



Company



Company

Industries

Decades of experience, in-depth technical and metallurgical knowledge, in-house processing from design until testing, combined with more than 1.000 material varieties, give Brück the opportunity and advantage to be active in a large variety of industries with an almost unlimited range of possibilities. For a broad range of products and components to be found in among the following industries, Brück offers you technically

- sound solutions and creates additional value on a mutual base:
- Oil & Gas
 - Energy & Powergeneration
 - Hydrocarbon & Chemie
 - Deepsea & subsea
 - FPSO
 - Offshore
 - Load transmission



Company

Brück was founded in 1923. At this time, the company was involved in the production of tools for agriculture and for the construction industry. Bending and welding of steel rapidly became a major part of the production. Starting in 1956, we focussed on producing flanges and with the productionmethod changing to seamless ring rolling, Brück became a company

with global market importance. Nowadays, Brück has remained its position as a leading and innovating global market player. With an extensive range of products and components, we serve a large variety of industries and retaining our preferred supplier status within leading international companies.



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Creative Technology

When technical and metallurgical requirements become increasingly demanding and standard solutions are no longer sufficient; Brück is the right company to turn to for custom made solutions.

With its many years of experience in the field, Brück has proven to be a reliable partner that will go the extra mile in order to help you reach your goals.

Our specialists cover the entire spectrum and are able to assist you in all critical technological

aspects of your business.

Brück offers years of experience and know-how in:

- Metallurgy
- Design and Engineering
- Forging and Ring Rolling
- Final Machining
- Heat Treatment
- Weld Overlay
- Assembly and FAT



Forgings

Brück offers a wide range of forging presses in order to perform all jobs to the desired result. In 2009, a new 8.000 ton press was installed to the already existing line of presses, to comply with the market demand for continuously increasing larger and heavier forgings and to remain leading in this field. Additionally, a manipulator was added as

well as a 50 ton crane, in order to facilitate and accelerate the cycle-time even further. Brück can supply you with a large range and variety of forgings, in an almost unlimited range of materials. With forgings from just a few kilo's up to forgings weighing 40 tons, we can supply you with whatever desire you have!



Ring Rolling

Brück specializes in the manufacture and supply of a large range of special flanges, seamless rolled rings, nozzle forgings and other flange related products. Our seamless ring rolled pipeconnections perform a variety of vital functions in the oil, gas and petrochemical industry, but are also applied in the field of power generation, load transmission, deepsea & subsea and machine building. Anchor flanges and swivels also find their way into the offshore applications, ofcourse in accordance with

your requirements. Starting from billets, forged bar, continuous cast or square bar, Brück produces rings up to a maximum outside diameter of 6.400 mm and a total height of 1.750 mm in one of our five ring rolling units. The maximum radial width is approximately 1.000 mm and the maximum weight of a single unit is 30.000 kg. These measurements include bearing rings, impeller rings, valve components, closures and rings for drilling equipment or casing connectors.



Advantages

With Brück as your partner in business you will have the advantage of having it all under one roof:

- Design and Engineering
- Extensive Material Stock
- Ring Rolling and Forging
- Metallurgical Expertise
- Overlay Welding
- Pre- and Final Machining
- Assembly and FAT
- FAT and Qualification Testing



Machining

Brück possesses an impressive machinepark in both the German and Czech machining shops, with over 100 state-of-the-art CNC controlled machines. Whether it concerns milling, gear cutting, profile flame cutting, deep hole drilling or other specialist tasks, we can perform these activities in house.

Our highly skilled operators handle both batch production as well as complex single pieces in a large range of options. Starting with parts of only a couple of kilograms, Brück can handle up to 250 tons unit weight!

Assembly

Continuous product development, and contacts with the leading manufacturers in the field of power generation, process industry and marine and machine building industry, keep us in touch with the demands and changes in the market.

If turret-moored FPSO's, on- and offloading buoys or specialized components are required, Brück offers a partnership in the realization of

these projects, providing turnkey constructions of high-pressure rotary components and parts

We have extensive assembly capacity, including 120 tons lifting capacity, maximum production height of 25 meters and machining capacity of 6.600 mm and 250 tons. Ofcourse, all qualifications meet the highest requirements, including ISO 9001.



Overlay Welding

Weld overlay can be used in many applications to provide protection from corrosive and erosive metal loss environments. The comparative elevated costs of high alloy base materials make the weld deposit of a protective layer on a less expensive load-bearing mild or low alloy steel the most realistic and cost effective financial alternative. Nickel-alloy weld consumables, like Inconel 625, are most commonly applied as overlays on most grades of steel. For best results, iron dilution must be kept at minimum levels. Excessive amounts of

iron in the overlay compromise the corrosion resistance.

There are different welding processes available on the market. Brück concentrates on the most commonly used procedures for weld overlay:

- Hot wire pulse Tungsten Inert Gas welding (T.I.G.)
- Single Point Submerged Arc Welding (S.A.W.)
- Strip Submerged Arc Welding (S.S.A.W.)
- Electro Slag Welding (E.S.W.)

Design

Where and whenever required, Brück can already assist you in the design stage of a project or product. We have the knowledge and experience to provide you with specific support to optimize your design. Our engineering support will be as broad as our client wants to. From questions on choice of materials, all the way up to complete 3D FEA analysis of parts and structures, or from cost optimization to development testing of engineered parts, we can support you all the way.

Some examples of engineering activities provided:

- Flange calculation according ASME regulations

- Design of Tees according ASME regulations
 - Swivel Flange design including 3D FEA analysis and design reports
 - Development of test frame for full scale turret simulations
 - Design of transport frames for safe transport of swivel
 - Test stand for swivel qualification test
 - Engineering support on material choice
 - Production process optimizations;
 - to improve material properties
 - to reduce costs on raw material and/or machining
- Our experienced team of engineers has all required present-day design tools in house to find the best answer to our client's requests.



Testing

Brück is fully equipped to carry out all the testing inhouse. 21 employees are permanently supervising our highest quality standards.

The official company and acceptance stamps are only issued after thorough a quality control and final 100% positive material identification (PMI). We precisely examine dimensions and surface roughness of every single part.

We conduct metallographic and chemical analysis examinations on our premises at short notice.

Our testing methods at a glance:

- Hardness surveys
- Ferrite measurements
- Grain size determination
- Corrosion testings
- Metallographic and chemical analysis examination
- Dimensional check to 1/100 mm accuracy
- Magnetic particle inspection
- Dye penetrant testing
- Ultrasonic testing
- Eddy current testing
- 100% Positive Material Identification (PMI)

Materials

Material variety is an essential strength of Brück. Decades of experience in the range of hot-forming, heat treatment and mechanical treatment of more than 1.000 material varieties

- On the average 20.000 tons of rough material in over 400 different material grades on stock

- High-alloy steels, nickel-base alloys, aluminium and titanium are standard materials at Brück, which includes materials such as Alloy 800 H/HT, Incoloy 600, Alloy 825, C-22, Inconel 625, Monel 400, Alloy B2, Hastelloy C-4 and Hastelloy C-276

