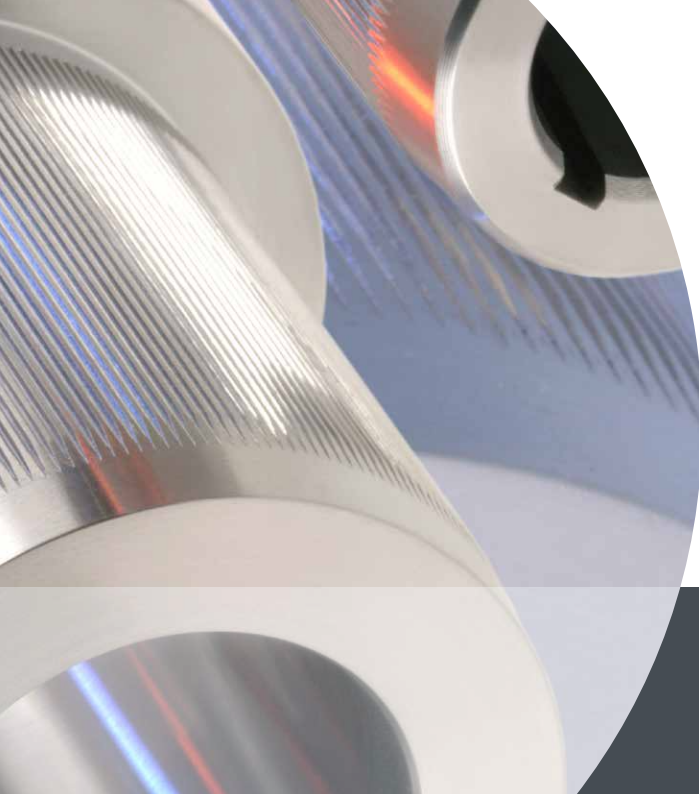




MEDICAL ENGINEERING



## Medical Engineering – life-critical precision

We are **the specialist for sophisticated precision mechanical components** and assemblies in the area of medical engineering.

We take up any challenge:

We are most notably unmatched when processing **extremely demanding components** from **difficult-to-machine materials**.

From the **beginning of a project** right until **production** we serve as your **competent developing partner** with longstanding expertise.

# COMPETENCE



## Partnership – right from the beginning

We gladly advise and support you on:

- ↳ Selecting **optimum production materials** for your purposes
- ↳ The determination of **production tolerances** and **surface qualities**
- ↳ Defining **suitable production** and **manufacturing procedures**
- ↳ Design activities (CAD) and performing risk analyses

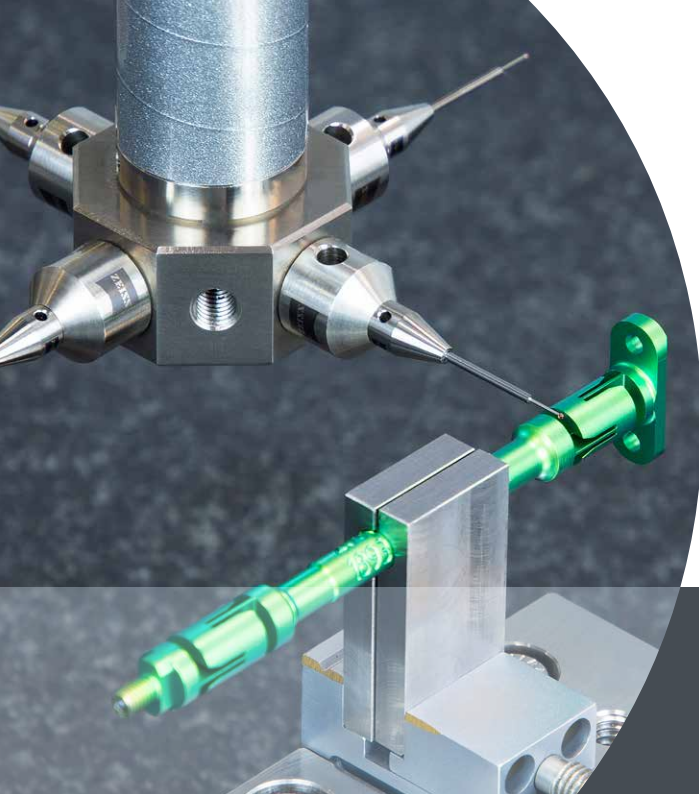
# PARTNERSHIP



## High-level CNC machining technology

- ↳ We provide in-house turning, milling, grinding, honing and lapping.
- ↳ We process **all common production materials** in the medical engineering domain.
- ↳ We assemble, clean and package inside a **cleanroom** (ISO Class 7).
- ↳ We offer **heat treatment, surface coating** and **special procedures** cooperating with qualified suppliers.

# PRECISION



## Quality – more than just display of certificates

- ↳ We are certified according to **DIN EN ISO 13485**, **DIN EN ISO 9001** and **DIN EN 9100**.
- ↳ We guarantee **most thorough traceability** and documentation of processes.
- ↳ We make use of the **most modern testing technology** via shape testers and optical / tactile 3D metrology machines.
- ↳ We offer **validated production facilities** and manufacturing processes.

# BEST QUALITY

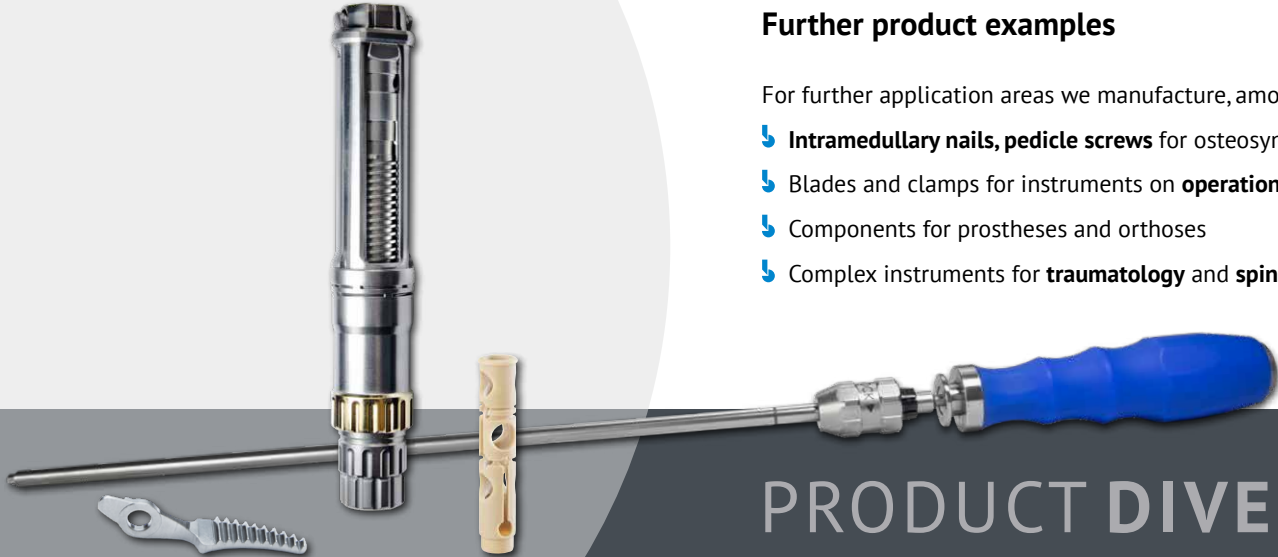


## Our range of products

We produce various precision components and assemblies for **active implants**, such as:

- ↳ Critical components for **cardiovascular assist devices**
- ↳ Highly sophisticated components for **cardiac pacemakers**
- ↳ Entire **ports** and feeding devices
- ↳ **Hydrocephalus valves** of different types

# PRODUCT DIVERSITY



## Further product examples

For further application areas we manufacture, among other things:

- ↳ **Intramedullary nails, pedicle screws** for osteosynthesis
- ↳ Blades and clamps for instruments on **operation robots**
- ↳ Components for prostheses and orthoses
- ↳ Complex instruments for **traumatology** and **spinal surgery**

# PRODUCT DIVERSITY



## BEUTTER – your partner for precision

- ↳ BEUTTER was founded in 1909 as company for clocks.
- ↳ Today, we consist of 150 employees; in the production field, a proportion of 85% are qualified specialist workers.
- ↳ We have specialized in **small- to medium-sized production runs**.
- ↳ We are experts in processing difficult-to-machine materials with challenging surfaces and tight geometric tolerances.
- ↳ We are your **partner for sophisticated precision components** and assemblies with large vertical integration via CNC machining.

YOUR PARTNER