

SpotFix connect

Secondary circuit connector | Welding automation

EN



SPOTFIX CONNECT

Connector for the secondary circuit of resistance welding devices

Cable connection points in the secondary circuit of resistance welding equipment must be made carefully. Screwed cable connection points deteriorate during operation, increasing contact resistance and energy losses. Replacing worn secondary circuit components, e.g., connecting cables, requires extensive machining of old cable connection points. Such machining depends on the application engineer. Insufficient machining leads to undefined contact resistances, higher energy losses, and shortened service life of secondary circuitry.

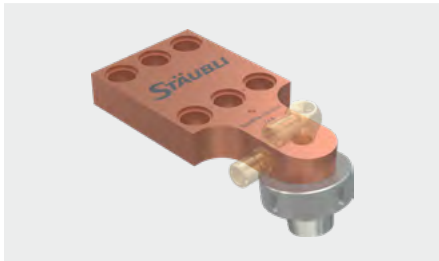
SpotFix connect was specially developed for use in the secondary circuit of resistance welding equipment. The **connector** eliminates the disadvantages of the screw connection. It also ensures **permanently reliable contact conditions and optimum system availability**.

Thanks to Stäubli's reliable MULTILAM contact technology, it is possible to implement pluggable high-current applications while keeping contact resistances consistently low. Thus, elements of a resistance welding machine can be replaced quickly and safely.

Stäubli's expertise allows us to offer a pluggable connection concept for resistance welding guns and equipment. In addition to classic solutions, this also enables new design methods and applications:

- Resistance welding guns
- One transformer supplies several machines
- Manually pluggable jigs
- Automated pluggable jigs in welding lines
- Power supply in welding tools

Technical data	
Pin/Socket diameter	32 mm
Cable cross section	600 mm ² special solution 2 x 400 mm ²
Total contact resistance (Transformer connector to gunarm connector)	< 30 μΩ
Rated voltage	AC 25 V / DC 60 V
Rated current max.	6.5 kA
Temperature equilibrium with 250 mm cable	70 °C at IRMS = 4 kA (6 l/min, Tamb = 20 °C)
Ambient temperature	Max. 40 °C
Cooling concept	Water cooling in connector (dry coupling)
Contact material	Cu, silver plated
No wetting-disturbing substances	Silicone-free
Transformer connector	MF100 according to customer standard, others possible



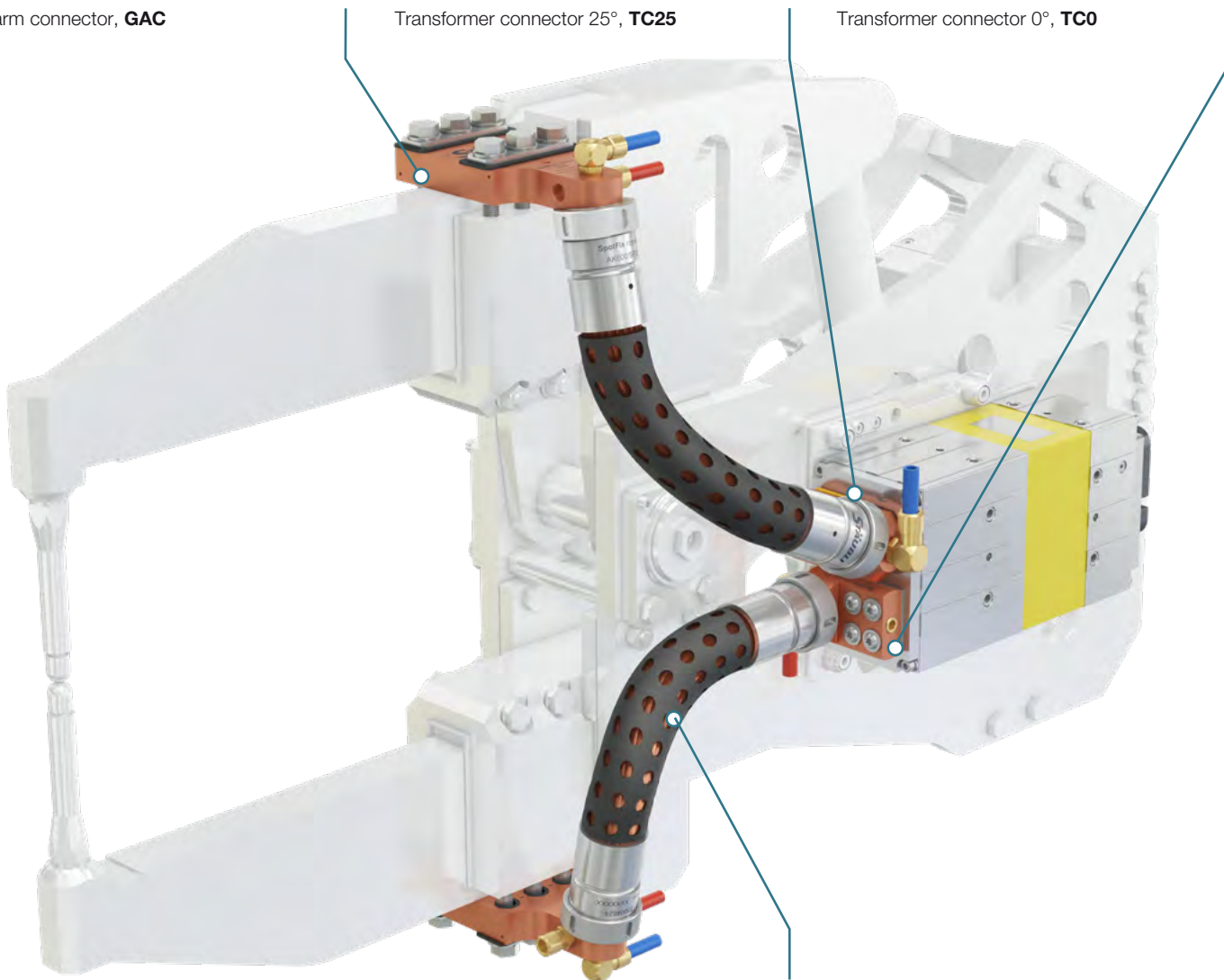
Gun arm connector, **GAC**



Transformer connector 25°, **TC25**



Transformer connector 0°, **TC0**

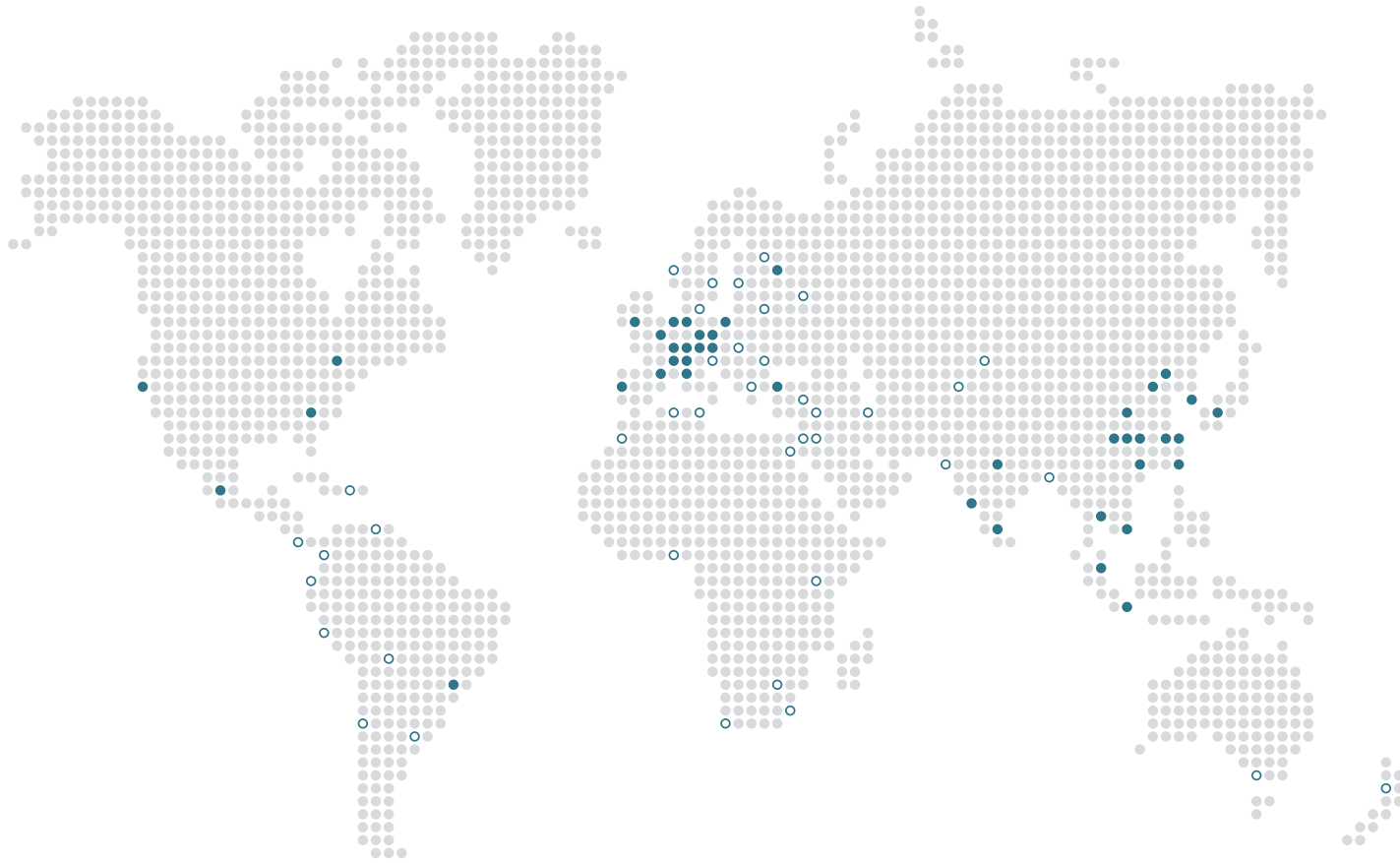


Transformer connector round, **TCR**



Connection cable 600 mm², **CC600**

Quick and safe exchange thanks to plug-in connectors. No user processing is required.



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