



Energy

Seamless ring rolling for the power industry

Brück is specialized in the design, manufacture and supply of a large range of seamless rolled rings, special flanges, nozzle forgings and other flange related products for the Energy Industry.

Our forged and ring rolled products perform a variety of vital functions in the power industry as:

- Generators
- Compressors
- Gas-, Steam-, Wind- and Water Turbines
- Piping material for High-Pressure and Elevated Temperature Environments
- Flanges and forgings for steam applications as well as for hydraulic applications



Type of Products

Brück provides a wide range of products for the power industry including; Bearing seats, drive shafts, stators, bushings, diffuser-flanges, wear parts, wheels and rims, seals, blade- & yaw-bearings.

Starting from billet, forged bar, continuous cast or square bar; Brück produces a broad line of rings up

to a maximum outside diameter of 6.400 mm and a total height of 1.750 mm. The maximum radial width is approximately 1.000 mm and the maximum weight of a single piece is 40.000 kg.

These profiles include bearing rings, impeller rings, stators, pelton runners and diffuser rings.



Forgings for energy applications

With five forging presses with a capacity of 12.5 MN up to 80 MN, Brück is capable of producing open die forgings from 25 kg up to 40 tons. The maximum outside diameter is 4.500 mm.

- Initial Shape Rotation-Symmetric
- Forming Operations in the Center of the Press
- Hydraulic Displacement for the Press Desk
- Centering and Lifting Device

- We offer more than 1.000 material varieties and hold more than 20.000 tons of raw material in stock to produce every forging for energy applications requested
- Interlinked forging technology for production time optimization in handling large quantities.



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
- FAT and Qualification Testing



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Bearings and slewing rings for energy applications

For many years Brück has been involved in the development and manufacturing of slewing rings, shroud rings, guide rings, gear wheels and innovative slew drives for customers around the world, in a wide range of energy applications.

Brück offers more than the regular services;

additionally we provide special delivery services for standard as well as customized rings. For as well bearings as slewing rings we provide you with an exceptionally swift express service of 6 – 15 working days! Also a wide variety of your customized and standard rings can be produced within this fast time frame.

Machining

Machining is one of the key capacities of the Brück production for products in the energy industry. More than 100 CNC machines for turning, milling, drilling, gear cutting, grinding and deep hole drilling and other specialist tasks enable Brück to manufacture complex products with narrow form and size tolerances.

Naturally, all required measuring equipment and know-how are available, ensuring the delivery of the quality required.

Our state-of-the-art machine park gives us a large

range of options and possibilities, including;

- Large size machining up to 250 tons
- Tolerances of 0,03 to 0,05 mm with Ra 0,8 mm
- Turning maximum outside diameter 6.500 mm
- CNC long turning horizontal lathes outside diameter up to 2.800 mm x length 8.000 mm
- Milling/Drilling 10.000 mm x 4.500 mm x 3.000 mm
- 3-D milling - Deep hole drilling with a maximum inside diameter of 450 mm
- Gear Wheel cutting with a maximum outside diameter of 7.000 mm
- CNC plasma-cut on forgings with a maximum weight of 35 tons

Contact

Brück

Voltaweg 2 | 6101 XK Echt | The Netherlands

Tel : +31 (0)475-48 66 55 | Fax : +31 (0)475-48 69 33

www.bruck.nl | info@bruck.nl

