

Application example

Aluminium wires

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SCREENING



Task

Owing to increases in the price of copper, aluminium is becoming increasingly important as an alternative material. Ultrasonic welding technology is just as suitable for aluminium flex wire as it is for copper flex wire. One important point to remember is that the system requires special attachments to achieve the best possible results when working with aluminium.

Solution

Due to aluminium's suitability for welding, there is a risk of it sticking to tools. To prevent sticking, certain adjustments need to be made to tools. And because copper is softer than aluminium, the welding parameters also have to be adjusted accordingly. With the Telso®Splice system, you can achieve all this with ease because the software provides you with a set of welding parameters for aluminium that is easy to select and load.

Configuration advantages

With the universal TS3 Telso®Splice wire splicing system, you can reliably weld wires with a total cross-section of up to 40 mm². Both copper and aluminium can be welded firmly and reliably with minimum electrical resistance. Users can choose from a range of welding and trigger modes. The controller includes a wide array of process control options, enabling you to monitor quality.



The application was created using a 3.6kW TS3 Telso®Splice wire splicing system with attachments suited to working with aluminium.