



**GREEN
STEEL**
GMH GRUPPE



CUSTOMISED COMPONENTS

Schmiedag GmbH forging technology



Schmiedag
GMH GRUPPE



FORGING TECHNOLOGY – innovative und individual

Schmiedag GmbH is renowned for highly individual and top-quality die-forged parts. The products we manufacture include components for the large engine industry, the commercial vehicles industry, mechanical engineering and the automotive industry – with machining here at Schmiedag as an added option. As a GMH Gruppe company, we are a well-connected part of the group and strong at our own location – a situation we utilise for the benefit of our customers.

We focus on fulfilling individual customer requirements, and are strong on repeatability as well as punctual service, making us your ideal partner for die-forged blanks, rough-machined and finished products to ready-to-install components. Mechanical preparation and finishing, assembly, heat treatment and welding processes are also included in our range of services. The outstandingly high quality of our products is achieved, for example, by using our in-house die and tool shop facilities and applying materials expertise in our own laboratory. Different sectors and industries all around the world benefit from our innovative range of products.

Where tradition merges with the pioneering

As far back as 1824 a forge was established in Hagen-Eckesey, laying the foundations for Schmiedag GmbH as it stands today. This is where our passion is fused with the highest level of forging expertise and precision: we combine well-established forging workmanship with cutting-edge production technology. In addition to our high-performance forge aggregates, we utilise automated feed systems and industrial robots. The latest measurement technology is applied in the forging process. At the customer's option, forging blanks can be machined, assembled and painted in our own machining shop.

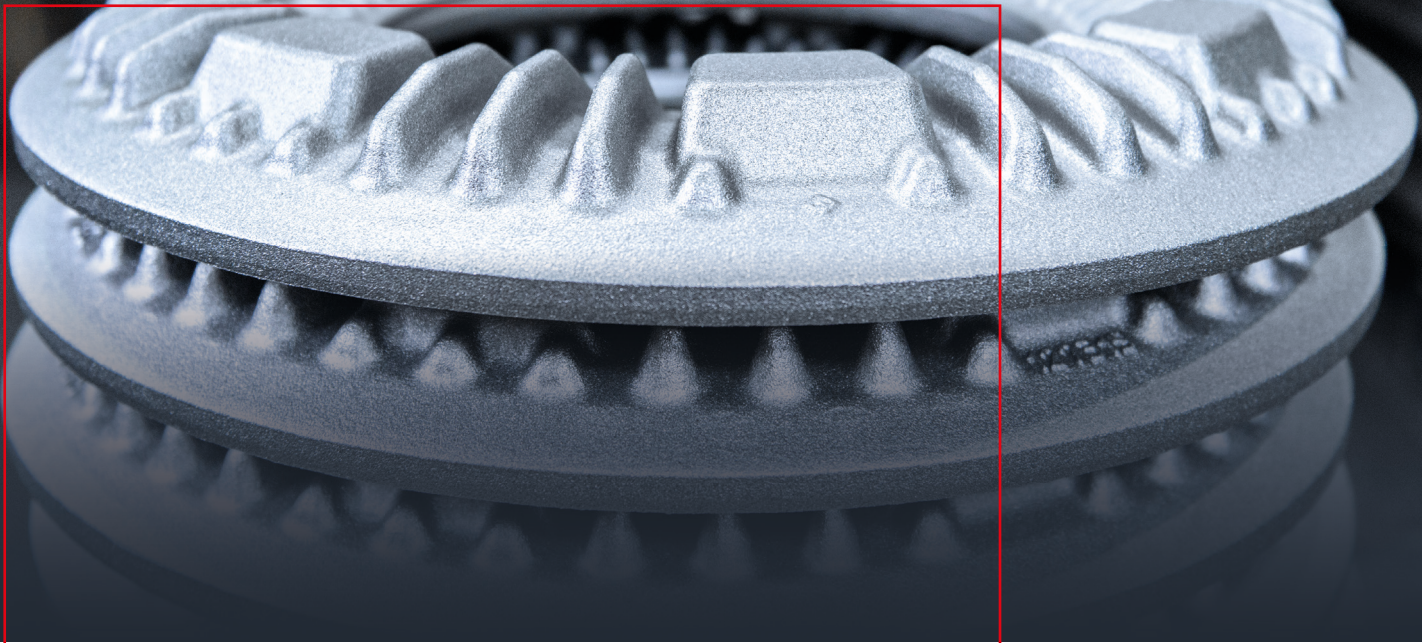
Because quality is key

Flexible automation

Programme control, automated operation and use of industrial robots ensure an economical production process. We provide dimensional accuracy while also ensuring reproducibility of the component dimensions. A high level of automation is an important feature of production processes for larger batch sizes. Yet we also have the flexibility to forge smaller batch sizes.

Quality assurance

To ensure we fulfil the specific needs and requirements of our customers we have an in-house laboratory and measuring room. By means of precise sampling as well as close collaboration with customers and partners, we select the exact material properties you require. Our CNC measuring technology enables exact, three-dimensional controls of large forged parts as one piece - to ensure top quality and dimensional accuracy.



Our expertise

- Long-term forging experience
- Product and production know-how
- Use of advanced technologies
- Modern, high-performance machinery
- Trained & efficient skilled staff

Forging shop

- In-house toolmaking shop
- Die forging and processing from 5kg to 750kg
- Hydraulically coupled forging hammer and counterblow hammer for up to 400kNm
- Presses from 31,500kN to 45,000kN
- Heat treating plants

Machining equipment

- CNC lathes
- CNC machining centres
- HSC milling machines and HSC machining centres
- Induction hardening machines
- Electrical discharge machining
- Metallographic laboratory

In-house tool shop

- Use of 3D CAD/CAM systems
- Software packages for forging process simulation
- Complete data consistency
- For precise development and construction tasks
- Computer-controlled HSC machining centres
- Direct takeover and processing of customer CAD data

Quality management and laboratory

- CNC 3D measuring machines
- Geometric 3D scan
- Material and heat treatment expertise
- Metallographic testing
- Mechanical and technological testing in the scope of tensile and impact tests
- Brinell, Vickers, Rockwell hardness testing
- Portable spectrometer

Quality certifications

- DIN EN ISO 14001 TÜV Nord
- DIN EN ISO 9001 TÜV Nord
- DIN EN ISO 50001 TÜV Nord

Approvals from classification societies

- Germanischer Lloyd
- Det Norske Veritas
- Bureau Veritas
- Lloyd's Register
- Korean Register of Shipping
- Deutsche Bahn
- TÜV AD-Merkblatt WO/TRD 100
- ABS
- etc.

Comprehensive service

- Intelligent logistics
- Flexible disposition
- Proficient customer service
- Collaborative partnerships

Fields of expertise



SHIPS' ENGINES AND LARGE ENGINES



RAILWAY SYSTEMS



CONSTRUCTION, AGRICULTURAL AND COMMERCIAL VEHICLES



MECHANICAL ENGINEERING AND PLANT CONSTRUCTION



RENEWABLE ENERGY



AUTOMOTIVE

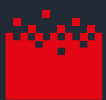


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Let's get talking

Finding the best solutions together: Schmiedag GmbH always engages in beneficial partnerships. We start by talking with you in detail about your specific requirements, relevant performance criteria, technical data, as well as logistics-related needs. Completely irrespective of the components required - when it comes to sophisticated forming technology combined with high-alloy materials, Schmiedag is your expert partner.



Schmiedag
GMH GRUPPE

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