

DATE

October 20, 2026

LOCATION

Rinteln, Germany

RELEASE

For immediate release

LENGTH

approx. 3,608 characters
incl. spaces

IMAGES

1 image, see last page

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Precision Meets Local Production: STÜKEN Strengthens E-Mobility Worldwide

Rising demands for range, efficiency, and sustainability are transforming electric mobility—and with it, the requirements for the components used. In addition to high precision and reliable performance, short supply chains, supply security, and cost-effective series production are becoming increasingly important. To meet these needs, STÜKEN combines development expertise with an internationally structured manufacturing network and supports customers from component development through to series production.

In modern e-mobility applications, even small metal components perform important functions. For example, components are used in high-voltage cabling, connectors, sensor housings, and shielding, as well as in other applications related to batteries, power electronics, and electric drive systems. Depending on the specific function, factors such as electrical conductivity, functional surfaces, and electromagnetic compatibility place special demands on the materials and manufacturing processes.

Series production readiness begins in development

Whether a component can later be manufactured reliably and cost-effectively in large quantities is often determined long before production begins. Material, geometry, and tolerances influence not only the function but also the manufacturability and costs of the subsequent series production.

STÜKEN therefore contributes its expertise in materials, manufacturing, and processes to customer projects at an early stage. Together with customers, STÜKEN evaluates components in terms of function, manufacturability, and cost-effectiveness and tailor them to the planned production volumes. The goal is not merely to manufacture according to drawings, but to design components that combine technical requirements with stable and cost-effective series production.

Local-for-Local for international markets

In addition to development expertise, proximity to the respective sales market is becoming increasingly important. At the same time, sustainability considerations and the reduction of transportation-related CO₂ emissions are playing an increasingly important role. With its international production network, STÜKEN therefore pursues a “Local-for-Local” approach: components should be manufactured, whenever

possible, where they will later be needed. This can shorten transportation routes and delivery times, reduce transportation-related emissions, and simultaneously help build regional supply chains.

For customers operating internationally, this approach offers additional flexibility. Projects can initially start in one region and be scaled up to additional production sites as production volumes increase or new market requirements arise.

This requires coordinated processes and quality standards. Regardless of the production location, the focus is on reproducible component properties, stable manufacturing processes, and consistently high quality.

From component concept to high-volume production

STÜKEN combines expertise in precision forming with tool and process development as well as highly automated series production. This transforms initial component concepts into solutions that not only meet the technical requirements of modern e-mobility applications but are also designed for cost-effective production in high volumes.

Through a combination of early-stage development collaboration, precision manufacturing, and regional production capabilities, STÜKEN supports customers in bringing e-mobility components from the initial concept to international series production.

Visuals

IMAGE 01

SUBJECT

Product examples

CREDIT

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ABOUT STÜKEN

STÜKEN is a leading global manufacturer of precision deep-drawn metal parts. Since 1931, this family-owned company has been developing and producing sophisticated components and assemblies for a wide range of industrial applications. In addition to deep drawing, its range of services includes stamping and stamping-bending, plastic overmolding, and assembly manufacturing. With more than 1,300 employees and five production sites in Germany, the Czech Republic, the U.S., China, and India, STÜKEN has an international presence and supplies customers worldwide. From component development to high-volume production, the company combines comprehensive engineering expertise with highly automated manufacturing and high quality standards.

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