

# Crude steel that's as individual as your business

Customised properties, reliable delivery



**GMH GRUPPE**



# Variety from a single source – the basis for tailor-made steel

**Crude steel from the GMH Gruppe is produced according to customer requirements. A wide range of metallurgical concepts, well-founded expertise in production within even the most precise analytical limits, and a wide range of mould formats and billet dimensions make us your first contact for made-to-measure crude steel.**

Maximum analytical accuracy and optimum melts mean that ingots and billets from the GMH Gruppe are products manufactured precisely to specification. We meet national and international quality standards. Batch sizes of 60 or 120 tonnes offer forges and rolling works a high level of flexibility. The wide range of performance and products at the steelworks in Bous and Georgsmarienhütte enable the manufacture of numerous grades and dimensions, ensuring that you obtain the best solution for every task: steel as you want it.

## **More efficient processing**

We stock a wide range of ingot sizes and shapes in Bous and Georgsmarienhütte. They can also be combined within a single batch – providing our customers with even more flexibility and a strong competitive advantage. Logistics that have matured over decades, including the transport of molten steel, accelerate processes and keep paths short – from north and south Germany to Europe's most important markets.

## **Our aspiration: to lead the way**

### **Your first contact**

We want to be your first contact. So we offer a particularly wide range of solutions that may not be available in this form elsewhere. For example, round cast steel formats for tubes and pipes. Or optimised crude steels for renewable energy, rail technology, and maritime applications.

### **Leading sustainability**

Leading the way is also always our objective when it comes to taking responsibility. We are committed to leading the way with our certified quality, environmental and energy management: the filter plant in Bous is one of the most powerful worldwide. Georgsmarienhütte GmbH was the world's first steelworks to be designated a 'Climate Protection Company'.





## Georgsmarienhütte GmbH

### 160 years' expertise

Steel from Georgsmarienhütte has been providing answers to the dynamic questions of the market for more than 160 years - with crude steel that is cast into ingots after secondary metallurgy with a batch weight of about 120 tonnes, or cast into blooms via the 6-strand continuous caster.

#### Range of materials

- Tempered steels
- Case-hardened steels
- Rolling bearing steels
- AFP steels
- Tool steels
- Other material types on request

#### Dimensions/lengths

##### Billets

- 165 x 165 mm<sup>2</sup> and 245 x 245 mm<sup>2</sup> (square bars)
- Delivery lengths: 3.5 to 7 m

##### Ingots

- Weight: 3.5 to 44 tonne ingots for open-die forging
- Shape: 4-edge, 8-edge and 16-edge
- Slab formats

We would be pleased to provide our **mould formats**. Simply contact us.

#### Certification

- IATF 16949
- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001

#### Approvals/classification companies

- Bureau Veritas (BV)
- Det Norske Veritas and Germanischer Lloyd (DNV, GL)
- State Material Testing Office, Saxony-Anhalt
- Lloyd's Register of Shipping (LRS)
- RINA
- ABS

- Technical Standards Association (TÜV) with the additional approvals TRD 100 and AD 2000
- TÜV Pressure Equipment Directive

#### Attestations

- Certification acc. to DIN EN 10204
- Factory certification 2.2
- Acceptance test certification 3.1 and 3.2
- Sampling acc. to PPAP and VDA



Georgsmarienhütte  
**GMH GRUPPE**

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## Stahlwerk Bous GmbH

### A wide range of primary materials

The main strengths of the Bous site include its comprehensive mould collection, its wide range of ingot and continuous casting formats – with more than 800 steel grades and a batch weight of about 60 tonnes – as well as its processing using annealing, cropping or grinding.

#### Range of materials

- Tempered steels
- Case-hardened steels
- Rolling bearing steels
- AFP steels
- Hot-forming steels and tool steels
- Stainless steels
- Other material types on request

#### Dimensions/lengths

##### Billets

- Round: 310mm, 370mm, 406mm, 430mm and 500mm
- Rectangular: 320 x 280mm and 430 x 320mm
- Delivery lengths: 2.7 to 13.0m

##### Ingots

- Weight: 1.5 to 62 tonne ingots
- Shape: round, 4-edge, polygonal

We would be pleased to provide our **mould formats**. Simply contact us.

#### Processing capabilities

- Grinding
- Cropping
- Annealing

#### Certification

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001

#### Approvals/classification companies

- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- Deutsche Bahn for monobloc wheels, wheel tyres and wheel bodies (DB-AG)

- Det Norske Veritas and Germanischer Lloyd (DNV, GL)
- Indian Boiler Regulation (IBR)
- Lloyd's Register (LR)
- Pressure Equipment Directive 2014/68 EU, Annex I, Section 4.3
- Nippon Kaiji Kyokai (NKK)

#### Attestations

- Acceptance test certification 3.1
- Indian Boiler Regulations Form IV



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## Moving industries

### Shaping markets

Steel from the GMH Gruppe gives mobility new drive and enables light-construction solutions, ensures efficient energy, and is a powerful mainstay for mechanical engineering. It helps shape Europe's important markets and can be found wherever customers need us.

#### Areas of application



**RENEWABLE  
ENERGY**



**MECHANICAL  
ENGINEERING  
AND PLANT  
CONSTRUCTION**



**RAILWAY SYSTEMS**



**FOSSIL FUEL ENERGY**



**CONSTRUCTION,  
AGRICULTURAL  
AND COMMERCIAL  
VEHICLES**



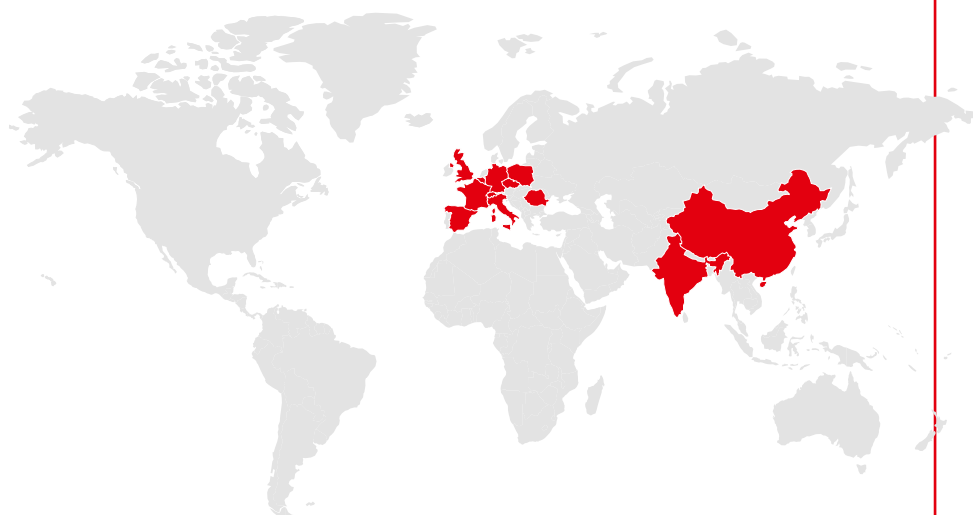
**SHIPBUILDING**



**MATERIAL  
HANDLING INDUSTRY**

#### Markets

**GERMANY, SPAIN, ITALY, FRANCE, BELGIUM, UNITED KINGDOM, SWITZERLAND,  
CZECH REPUBLIC, POLAND, ROMANIA, CHINA, INDIA**







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