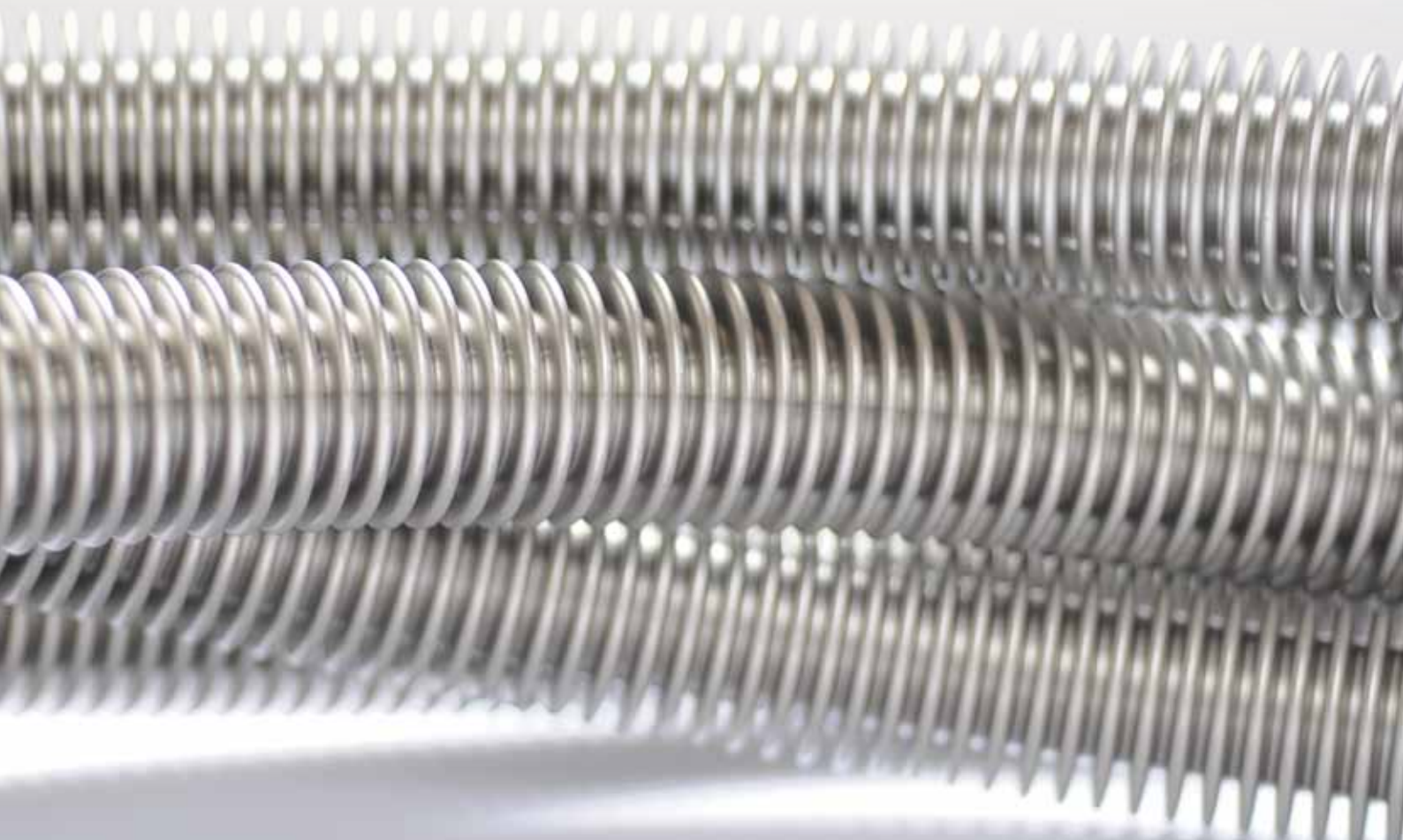


# Flexxibi

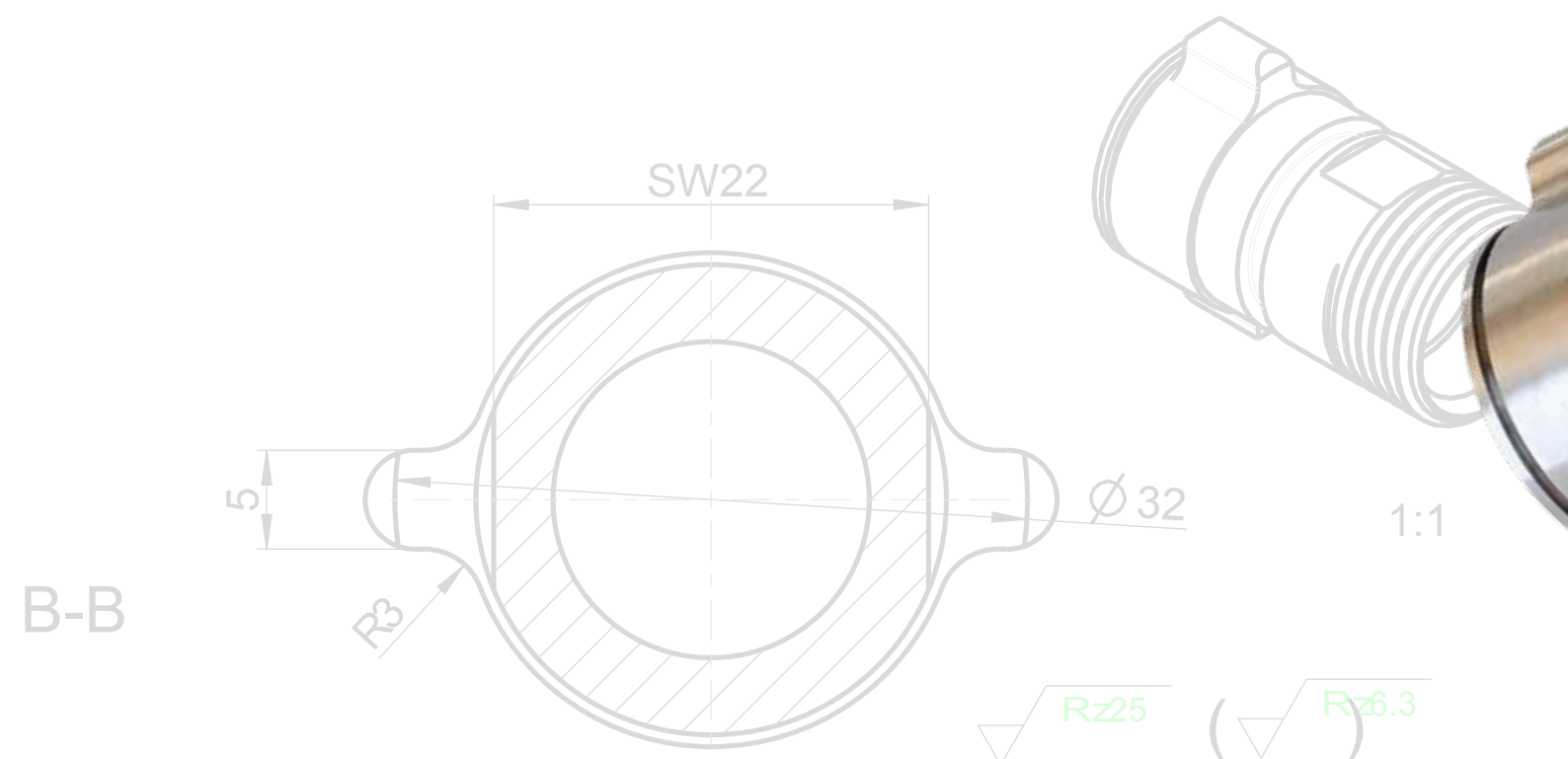


*Hoses, Compensators & Connection Components*





## About us







## Welcome to Flexxibl

your competent partner for flexible technology

Since Herr Timm Beutler founded the company in 2002, the Flexxibl GmbH has specialised in the manufacture and making up of hoses, compensators and connectors for the thermal solar and industrial sector. For this purpose we have available several CNC machining centres, special laser welding machines with automatic control, and also automatic plasma welding machines.

We employ the latest manufacturing methods and technologies to fulfil individual customer requirements, for both one-off and series manufacture, quickly and to very high precision. The first step is the preparation of a 3-D drawing model which acts as the basis for the design process and for the subsequent manufacture of the item.

After a final quality inspection we dispatch the products safely, quickly and reliably.

Our top priority is to design and produce a tailor-made end product. We do this efficiently, individually, economically and to the highest technical standards.



## Quality is what counts

In concept and production, technical know-how and a high degree of high-quality technology both play a critical role.



## *Production departments*

### **Pipe-end machining**

The "pipe-end machining" production department manufactures fully individual shapes at the end of a pipe. This shaping is of particular importance for the connections on thermal solar collectors.

We have the capability to perform pipe-end machining directly on the manifold of a collector. This saves costs both on material and in manufacturing the collector. The manifold pipe is part of the solar collector. It is a copper pipe via which water is distributed to the bank of pipes or serpentine pipes.

In this production department we also use flow-forming to prepare the holes for subsequent brazing to the serpentine pipes / bank of pipes.

### **Machining technology – turning and milling**

A further essential and critical production department is our own in-house machining technology. All the turned and milled parts that are produced here are used for our own production. We keep the customer's individual requirements clearly in mind. Based on a 3-D design model we create high-quality products with greatest flexibility and at highest standard.

We can produce prototype samples and small batches to high precision on short lead times. In this production department we machine a wide variety of materials such as steel, stainless steel, brass, aluminium and also copper to high process reliability.



## Welding technology

Five different welding technologies are necessary to cover the needs and requirements for the wide and individual variety of products in our production department.

Depending on the customer's requirements, the following technologies are employed here:

- Tungsten inert gas welding (TIG)
- TIG pulse welding
- Plasma welding
- Laser beam welding
- MIG / MAG welding

## "Pipe systems" manufacturing (duo pipes)

"Pipe systems" is a further production department. Here various pre-insulated pipe systems are manufactured, including those for connecting the solar collectors on the roof to the heating system in the cellar.

We make complete hose and pipework systems to customer requirements in any length and any nominal bore.

The structure of the system consists of one or more flexible elements (corrugated pipe or annealed copper pipe) carrying the media. These are insulated with insulation appropriate to the application. If required, multi-core control cables can be supplied. Systems can be bundled using either PE film or a braided covering.

In addition, suitable connecting pieces, screw fastenings and instruction manuals can be supplied.

## Further processing of pipework and hose systems

An essential and important core competence in the production area is the processing or reprocessing of the finished pipework and hose systems.

According to individual requirements, products can be supplied with additional elements such as pipe clips, O-rings, ring clamps or nuts.

Of course for rotational and plug-in technology high quantities can be manufactured and further processed.



## Solar and heating technology

Flexxibl GmbH is a manufacturer of flexible pipe elements for use in thermal solar technology. Associated with these we supply collector manifolds, connection pipes and duo pipework systems. These products are manufactured individually in our own factory. Because of the extremely wide range of manufacturing facilities with our own machine shop and automatic laser welding technology, these products can be manufactured flexibly in any quantities and to any design. Our initial 3D design model allows us to implement cost-oriented planning and production.

In the department for pipe-end machining, manifolds and distributor pipes for the thermal solar collector can be adapted individually to the required connection technology. This enormously simplifies the installation of a collector system and at the same time represents a unique selling point for the collector.

These production facilities coupled with high stocks of parts ensure very high flexibility and short lead times.

## *Fields of application*



## Industrial technology (concentrating on steelworks)

Flexxibl GmbH at Braunschweig both manufactures and makes up stainless steel hoses, stainless steel compensators and pipework components for industry.

A wide range of raw materials is available for different hose flexibilities and materials permit individual design of hoses to DIN ISO 10380 and DIN ISO 10806.

A large stock of connection components permits a rapid manufacturing response. The employment of a range of different weld-

ing technologies allows these products to be manufactured as little affected by heat as possible. In recent years the benefits of laser welding have emerged particularly clearly. The classic arc welding processes (TIG, plasma) remain available as alternative joining techniques, supported by competent craftsmen. 100 percent testing of all products guarantees the highest reliability and longest working life.

Flexxibl GmbH has introduced a quality management system to ISO 9001.





*Flexxibl - that's our philosophy*

**We are there for you.**

We have been involved in our markets, products and requirements for more than 10 years, and we either already know a solution to your individual requirements or we can design it.

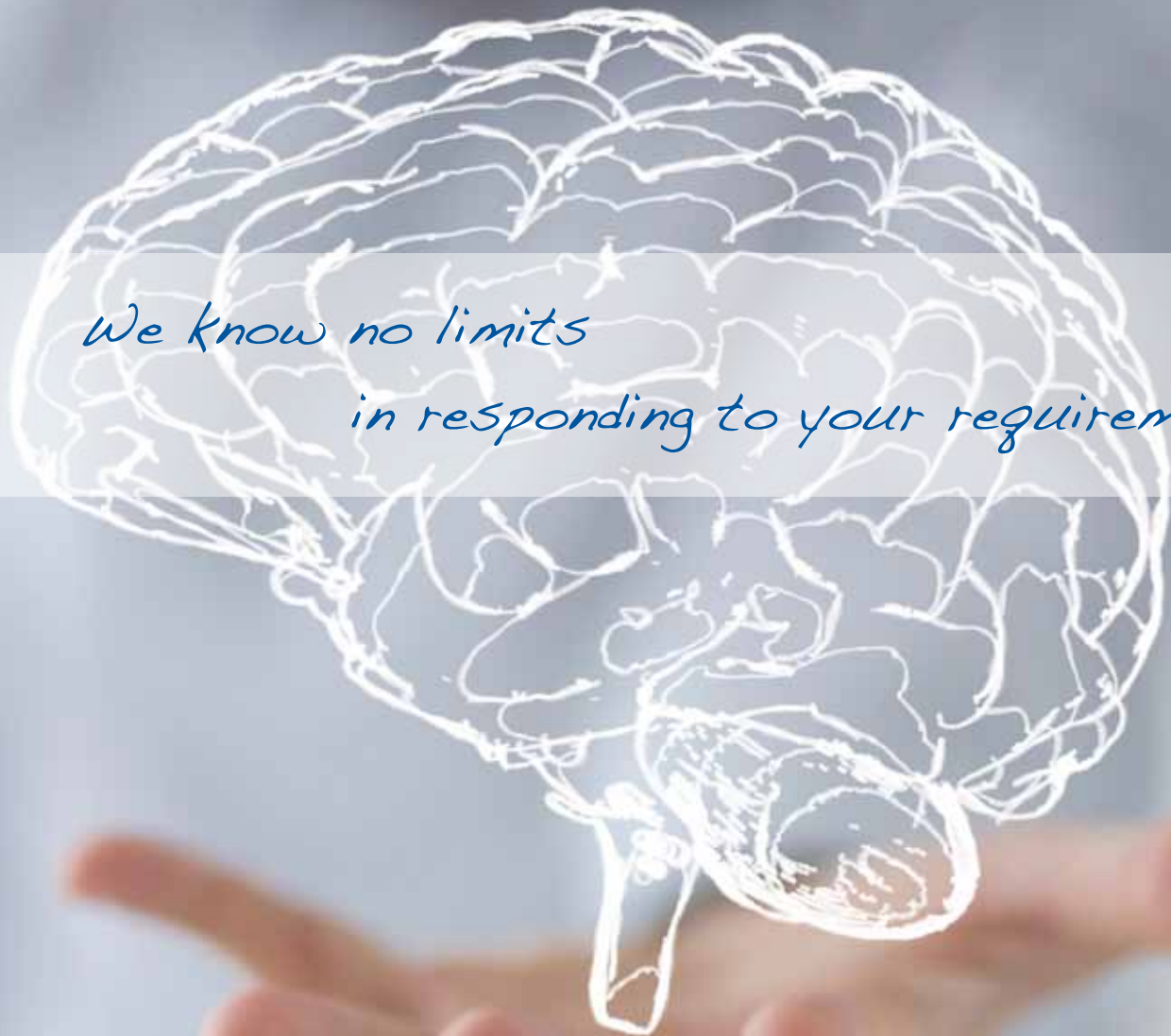
Our highly educated and qualified staff will be pleased to advise you. No matter how individual your requirements - we will deliver 100 percent satisfaction! From standard products through to tailor-made special solutions, we produce with great care and top quality.

"Made in Germany" stands for the highest standards of quality, flexibility and precision. We combine these with very high efficiency and cost-awareness.

From Braunschweig we ship to the whole world!

*Expect everything  
from us!*





*We know no limits  
in responding to your requirements!*



*We are there  
where*

## *Our strengths*

- Flexible technology
- Technical know-how
- 3-D design models
- Precision
- Passion
- Individuality
- Personality
- Service on site
- Everything from a single source, manufactured in-house
- Diversity
- Hydraulic thermal collector connections

## **Our customers**

- Germany
- Denmark
- England
- Finland
- France
- Italy
- Norway
- Austria
- Poland
- Sweden
- Switzerland



*When you need us!*





# Flexxibl

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*Tailor-made products from a single source*

