



Absolute Precision: Our Assemblies

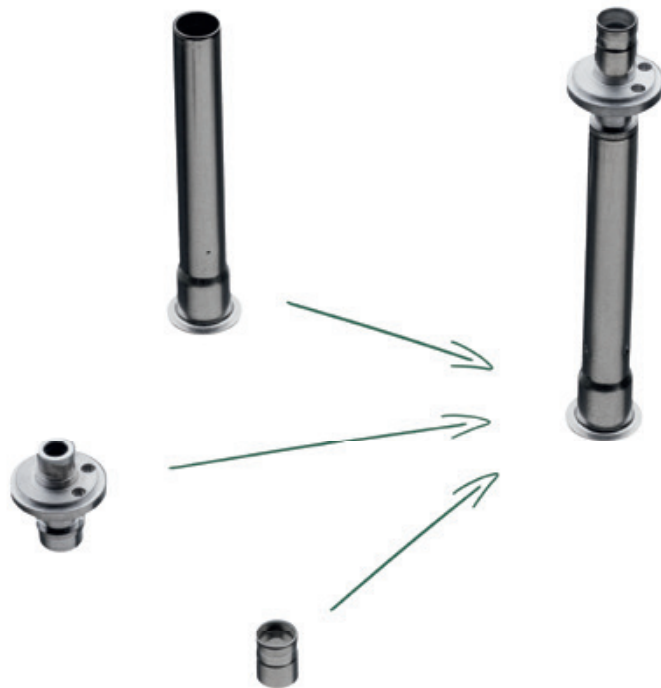
PRECISION IN METAL

STÜKEN



Fully assembled for use

Precision is a requirement involving complex specifications. This is why STÜKEN, the stamped and deep-drawn parts specialist, has included assemblies in its product portfolio for over 85 years. In 1931, Hubert Stüken started his own business using machines to assemble buttons and wheels for toy cars, thus laying the foundation for numerous success stories. We work together with your specialists on each project to meet your exact requirements. The result is a fully assembled module that can be seamlessly integrated into your production process. You can always rely on our expertise.



We bring it all together

STÜKEN is your one-stop product and service provider. We assemble modules for you with parts from our own production facilities, and we integrate additionally purchased components into our processes. In every situation, we welcome the opportunity to handle your entire project process, including supplier and vendor part sourcing.

Outstanding cleanliness

STÜKEN manufactures components for medical devices. This defines our standard for cleanliness. As a technology leader, we guarantee technical cleanliness through meticulous cleaning and packaging in our cleanroom as required. We have our own analysis lab where we can measure the smallest of particles. This expertise can be applied to the assembly of modules as well. Let's talk about it.



Precision is our guiding principle

STÜKEN is the market leader in deep-drawn, stamped and bent parts that are produced with the highest level of precision and quality. Our principles also apply to the assembly of modules; accurate production tolerances guarantee smooth operation.

Your benefits

- > **Over 85 years of assembly experience**
We can find a solution to meet your requirements.
- > **Extremely accurate production tolerances**
Our components and assemblies provide exceptional reliability and quality.
- > **Customer-approved design**
Working closely with your experts guarantees that each module is integrated seamlessly into your production process.
- > **Control of the overall process**
This saves you time and money in design, development, and production while also improving process reliability.

Variety creates opportunities

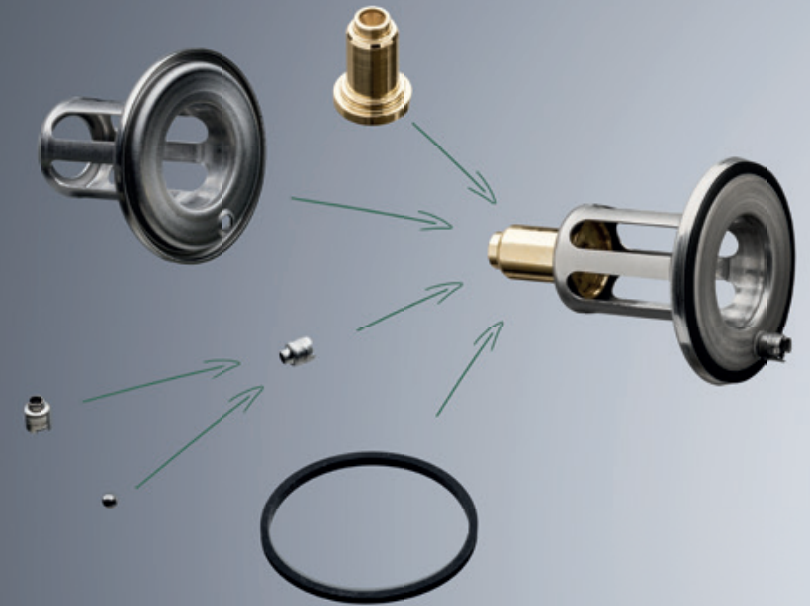
We currently assemble more than 40 different modules consisting of up to five individual parts. Since we use a wide range of different processes, we are able to effectively fulfill a variety of requirements, including many different shapes, materials and functions. Our automated testing systems can run 100% quality testing when required. You can rely on the quality of our products.

Processes:

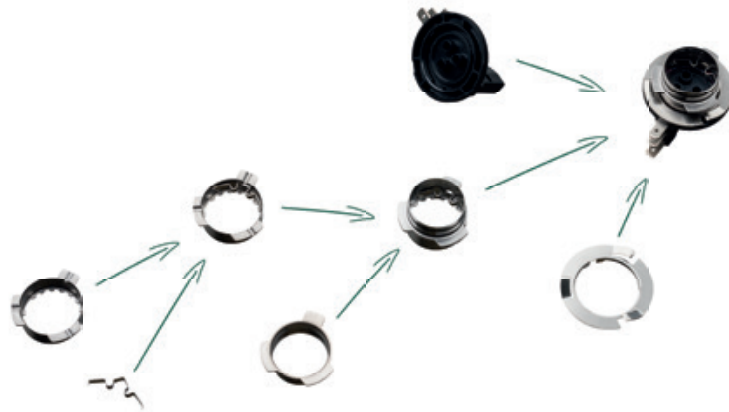
- > Laser welding
- > Resistance welding
- > Mechanical fastening
- > Riveting
- > Assembly directly in the deep-draw production process
- > Plastic injection molding

Test procedures:

- > Eddy current testing
- > Surface inspection
- > Camera testing
- > Dimensional inspection
- > Functional testing
- > Cleanliness testing



Selected production examples



H15 daytime running lights

Module consisting of 5 components

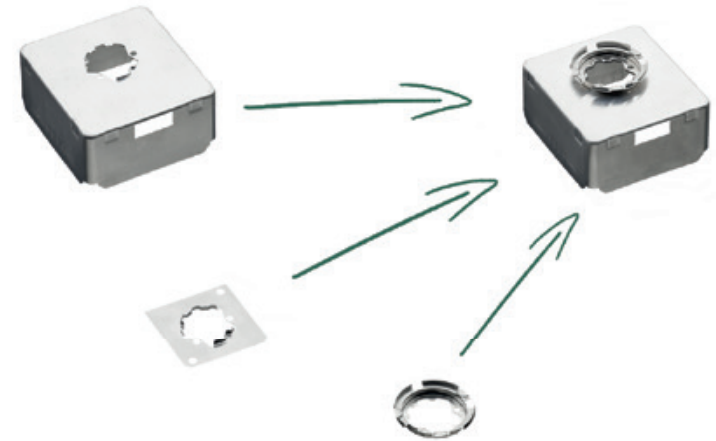
- > Production of high-precision deep-drawn parts
- > Production of high-precision stamped and bent parts
- > Insertion of a radial spring and axial spring
- > Assembly of deep-drawn parts
- > Assembly of metal and plastic parts
- > 100% quality inspection of the assembly process and component geometries
- > Individual packaging in trays



Damping device in hydraulic systems

Module consisting of 2 components

- > Production of high-precision deep-drawn parts
- > Spring steel hardening
- > High-precision assembly
- > Laser welding of deep-drawn parts
- > 100% quality inspection of weld seams



D5S xenon automotive lamp

Module consisting of 4 components

- > Production of high-precision deep-drawn parts
- > Production of high-precision stamped parts
- > Assembly of three deep-drawn and stamped parts
- > 100% quality inspection of the assembly process
- > Thermal label application
- > Individual packaging in trays



STÜKEN
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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.
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 +420 493 030-111
Fax +420 493 030-112
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