DIMENSIONS OF Ø 100 – 4000mm





ESKATE SAFE & SOLID® CLAMPING RING

STABILITY, SECURITY AND SPEED

The ESKATE SAFE & SOLID® clamping ring combines the utmost security with rapid assembly, and is your first choice if you place great emphasis on stability, security and speed. It boasts a particularly large contact face with the pipe and thus aligns the pipe's ends. This guarantees flawless utility performance at the pipe's connection points. Additional gas-shielded welding makes the SAFE & SOLID® even more secure.

It is certified as explosion-resistant for the following nominal dimensions:

- ND 100–400mm with 4.5 bar
- ND 450–630mm with 1.5 bar

In addition, the SAFE & SOLID® can be supplied with a safety catch that secures the closure against unintentional opening. Thus the clamping ring offers even more security. Last but not least, thanks to its rapid closure, the SAFE & SOLID® is very quick and easy to assemble on the pipe, and quick to release too. The ESKATE SAFE & SOLID® is available in sizes NW 100 – 630mm in three varieties:

- **SAFE & SOLID S** (short closure bracket)
- **SAFE & SOLID M** (medium closure bracket)
- **SAFE & SOLID X** (long closure bracket)

Thanks to the various different versions available, with the SAFE & SOLID® we offer the right clamping ring for virtually any area of use. Various systems and profiles can be combined with the closure – including your individual clamping ring profile, even if it exceeds the nominal dimension of 630.

CLAMPING RING SYSTEMS

We are a system supplier for clamping ring systems in all standard nominal dimensions and versions. Bulk-oriented series production and customer-specific piece production are easy, quick and affordable for us to carry out. We stockpile common standard dimensions and versions, as well as customer-specific factory standards, in galvanically zinc-coated and blasted stainless steel versions so they are available for you on demand in our warehouse.

Special clamping rings and factory standards

Alongside series production, we are particularly known for the development and manufacture of customer-specific special clamping rings, as well as special dimensions. Factory standards, intermediate sizes, or other custom-built models pass along our assembly lines at weekly intervals.

Over the last 25 years, the diverse possible applications for clamping rings and clamping ring systems have led to the development of numerous factory standards and custom-built models. Since each area of application is different, our draughtsmen work on the fitting and secure clamping ring profile as early as the development and problem-solving stage. This way, during the development we make sure you won't face any nasty surprises in subsequent series production.

We currently produce more than 400 different profiles on top-class CNC automated bending machines. Be it batch or series production, we find the best solution to merge your requirements with our profiles. Thus we strive to always achieve an affordable and efficient solution with the customer in mind.

Each one of our ESKATE® clamping ring types can be manufactured in special dimensions for you.



CLAMPING RINGS



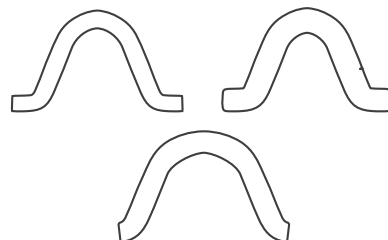
Clamping ring 1-part for 1mm pipe systems



This clamping ring type with integrated sealing insert is a simple and affordable pipe connection for the 1mm pipe systems.



Clamping ring 2-part for 1.2 and 3mm pipe construction



These clamping ring types with integrated sealing insert are for universal use, and with their special swivel joint closing technology are particularly easy to assemble even in hard-to-reach places and are thus quick and easy to use. A true all-rounder.



ESKATE® clamping ring for long and spiral pipes

The ESKATE® clamping ring is a newly developed clamping ring with a width of 45 mm for connecting long and spiral pipes with a beaded rim measuring 6 mm in height. In addition, this clamping ring is ideally suited to longitudinal seam-welded pipes. The one-part clamp boasts ribbing applied to the middle and is fixed in place using two screw joints.

EDGE-SEALING RINGS

We offer edge-sealing rings made of Perbunan / NBR (conductive), Keltan / APTK / EPDM (conductive) or silicon for an edge height of approx. 6 mm. Depending on the thickness of the pipe wall, we supply the seal in 1, 2 or 3 mm versions for all common nominal widths. Clamping rings for edge-sealing rings all have just one clamping ring profile for all three pipe wall thicknesses of 1, 2 and 3 mm and are more effective than conventional clamping rings. They offer greater resistance to penetration by dust and air, as well as a high level of resistance to heat, acids, oil vapours and fats.

Each one of our ESKATE® clamping ring types can be manufactured in special dimensions for you.



Clamping ring 2-part for edge sealing

This clamping ring type is universally applicable and, thanks to its special swivel joint closing technology, is particularly easy to assemble even in hard-to-reach places and is therefore quick and easy to use.



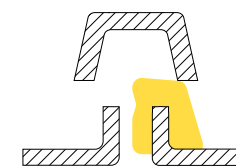
ESKATE® quick-close clamping ring for edge-sealing ring

The quick-close clamping ring for edge-sealing rings boasts a quick-close mechanism and a newly constructed fixed joint that is quick and easy to open and close with no tools required. It is therefore very easy to assemble.

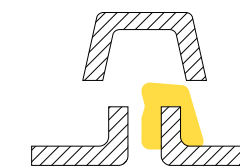


ESKATE® quick-close clamping ring SAFE & SOLID® for edge-sealing ring

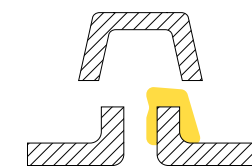
The ESKATE SAFE & SOLID® clamping ring combines the utmost security with rapid assembly, and is your first choice if you place great emphasis on stability, security and speed. Thanks to a flexible 360-degree joint and a stable quick closure, this clamping ring, which boasts additional spot and gas-shielded welding, can cope even with very high demands. In addition, the SAFE & SOLID® can be supplied with a safety catch that secures the closure against unintentional opening.



for 1mm pipe systems



for 2mm pipe systems



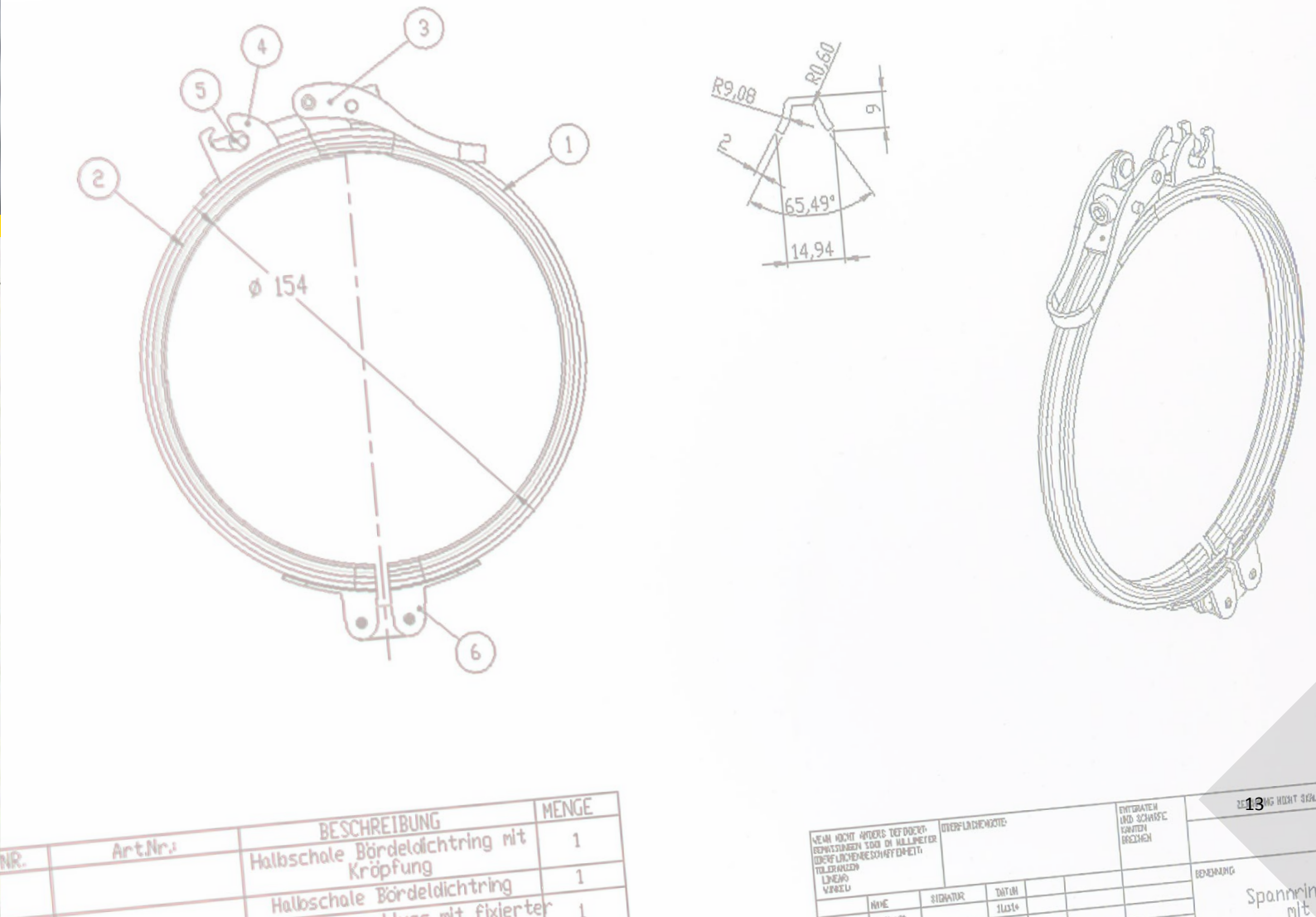
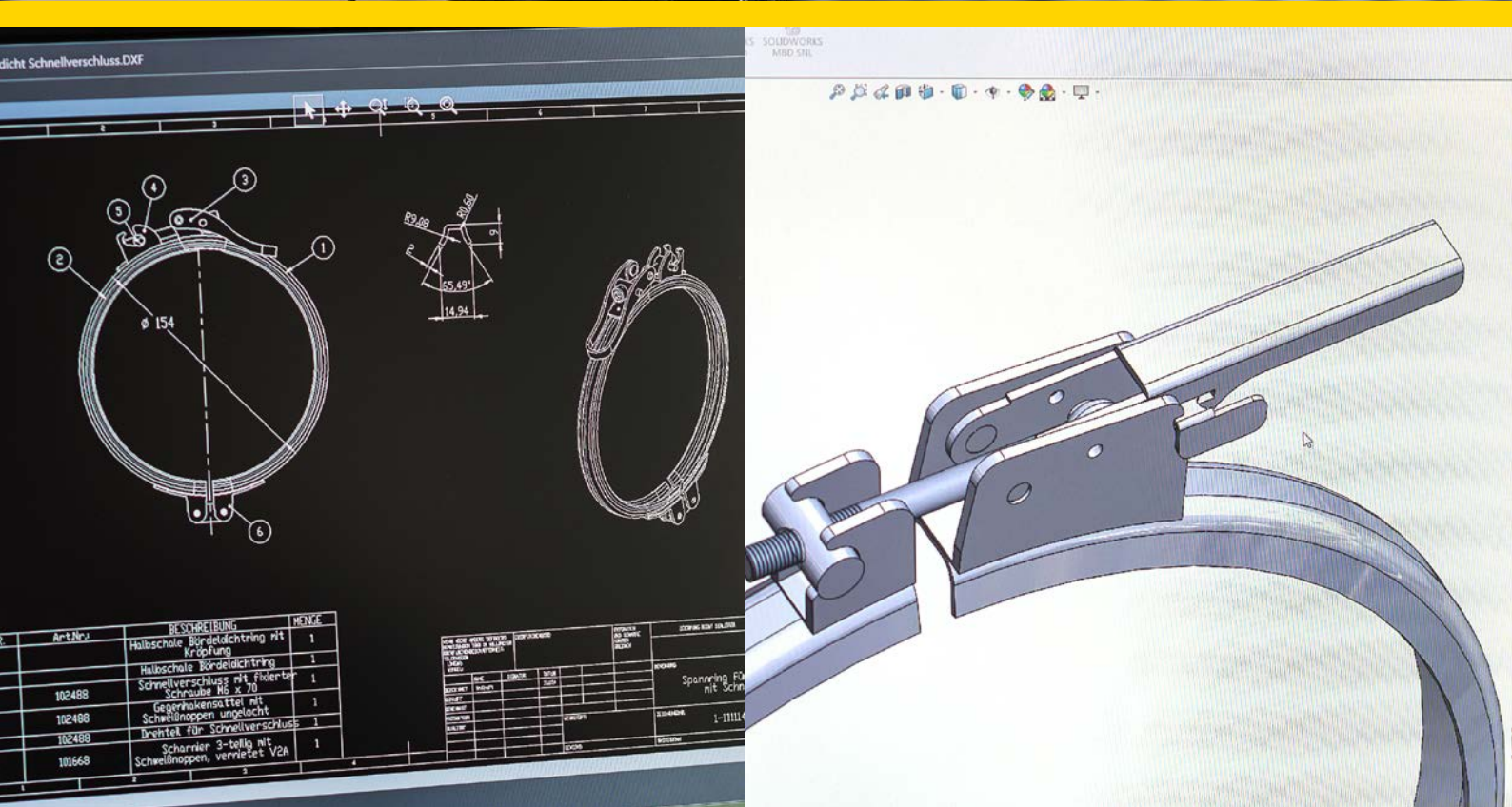
for 3mm pipe systems

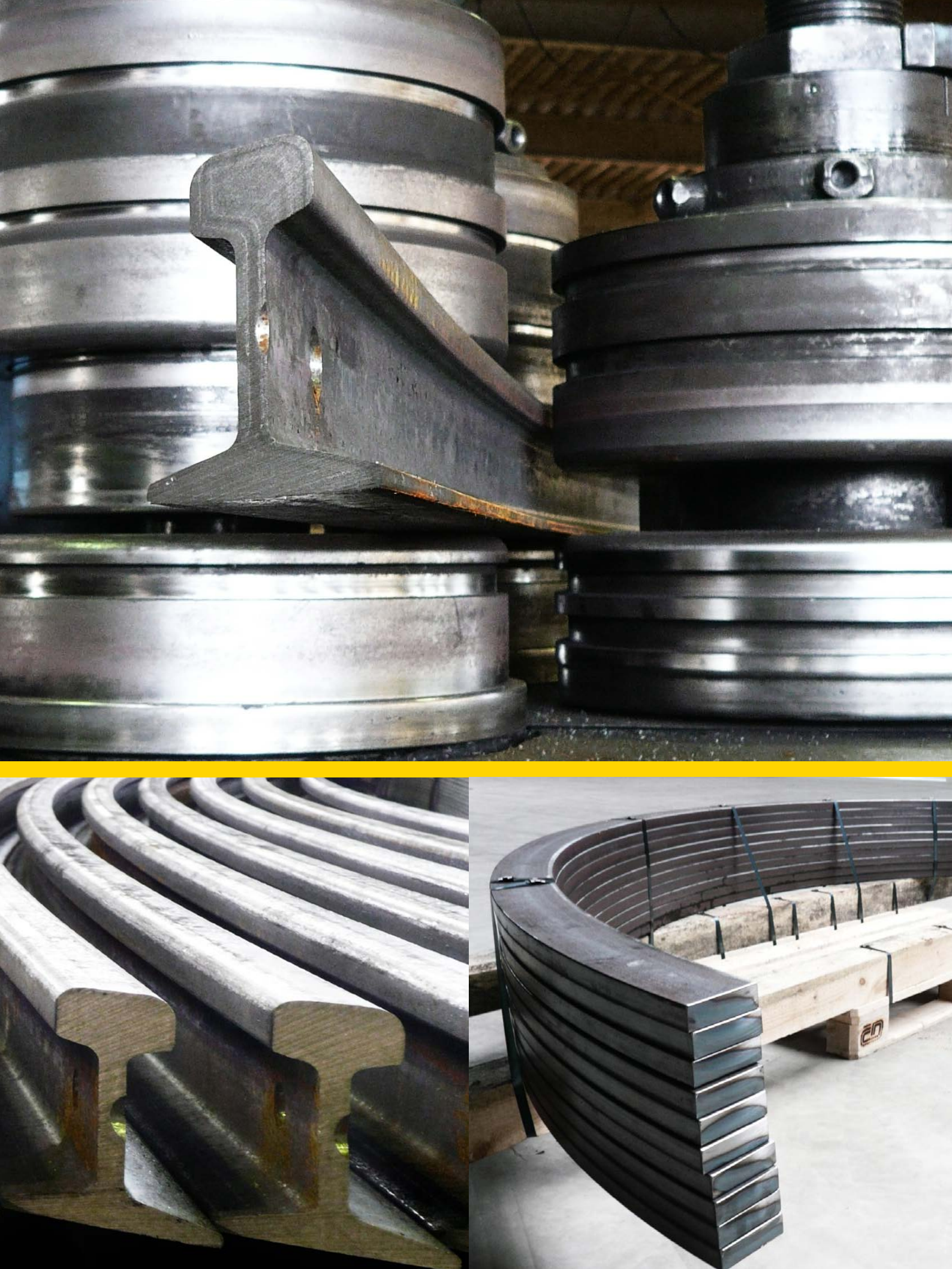
CONSTRUCTION AND DEVELOPMENT

We already produce more than 400 different clamping rings, which we have created together with our customers from various industries with very different product requirements. Regardless of whether it's for series or batch production, we develop the solution guaranteed to best suit you in order to design your product individually, economically and efficiently.

Particular preferences for special measurements are not uncommon to us and are developed and fulfilled by our designers in close contact with you. We are also happy to put your ideas or factory standards into practice in line with drawings provided.

Our special clamping rings are in use in radar stations, container closures, barrel closures, telegraph and broadcasting stations, charging terminals, and anywhere where media have to be conveyed within a pipe system.



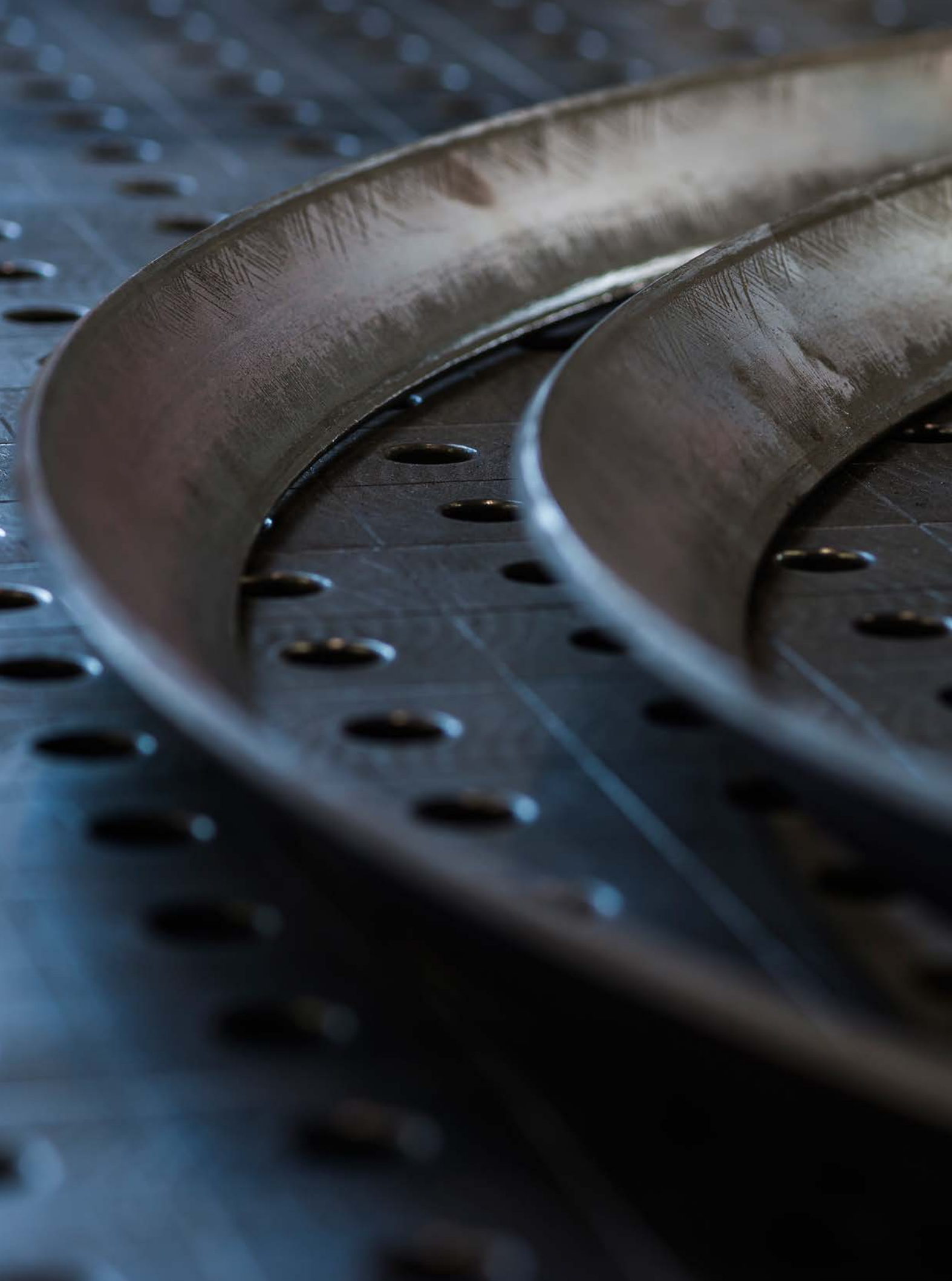


BENDING TECHNOLOGY

We have more than 25 years' experience in metal bending and comprehensive profile bending machinery, which all makes us an outstanding supplier for your projects. We bend special bending parts made of flat, profile, special and hollow steels, pipes and edged sheets and have already carried out profile bending projects for a wide range of purposes. Simply get in touch with us.

Bending profiles

Flat steel flange		Double T-steel vertical	
Square steel		Double T-steel horizontal	
Round steel		Round pipe	
Rectangular tube		T-steel with flange inward	
Angle steel with flange outward		T-steel with flange outward	
Angle steel with flange inward		T-steel upended	
Flat steel ring		U-steel with opening outward	
Square pipe		U-steel with opening inward	



OUR SPEED IS YOUR TRUMP CARD

On-demand orders ensure certainty in planning with immediate availability.

Thanks to our manufacturing processes and the continuous availability of raw materials, we are able to produce flanges, rings, bands, clamping rings and collars within a very short timeframe. As we do so, the entire value creation chain remains seamlessly in our hands. This creates speed at the same time as reducing costs. We complete series and call orders in line with the customer's requirements and store these specifically for our customers.

This way we guarantee your preferred delivery date even when you order.

The goods leave the factory even on the same day as the blanket purchase order is placed. At the same time, we protect you as a system supplier from any delays in supply for your international projects, in your automated further processing, or in the onward sale of our products. For this purpose, we offer our customers comprehensive global delivery by means of our own methods of transport, or via sea or air with the help of longstanding, selected logistics partners.

4000 storage bins





QUALITY – FAST, FLEXIBLE AND GLOBAL

Storage and logistics

- › All common DIN / EN standards are continually available from the warehouse
- › Individual call orders and storage of factory standards
- › Over 4000 Euro-pallets – holding spaces on six levels
- › ERP-supported warehouse administration in real time
- › Very short delivery times
- › Immediate access to the primary material
- › Efficient logistics with renowned logistics partners and the company's own fleet
- › International shipping and customs clearance

Quality management

- › ISO 9001:2008 certified
- › High quality standards, thanks to continuous checks in the individual manufacturing levels
- › Carefully selected, high-quality primary materials
- › Quality end controls before storage and/or before dispatch to the customer
- › Ultrasound check
- › Surface crack testing with penetrant





OTHER FINISHING OPTIONS

Materials

Non-alloy construction steel

- > 1.0038 (St-37-2 / S235JRG2)
- > 1.0570 (St52-3 / S355JR)

Pressure vessel construction steel

- > 1.0425 (HII-P265GH)
- > 1.5415 (16Mo3)

Stainless steel

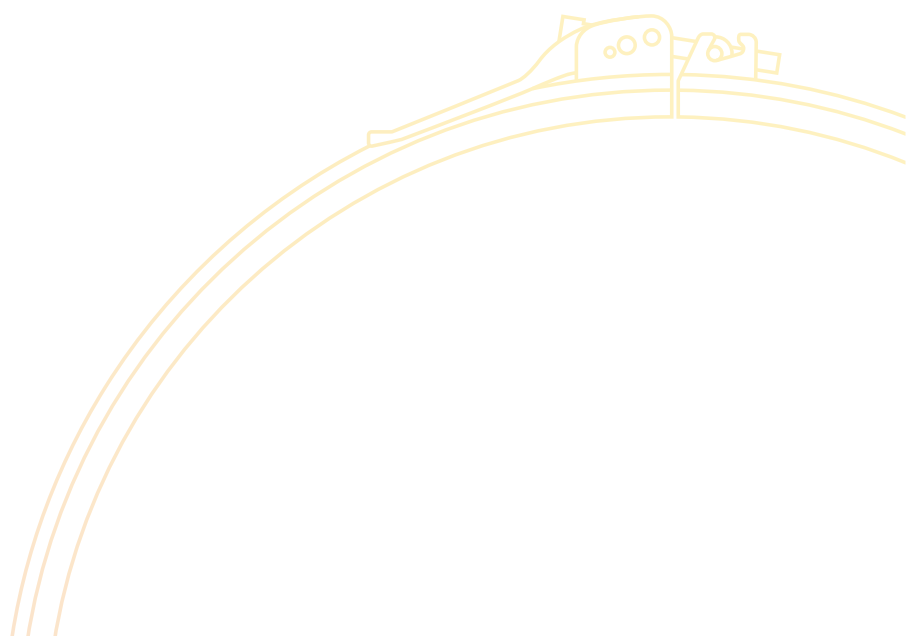
- > 1.4301 (X5CrNi-18-10)
- > 1.4307 (X2CrNi18-9)
- > 1.4541 (X6CrNiTi18-10)
- > 1.4571 (X6CrNiMoTi17-12-2)
- > 1.4404 (X2CrNiMo17-12-2)
- > 1.4828 (X15CrNiSi20-12)
- > 1.4841 (X15CrBiSi 25-21))
- > 1.4539 (X1NiCrMoCu25-20-5)
- > 1.4462 (X2CrNiMoN22-5-3/-)

Aluminium

- > 3.3206 (AlMgSi0,5/EN AW-6060)
- > 3.3535 (AlMg3/EN AW-5754)
- > 3.3547 (AlMg4,5/EN AW-5083)

Versions and finishes

- > Polished
- > Stained
- > Chrome-plated
- > Smoothed
- > Sand-blasted
- > Bead-blasting
- > Metal-shot-blasting
- > Hot-galvanized in line with DIN EN ISO 1461
- > Galvanically zinc-coated in line with DIN EN 12329 and DIN 50979
- > Powder-coated in RAL colour tones



Firing and laser technology, water-jet cutting



With cutting-edge stamping, firing and laser technology systems, as well as water-jet cutting, we offer you the possibility of producing segment parts, round plates and pressed flanges, for example, with minimised sheet thickness, the utmost precision and an affordable price.

CNC manufacturing technologies



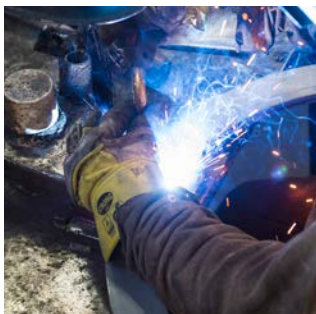
In these business areas too, we are able to guarantee the utmost quality. We use cutting-edge machinery to manufacture a broad range of individual parts, series parts and modules for the mechanical and plant engineering industry, as well as to produce machine and special tools. We also take charge of coordinating further production levels subsequently.

Surface processing



Many of the products we develop and produce are given a special finish, not merely for aesthetic reasons, but often because they need to be extremely weather-resistant and are exposed to other mechanical stresses. Protection against corrosion and wear and tear is therefore essential.

Welding



We weld every common form of steel, stainless steel or aluminium using WIG / MIG – MAG welding processes and have the capacity to weld sheets up to 3 mm in thickness and 1,000 mm in length, as well as pipe diameters of up to 1,000 mm longitudinally. Welded modules are an integral part of our special services.



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