



**GREEN
STEEL**
GMH GRUPPE



RELIABLE STEEL. PROVEN BRANDS.

Open-die forging, ring rolling and tool steel from
Schmiedewerke Gröditz, Kind & Co. and Buderus Edelstahl



GMH GRUPPE

Three specialists,
one promise:
**quality,
precision and
reliability.**



With **Schmiedewerke Gröditz**, **Kind & Co.** and **Buderus Edelstahl**, three long-established steel specialists work closely together within GMH Gruppe – so customers benefit from a broader portfolio, stable supply and reliable delivery. Open-die forging, rolled rings, tool and engineering steel are coordinated across the group, offering high-quality solutions from a single, dependable industrial partner.

STRONGER TOGETHER – FOR YOU.

This close cooperation strengthens what matters most to our customers: continuity of supply, clear responsibilities and planning security.



OPEN-DIE FORGING

Our open-die forgings are manufactured for applications where material integrity, dimensional accuracy and reliability are critical.

High-purity ingots with a homogeneous structure and excellent wear and corrosion resistance are formed into semi-finished components through up-setting. Elongating and further forging operations. The material is precisely shaped using presses, saddles and dies – to meet the required geometry and properties.

With open-die forging presses from 10 MN up to 60 MN, we cover a broad range of dimensions and requirements – from individual components to demanding large forgings.

PRODUCT AND SIZE RANGE

- Shaft-shaped components – forged parts up to Ø 2,000 mm and length up to 14,500 mm
- Disk-shaped components – up to Ø 4,000 mm, thickness up to 1,500 mm

FOCUS AREAS

- Generator shafts, steam turbine shafts and other components for power generation
- Highly demanding forging made of stainless steels
- Shaft-shaped forgings for mechanical engineering
- Tailor-made tool steel forgings, such as die bolsters, rings, offset forged pieces, wear resistant dies
- Component weight range: up to 42 metric tons

KEY STRENGTHS

- Extended product coverage through coordinated production across group locations
- High flexibility in dimensions and quantities
- High-quality heat treatment to achieve optimized mechanical properties
- Decades of experience in open-die forging
- Manufacturing according to customer specifications, including quality assurance and material testing
- Fully integrated processes: melting, forging, heat treatment and machining – from a single industrial partner

“With Schmiedewerke Gröditz, Kind & Co. and Buderus Edelstahl, we bring together proven expertise – giving our customers one reliable point of contact for demanding steel solutions. Together, we stand for quality, precision and reliability.”

Alexander Ungerechts, Sales Director OFM, GMH Gruppe





TOOL STEEL

Our tool steel are used for the manufacture of tools, moulds, and standard components, for example in aluminium die casting or plastic injection moulding. The portfolio includes high-quality plastic mould steels, die steels, hot work steels for die casting and extrusion, as well as stainless steels - available in annealed or quenched and tempered condition.



RING ROLLING MILL

As one of the world's leading manufacturers of seamless rolled rings, we supply high-quality ring blanks, flanges and wheel tires for demanding industrial applications. Our production combines state-of-the-art press and rolling technology with extensive material expertise - ensuring consistent quality and reproducibility

Close cooperation within the GMH Gruppe enables the supply of tool steel solutions from tailor-made grades for specific applications to large-scale serial production. Customers benefit from flexibility, consistent quality, and reliable delivery - from a single industrial partner.

FOCUS AREAS

Complete tool steel portfolio:

- Cold work steels
- Hot work steels
- Plastic mould steels

High purity, toughness, and wear resistance

Processing: heat treatment, pre-material, cutting, logistics

Weight range: 20kg up to 40 tons

KEY STRENGTHS

- Combination of three production sites providing maximum production depth
- One-stop solution - from ingot to pre-material to finished and hardened tool
- Technical consulting and customized material recommendations
- Comprehensive quality assurance and traceability
- Heat treatment including quenching in polymer and water
- Hardening service: vacuum hardening furnaces up to 2,500 mm length for optimization of mechanical properties
- High service level
- International distribution network

Billet or continuously cast material is processed into precisely preformed ring blanks using piercing and preforming presses. These blanks are then rolled on radial-axial rolling mills to outer diameters of up to 4,000 mm.

Subsequent, application-specific heat treatment and machining ensure components meet exact customer specifications.

SPECIFICATIONS

- Outer diameter: up to 4,000 mm
- Height: up to 600 mm
- Weight: up to 4,000 kg

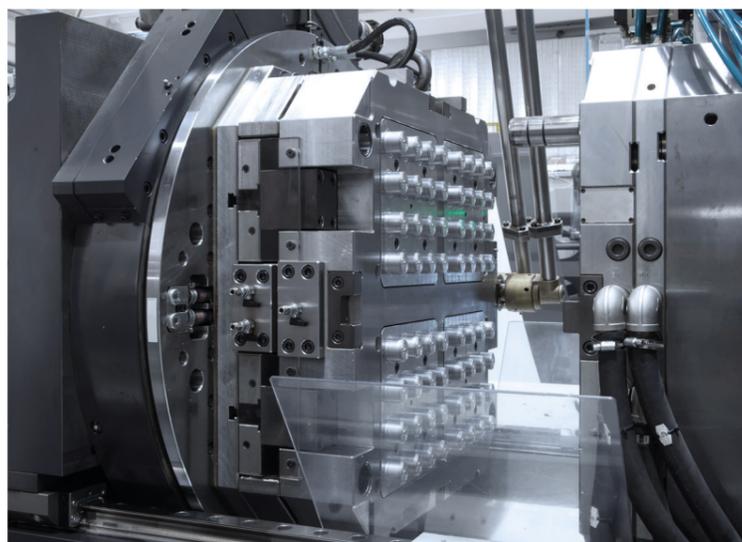
OUR PORTFOLIO

- Die rings
- Wheel tires
- Flanges
- Drill pipe connectors
- Gear blanks
- Bearing and slewing rings
- Tool steel rings
- Rings for energy machinery

Die rings are used, among other applications, in pelletizing systems. We manufacture them from a wide range of materials such as X46Cr13 (1.4034) and 20MnCr5 (1.7147), as well as additional grades by agreement.

FURTHER PROCESSING

We offer a broad spectrum of heat treatments - from quenching and tempering, normalizing and soft annealing to solution annealing and customized treatments - along with extensive machining options including turning, drilling, milling and grinding.





QUALITY & SUSTAINABILITY

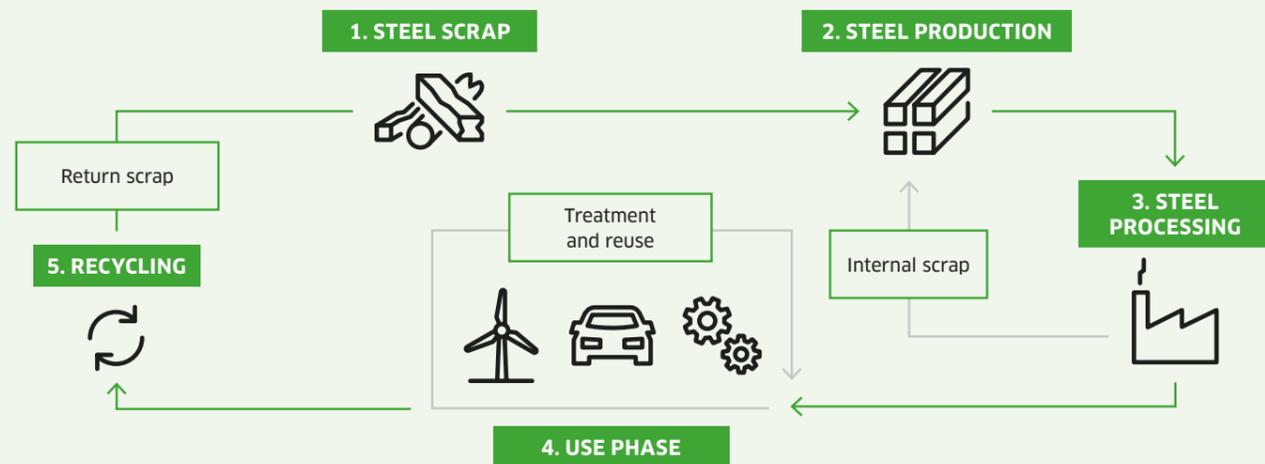
FOCUS AREAS

- Build-to-order production according to customer requirements
- Compliance with applicable standards and customer specifications
- Highly specialized material laboratory and testing capabilities
- Production with a high proportion of recycled material
- Energy-efficient forging and rolling processes
- Use of heat recovery systems and electric arc furnace (EAF) technology



GMH Gruppe has been recognized by the Climate-Protection and Energy-Efficiency Association of the German Economy for its contribution to climate protection and energy efficiency and has been admitted to the group of Climate-Protection Businesses.

GMH Gruppe is one of 51 Climate-Protection Businesses in Germany, officially recognized by the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection, the Federal Ministry for Economic Affairs and Climate Action, and the German Chamber of Commerce.



Our steel is produced from 100% scrap melted in electric arc furnaces. Compared to the conventional blast furnace route, melting one tonne of scrap saves approximately 1.6 tonnes of CO₂.

Each tonne of steel produced at GMH Gruppe corresponds to the CO₂ emissions of a passenger car driving approximately 7,000 kilometers. In addition, return scrap such as metal chips and sawing waste is reused, reducing waste disposal by approximately 10%.





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