



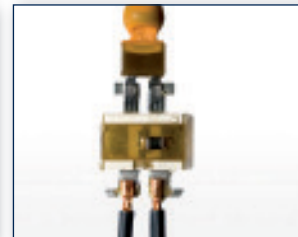
MICRO WELDING

APPLICATIONS



BONDED IN TRUST

Cu-cross-wire-welding
compactation of flexible wires
welding with high frequency
plug contacts
resistance brazing
welding of electrical adapters
welding of aluminium cables
welding of non-ferrous heavy metal
cable connection e.g. with Cu/Al
electronic components



SOLUTIONS



RESISTANCE WELDING

Harms & Wende offers control systems for micro joining technology. As specialists for resistance welding controls we supply solutions which are particularly fitted for joining adds.

The portfolio includes welding control systems from 50Hz to 10kHz. Those accommodate the unique demands of the adjustment setting. Pretty short reaction and setting times as well as the different sorts of flow control are especially

tailored for this requirements. For integration approaches in superior equipment, we offer engineering capacities for self-acting plants. For the tailor made solution we offer integrated operator interfaces in higher ranking PLC.

Furthermore we assume your complete operational functions and visualize them in the PLC.

combined displacement current monitoring

power regulation

current regulation

voltage regulation

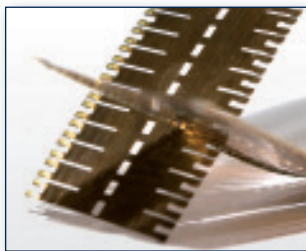
integration in PLC

flexible operator interfaces

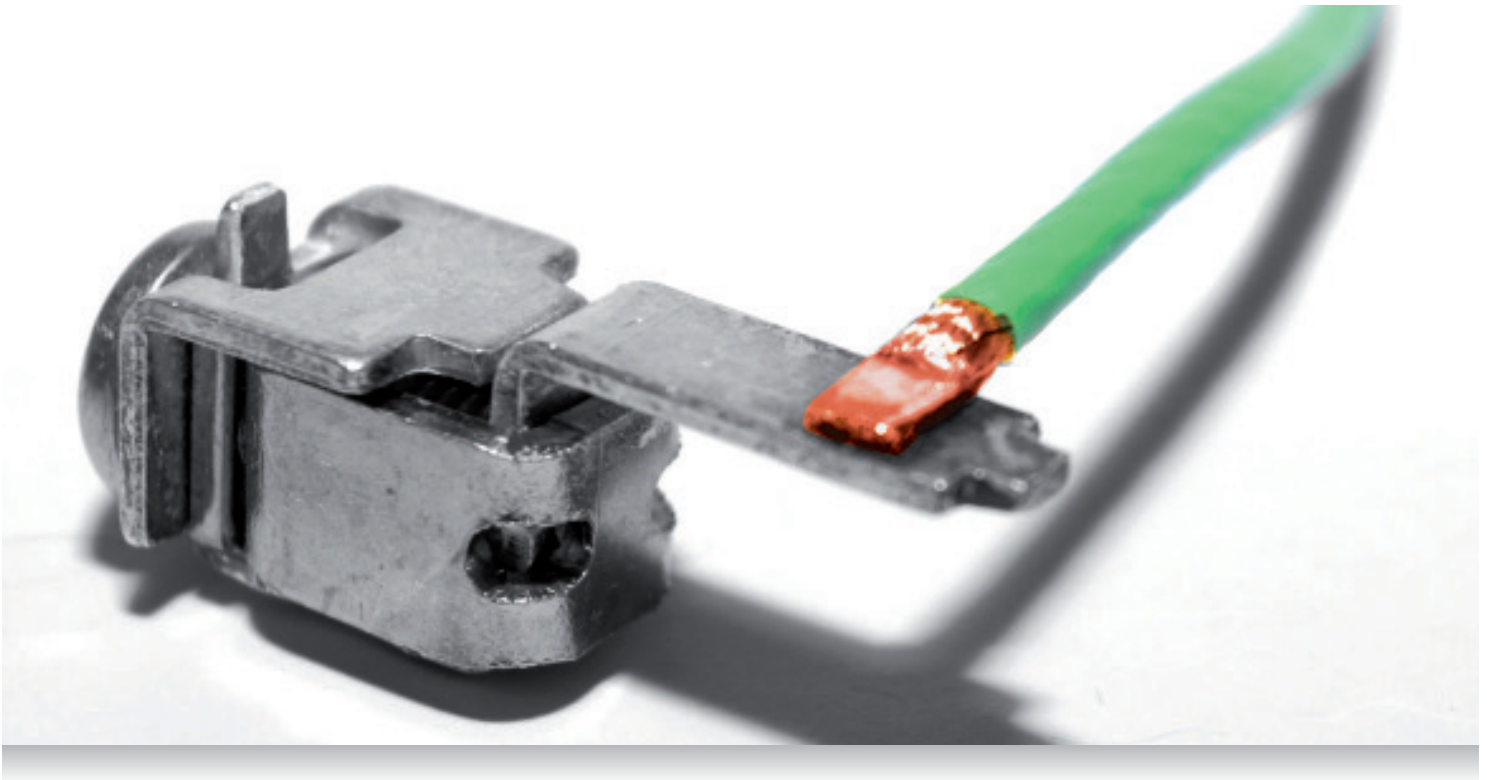
1000 and 10kHz-systems

rapid regulation in micro seconds

fast current rise



ADVANTAGES



USE THE ACHIEVEMENT POTENTIAL OF HARMS & WENDE RESISTANCE WELDING SYSTEMS

Cost-effective assembling by efficient systems

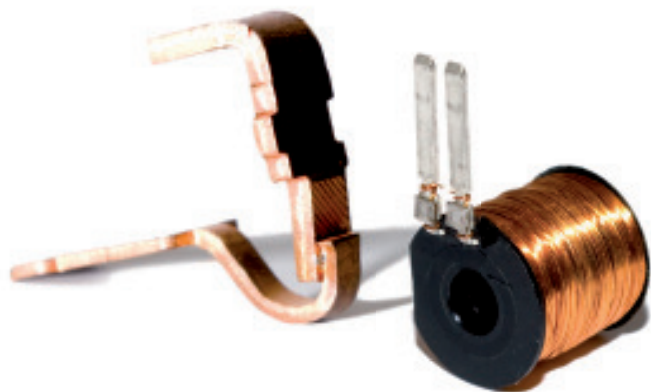
Available modules can be combined from task-specific function units. Whether 50Hz (AC), 1kHz (MF) or 10kHz (HF) – you can profit from the longtime know-how of our originally welding practice. It is possible to conjunct modules with the individual composition of your own user interface as well as to set default control panels for your welding units.

Proven joining by custom-made monitoring and documentation functions

Comprehensive monitoring functions are available in various stages of expansion. From parameter to process monitoring Harms & Wende provides a broad band of quality control. Therewith the quality of the welding task will be assured and documented.

Easy handling through intuitional systems

Various controlled quantities are available for the welding process. By facile user interfaces the devices are easy to parameterize.



DEMANDS



The micro-joining technology is a challenging market. The welding of exotic materials in combination with short clock cycles makes high demands:

Security relevant consumables require a high degree of endurance, persistence and security, non-ferrous heavy metals make high demands on welding practices, a high extraction necessitates quickly running plants with short cycle times, manufacturing entire components needs systems which automate the welding process and are integrated in the flow process, security needs to be documented, to proof critical feedings documentation and archiving systems are necessary which plot without interruption.



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