



Our products keep the world moving

Rolled, forged or casted:
The portfolio of GMH Gruppe at a glance



The best solution from one single source

Products and applications made of GMH Gruppe steel secure valuable competitive advantages for our customers. The combined expertise of our in-company specialists, short distances as well as efficient processes enable us to produce precise results to fulfil the highest requirements, along the entire value chain – from our materials through to ready-to-assemble components.

Raw material cycle: 100% scrap as foundation

At GMH Gruppe scrap is the basis for our steel production: Our steel is melted down from 100% scrap. This makes our raw material recycling the central hub of our sustainable circular economy - not only at the individual site, but across all sites within the GMH Gruppe.

Steer bar, rolled

Short routes, highly efficient processes: we supply our steel bar quickly, flexibly and reliably – produced with high accuracy and tailored individually to our customers' requirements. GMH Gruppe steel bar is also notable for its good surface quality, tight dimensional tolerances, optimum chemical composition and hardenability, and good micro- and macro-cleanness.

Bright steel

Around the world, peeled bright steel supplied by GMH Gruppe forms the basis for high-tech components. At all our locations, our specialists work together on meeting our customers' requirements precisely – from high-quality feed material up to and including ready-to-use components.

Special profiles

Our special profiles are tailor-made products, the geometry and chemical composition of which precisely match the customer's specifications. They are individually produced to assure outstanding materials properties, from straightness and flatness, via bar or item length, up to and including outstanding surface quality.

CNC components

CNC components are distinguished by the ultra-high accuracy of their production. High-precision control technology enables us, particularly in the case of complex geometries, to produce work exactly to the customer's requirements – and with absolute accuracy of repetition.

Steering-system components

We develop and manufacture forged i-Variable as well as i-Constant steering racks, blanks, semi-finished parts, in small and large production volumes, plus valuable prototypes. In addition, we support our customers in after sales market. One of MVO's special strengths are ready-to-install steering racks with a variable toothing geometry for optimal gain curve and with the most diverse range of rack cross-sections.



A wide range of products for individual requirements

We are a reliable full-range supplier and at the same time one of the top-5-forging-groups for large and heavy components in Europe. Products and applications of GMH Gruppe are as diverse as their possible uses. Whether series or individual production. GMH Gruppe offers versatile forging and casting expertise.

Closed- and Open-die forgings

Closed- and Open-die forgings supplied by GMH Gruppe meet the most exacting customer requirements in terms of material properties, precision and dimensional accuracy. These parts are used, in particular, in machines and equipment for the energy sector, in high-output engines, as components of storage and transport casks, and in numerous other sectors, including general mechanical and plant engineering, mobility and power generation.

Seamless rolled rings

We produce seamless rolled rings, flanges and rail-vehicle tyres to the very highest standards. This expertise has made us the world-leading manufacturer of ring blanks for the animal feeds industry, wheel tyres for the rail industry and drill-pipe connectors for specialized underground engineering.

Crankshafts

Our Crankshafts are supplied finish-machined from non-machined items weighing up to 50 tonnes – manufactured precisely to customer specifications, thoroughly quality-checked and ready to install. Our crankshafts are used as components in high-output engines, general mechanical and plant engineering, and in numerous other sectors, including energy, pumps & compressors.

Rotor retaining rings

Rotor retaining rings are the most heavily loaded components in turbo-generators. High-quality steel is remelted in highly efficient electroslag remelting (ESR) furnaces and shaped in our open-die forging facilities. Rough-turned, heat treated, cold expanded, stress-relieved, finish turned, ultrasonically and/or dye penetrant inspected, tested and then packed, our rotor retaining rings assure our customers of safety where safety is critical.

Tool steel

From more than 300 material grades in over 2,000 variants, we produce customized tool steels of excellent cleanliness, in specially developed variants, with extremely homogeneous and fine-grained microstructures, and with high-quality surfaces and sharp edges.

Iron – and Steel castings

We bring the right experts together for excellent results from iron- and steel-castings. Close cooperation with the customer, comprehensive development and materials expertise as well as the flexibility and proficiency to meet complex requirements are what sets us apart. We fulfil customer requests with precision, including where quality and supply logistics are concerned.

Products of GMH Gruppe

Business Unit Mobility

Georgsmarienhütte GMH GRUPPE



CAST INGOTS

Formats

- Ø 710 mm to 760 mm, square, octagonal, 16-gonal, polygonal

Weight

- 3,500 kg to 44,000 kg



SHORT LENGTHS INCL. PREMACHINING

Dimensions

- Ø 18 mm to 125 mm

Length

- 50 mm to 3,000 mm



BLOOMS AND BILLETS

Formats

- 165 mm x 165 mm, 200 mm x 200 mm, 245 mm x 245 mm

Length

- 3,500 mm to 7,000 mm and 2,700 mm to 13,000 mm



CNC COMPONENTS

Dimensions

- Based on component drawing

Length

- Based on component drawing

Stahl Judenburg GMH GRUPPE



ROLLED STEEL BAR

Dimensions

- Ø 10 mm to 120 mm

Length

- Up to 6,500 mm



BRIGHT STEEL

Dimensions

- Ø 10 mm to 120 mm

Length

- Up to 6,500 mm



BRIGHT STEEL IN SHORT LENGTHS

Dimensions

- Ø 18 mm to 125 mm

Length

- Up to 3,000 mm



ROLLED STEEL BAR

Dimensions

- Ø 20 mm to 126 mm

Length

- 6,000 mm to 10,000 mm



BRIGHT STEEL

Dimensions

- Ø 18 mm to 125 mm

Length

- Up to 12,000 mm



PISTON RODS & CNC COMPONENTS

Dimensions

- Ø 10 mm to 120 mm

Length

- Up to 6,500 mm

Business Unit Industrials

Stahlwerk Bous GMH GRUPPE



CAST INGOTS

Formats

- Round and cornered

Weight

- 3 t to 62 t



BLOOMS AND BILLETS

Dimensions

- Round: Ø 310 mm, 370 mm, 406 mm, 430 mm, 500 mm
- Square: 320 mm x 280 mm and 430 mm x 320 mm

Delivered lengths

- 2,7 m to 11,5 m



CAST INGOTS

Dimensions

- Round, square, polygonal
- Conventional or ESR

Weight

- 1 t to 78 t



FORGED STEEL BAR

Dimensions

- Flat: W 500 mm to 2,000 mm, H 100 mm to 1,200 mm
- Square: from 300 mm to 1,300 mm
- Round: Ø 250 mm to 1,400 mm

Weight

- 1 t to 56 t

Energietechnik Essen GMH GRUPPE



ROTOR RETAINING RINGS

Dimensions

- Ø 430 mm to 2,200 mm

Weight

- 15 kg to 4,300 kg



HIGH NITROGEN STEEL (HNS)

Dimensions

- Steel bar: Ø from 2 mm to 350 mm
- Sheet: thickness from 3 mm to 20 mm
- Wire rod: Ø from 5.5 mm to 21 mm

Minimum order quantity

- 700 kg to 1,400 kg per size lot



OPEN-DIE FORGINGS

Dimensions

- Shafts: Ø up to 2,000 mm
- Discs: Ø up to 4,000 mm

Weight

- 500 kg to 45 t



SEAMLESS ROLLED RINGS

Dimensions

- Outside diameter: < 4,000 mm
- Height: < 600 mm

Weight

- Up to 4,000 kg


**MVO
GMH GRUPPE**

AS-ROLLED PRODUCTS

- Dimensions**
- Ø 22 mm to 35 mm
- Length**
- 500 mm to 1,100 mm


SEMI-FINISHED PRODUCTS

- Dimensions**
- Ø 22 mm to 35 mm
- Length**
- 500 mm up to 1,100 mm


READY-TO-INSTALL STEERING RACKS

- Dimensions**
- Ø 22 mm to 35 mm
- Length**
- 500 mm up to 1,100 mm


**GeisslerWista
GMH GRUPPE**

BRIGHT STEEL

- Dimensions**
- Ø 20 mm to 220 mm
- Length**
- 3,200 mm to 11,000 mm and 3,500 mm to 26,000 mm


MANDREL BARS

- Dimensions**
- Ø 80 mm to 250 mm
- Length**
- 3,500 mm to 26,000 mm


INDUCTIVELY HARDENED SHAFTS

- Dimensions**
- Ø 20 mm to 140 mm
- Length**
- 500 mm to 11,000 mm or 18,000 mm


STOCKHOLDING TRADER

- Dimensions**
- Ø 5 mm to 220 mm
- Length**
- 3,000 mm to 6,500 mm


**Mannstaedt
GMH GRUPPE**

SPECIAL PROFILES - LIGHT SECTIONS

- Dimensions**
- Width up to 180 mm
 - Thickness from 2 mm
 - Lengths up to 18,000 mm
- Weight**
- 2 kg to 35 kg/m


SPECIAL PROFILES - HEAVY SECTIONS

- Dimensions**
- Width up to 400 mm
 - Thickness from 6 mm
 - Length up to 24,000 mm
- Weight**
- 15 to 180 kg/m


**Recycling
GMH GRUPPE**

SCRAP

- Steel scrap
- Special-grade scrap
- NF-metals scrap
- Foundry scrap
- Alloyed steel scrap
- Grinding sludges


**WSK
GMH GRUPPE**

CLOSED-DIE FORGINGS

- Dimensions**
- Outside diameter up to 1,250 mm
 - Length: up to 4,500 mm
- Weight**
- 70 kg to 3,500 kg


CRANKSHAFTS

- Dimensions**
- Max. swing diameter: 2,000 mm; length: up to 13,000 mm
- Weight**
- Up to 50 t


MACHINING

- Dimensions**
- Max. swing diameter: 2,000 mm; length: up to 13,000 mm
- Weight**
- Up to 50 t


**Schmiedag
GMH GRUPPE**

CLOSED-DIE FORGINGS

- Dimensions**
- Outside diameter up to 750 mm
 - Length: 150 mm to 1,500 mm
- Weight**
- 5 kg to 450 kg


MACHINING

- Dimensions**
- Outside diameter up to 750 mm
 - Lengths up to 1,500 mm
- Weight**
- 5 kg to 450 kg


**Harz Guss Zorge
GMH GRUPPE**

IRON CASTING

- Dimensions**
- To customer specifications (max. 700 x 550 x 450 mm) in EN-GJL, EN-GJS, EN GJV, EN-GJS-XSIMo, EN-GJS-XNiResist (D5S)
- Weight**
- 3 kg to 130 kg


**Pleissner Guss
GMH GRUPPE**

STEEL CASTING

- Dimensions**
- Max. mould size: 4,500 mm x 4,500 mm
- Weight**
- 25 kg up to 10,000 kg





GMH GRUPPE

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Contact persons for the respective locations and product groups can be found on our website.