

# Why with Helbling

We give you immediate access to a highly qualified and multidisciplinary team that supports your product development.

You reap the benefit of our extensive expertise in developing medical products. You can depend on a unique partner capable of managing all technical aspects of medical product development with the highest efficiency.

We ensure that your product is developed and documented in line with the latest medical standards. We transfer full control and ownership of the design and intellectual property developed during the collaboration.

Helbling – your exclusive, independent contract engineering partner for medical devices development.



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## Innovation is our driving force

Founded in 1963, Helbling Technik currently has more than 330 employees in Switzerland, Germany, USA and China.

Helbling Technik is part of the Helbling Group and functions as a long-term partner in its customers innovation network, under the motto “Innovation, together we do it”. The company’s engineers, IT experts and physicists use high-performance engineering tools, the latest infrastructure including laboratories, as well as high-quality professional approaches to generate new ideas, implement state-of-the-art technologies and develop successful new products.

## Contact

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## Medical devices

Are you planning to develop a medical device? Or do you need to translate an idea into an innovative medical product?

If you require the support of a highly qualified, multidisciplinary development team, or devices for your clinical trials, then contact us today. Helbling has the answer!

**Helbling Technik**

Innovation, together we do it

# A broad spectrum of competencies and expertises

## Design and development of medical devices

Our interdisciplinary team of engineers and scientists develop products integrating mechanics, micromechanics, electronics, optics and software.

### Our competencies include:

- System design and development
- Technology assessment
- Active implant design
- Electro-mechanical design
- Low cost plastic disposable design
- Fluidic / micro-fluidic design
- Actuator / transducer design
- Material science
- Tissue engineering

### Our development activities include:

- MedTech specific development tasks (project management, quality & risk management, usability engineering, design verification)
- Documentation according to current medical device standards (complete Design History File)
- Design transfer to producer and support during industrialization
- Technical support to client / clinics during development of clinical procedure and tests



# A team combining creativity, technology and experience

We are experienced in providing design solutions that incorporate complex functionalities without compromising on safety or ease of use. Some reference projects include:

### Long term active implants

- Direct acoustic cochlear stimulator
- Implantable pumps for chronic pain treatment
- Active shunt valves

### Hearing aids

- Ultra low cost acoustic hearing aids
- Speech processor for cochlear implant

### Drug delivery devices

- Pen injectors, Auto-injectors
- Dry powder inhaler
- Eye dropper for glaucoma treatment
- Electro-mechanical injector

### Surgical instruments and tools

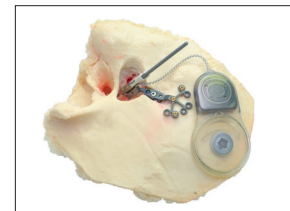
- Battery powered lithotripter
- Microdebrider for ear, nose and throat surgery
- Descaling device for dental industry

### Diagnostic devices

- Portable auto-refractometer



Implantable pump for chronic pain treatment



Implantable hearing aid: Direct Acoustical Cochlear Stimulator (DACs)

# A professional infrastructure and laboratories



## Comprehensive set of engineering and scientific software packages for:

- Mechanical / Micro-mechanical design
- Electronics design
- Optical design
- Fluidics design
- Multiphysics simulation

## Fully equipped laboratories for:

- Mechanical, electrical, optical and acoustic testing
- Metrology
- Modeling / prototype adjustment



Pen injector for growth hormones



Speech processor for cochlear implant