



PRECISION IN METAL

STÜKEN

Consistency in performance can only be fully achieved with change

There are things in a company that must remain constant: the demand for quality, the aim towards extraordinary customer satisfaction, and mutual trust. However, there are things where change is necessary. The company needs new knowledge, new skills, and must continuously develop new products and solutions. Only with innovation is it possible to steadily meet the demand for quality, to reach the target of exceptional customer satisfaction again and again – and to maintain trust.



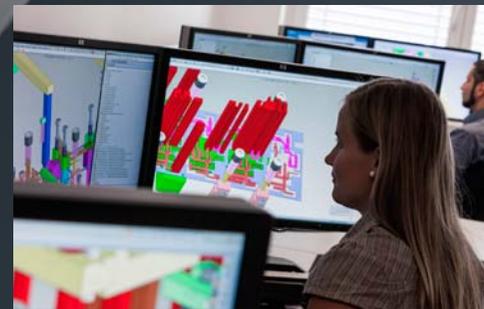
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STÜKEN
PRECISION IN METAL

“Flexibility and innovation – without them we would not be where we are today. Our capabilities and experience put us in a unique position to find answers to new and challenging technical application questions. These answers and solutions can offer surprising performance results for our customers and further demonstrate the STÜKEN advantage.”

*Dr.-Ing. Uwe Krismann,
CEO of Hubert Stüken GmbH & Co. KG*



STÜKEN is an “unseen giant”

Hidden in countless technical products are small, high-precision deep drawn and stamped parts from STÜKEN. Our parts are present in automobiles, electrical and electronic appliances, in medical devices and consumer products. In each application our components meet essential functions – perfectly and inexpensively. Our customers see us as a partner and together we develop strategic products and solutions. Our staff is driven by enthusiasm, knowledge and a sense of responsibility. They ensure that our plants throughout the world in Europe, Asia and North America always provide reliable quality and service. Thanks to their work, we are considered the global leader in precision deep drawn parts. Our quality and service have been repetitively honored by our customers year after year.



Our products are “hidden champions”

Deep drawn parts, stampings and bent metal parts have limitless design variations. They are made from steel and stainless steel, copper and copper alloys, nickel and nickel alloys, aluminum, and refractory metals such as molybdenum and niobium. They have lengths up to 95 mm with numerous diameters and material thickness options. Each part contains repeatable and precise dimensions to offer our customers optimum performance in their assembly lines and finished product applications. Our parts can be found in almost every technical product throughout the world. Within the finished products they deliver their service: precise, reliable – invisible, unnoticed. This is why our customers appreciate and use them.



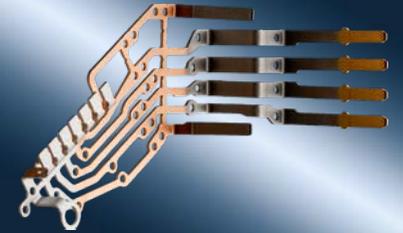
DEEP DRAWN PARTS.

Production is particularly economical and environmentally friendly.



STAMPINGS AND BENT METAL PARTS.

Custom made by our experts.



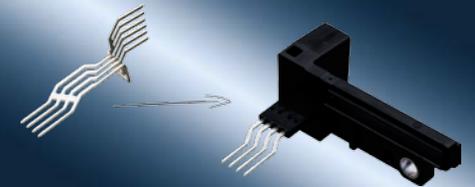
ASSEMBLIES.

You can expect solutions to complex and individual challenges.



HYBRID PARTS.

Combine the advantages of metal and plastic materials.



DEEP DRAW TOOLS.

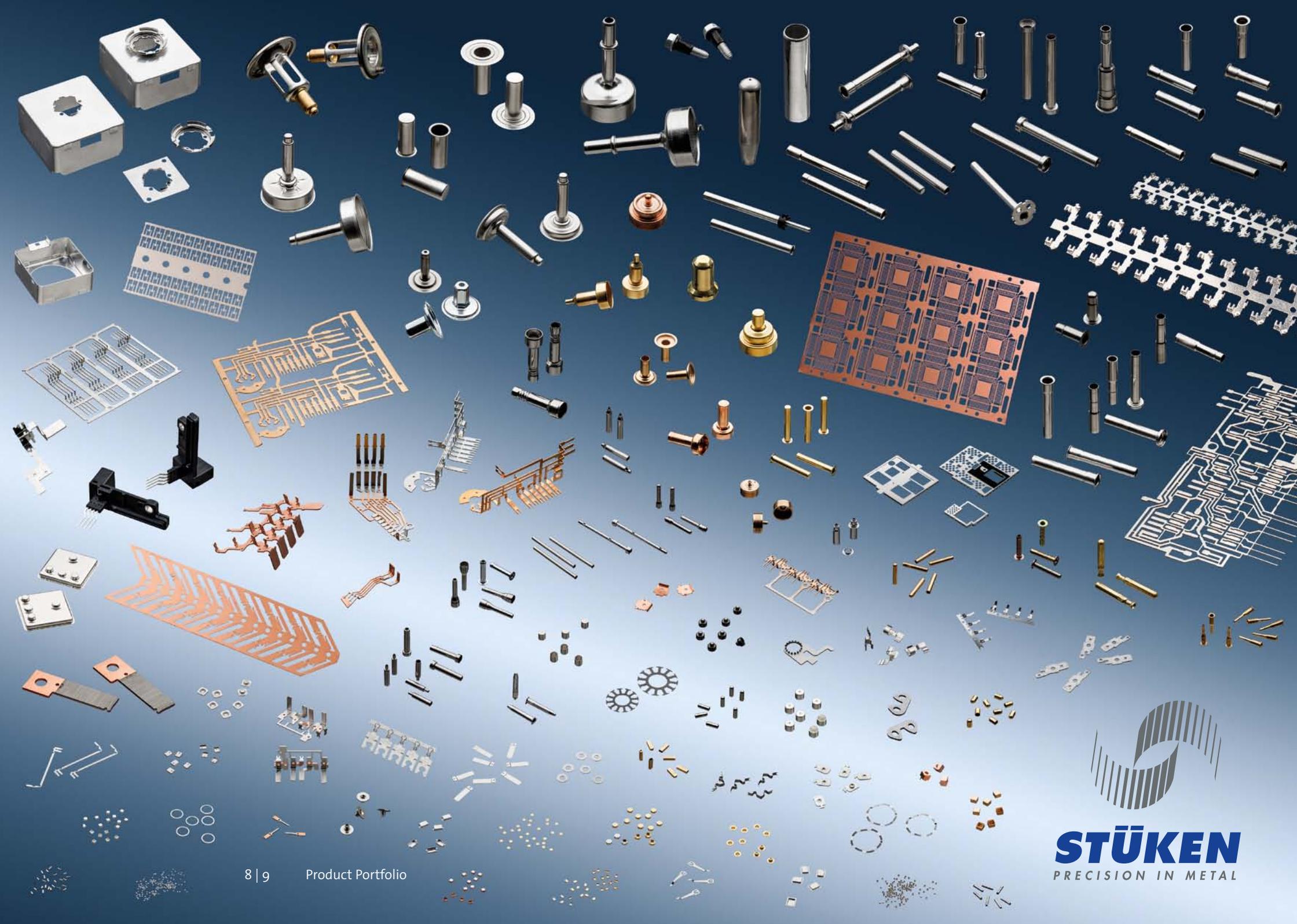
Comprehensive service and maintenance with spare parts included.

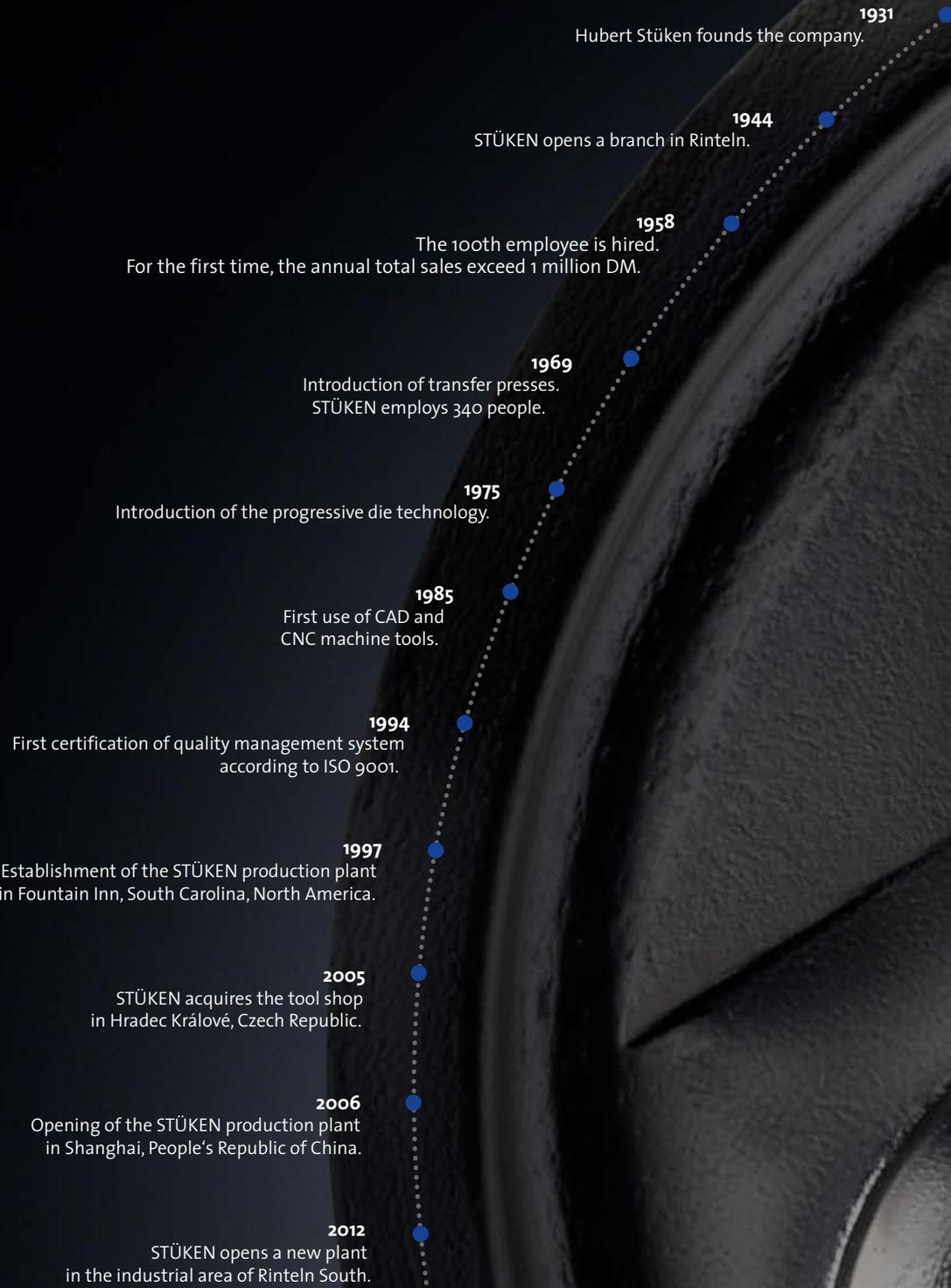


Products from A-Z:

- Aerators
- Airbag generators
- Airbag igniters
- Automatic transmissions
- Batteries
- Brake actuators
- Brake hoses
- Cigarette lighters
- Coaxial contacts
- Connectors
- Contacts for car electronics
- Cosmetic products
- Crystal oscillators
- Diodes
- DVD player
- EGR (exhaust gas recirculation)
- Electrical resistors
- Electrodes
- Electromagnetic valves
- Electronic brake systems
- Electronic vehicle control systems
- Engine management
- Fuel distribution
- Fuel filters
- Fuel injectors
- Fuel pumps
- Gas control valves
- Generators
- Halogen lamps
- House hold appliances
- Hydraulic connections
- Laser scanners
- Light switchers
- Medical and pharmaceutical products
- Micro fuses
- Mobile phone speakers
- Needle roller bearings
- Optoelectronic devices
- Oxygen sensors
- Press adapters for drinking water and heating installations
- Pyrotechnics
- Refrigeration compressors
- Safety valves
- Sensors
- Sensors for metal melting
- Shields
- Steering systems
- Switches
- Temperature sensors
- Thermal switches
- Thermostat in the cooling circuit
- Thermostats for radiators
- Thermostats in air conditioners
- Tire valves
- Transistors
- Water pumps
- Xenon light bulbs







Hubert Stüken
1900 - 1966

Company founder

Cosmopolitanism runs in the family

Hubert Stüken founded his family business in 1931. Today we employ more than 1,000 employees on three continents and are the world market leader in deep drawn parts. Yet, we are still committed to our family traditions. Commitment and trust prevail, problem solving and innovative thinking are highly valued. In addition, the spirit and importance of research and development is part of our heritage – it has brought us a long way.



A close-up, black and white photograph of a complex metal part, possibly a gear or a bracket, with various cutouts and a circular shape.

Our global footprint leads us to the top

As a strategic supplier we are a leader. This requires having a local presence to our worldwide customer base: We manufacture in Europe, Asia and North America, we advise and work with you at 15 sales offices around the globe. Our production on several continents is secure and flexible, we can respond quickly to inquiries, transport distances are short. A contact in your area knows the local conditions and speaks your language – wherever you are.



SALES OFFICES

- BRAZIL
- PEOPLE'S REPUBLIC OF CHINA
- CZECH REPUBLIC
- FRANCE
- GERMANY
- GREAT BRITAIN
- INDIA
- ITALY
- NORTH AMERICA
- PORTUGAL
- SOUTH AFRICA
- SOUTH KOREA
- SPAIN
- SWITZERLAND

STÜKEN

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PRODUCTION FACILITIES

- GERMANY
- CZECH REPUBLIC
- NORTH AMERICA
- PEOPLE'S REPUBLIC OF CHINA





The dimensions of our deep drawn parts range from 1-95 mm.

The total deep drawing ratio is 10:1 and in special cases, even higher.

Strip material thickness is normally between 0.1 and 2.0 mm, but in special cases thicknesses above and below this range are also possible.

STÜKEN designs and produces more than 100 new deep-drawing tools per year.

At five different manufacturing locations, we operate 285 presses designed for tools with up to 24 stations.

For the classic production of deep drawn components we use transfer presses with a pressing force of 60-1250 kN (6-125 t).

For the production of deep drawn parts utilizing the progressive method we use automatic stamping machines with a pressing force of 180-3200 kN (18-320 t).

Finishing processes at STÜKEN include: degreasing, deburring, electropolishing, special cleaning processes, plating and assembly of components. Depending on your application, we also offer 100% non-destructive testing capability utilizing camera systems, resonance, and eddy current technology.

Outside expertise and sources are utilized for other specialized secondary processes such as heat treatment and surface coating.

From customer inquiry to documentation of quality data, we certify to the requirements of ISO 9001 and ISO TS16949.



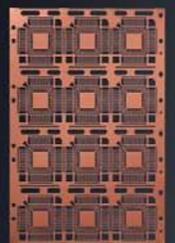
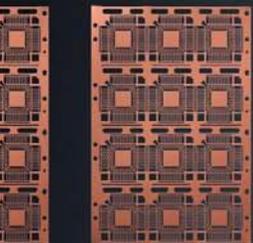
Small dimensions often reveal large advantages

Deep drawn parts from STÜKEN combine several important advantages. First: Economic efficiency through the optimal use of material and highly innovative manufacturing. Second: Consistency throughout high volume production. Third: We save you time and money because our deep drawn process yields parts which are ready for direct installation into your final product. When desired, we are also your partner for new product development. From concept to implementation, quick and efficient solutions can be put in place using our in-house tooling and prototype departments.



Cost feasibility can easily be worth hundreds of thousands

Our stampings and bent metal parts are very precise and sophisticated. Production volumes range from 100,000 units per year into the millions. Priorities for stamping are: contacts, lead frames, different functional parts – and new solutions that we develop together with our customers. Our in-house development site for stamping tools is in Hradec Králové in the Czech Republic, where we design and produce more than 40 tools per year. These tools are then used on precision machinery – throughout the STÜKEN group.



>> For the layout, the design and the tool production, responsibility lies within the competence center in the Czech Republic.

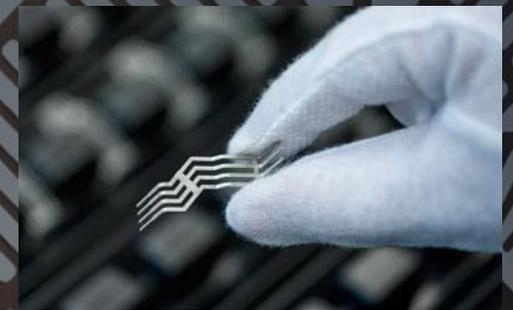
>> The range of parts begins with filigree stampings of a few millimeters in length and ends with complex stamped lead frames.

>> We work with aluminum, steel, stainless steel, copper and different alloys.

>> The material thicknesses used are between 0.1 mm and 2.5 mm.

>> Our product line covers the entire process chain: stamping, plastic injection molding, secondary operations such as degreasing or vibratory finishing, as well as the production of assemblies.

>> For coatings with a wide variety of materials such as gold, silver, tin or zinc, we work with experienced outside partners.



Automotive

- Airbag systems
- Car bulbs
- Braking systems
- Electronic control systems
- Engine management
- Filters
- Injection systems
- Sensor systems
- Transmission

Fittings/Consumer Goods

- Cooling systems
- Electromagnets
- Fittings for water, oil and gas
(low pressure, high pressure)
- Portable batteries
- Power tools

Electrical Engineering

- Connections
- Diodes
- Fuses
- Lamps
- Oscillators
- Resistors
- Shields
- Switches
- Transistors

Medical Engineering

- Components for packaging and administering medications
- Components for respiratory protection
- Small pressure vessels for gases

Tools

- Progressive dies for stamped and bent metal parts with thicknesses of 0.1-2.5 mm
- Individual tools and tool elements for stamping and forming up to 700 x 500 x 450 mm, larger sizes are more modules



We customize our efforts and specialize our processes

Together with our customers we operate in a constructive and trustful partnership. This has been true for decades. Following this path we have become specialists in a variety of industries and can provide you with precise small parts and specialized knowledge.

Working together we are able to jointly develop solutions, products and innovations.

Our priorities are: automotive, medical engineering, electronics and electrical engineering, consumer goods, fixtures and tools. If your business is not listed here, we would welcome the opportunity to work with you and expand our horizons.

Typical examples of industry applications: STÜKEN components are used in automobiles, in airbag systems, car lights, braking systems, electronic control systems, injection systems, filters, gears, engine management, and sensor systems.



Mistakes are not tolerated

This philosophy is essential to our success, it sets us apart, it is an integral part of the company. Quality is our top priority. Quality is ensured by each employee and it is their personal responsibility. Our common goal is zero defects – a target we achieve on a very regular basis. Continuous improvement is the foundation of our quality consciousness: in regards to the products we produce as well as in relation to the environment. Deep drawing itself is an environmentally friendly technology because it uses few resources. However, we work to ensure that our products and processes become even more sustainable. With an environmental management system according to ISO 14001 – and with the daily efforts of all involved.





“We were just awarded the Philips Automotive Lighting Quality Award for the fifth time. Philips Automotive Lighting is a leading manufacturer of automotive lamps, and STÜKEN precision parts are used in virtually all Philips headlamps. Philips has also developed the latest generation of automotive headlamps using STÜKEN components. This is very exciting!”

*Dr.-Ing. Hubert Schmidt,
CEO of Hubert Stüken GmbH & Co. KG*





High tensile membrane elements

An example of a research and development success story: For use in car assistance systems, new high-strength membrane elements were required. However, it was considered impossible to manufacture them using inexpensive metal forming. But STÜKEN developed a specialized process combining heat treatment and a unique fabrication sequence. Today this “impossible” part is produced in a stable and reliable process.

We believe in what does not yet exist

What new developments lie ahead in the worlds of automotive, medicine and electronics? What will our customers need tomorrow that does not exist today? What will make them successful? The monitoring of trends, technological know-how, as well as research and development can help to provide answers. At STÜKEN, in cooperation with our customers and the European Research Association for Sheet Metal Processing, we are able to create products and solutions that only yesterday seemed impossible.

A vertical strip on the right side of the page features a dark, almost black background. Scattered across this background are numerous small, intricate metal parts, likely brass or copper, similar in material to the large part on the left. These parts include various shapes such as rings, flanges, and small components, some of which are illuminated to show their metallic sheen and complex geometry.



Plants in Germany

Global Headquarters
Hubert Stüken GmbH & Co. KG
Alte Todenmanner Straße 42
31737 Rinteln
Germany
Phone +49 5751 702-0
Fax +49 5751 702-188
info@stueken.de
www.stueken.de

Plant Rinteln South

Hubert Stüken GmbH & Co. KG
Industriegebiet Rinteln Süd
Stükenstraße 10
31737 Rinteln
Germany

Plant North America

Stueken, L.L.C.
PO Box 129
137 Southchase Blvd.
Fountain Inn, SC 29644
USA
Phone +1 864 862-0612
Fax +1 864 862-0614
info@stueken.com
www.stueken.com

Plant Czech Republic

Stueken s.r.o.
Kladská 1006/61a
500 03 Hradec Králové
Czech Republic
Phone +420 495 402-111
Fax +420 495 402-112
info@stueken.cz
www.stueken.cz

Plant People's Republic of China

Stueken Precision
Deep Draw Technology (Shanghai) Co., Ltd.
Wanhang Rd. 33
Lingang Wanxiang City Industrial Park
Pudong New Area
201313 Shanghai
People's Republic of China
Phone +86 21 5804 1611
Fax +86 21 5804 2036
info@stueken.cn
www.stueken.cn