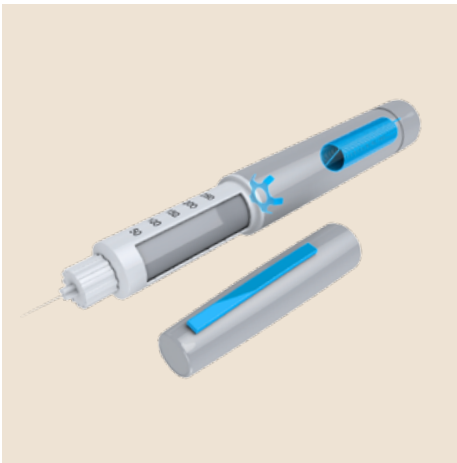


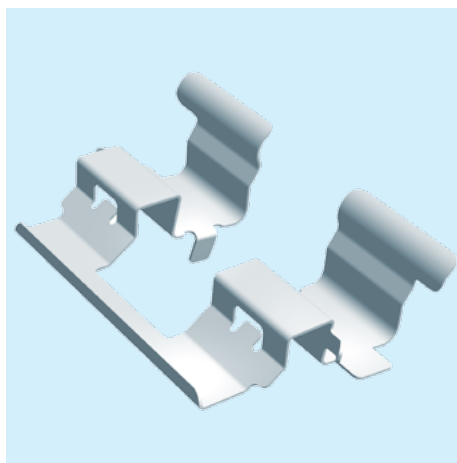
# BAUMANN MEDICAL SPRINGS AND STAMPINGS FOR MEDICAL DEVICES

“Does your medical device project need a technical spring or stamping solution? As your global partner, our specialized medical team supports your project with professional service.”

Sandro Krebs,  
Global Sales Director



Please contact us:  
[medical@baumann-group.com](mailto:medical@baumann-group.com)



# MEDICAL COMPETENCE



"BAUMANN MEDICAL is a separately managed division within the BAUMANN Group. I am proud of my global team, and our partners appreciate our expertise and can-do attitude."

Hansjürg Hartmann,  
CEO Division Medical

We are a reliable, experienced partner for **tailor-made solutions** in medical devices. As an independent division within BAUMANN Group our medical approach is a cornerstone of our corporate vision and long-term strategy. Our dedicated, **ISO13485** certified medical sites addresses the customer needs in the medical and pharmaceutical industries. BAUMANN MEDICAL has the know-how, the capabilities, and the processes to fulfill the sector specific requirements and is therefore recognized as an expert in this field.

A specialized **medical team** of professionals based in the USA, Europe, and Asia, works closely with customer teams to support the development of the best component for a device, as well as to provide the most valuable solution for a specific customer project. Thus our partners benefit from our expertise as a long-standing **world-leading springs and stampings manufacturer**. BAUMANN MEDICAL has the same high standard in business ethics, mindset, and level of aspiration at all sites.

# GLOBAL FOOTPRINT

With dedicated production sites in the **USA**, **Switzerland**, the **Czech Republic**, and **China**, we offer a global footprint with consistent processes, machinery, and services. Thus we are able to serve you around the globe – whenever and wherever you need it!



**BAUMANN USA**  
Dedicated medical production site for springs opened in 2015

**BAUMANN Switzerland**  
**Lead plant** and technology hub for Division Medical. Production site for spring projects and ramp-up of tailor-made processes

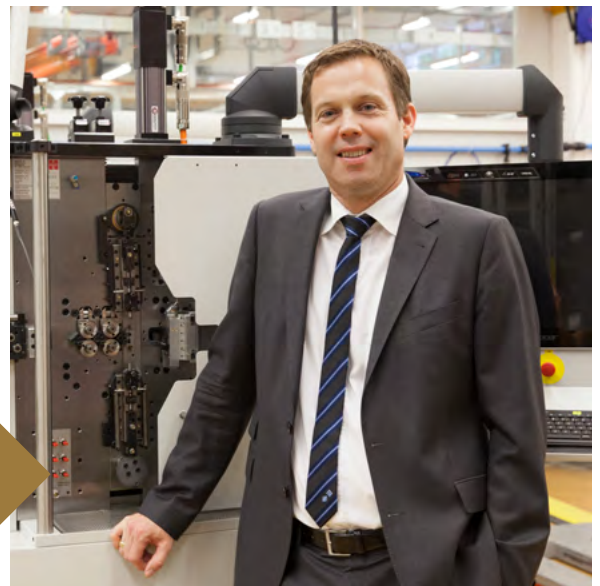
**BAUMANN Czech Republic**  
Production site for wire coil springs used in airway products

**BAUMANN China**  
Production site for medical springs

**BAUMANN Singapore**  
Medical stamping production

“BAMATEC combines the unique spring knowledge of BAUMANN with proven expertise in machine development to optimize the manufacturing process for our customers. We support medical production through global technology transfer to ensure high quality standards for their customers operating worldwide.”

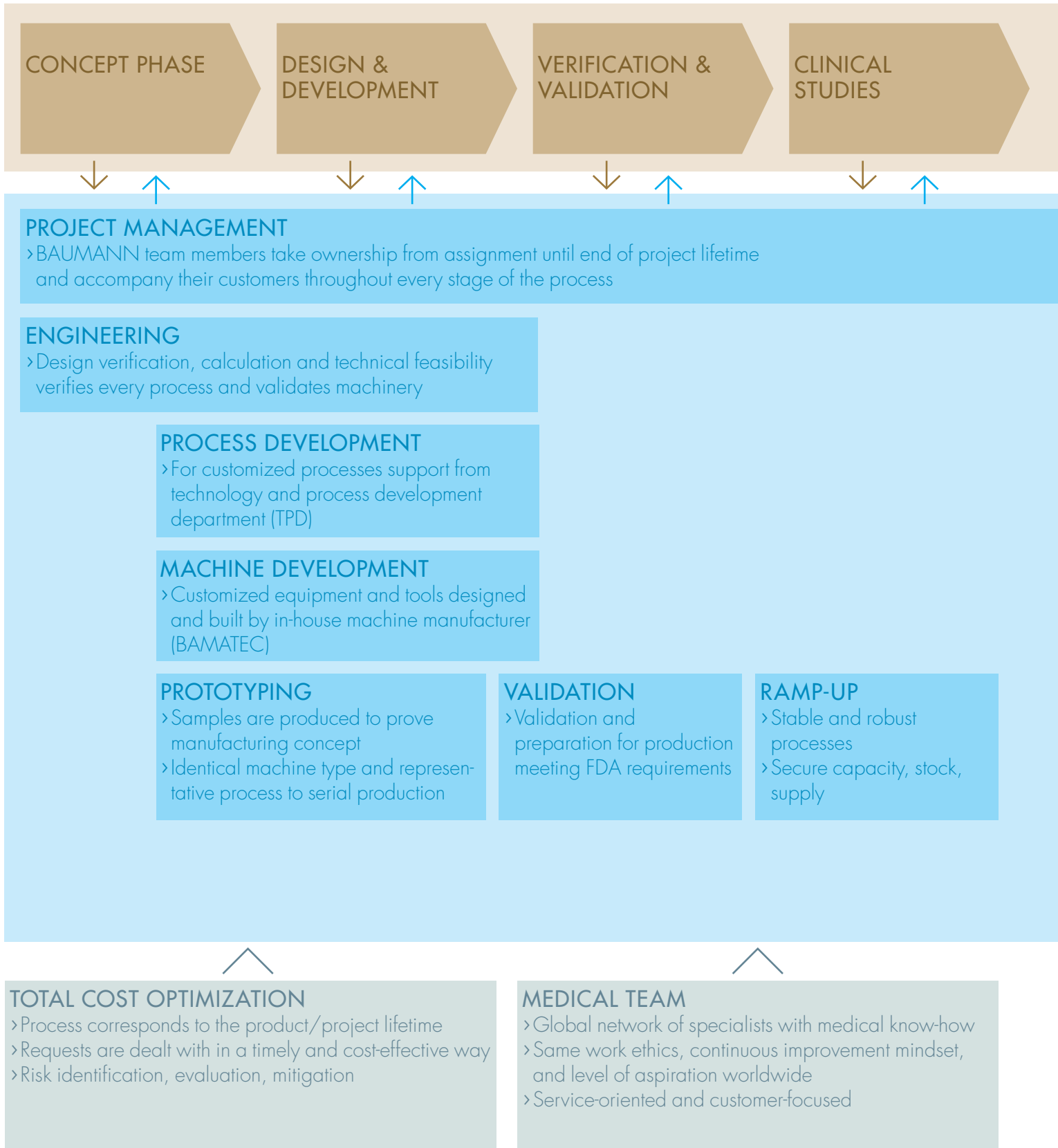
Uwe Bräuning,  
CTO BAUMANN Group (BAMATEC and TPD)\*



\* BAMATEC (BAumannMACHINETECnology) and TPD (Technology and Process Development) are part of the BAUMANN Group

# DEVELOPMENT PARTNER

A team of experts with a medical mindset and an **understanding of customer needs** and their products is the focal point of contact in any project. Thanks to early involvement and **close collaboration**, we ensure an effective process from development through assembly into high volume series.



# SERIAL PRODUCTION

Advanced quality planning, in-process control, and validation ensure **robust processes and scalability** during serial production to exceed customers expectations. BAUMANN MEDICAL guides customers through timely and cost-effective choices of packaging, storage, and **supply chain security**.

## MARKET INTRODUCTION

### PRODUCTION & ASSEMBLY



### PROJECT MANAGEMENT

- > Single commercial and technical point of contact with overall project accountability
- > Technical support: handling of change requests, redesigns, continuous improvement projects

### PROCESS AND MACHINE OPTIMIZATION

- > Increase efficiency, reduce waste, optimize supply chain

### MANUFACTURING

- > Escalation of production and global expansion
- > GMP/GDP compliance
- > In-process quality assurance (IPC/SPC)
- > On-time delivery

### CUSTOMER SERVICE

- > Close collaboration and efficient communication
- > Align order, production planning and logistics with customer

### QUALITY MANAGEMENT

- > ISO 13485
- > Risk analysis
- > CAPA process
- > Continuous improvement
- > IPC/SPC

# MARKET FOCUS



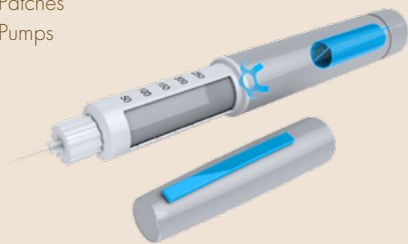
“Our ambition is to be the global market leader for springs and stampings in selected medical business fields. Our expertise allows us to exceed expectations when providing support and know-how to OEMs, contract manufacturers, and design offices.”

Wallace Shi,  
Key Account Manager Asia

## TARGETED MEDICAL APPLICATIONS

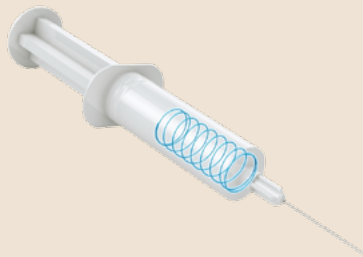
### DRUG DELIVERY DEVICES

- Auto-injectors
- Pens
- Inhalers
- Needle-free injections
- Patches
- Pumps



### SYRINGES

- Needle retraction systems
- Safety syringes
- Needle protection systems



### BLOOD COLLECTION

- Safety mechanisms



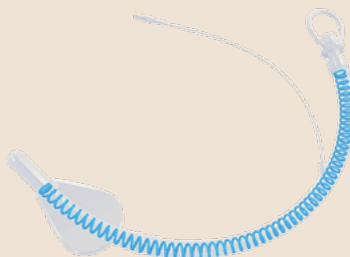
### DIAGNOSTICS

- Blood glucose meters
- Combined devices
- Lancets



### AIRWAY PRODUCTS

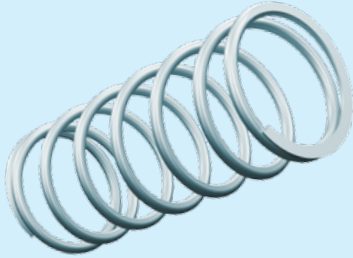
- Endotracheal tubes



## CORE PRODUCTS

### COMPRESSION SPRINGS

0.10–1.60 mm / 0.004–0.063 in  
(wire diameter)



### DOUBLE COMPRESSION SPRINGS

0.10–0.80 mm / 0.004–0.032 in  
(wire diameter)



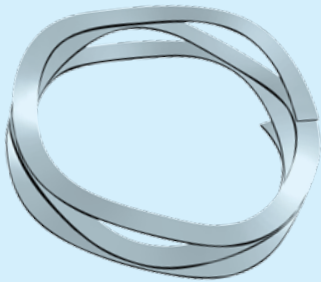
### TORSION SPRINGS

0.10–1.60 mm / 0.004–0.063 in  
(wire diameter)



### WAVE SPRINGS

Starting at 0.12 × 0.40 mm / 0.005 × 0.016 in  
(material size)



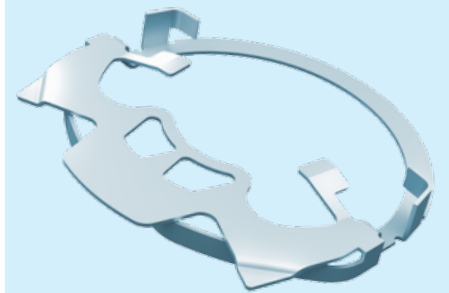
### EXTENSION SPRINGS

0.10–1.60 mm / 0.004–0.063 in  
(wire diameter)



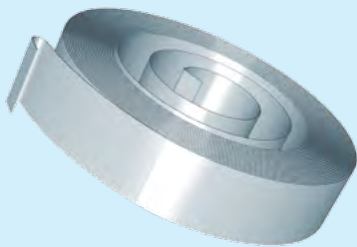
### STAMPINGS AND PRESSINGS

Max. 1500 kN



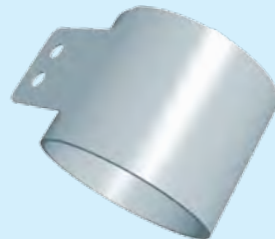
### POWER SPRINGS

Starting at 0.05–0.25 mm / 0.002–0.010 in  
(strip thickness)



### CONSTANT FORCE SPRINGS

Starting at 0.05–0.36 mm / 0.002–0.014 in  
(strip thickness)



## ... AND MORE

### MATERIALS

- > Stainless steel
- > Carbon steel with corrosion-resistant coating
- > Extra high tensile carbon steel
- > Texture rolled carbon steel

### SERVICES

- > Cleaning
- > Packaging solutions (i.e. tray packaging, pre-assembly solutions and sterile packaging)
- > Sample taking per customer need
- > Fully automated manufacturing lines

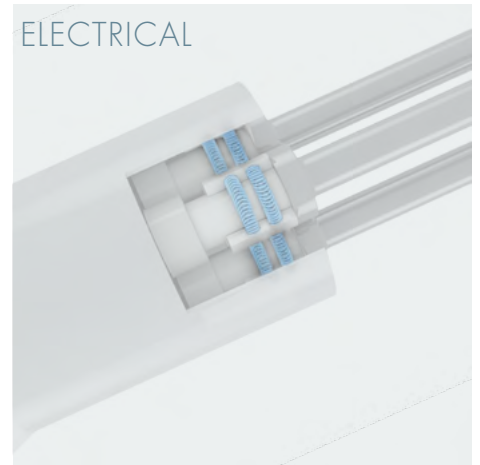
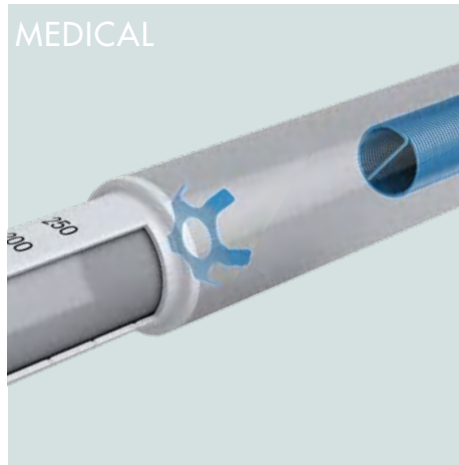
# BAUMANN GROUP

## BAUMANN – BEYOND SPRINGS, BEYOND WORK

Springs, stampings and bent components are our specialty – the **success of your project** is our goal. We have specific know-how in certain applications which makes us a recognized expert and technical consultant in our fields. But you can expect more from us. It's the way we work with you that makes us a valuable member of your project team. With **more than 125 years** of experience and our **1500 employees in eleven locations** around the world, we are eager to support you wherever you are.

[www.baumann-group.com](http://www.baumann-group.com)

## OUR FIELDS OF EXPERTISE:



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