

Press release

CAR-Symposium 2019: BENTELER presents innovative steel tube solutions

- **BENTELER makes components for cars lighter – by up to 35 percent**
- **New varID® technology: Tubes with a variable internal diameter achieve an even greater weight reduction, thereby reducing fuel consumption**
- **Innovative high-tensile steels also increase automotive safety**

Paderborn/Salzburg, February 08, 2019 – At the CAR-Symposium in Bochum (February 06-07, 2019) BENTELER presented itself as a technology partner for steel tube solutions. With over 1200 participants per year, this event has become a renowned trade meeting for the automotive industry.

In a presentation accompanied by an exhibition, BENTELER Steel/Tube introduced its lightweight steel tube solutions for the automotive sector. With over 100 years of expertise in steel and tube production, the Steel/Tube division, part of the global BENTELER Group, provides innovative solutions for the future of mobility, among many other products.

Tube solutions reduce component weight

Our tubes and tube-based component solutions support crucial trends in the automotive industry, such as lightweight construction, CO₂ reduction and safety. "We make our customers' components lighter by replacing components made of solid bars with tube solutions. For instance, tube-based anti-roll bars can reduce the component weight by up to 35 percent," explains Christian Wiethüchter, COO and CSO BENTELER Steel/Tube. For cars with conventional drives, this reduction in weight also leads to a reduction in fuel consumption and environmental impact. For electric vehicles, BENTELER's new lightweight solutions can increase the vehicles' reach significantly.

The new varID® technology achieves an even greater weight reduction

The specially developed varID® technology can even reduce component weight by another 15 percent. Dr. Thomas Säuberlich, Head of development in the automotive applications field at BENTELER Steel/Tube, explains: "varID® tubes are tubes with a variable internal diameter. This means their wall thickness is adapted to the varying stresses acting on the component: The material is only thicker in areas subject to high stress. In low-stress areas, a reduced wall thickness requires significantly less material."

Innovative high-tensile steels increase car safety

BENTELER has been at the forefront of trends in the automotive industry for many years, thanks to running its own steel mill and the associated material expertise. Due to their stability, the innovative high-tensile steels don't just permit substantial material savings. They also increase the safety of the vehicle and its passengers. For instance, safety components such as crash boxes made of high-manganese steel can absorb significantly more energy - and therefore represent a crucial contribution to increased passenger safety in accidents.

***Picture subline:** Dr. Christian Lessmeier, Development Engineer, Dr. Thomas Säuberlich, Head of Development in the field of automotive applications, and Sven Göddert, Development Engineer, all BENTELER Steel/Tube (from left), show the trade visitors of the CAR-Symposium the innovative steel tube solutions from BENTELER.*

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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 a strategically innovative partner, we design, produce and distribute safety-relevant products, systems and services. In the 2017 financial year, Group revenues were €7.856 billion. Under the umbrella of the strategic management holding BENTELER International AG, headquartered in Salzburg, Austria, the Group is organized into three Divisions: BENTELER Automotive, BENTELER Steel/Tube and BENTELER Distribution. With technological excellence and effective implementation we keep our promises. With courage, ambition and respect, we give our all, and never give up.

BENTELER. The family of driven professionals. Since 1876.

About BENTELER Automotive

BENTELER Automotive is the development partner for the world's leading automobile manufacturers. With around 26,000 employees and more than 70 plants in about 25 countries we develop tailored

solutions for our customers. Our products include system solutions and modules for chassis, body, engine and exhaust systems as well as systems for electric vehicles.

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.

About the CAR-Symposium in Bochum

The CAR symposium is an excellent networking platform for the automotive industry. Each year, over 1200 participants come together to discuss the opportunities and challenges of the future of mobility. The event's primary aim is an exchange of ideas between managers, decision-makers and research institutes on key topics in the automotive industry.