

Application example

Fine wires on a silver-plated copper terminal

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SCREENING



Task

Two fine strands with a cross-section of 50 mm^2 each (100 mm^2 in total) need to be welded to a silver-plated copper terminal. In this case, the weld width is still 30 mm but the product is due to get a lot narrower in future due to a reduction in construction space.

Solution

The application was successfully produced using torsional PowerWheel® technology on an MT8000 system with a maximum output of 10 kW. The TCS5 process controller comes with a wide array of options for monitoring quality. The sound protection case with three open sides ensures optimum conditions when it comes to ergonomics.

Configuration advantages

Torsional PowerWheel® technology's unique method for applying welding force to the component creates a secure weld on sensitive fine strands. Any drawing oil left in the wires is safely eliminated thanks to the high level of energy. The machine's potential means that the weld on the same wires in future components can be reduced significantly in size, helping to save on materials and construction space.



The application was produced using a 10 kW MT8000 PowerWheel® system and TCS5 process controller.

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