

# Hobe Micro Tools - Accurate down to the $\mu$ for more than 50 years

**A**t Hobe, innovation results from motivation. The medium-sized enterprise is perfectly dimensioned to foster an effective innovation culture. Thus, every employee is encouraged to contribute creative ideas and new solutions. As a company, it regards its clients' complex demands as welcome challenges, which it meets by delivering seemingly impossible solutions.

## Optimum machining solutions for all industries

Hobe micro-tools are successfully in use worldwide, for example, in the manufacturing of medical instruments, precision mechanical tools, and electronic components. Whether as standard tools, special tools, or custom development: the company offers the best machining solutions for every industry and application. Its sophisticated tooling systems contribute to making its clients' production processes more efficient, with a convincing combination of innovation, product quality, and profitability.

## Quality

"We can thank our motivated, highly trained employees and their commitment to deliver our compelling product and service quality at all times to our clients. Accordingly, Hobe produces exclusively in Germany with development and manufacturing all under one roof. All

business processes are reviewed by a certified quality management system according to DIN EN ISO 9001:2015 and are continuously improved. For us, quality means optimum product properties, tailor-made tool and process solutions, and a reasonable price-performance ratio," says the company.



**SDG – boring bar for accurate inner shaping of a dental implant combined with SDA tools holder with highest accuracy on repeatability (5  $\mu$ m)**

## Medical technology

The manufacture of medical devices and components requires extraordinarily powerful tool solutions. This is particularly true for materials that pose difficult machining requirements, such as titanium or stainless steel. And this is where Hobe's solid carbide micro-tools excel. Its exceptional performance guarantees the desired dimensional and shape accuracy, as well as surface quality, at all times. Furthermore, selected carbide grades with outstanding wear and flexural strength ensure a long tool life. In medical technology, meeting manufacturing precision requirements presents increasingly complex challenges. Medical components are subject to progressive miniaturization and sophistication. On the other hand, growing cost and time pressures make higher productivity a must. Typical examples in this field are:

- Pacemaker – internal shaping of electrode components
- Resectoscope – tube fitting (e.g. internal shaping) and
- Lens fitting (e.g. internal grooving)



**BRM – single tooth broaching tool for multi range hexagonal profiles**

## Implantology

Human implants and prostheses require the highest quality standards. This is the only way to avoid health risks and achieve a long product life. Accordingly, extremely corrosion- and wear-resistant materials are used in the manufacture of medical devices. The Hobe Microtools range includes a wide range of SC high performance tools that are ideal for medical device production. "Hard-to-machine materials such as platinum, titanium, stainless steel, and special alloys present us with special challenges in tool development – which we gladly accept. Through intensive exchange with customers, we have in-depth process knowledge in the field of implant prosthetics and dental technology," the company reiterates.

## The characteristic examples for implantology include:

- Dental Implant/Dorsal Stabilisation (pediclescrew)
- Internal shaping (e.g. thread whirling, processing of multi-edge profiles). ■



Overview Hobe micro tools solutions

**HOBE** | micro<sup>®</sup> tools

Available in INDIA.  
Contact: **ZECHA Precision Tools Ltd.**  
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