

OUR WORLD IS MADE OF STEEL ...



Breitenfeld
Schmiedetechnik



MISSION

We ...

- are a flexible and reliable partner
- deliver high quality products
- guarantee customer satisfaction based upon vast experience and metallurgical know how
- react fast to fulfil our customer expectations
- aim for a long term relationship with our customers
- develop the knowledge, performance and creativity of our employees
- act responsible in respect to our society and to our environment
- communicate openly and transparently



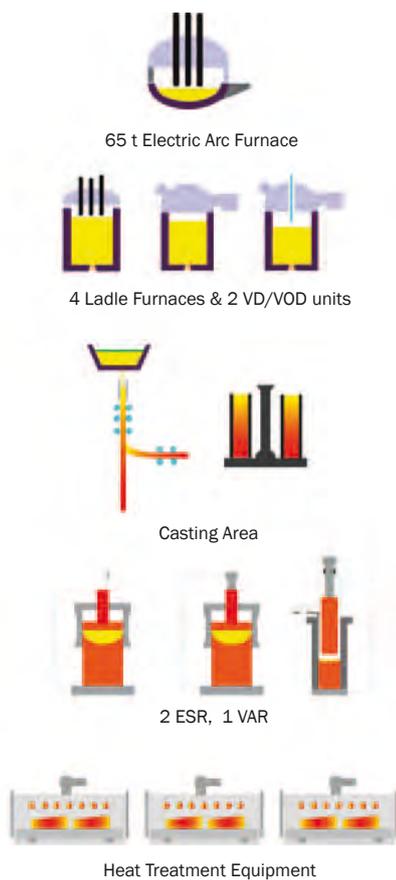
HISTORICAL DEVELOPMENT

- 2009** Commissioning of the new steel mill (largest speciality steel production capacity in Austria)
Production of the first 80 ton specialty steel ingot in Austria
- 2009** Commissioning of the new forging manipulator
- 2008** Modernisation of the heat treatment facilities in the forging shop
- 2007** Extension of the re-melting shop with a 2nd ESR and a VAR re-melting unit
- 2007** Commissioning of the new 65 ton electric arc furnace
- 2003** Start up of the re-melting shop with a ESR re-melting unit
- 2001** Modernization of the steel mill with a 50 ton electric arc furnace
- 1992** Strategic decision to start the production of speciality steel products
- 1966** Start up of the forging shop
- 1948** First continuous casting trial for steel in a production scale on a world wide basis
- 1942** Foundation of the, „Eisenwerk Breitenfeld“

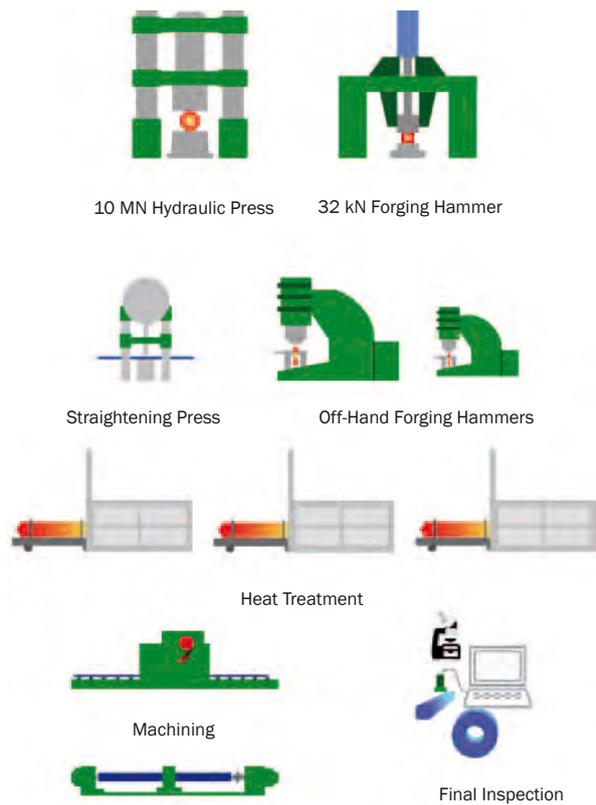


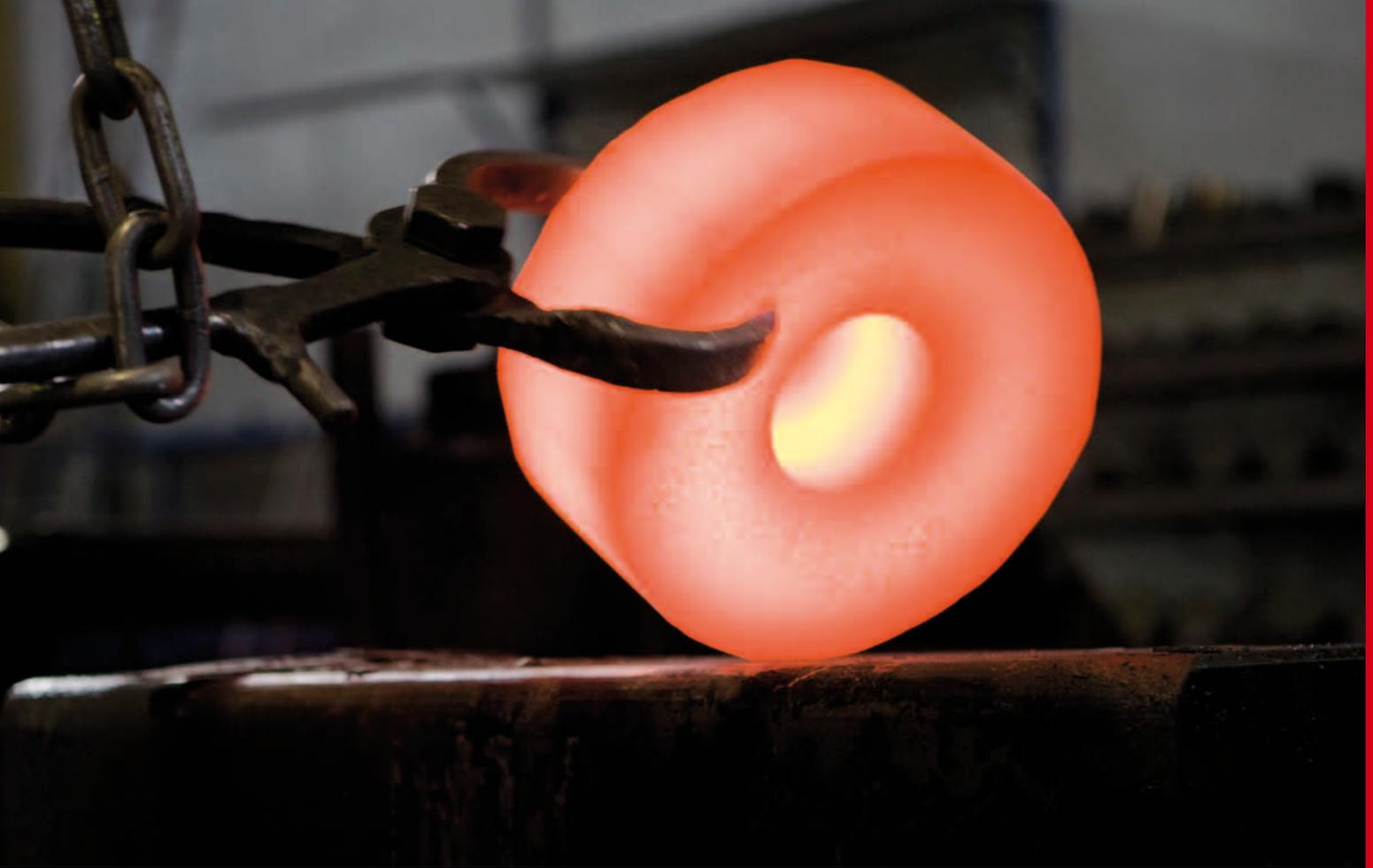
PRODUCTION FLOW OF BREITENFELD

Speciality Steel Production

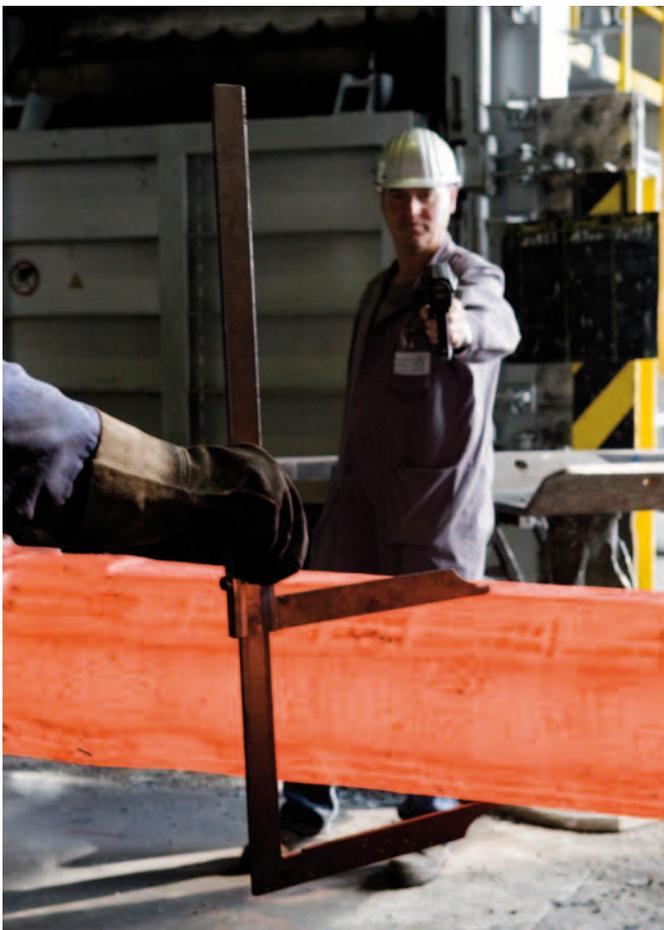


Forging





FORGING



We concentrate on hot massive forming of a wide range of steels reaching from low-carbon to stainless austenitic steels. Our product range comprises forged bar material with square, flat or circular cross section, as well as open die forgings like rings, discs, bushings, prisms or shouldered shafts and pistons.

Prior to the forging operation, pre-heating of ingots is performed in several gas-fired forging furnaces. Depending on the size and type of the forged product, a 10 MN hydraulic press, a 32 kN forging hammer or several smaller forging hammers (with ram weights between 500 kg and 1500 kg) are used.

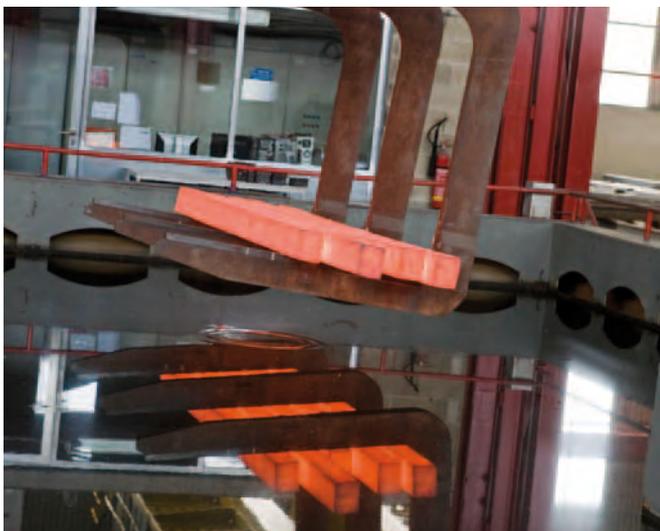
For selected customers we also offer hired forging of non-ferrous alloys, e.g. titanium.



HEAT TREATMENT

We operate state-of-the-art gas-fired heat treatment furnaces with hearth loads between 10t and 70t and offer heat treatments according to demanding norms. Quenching media are water, polymer, and forced air.

- Furnace temperature: max. 1200 °C
- Piece weight: max. 8 t
- Water quench tank: max. 14 m
- Polymer quench tank: max. 7 m



MACHINING

Machining (turning, milling) of our forgings completes our services. Thereby, we create advantages for our customers in terms of enhanced planning certainty. Machining typically comprises pre-machining of ingots, bar material or open die forgings. However, final machining can be offered if needed.





PRODUCTS

All following dimensions and weights are understood as orientation and can vary depending on the steel grade.

Long products (bar, semifinished bar)

Diameter:	Ø 95 – Ø 460 mm
Square or flat:	max. 120.000 mm ² (max. width 630 mm)
Length:	max. 7.500 mm
Weight:	max. 5.800 kg

Rings and bushings

Outer diameter:	max. 1.300 mm
Height:	max. 450 mm
Weight:	max. 1.300 kg

Discs

Diameter:	max. 750 mm
Height:	max. 450 mm
Weight:	max. 1.000 kg

Open die forgings

Open die forgings like prisms, shouldered shafts or pistons are offered on an individual basis and request.



MATERIALS

Due to our manifold variety of steel grades and manufacturing programme, we offer a wide spectrum of products and services. The following list shows an exemplary overview of the most important steel grades, which are offered in conventionally melted or remelted condition (ESR, VAR).

- Aircraft steels
(1.4125, 1.4545, 1.4548, 1.4938, 1.6354VAR, 1.6562VAR, 1.6580, 1.7734,...)
- Turbine blade steels
(1.4006, 1.4021, 1.4057, 1.4120, 1.4594, 1.4923, 1.4938,...)
- Stainless steels
(1.4034, 1.4104, 1.4122, 1.4301, 1.4401, 1.4435, 1.4462, 1.4501, 1.4550, 1.4568, 1.4571,...)
- Heat treatable steels
(1.6582, 1.7218, 1.7225, 1.7228, 1.7707, 1.7709, 1.8519, 1.8550,...)
- Heat resisting steels
(1.4901, 1.4903, 1.4913, 1.4939, 1.4980ESR, 1.6368, 1.7383,...)
- Cementation steels
(1.5752, 1.6587,...)
- Tool steels
(1.2080, 1.2083, 1.2316, 1.2343, 1.2344, 1.2357, 1.2379, 1.2436, 1.2550, 1.2601, 1.2631V, 1.2714, 1.2738, 1.2746,...)
- High speed steels
(1.3243, 1.3247, 1.3302, 1.3342, 1.3343, 1.3355,...)
- Construction steels
(1.0577, 1.1191,...)





WE OFFER

Flexibility

As a leading manufacturer of high-grade steel products, we gladly compete in the international market and position ourselves by short lead times and high flexibility in disposition and order processing, thus pursuing our target of customer satisfaction.

Application competence

Our experience and competence in high-grade steel production and forging, combined with a diversified application know-how are outstanding. Our customers benefit from these competences and make use of the advise and support of our sales people and engineers.

Material and hot forming knowledge

We have significantly influenced material development together with our customers. The individual adjustment of application- and product-properties results in enhanced competitiveness of our customers and brings us in the position of a solution provider. Due to our creativity and flexibility, we essentially contribute to product optimisation, material development and process capability.

Innovation

Our innovation-network includes leading technical universities and research institutes. As a matter of course, we also see especially our customers as essential initiators for innovation. The tight cooperation within our innovation-network leads to tailor-made solutions, innovative products and increased competitiveness in the high-grade steel market.

Service

- Demanding quality products at competitive prices
- Flexibility in disposition and order management
- Future-oriented, customer-specific consultancy and material development
- Efficient business management with direct contacts and quick decisions



QUALITY MANAGEMENT / QUALITY ASSURANCE

The outstandingly high quality level of our products and production processes result in high level quality assurance certificates and customer approvals. We constantly develop our quality management system. We increase the number of customer approvals on an ongoing basis. We guarantee the highest quality standard through highly qualified employees, state of the art technology and equipment supported by our ongoing investment strategy.

- ISO 9001:2008
- EN 9100:2003
- Germanischer Lloyd (GL)
- Det Norske Veritas (DNV)
- TÜV AD 2000-Merkblatt WO / TRD 100
- TÜV für Druckgeräterichtlinie 97/23/EC PED
Anhang I, Absatz 4.3
- KTA 3201.1, Abschnitt 2.4
- BUREAU VERITAS (BV)
- Lloyd's Register (LR)
- KTA 1401; AVS D100/50; IAEA 50-C-Q





ENVIRONMENT MANAGEMENT



Breitenfeld was the first steel mill in Austria which passed an environment inspection according to the IPPC-guidelines. Breitenfeld fulfils all legal environment standards. The ongoing investment strategy guarantees that our production facilities are the latest state of the art with respect to environmental considerations.



Breitenfeld
Schmiedetechnik

Schmiedetechnik Breitenfeld GmbH
Breitenfeldstraße 22 | A-8662 Mitterdorf
Tel. +43 (0) 3858/6161-0
Fax +43 (0) 3858/6161-298
E-Mail info@breitenfeld.at
E-Mail schmiede.vk@breitenfeld.at