

APPLICATION SHEET

ALUMINUM CABLE ON NICKEL-PLATED CU TERMINAL



■ The task

An aluminum cable with a cross section of 120 mm² is to be welded to a nickel-plated copper terminal. Additional briefing: for construction reasons, the weld should be as narrow as possible.

■ The solution

In this case the task was accomplished using the torsional PowerWheel technology, using a PowerWheel with drive on both sides and a maximum output of 10 kW.

■ The advantages

With this technology it is possible to apply the welding energy to the aluminum cable in such a way that, while being easy on the cable, the weld is only 26 mm wide rather than 30 mm (as it would be with a linear process). The tensile pull strength achieved is up to 5000 N.



The application was carried out on a Power Wheel® MT8000.



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