

Application example

Fixing bolt welded to a deep-drawn part

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SCREENING



Task

A case for holding electronic components is drawn out of an aluminium tablet. As a result, the completed case has a smooth surface, which means that nothing can be attached to it. For this reason, threaded screws or special angled retaining bars need to be secured to the case retroactively.

Solution

The round, square and rectangular attachments/entire retaining bars to be mounted are quickly and securely welded to the case using a torsional TSP3000 SONIQTWIST® system or corresponding components.

Configuration advantages

Thanks to torsional SONIQTWIST® technology, even complex geometric components can be quickly and securely welded with successful results and without placing the component under the strain of excessive heat. Flat components can also be bonded securely at specific points. The process parameters for each weld operation are logged, thus ensuring the verifiability of welding quality. The TCS5 process controller comes with a range of data recording and analysis options.



The application was created with a torsional TSP3000 SONIQTWIST® system with MAG generator and TCS5 welding process controller.