



HAMMERWERK ERFT



FORGING TECHNOLOGY  
FOR HIGHEST DEMANDS







# TOGETHER WE FORGE YOUR SUCCESS

"With courage and optimism, we have developed into a successful and efficient company since our foundation in 1950. Values such as trust and reliability are irreplaceable for us and are the basis of our long and successful company history. Then as now, it is our personal matter to meet the expectations of our customers at all times. We are looking forward to facing future requirements and act honestly and in partnership in accordance with our philosophy.

We are continuously investing in equipment, machinery, logistics, processes and personnel in order to develop a top-class production facility in terms of technology and organisation at our site in Bad Münstereifel.

I am convinced that the continuous development of our company is only possible if we adhere to transparent, comprehensible and verifiable rules. After all, the success of our customers also represents our success and is made possible by the professionalism and commitment of our employees, a tradition that has been practised for generations. Working together as equals makes us the reliable and sustainable partner of today and tomorrow."

**MARC SCHMITZ**  
**MANAGING DIRECTOR**





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## PRODUCTS AS REQUIRED

We distinguish ourselves on knowing the requirements and needs of our customers and providing solutions based on decades of our experience. One of the many pillars of the HWE quality seal is to rise above challenges in a way that is geared to finding solutions, in order to offer a product that is optimised in terms of performance and cost. With the help of our flexible manufacturing capabilities and advanced computer-aided production planning, we are fully capable of meeting special requests at any time, even in terms of delivery dates or design.





# APPLICATIONS

Our products are used wherever the highest technical demands are made. Hammerwerk Erft delivers to all parts of the world with a growing share of exports - mainly to our Western European neighbors. As a flexible, medium-sized, privately owned company, we are able to meet the special requirements of our customers within the scope of our technical capabilities.



**GEAR  
MANUFACTURING**



**SHIP  
BUILDING**



**HEAVY  
MACHINERY**



**POWER  
GENERATION**



**FITTINGS**



**WIND POWER**



# SUSTAINABILITY

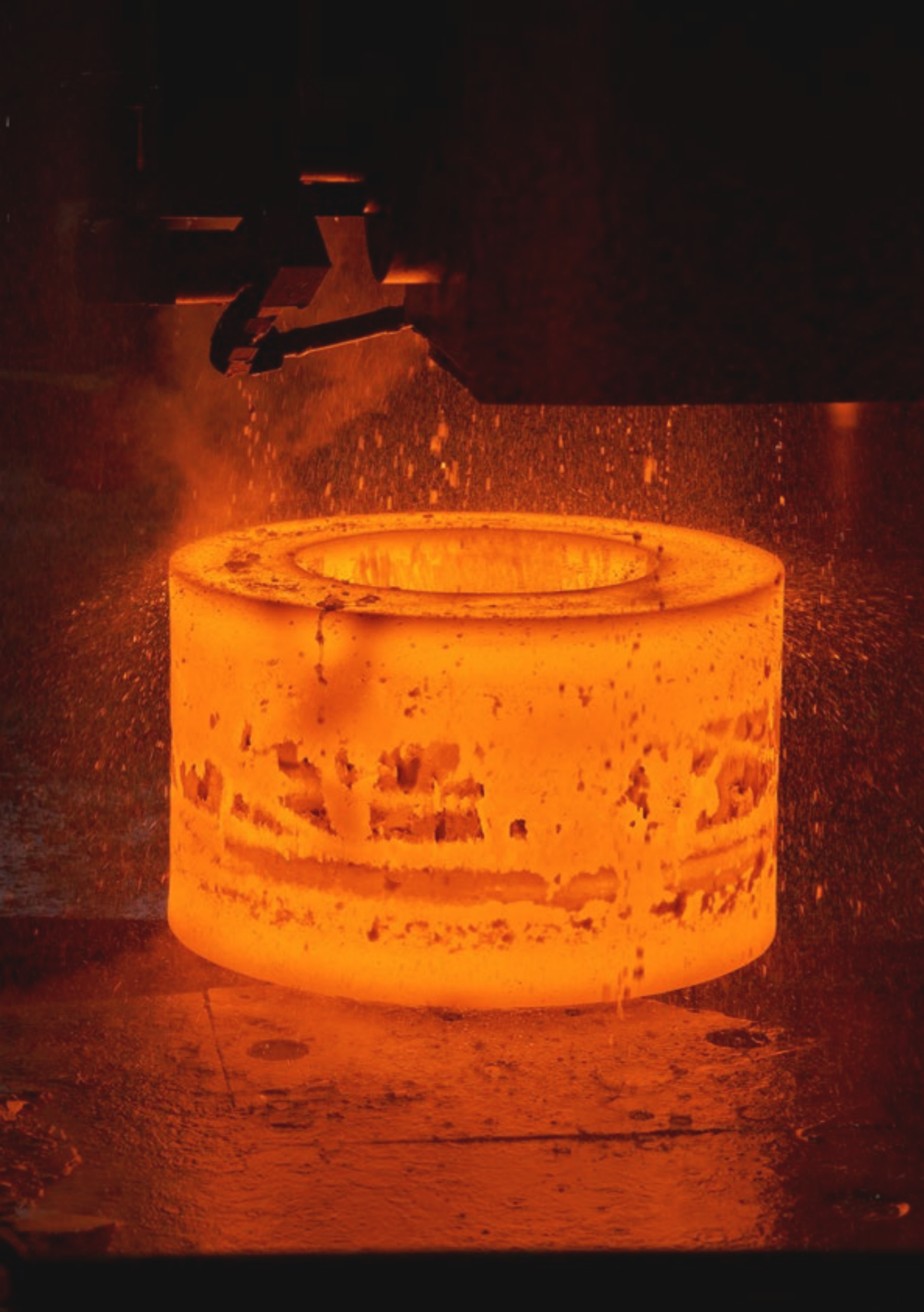
We face the daily challenges of a continually changing environment and take responsibility by realising economic and ecological goals. Environmental protection and energy efficiency are therefore a fundamental part of our corporate policy and we work continuously to optimise energy-related processes. For decades, HWE has focussed on sustainability and the careful use of resources. The modernisation of heat treatment furnaces and the installation of photovoltaic systems are examples of recent measures.

**WE ARE  
PART OF THE  
ENERGY  
TRANSITION**

# RECYCLED STEEL



Did you know that at Hammerwerk Erft we use almost 100% recycled steel? A significant part of our products is used in the field of renewable energy production, such as wind turbines and hydropower.



## OUR PORTFOLIO

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All the way from raw forgings to ready-to-install components, all the way from the idea to the innovation, we deliver results that precisely meet the customer's requirements and wishes. Allow us to prove our competence, flexibility and reliability to you. The comprehensive possibilities of product testing at Hammerwerk Erft guarantee the reliable application of the most demanding forgings from a wide range of industries. Upon customer request, product tests are accompanied by various acceptance and commissioning services providers that fulfill the requirements and wishes of our customers 100%.

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### **FLEXIBILITY**

Our daily business is the realization of individual and complex customer requirements. In cooperation with our customers and suppliers, we develop solutions for your specific requirements in terms of geometry and material. The result of these solution processes are technically outstanding and efficient products.

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### **QUALITY**

Due to our high manufacturing competence - from the raw forging to the finished component - we are able to satisfy all customer requirements individually. Based on a huge product variety, we have proven for decades that we can deliver technically challenging components of the best quality on time.



# OUR RANGE OF PRODUCTS AS INDIVIDUAL AS YOUR REQUIREMENTS



## SEAMLESS ROLLED RINGS

On our modern rolling mills we can produce seamless rolled rings with an outer diameter of approx. 250 to 2.800 mm and a height of approx. 45 to 700 mm in the weight range of approx. 15 to 4.000 kg.



## FORGED RINGS

We supply forged rings up to a diameter of approx. 2.500 mm in a weight range of approx. 700 to 18.000 kg unit weight.



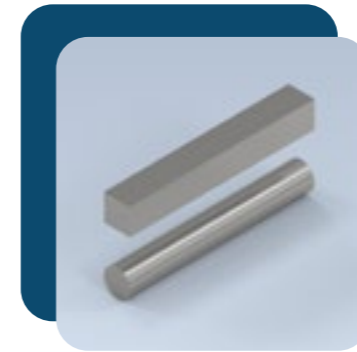
## SHAPED SHAFTS

In our forging press department at Hammerwerk we can produce open-die forgings from approx. 20 to 20.000 kg unit weight. For flanged shafts we achieve a maximum flange diameter of approx. 1.800 mm.



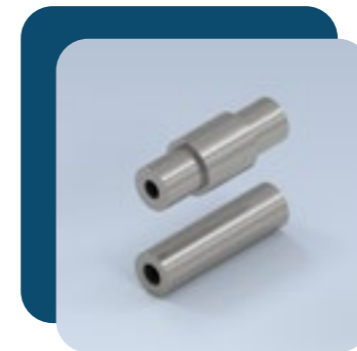
## DISCS & PUNCHED DISCS

We are especially skilled in the manufacture of three-dimensional forged discs, punched discs, hub discs, double hub discs and trunnions in the weight range from approx. 20 to 18.000 kg.



## FORGED BARS

In our forging press- and hammer department we can produce bars from approx. 20 to 20.000 kg unit weight with round, square or rectangular cross-section up to approx. 1.000 mm thickness.



## HOLLOW FORGED PARTS

We forge hollow parts up to a unit weight of approx. 18.000 kg and a length of approx. 3.000 mm.



## DIE-FORGINGS

We forge die-forgings in our forging press- and hammer department by using auxiliary dies and forging tools that we have in stock or have newly produced.

# PERFORMANCE MASTERING DIVERSITY



## FORGING PRESSES

Our biggest forging press works with the energy of 35 MN. Process-controlled forging furnaces with a furnace capacity of up to 250 tonnes guarantee proper heat control. Our open-die forging presses from 12 to 35 MN pressing force are capable of producing workpieces weighing up to approx. 28.000 kg. The forging is carried out by free-running auto-forging manipulators with a load-bearing capacity of up to 40 tonnes.



## RING ROLLING MILL

Seamless, precise and with a clean surface. Three-dimensionally pre-forged punched discs are rolled into seamless rings on two ring rolling mills equipped with modern control and measuring systems. We roll radial-axial in open calibre:

- Unit weights from 15 to 4.000 kg
- Outer diameters from 250 to 2.800 mm
- Heights from 45 to 700 mm



## HAMMER MILL

In the hammer department, we use steam hammers with a bear weight of 400 to 3.000 kg. We do the forging in combination with electro-oil hydraulic manipulators or manually. A large auxiliary die bearing makes it possible to forge difficult geometric contours, such as journals, hub disks, double hub disks, etc., with low machining allowances to conform to the fibre. In our open-die forge, the hammer- and forging press department complement each other to form a well-rounded production programme.



## MATERIAL TESTING

All non-destructive and destructive industry standard tests required for open die forgings and rings can be executed and certified in accordance with quality regulations, specifications or customer requirements.

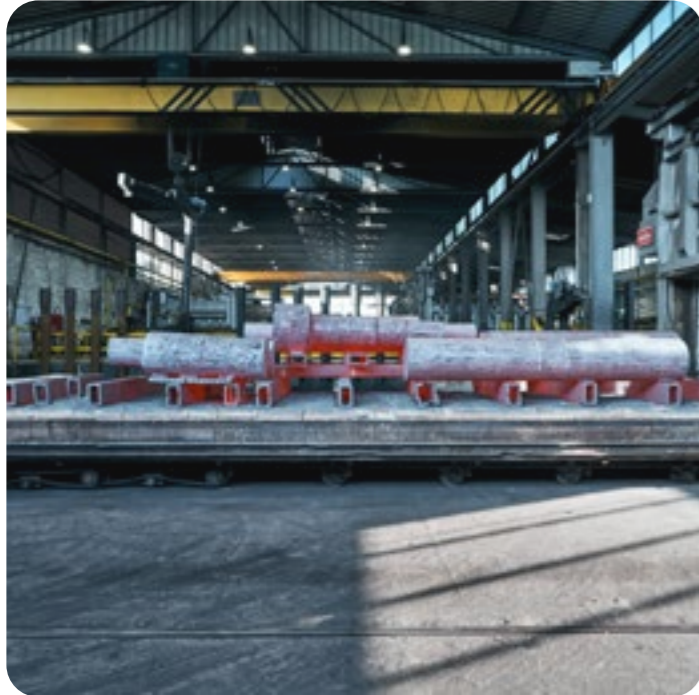


## MATERIALS

Supplies from certified steel producers form the basis for our well-known diverse product range:

- Unalloyed and low-alloy steels
- Case-hardening steels
- Quenched and tempered steels
- Nitriding steels
- Rolling bearing and Tool steels
- Heat resistant steels
- Rust-, acid- and heat-resistant steels
- Duplex steels and Austenite
- Martensite and soft martensite
- Special materials on request





## HEAT TREATMENT

Our products are subjected to the required heat treatment in-house. Our range includes:

- Quenching and tempering
- Normal annealing
- BG (microstructure) or BF (tensile strength) annealing
- Soft annealing
- Solution annealing
- Low stress annealing
- Hydrogen effusion annealing
- Special heat treatments according to customer requirements or specifications
- Consulting and problem solving with regard to requirements for quality and heat treatment



## QUALITY ASSURANCE

Due to our manifold quality inspections we continuously ensure the desired quality requirements of our customers. The many years of experience and qualifications of our employees are representative of the HWE quality seal. This is characterised, among other things, by the fact that all quality inspections are carried out in-house by more than 15 highly qualified specialists. It is worth mentioning that several of these inspection specialists are certified according to DIN EN ISO 9712 Level 3 (UT/PT/MT/VT).



## MACHINE SHOP

An overview of the mechanical equipment:

- Vertical lathes up to 2.800 mm turning diameter
- Tip lathes up to 10.000 mm turning length
- Special boring lathes for machining hollow-forged shafts and cylinders
- Boring and milling machines
- Lathes

Conventional or CNC-controlled machines are used depending on requirements. All products of our forging aggregates can, of course, be mechanically machined.



## EXPRESS SERVICE

Due to our efficient decision-making processes, targeted intensification options and flexible process design, we are able to realise even the most extraordinary deadline requests of our customers. If our customers have an emergency and need a forged part in the shortest possible time, we can help in record time with our express service.



# APPROVALS



Our products are based on the highest quality standards with continuous optimisation of our energy and environmental management. This approach is certified annually by independent institutions certified according to the latest standards. Hammerwerk Erft also has approvals from a wide range of classification and approval organisations.

## Management & System

ISO 9001 QUALITY  
ISO 14001 ENVIRONMENT  
ISO 50001 ENERGY



Scan QR-Code for details

## Certificates & Approvals

ABS  
BV  
CLASSNK  
DNV  
DNV MSA

DNV SPA HIGH-GRADE  
KR  
LRS  
TÜV 2014/68/EU UND AD2000-MERKBLATT W0  
RINA





**WORKING AT  
HAMMERWERK ERFT**



**“Every individual shapes the company with his or her ideas and commitment.”**

*- Marc Schmitz, Managing Director*

## WHO WE ARE AND WHAT WE DO

### OUR FUTURE SUCCESS...

...rests in the skills and motivation of our employees. In order to continue to be successful in the future, we are always looking for new talents and professionals, whether in production, technology or in the commercial area.

### We train our future colleagues

We enjoy training talented people in order to share our enthusiasm for steel as a quick-change artist and to create qualified employees for our company. Every year, we offer exciting and challenging apprenticeships in nine different professions. Become an apprentice at a medium-sized company operating throughout Europe with 270 employees, which is represented with its high-quality open-die forgings wherever the most demanding technical requirements are encountered.

Have we aroused your interest?

Then we invite you to take the first step with your application.



Scan QR-Code for details

**With us, you'll find the apprenticeship which suits you best!**

MECHATRONICS ENGINEER

MATERIALS TESTER

ELECTRONICS TECHNICIAN FOR INDUSTRIAL ENGINEERING

CUTTING MACHINE OPERATOR

OPEN-DIE FORGER

INDUSTRIAL MECHANIC

MACHINE AND PLANT OPERATOR

INDUSTRIAL MANAGEMENT ASSISTANT

IT SPECIALIST FOR SYSTEM INTEGRATION









## HAMMERWERK ERFT

HAMMERWERK Erft G. Diederichs GmbH & Ko. KG  
Ernst-Diederichs-Straße 1  
53902 Bad Münstereifel  
GERMANY

### CONTACT

Phone +49 (0) 2253 / 311-0  
Email [info@hammerwerk-erft.de](mailto:info@hammerwerk-erft.de)

### SOCIAL

 <https://www.facebook.com/HammerwerkErft>  
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### WEB

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