TELSONIC
ULTRASONICS

Innovative advances in plastic welding for the automotive industry

PLASTIC WELDING | METAL WELDING | CUTTING | CLEANING | SIEVING

01 Competence Centre Automotive.
The innovative ultrasonic solutions that we develop together with our customers are presented at the 'Competence Centre for Automotive' in Fürth.

'In recent months, we have made significant progress in the development and implementation of ultrasonic technologies for the automotive industry at the Centre of Excellence for Automotive Applications in Fürth,' reports Claus Regenberg, Managing Director of Telsonic Ultrasonics Germany. 'The close cooperation with leading automotive manufacturers, who see our technologies as an integral part of their future production processes, is particularly pleasing.'

Successful collaboration with a southern German automotive manufacturer

'A particular highlight was the visit from a renowned southern German car manufacturer,' adds Andreas Helfenberger, Team Lead Sales Automotive. 'During an intensive workshop, we were able to present the advantages of our ultrasonic applications, which are particularly impressive in terms of material savings, the use of recycled plastics and the component-optimised design of components. The participants from the development and industrialisation departments were impressed by the possibilities offered by our technologies.'

International cooperation with an Asian car manufacturer

Claus Regenberg emphasises the importance of international cooperation: 'An Asian car manufacturer visited our centre of excellence over several days to put our ultrasonic technologies through their paces. Our flexible manufacturing processes and the validation through extensive test series contributed significantly to this manufacturer integrating our technologies into its production concepts. Here, too, the focus was very much on resource efficiency and the sustainable use of materials.'

02 Lightweight construction is an important trend in the automotive industry. In addition to weight reduction, this also enables significant cost cost savings are also possible.

03 Torsional ultrasonic welding technology for thin-wall technology bumpers

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Networking and prototype production for global markets

'Another important aspect of our work is the international networking of our competence centres and the ability to provide near-series sample parts from our prototype tools,' explains Andreas Helfenberger. 'These sample parts are perfectly tailored to the requirements of our customers, particularly with regard to the use of recycled plastics. In this way, we support our customers in securing and validating future series processes at an early stage.'

Invitation to the workshop in Fürth

'Our successes show how important it is to focus on innovative technologies at an early stage,' concludes Claus Regenberg. 'We invite automotive manufacturers and suppliers to take part in one of our customised workshops in Fürth and benefit from our extensive prototyping capabilities and technologies - linear, torsional and vibration welding. Let's shape the mobility of the future together.'
Interested? Contact us today to find out more about our workshops and customised solutions. Together we will develop the technologies that will sustainably improve your production processes.

Competence Centre Automotive

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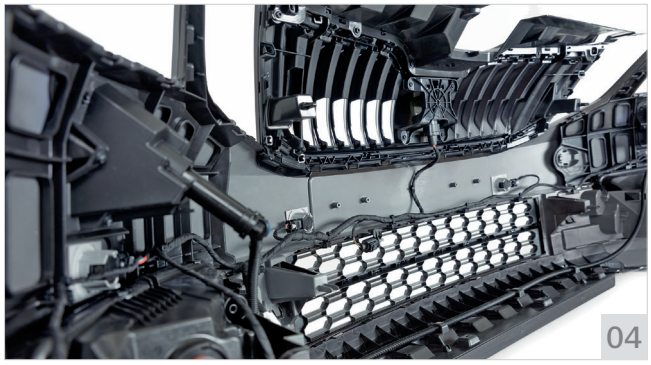

04 SONIQTWIST® torsional welding from Telsonic has been in series production at Skoda since 2019.

05 Support for the plant manufacturer (special machines or robot systems)

06 Vibration welding systems for joining complex 3D moulded plastic components of different sizes

Authors: Claus Regenberg, Managing Director of Telsonic Ultrasonics Germany, and Andreas Helfenberger, Team Lead Sales Automotive

07 Claus Regenberg

08 Andreas Helfenberger