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
“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 **customized 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 address 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.
With dedicated production sites in the **USA, Switzerland, the Czech Republic, Singapore** 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!

“In Group Technology we combine unique spring and stamping competence, excellent development capabilities and proven expertise in mechanical engineering to design and optimize manufacturing processes. The global transfer of knowledge and technology ensures high quality standards for our worldwide operating customers.”

Rolf Meier,
Head of Group Technology
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.

**DEVELOPMENT PARTNER**

**PROJECT MANAGEMENT**
- BAUMANN team members take ownership from assignment until end of project lifetime and accompany their customers throughout every stage of the process.

**ENGINEERING**
- Design verification, calculation and technical feasibility verifies every process and validates machinery.

**PROCESS DEVELOPMENT**
- For customized processes support from BAUMANN Group Technology and global product and process engineering.

**MACHINE DEVELOPMENT**
- Customized equipment and tools designed and built by in-house machine manufacturer.

**PROTOTYPING**
- Samples are produced to prove manufacturing concept.
- Identical machine type and representative process to serial production.

**VALIDATION**
- Validation and preparation for production meeting regulatory requirements.

**RAMP-UP**
- Stable and robust processes.
- Secure capacity, stock, supply.

**TOTAL COST OPTIMIZATION**
- Process corresponds to the product/project lifetime.
- Requests are dealt with in a timely and cost-effective way.
- Risk identification, evaluation, mitigation.

**MEDICAL TEAM**
- Global network of specialists with medical know-how.
- Same work ethics, continuous improvement mindset, and level of aspiration worldwide.
- Service-oriented and customer-focused.

**CONCEPT PHASE**

**DESIGN & DEVELOPMENT**

**VERIFICATION & VALIDATION**

**CLINICAL STUDIES**
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.

**Production & Assembly**

- ISO 13485:2016
- Risk analysis
- CAPA process / IMS Integrated Quality Management System
- Continuous improvement process
- IPC/SPC

**Project Management**
- Single commercial and technical point of contact with overall project accountability
- Technical support: handling of change requests, redenigns, continuous improvement projects

**Process and Machine Optimization**
- Process and machine optimization
- Increase efficiency, reduce waste, optimize supply chain
- Specific continuous improvement projects/initiatives

**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 13485:2016
- Risk analysis
- CAPA process / IMS Integrated Quality Management System
- Continuous improvement process
- IPC/SPC

**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.
“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**
- Autoinjectors
- Pens
- Inhalers
- Needle-free injections
- Patches
- Pumps
- Connected devices

**SAFETY SYRINGES**
- Needle retraction systems
- Needle protection systems

**BLOOD COLLECTION**
- Safety mechanism

**DIAGNOSTICS**
- Blood glucose meters
- Combined devices
- Lancets
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

... 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, bulk, foil, tape & reel, hygeniec area)
- 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 130 years of experience and our 1400 employees in eleven locations around the world, we are eager to support you wherever you are.

www.baumann-group.com

OUR FIELDS OF EXPERTISE:

AUTOMOTIVE

MEDICAL

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ELECTRICAL

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