



Company

CASTING PARTS

«two in one»

STOCK PARTS

metal4you

Specialities

Everything from a single source.



We make every part to your advantage.

Competence to us means leaving no question unanswered. And this is precisely what we have chosen as one of our corporate principles. We reply to inquiries about the optimum solution with our engineering specialists, our component-specific materials, individual production methods and with our customised logistics solutions.

We are delighted if our customers have special wishes and demand a great deal of us. Individual solutions are one of our strengths and innovations – like our BENODUR® special materials, that open up whole new fields of use for casting parts. Our goal will always be to produce casting parts with as many advantages as possible. This is the way into a successful future.

BENNINGER GUSS AG is split into two business divisions. **CASTING PARTS** (castings according to customer drawings) and **STOCK PARTS** (standard casting products).

CASTING PARTS produces high-class and challenging casting parts. We use iron-carbon materials such as grey cast iron, spheroidal cast iron as well as the special materials BENODUR®, ADI and SiMo.

Components with piece weights ranging from a few grams to around 5.5 tons are in our weight category. Individual parts, small and medium-sized series are our profession. The development of prototypes and manufacture of spare parts by our digital production method (DGP) are further strengths of BENNINGER GUSS AG.

STOCK PARTS is the business division for standard solutions. The comprehensive range of stock covers: gravity die castings, continuous casting, hollow bars/bushings, standard plates and clamping elements. You can view the complete STOCK PARTS assortment at www.benningerguss.ch. Use our online shop. Deliveries are carried out within a few working days.

Both business divisions also fulfil machining and assembly wishes.

Casting is individual.
Casting is innovative.



Production building
for heavy castings



Continuous casting since 1873.

The company history began when the Benninger brothers took over a mechanical workshop in Uzwil. In **1873** an iron foundry was added. The legal form of the Benninger foundry is officially documented in **1917** and in **1980** the foundry becomes an independent business division. Certification of the QA management system according to ISO 9001 is completed in **1994**. **1997** Corporate form of the foundry changed to a stock corporation and certification in accordance with ISO 14001 (environmental management). The IT infrastructure is renewed in **2000**. **2001** sees the commissioning of the new high bay warehouse. In **2003** the re-certification in accordance with ISO 9001 and ISO 14001 is successfully performed. **2005** sees the complete renewal of the core shop. In **2007** a state-of-the-art mechanical moulding systems goes into operation. The new production building for heavy castings opens its doors in **2008**.

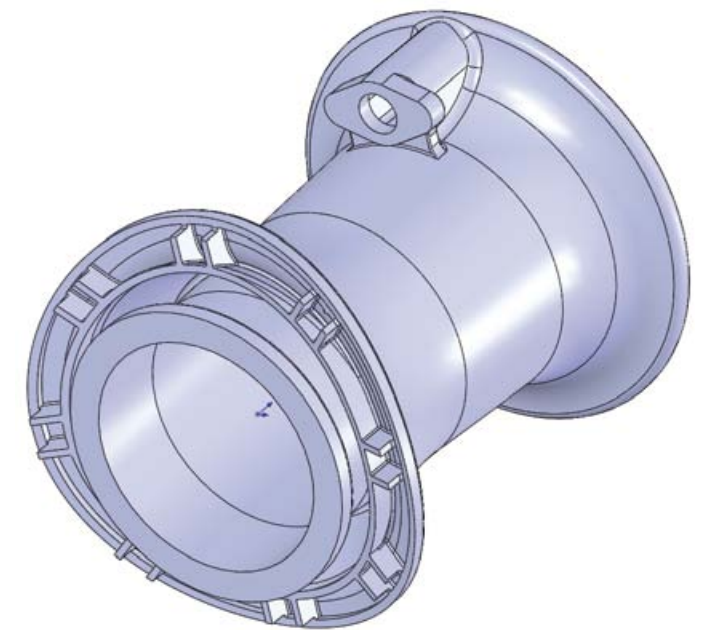
CASTING PARTS

The solution is called individuality.

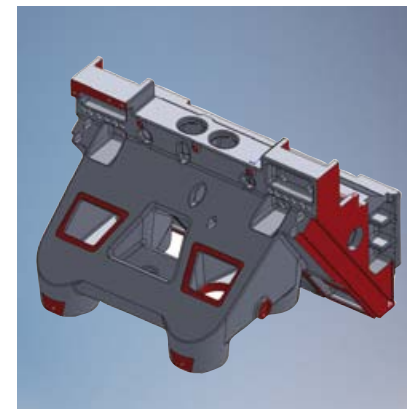
CASTING PARTS (finished castings) are based on customers' specific demands.

Every customer wish has to be realised as an **individual case**. Our customers expect us to realise the bespoke component requirements with ideal production methods, setting us a stiff challenge. Every component begins with a requirement; we turn your expectations into a cost-optimised solution. Simultaneous engineering – fast and reliable at first go. We produce precise patterns from high-quality materials on modern CNC machines in our pattern shop for the serial production of casting parts.

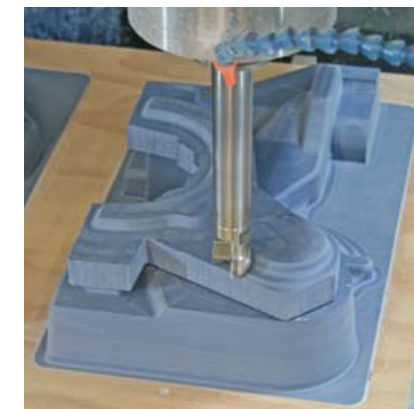
We rely on our tried and trusted digital production method **DGP** (digital production of castings) for the flexible and fast casting of prototypes, small series or components with complex geometries. With DGP we offer our customers the opportunity to obtain casting parts in a short time and without any pattern costs.



Capitalise on
creative freedom.



Every component is analysed and improved by CAD methods

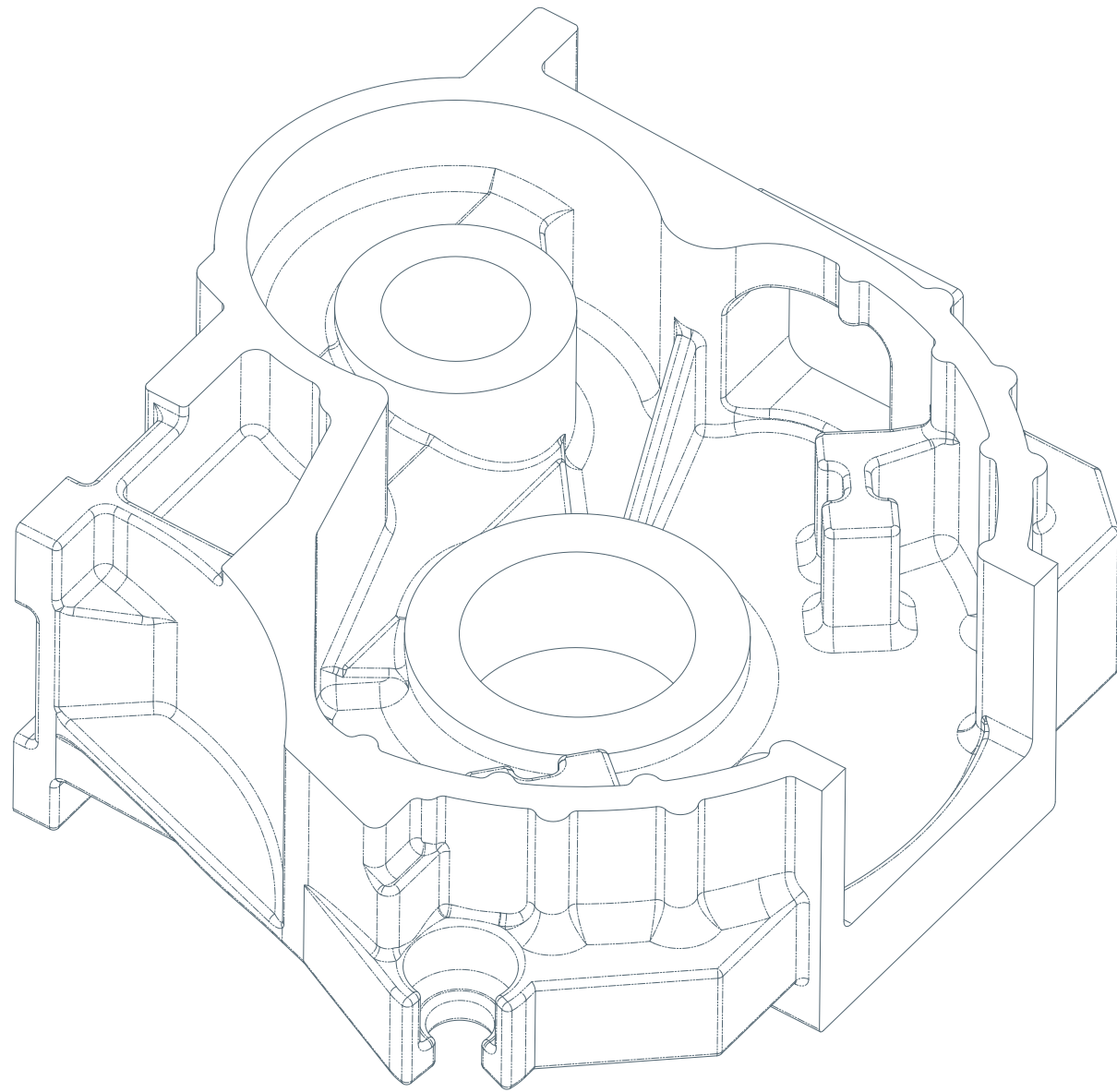


Precision work in the pattern shop is a key element of product quality



DGP permits the fast realisation of prototypes and small series

Our services increase the value of your product.



Our services are tailored to the needs of our customers. We provide added value with comprehensive offerings and services. And we provide exceptional advantages with system solutions.

We see ourselves as not just a manufacturer of casting parts but as a development partner. This begins in the first phase of development, at a time when foresighted decisions have to be taken. Together with our customers, and using the latest development tools and means of production, we prepare a reliable data base, cultivating a culture of flat hierarchies where decisions can be taken fast.

Time to market!

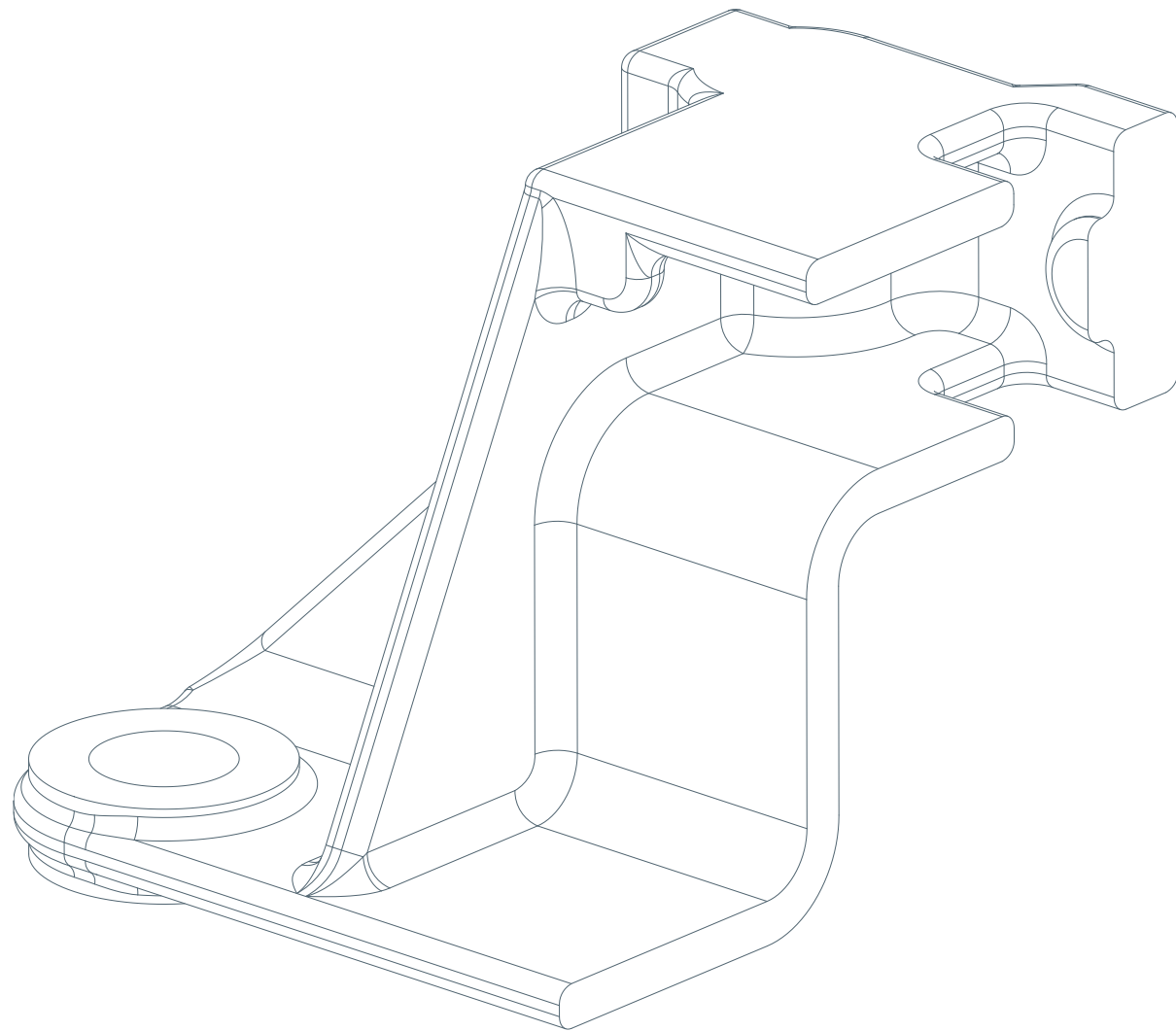
We have up-to-date IT instruments. This allows us to process orders and technical data prompt and paperless.



We turn casting materials
into products with excess values.



From a casting part to a complete system.

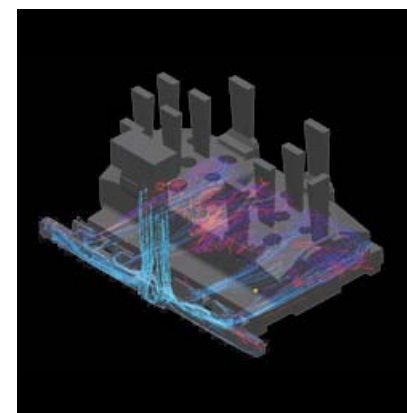


The best base for joint success are long-standing experience and our **extensive know-how**. Our customers' applications ask for the highest demands on components. This calls for great motivation and flexibility on the part of our employees to satisfy the comprehensive requirements.

Apart from providing casting parts, we also offer additional further processing steps such as machining, surface treatment and assembly. Such system solutions require stable process sequences with high demands on compliance with quality standards. Cross-process expertise is of decisive significance for the high quality of our products. It reflects a key aspect of our mission statement – to be «**a part of the success**» of our customers.



Casting technology is multifaceted –
just like our customers.



Calculating the pouring process, filling and solidification simulation



Top quality finished castings, from molten iron to a complete system solution



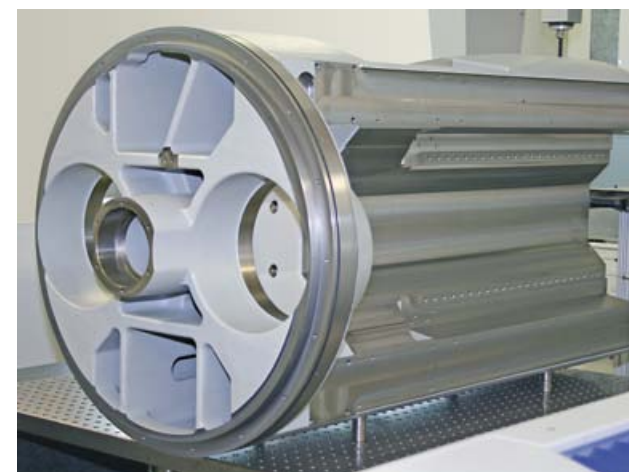
This is how unique products are produced – single parts or in series

«two in one» The network – strengths ahead.

BENNINGER GUSS AG and its long-standing partner, Knoepfel AG, form the core of the «two in one» **network**. On various technological levels such as engineering, raw parts production, precision machining, heat treatment or surface treatment, customers are offered sophisticated complete solutions with a high process and deadline reliability.

The network is extended by partner companies (members) and their expertises depending on the requirements. This ensures that customers receive a one-stop, bespoke and complete solution.

«two in one» is the competence centre for a quick and easy order fulfilment. You only have to take one step to be two ahead of the rest.



«two in one», realising complex products on the highest quality level

Competence can be
so efficient.

STOCK PARTS

The solution is called speed.

STOCK PARTS – the BENNINGER GUSS AG business division for **standard solutions**:

- Gravity die castings
- Continuous castings
- Hollow bars/bushings
- Standard plates
- Clamping elements

Our gravity die castings, **BSP**, are produced by a unique method developed by BENNINGER GUSS AG. BSP is characterised by a high homogeneity and compact structure. These stress-relief annealed materials can be perfectly processed. This certainly pays off because you save time and money during further processing.

Continuous castings have a very good structural density. The product is in stock in various material qualities and sizes, unmachined or rough-machined, in standard lengths up to a maximum of 3,100 mm.

Standard plates of gravity die castings, hollow bars/bushings up to a length of 1,000 mm and clamping elements produced by sand casting can be called up at short notice.

STOCK PARTS

The fastest solution ex stock.

benshop@benningerguss.ch



BSP – gravity die casting



Standard plates and clamping elements



Continuous castings



Hollow bars/bushings

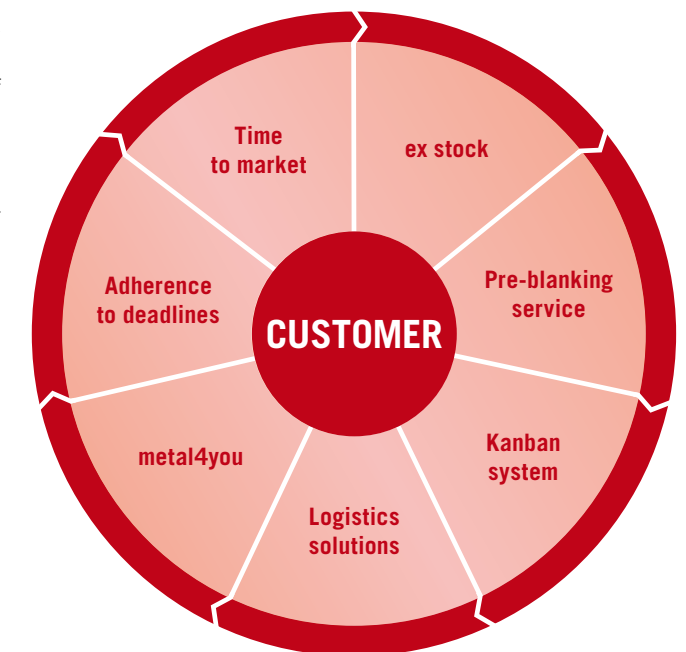
Gain more quality –
gain more time.

STOCK PARTS

Our services – your advantage.

Standard means high availability and fast deliveries of stock materials. The offer is rounded off by further services such as pre-blanking, variable logistics solutions or the delivery of semi-finished products.

You can view the complete assortment of the STOCK PARTS division online at www.benningerguss.ch and make inquiries or place orders through benshop@benningerguss.ch.



Extended possibilities for procurement can be found on the distribution platform **metal4you**.

BENNINGER GUSS AG is a partner of metal4you.

Leave the procurement of standard materials up to metal4you and its network partners. This means that you profit from not just better terms and coordinated material procurement processes; you also have more time for your important core competences and tasks!

Quick, economical and comfortable – these are the advantages offered by the distribution platform metal4you:

- Other materials can be ordered alongside casting products
- Better terms for bundled orders of different products
- Lower logistics costs through collective deliveries



**Standard solutions in gravity die
and continuous castings.**



www.metal4you.ch

You can't buy a good name. You have to earn it.

Casting materials from BENNINGER GUSS AG impress with incomparable strengths in their fields of application. Apart from our classic iron-carbon materials, grey and spheroidal cast iron, we also process special materials:

- If the demands on elongation and tensile strength are high, our **BENODUR®** materials offer the ideal solution. This family of materials was developed in close cooperation with our customers.
- Anyone looking for a better alternative to forged steel or steel castings will find it in **ADI**. These exceptional materials open up new possibilities for use. There's no getting round these materials for highly stressed and weight-optimised components. Thanks to a special heat treatment, the **ADI** materials achieve exceptionally high values with respect to wear resistance and toughness. **ADI**ng up these advantages leads to your benefit.
- Applications with higher temperature loads are where **SiMo** is used. Apart from their high thermal strength, **SiMo** materials are characterised by a higher scaling resistance compared to a normal spheroidal cast iron.

Exceptional applications call for exceptional materials.

Apart from our classic iron-carbon materials GJL and GJS, we also process the following special materials:

BENODUR®

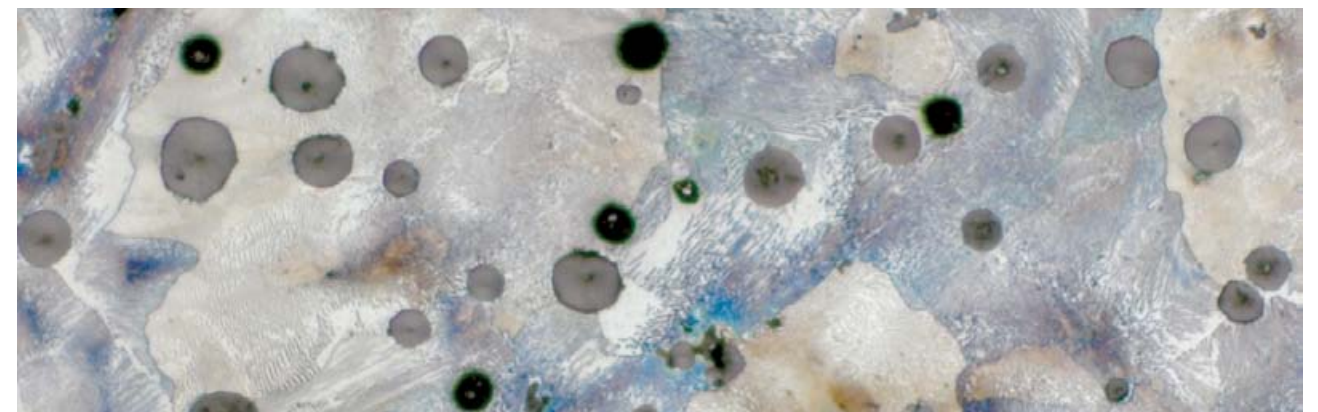
Expanding the resistance to stress

ADI

The better alternative to steel

SiMo

For hot demands



Spheroidal cast iron micrograph

Endowed with the
best characteristics.

Only casting can be
a product and method
at the same time.

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