

Everything from a single source: BENTELER expands portfolio to include rotor shaft components

- **BENTELER is expanding its portfolio and entering the component business for rotor shafts.**
- **Simplified supply chain for automotive manufacturers: BENTELER covers value chain from steel production to tube to component prefabrication.**
- **Lightweight, safe e-mobility solutions thanks to modular system and innovative mechanical machining.**

Paderborn/Salzburg, June 30, 2021. BENTELER encompasses the expertise of its two divisions, Automotive and Steel/Tube. A current example is its entry into the rotor shaft component business – which includes e-mobility applications. Both the steel division's metal processing expertise and the automotive division's development experience come into play here. This is enabling the company to expand its portfolio of tubes for rotor shafts to include individual, lightweight component solutions. BENTELER covers the entire supply chain – from its own steel production to the tube and processing of the finished component. In this way, BENTELER is making it even easier and more cost effective for its customers to get their mobility solutions on the road.

Less complexity in the value chain

The trend toward electromobility is changing the demands on the production chain: Varying component quantities, diverse models, and rising demand for electric vehicles call for production capacities that are as flexible as possible. Production planners at suppliers and automotive manufacturers are therefore constantly evaluating their supply chains in order to either incorporate economically viable production steps into their production or outsource them. "This is exactly where BENTELER comes in with its flexible solutions for producing rotor shaft components. In addition to semi-finished products for rotor shafts based on our tube solutions, we now also offer complete solutions for individual rotor shaft components that are robust and cost-efficient," explains Ingemar Wohler, Vice President Business Area Automotive BENTELER Steel/Tube, in describing the expansion of the portfolio. "We are now coupling our decades of experience and expertise in the production of high-precision tubes with the competence from the Engine & Exhaust Systems business area of BENTELER Automotive. Here, we already offer a broad portfolio of powertrain components and systems, extensive expertise in thermal management, and state-of-the-art process technologies with high vertical integration," adds Wohler.

Modular system, different joining processes for lightweight and safe e-mobility solutions

The core element of an electric powertrain is the motor, the main component of which is the rotor shaft. By using tube instead of solid material, significantly less material is required in the manufacture of rotor shafts, which saves weight. BENTELER Steel/Tube produces both welded-drawn and seamless-drawn precision steel tubes for the manufacture of rotor shafts. Thanks to the hard steel and individual tube thicknesses, these solutions are particularly light, safe and flexible to adapt.

"In addition to the product, innovative manufacturing processes are also becoming increasingly important. Our modular approach to finished rotor shafts offers maximum flexibility and innovative mechanical machining," says Dr. Rainer Lübbers, Head of Business Unit Engine & Exhaust Systems at BENTELER Automotive about the strategic development. "Customers benefit from reduced complexity and minimized risk in supply chain management, an optimized global supply chain, and increased cost efficiency. Thanks to our materials competence, expertise in metal processing and know-how, we find the optimal lightweight solution together with our customers," Lübbers summarizes.

Photo and caption:

BENTELER_rotor-shaft-component.jpg: With its rotor shaft components, BENTELER provides automotive manufacturers with a single source, thereby simplifying the supply chain.

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About BENTELER

BENTELER is a global, family-owned company serving customers in automotive technology, the energy sector and mechanical engineering. As metal processing specialists, we develop, produce and distribute safety-related products, systems and services worldwide.

In the 2020 financial year, Group revenues were €6.358 billion. Under the management of the strategic holding BENTELER International AG, headquartered in Salzburg, Austria, the Group is organized into the Divisions BENTELER Automotive and BENTELER Steel/Tube. Our around 27,000 employees at 98 locations in 28 countries offer first-class manufacturing and distribution competence – all dedicated to delivering a first-class service wherever our customers need us.

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About BENTELER Automotive

BENTELER Automotive is the development partner for the world's leading automobile manufacturers. With around 23,000 employees and more than 70 plants in about 25 countries we develop tailored solutions for our customers. Our products include components and modules in the areas of chassis, body, engine and exhaust systems, as well as solutions for electric vehicles.

<https://www.benteler-automotive.com/en/>

About BENTELER Steel/Tube

BENTELER Steel/Tube develops and produces seamless and welded quality steel tubes. As one of the leading manufacturers, we offer our customers solutions worldwide, along the entire value chain – from material development to tube applications. In this way we create tailor-made tube products for the automotive, energy and industry market segments.

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