Application example

**Electronics coupler**

**Task**
The two injection-moulded housing halves of an electronics coupler with a size of 12 x 12 mm must be connected together accurately. The couplers are produced in high quantities and the joining process must therefore be integrated into a production system for the entire part.

**Solution**
For the joining task, an AC350 ultrasonic welding actuator, a modular MAG generator with a maximum power of 1200 W and an ACC controller are integrated into the production system. For the precise pre-positioning of the housing halves in relation to each other, positioning pins are moulded onto one of the housing halves. Fine energy directors are provided to produce the welding seam.

**Configuration advantages**
The ACC welding process and actuator controller offers high flexibility with regard to welding modes, storage and reading of process data with the optional Telso®Tools software and a connection to higher-level PLC system controllers. The fine energy directors ensure sufficient strength without visible melt overflowing from the joining zone.