

### Application example

# Flush welding conductors using ultrasonics

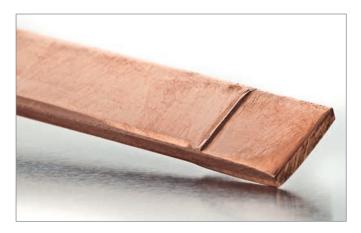
PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SIEVING



# Telso Terminal TT7

The application was welded using torsional PowerWheel® technology. Above, the Telso®Terminal TT7 with a maximum welding power of 14.4 kW.

### Task

Flat, rectangular copper conductors need be flush-welded using ultrasonic technology. The welded joint must not be thicker than the conductor, i.e. overlapping must be avoided. The small bead generated by the process is cut off.

### Solution

By configuring the ultrasonic units in a special way and using individually designed sonotrodes, flat metal conductors can be flush-welded using ultrasonic technology. Telsonic has registered a patent for this technology. This can also be achieved using PowerWheel® technology, which is used when welding larger cross sections that require high levels of power.

## Advantages of this configuration

This patent-registered technology can be used to quickly and reliably produce flush welds without having to significantly raise the welding point. With a high power of up to 14.4kW, PowerWheel® technology can be used to flush weld copper or aluminum conductors with a cross section of up to 200 mm<sup>2</sup>.