

Cutting-Edge Ultrasonic Welding Technology for Autonomous Driving - Achieving Customer Goals and Ensuring Safety

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SIEVING



Bronschhofen (CH), 06/2023

Reliable ultrasonic welding technology is key to realizing the potential of autonomous driving. Telsonic, a leader in ultrasonic technology, offers innovative solutions to meet the evolving demands of the automotive industry. With our cutting-edge products, such as the TT7 Telsoterminal, MPX Ultrasonic Welding System, and TelsoSplice TS3, we empower customers to reach their objectives in automated driving while ensuring the highest safety standards.



01 TT7 Telsoterminal



02 MPX Ultrasonic Welding System



03 TelsoSplice TS3

At Telsonic, we understand that achieving flawless connections is crucial for the safety and reliability of autonomous vehicles. That's why we take a proactive approach to error prevention, starting from the design phase. Our Design for Manufacturing (DFM) strategy ensures that the cable sets and connections are optimized for efficient ultrasonic welding. By considering factors such as material selection, joint design, and process parameters, we minimize the risk of defects and enhance the overall quality of the welded joints.

In addition to error prevention in the design phase, we believe in empowering our customers with tools and techniques that eliminate human errors during the production process. One such approach is Poka Yoke, a method that focuses on mistake-proofing and preventing errors before they occur. By implementing Poka Yoke techniques in our ultrasonic welding systems, we provide an additional layer of assurance, reducing the chances of operator-related mistakes and ensuring consistent, high-quality welds.

To further enhance the performance and reliability of our ultrasonic welding solutions, we integrate advanced sensor technology and intelligent software. Our Telso@Flex system combines state-of-

the-art sensors with intelligent software algorithms to monitor the welding process in real-time. This allows for precise control and adjustment of parameters, ensuring optimal weld quality and minimizing the risk of defects. With Telso@Flex, customers can achieve exceptional process control, resulting in reliable and durable connections for their autonomous driving applications.

By leveraging the unique features of our TT7 Telsoterminal, MPX Ultrasonic Welding System, and TelsoSplice TS3, along with our proactive approach to error prevention and advanced sensor technology, customers can achieve their goals in automated driving and meet the demanding safety standards. These products offer a combination of speed, reliability, and process control that are essential for the successful integration of sensors, cameras, and control units in autonomous vehicles.

Experience the power of Telsonic's ultrasonic welding technology and unlock the full potential of autonomous driving. Discover our TT7 Telsoterminal, MPX Ultrasonic Welding System, and TelsoSplice TS3 today. Contact us to learn how we can support your journey towards safe and efficient autonomous vehicles.



By Dirk Schnur, CMO at Telsonic