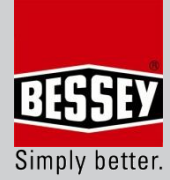




# BESSEY Precision Steel

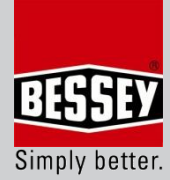


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# BESSEY Precision Steel – The History



1889

Foundation of a bright steel drawing plant in Stuttgart by Max Bessey

1966

Stainless steel is added to the product range



1983

Concentration on bright steel production at new manufacturing site in Bietigheim

2004

Establishing the independent BESSEY Präzisionsstahl GmbH



2006

As part of the strategic direction for service partner:

Installation and startup of the ultrasonic inspection system with latest phased array technology

# BESSEY Precision Steel – The History



130 Years  
1889-2019

2011

2012

2019

Expansion of the shareholder base by Managing Director K. Fuchs

Installation of the latest eddy-current testing systems

Investment in a Remagraph for the detection of magnetic properties

130-year anniversary  
Foundation of  
BESSEY  
Präzisionsstahl  
Vertriebsgesellschaft mbH

- Continuous development as a strategic partner and "problem solver"
- Investments in the latest manufacturing and inspection technologies allow the fulfillment of the highest claims
- As a family owned business – market presence in the future with the mark "Made in Germany" and "BESSEY. Simply better."

# BESSEY Precision Steel – The Brief Portrait

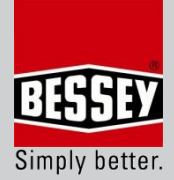
## About us

- BESSEY Präzisionsstahl is one of the leading German manufacturer- and trading-independent supplier of high quality bright- and stainless steels, using the latest production- and inspection-techniques.
- BESSEY Präzisionsstahl offers a high level of customer service by means of:
  - ➔ Technological and metallurgical consulting
  - ➔ High supply flexibility
  - ➔ Solutions for demanding product requirements





# BESSEY Precision Steel – The Success Factors



## Quality

Raw material from selected manufacturers is processed in modern production and inspection plants to precision steel bars.

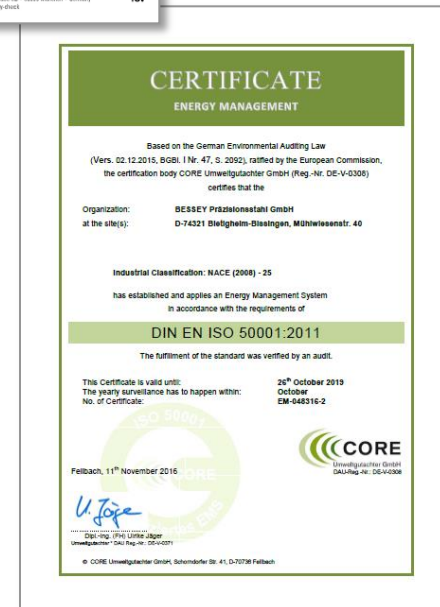


# BESSEY Precision Steel – The Success Factors



## Quality

The continuously improving quality standards are verified by means of certification of the products and quality management system.



## Flexibility

The ability to reach decisions quickly and a large machinery park enable us to react flexibly to varying requirements.



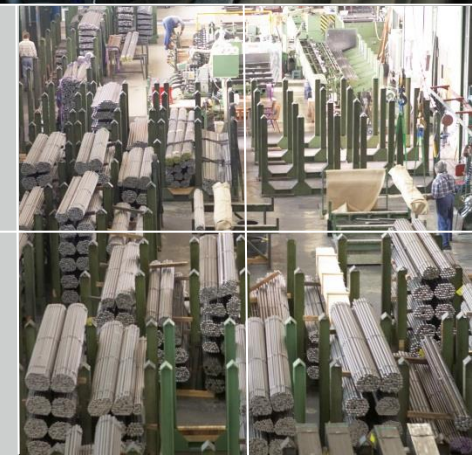
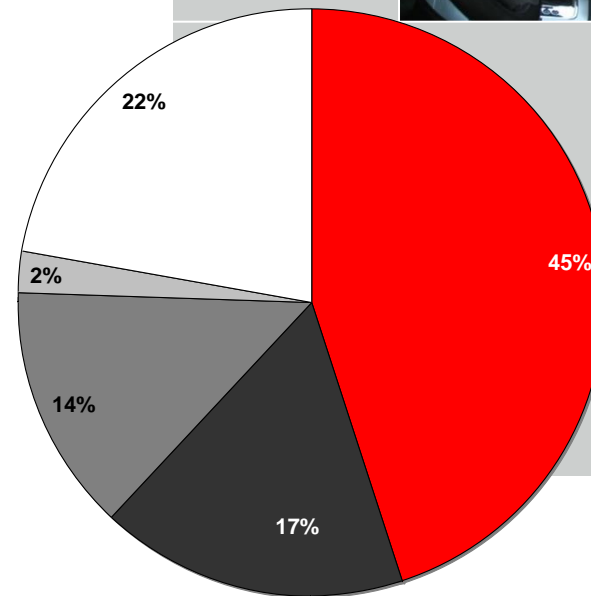


## Customer orientation

Close contact to our customers is important to us.

We consider new market trends and the increasing requirements from our customers for precision and machinability of the materials to be a challenge.

- Turneries (incl. Automotiv Tier2+3)
- Mechanical engineering
- Automotive (OEM / Tier1)
- Fastening technology
- Miscellaneous



# BESSEY Precision Steel – The Products

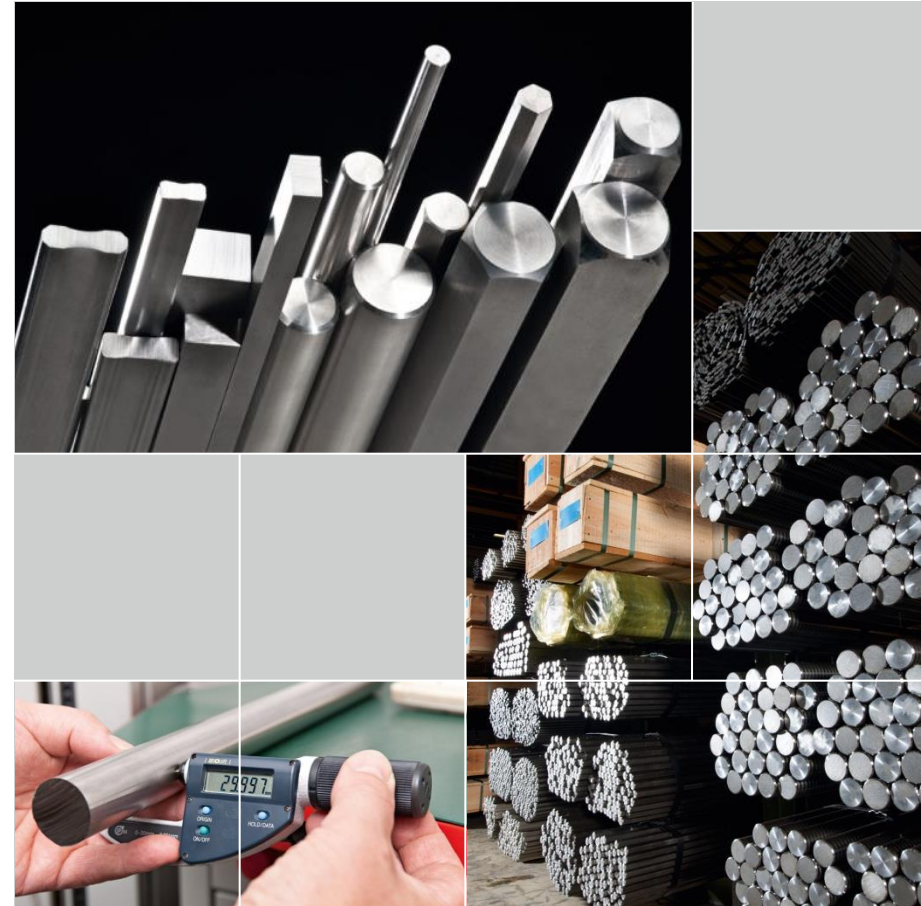
- Free-cutting steel
- Steel for general technical applications
- Case hardening steel, quenched and tempered steel and anti-friction bearing steel
- Rust-proof and acid-resistant steel (stainless steel)
- On request: Cold-heading steel and nitrided steel

Our qualified engineers are also able to find suitable solutions for individual applications.



## Examples of applications in different industries

- Special materials for the automotive industry e.g. Common-Rail systems
- Visually appealing solutions for the Furniture Industry, Laboratory and Medical Technology
- Customers with special requirements:
  - Magnetic valve steels
  - Linear technology
  - Textile industry
  - Gas pressure springs for automotive and furniture industry
  - Hydraulic, fluidic and mechanical connection technology



# BESSEY Precision Steel – The Range of Services

- **Manufacturing:**  
drawing, peeling, grinding, sawing
- **Dimension range:**  
6-100 mm
- **Surface processing:**  
grinding of demanding surfaces
- **Profile:**  
round, square, hexagon and flat,  
as well as other special profiles on request
- **Test techniques:**  
ultrasonic, ferro flux, eddy current crack  
detection, individual customer test  
techniques with certification e.g. sorting,  
visual inspections, etc.
- **Tolerance range:**  
ISO 6 to 11 / bar lengths 3-7 m





## Performance parameters of the phased array ultrasonic inspection:

- Test references to KSR 0,7 mm
- Area of evaluation: 10-44 mm bar diameter
- Fault detection in dynamic operation: 10 mm fault length
- Uninspected bar ends 50 mm (both ends)

## Surface inspection systems through Eddy-Current testing systems:

- Inspection area 6-50 mm
- Examination in a continuous process (Defektomat) in the drawing lines
- Examination in a continuous process (Defektomat) and / or rotation method (Circograph) in two offline test systems



# BESSEY. Simply better.

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