



Robot soldering tool

Product description

Fully automatic in-line soldering system with K LW-robot soldering tool on 4-axis cartesian robot. It is used for automatic soldering of cables in speed sensor housings.

The soldering process is completely monitored for each soldering point (temperature, solder wire quantity, speed solder wire feed, soldering time, soldering position). The components are fed via workpiece carriers on conveyor belts.

Field of application

Production/manufacturing of speed sensors.



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Technical data

Test bench/device	
<ul style="list-style-type: none"> • Robot station 4-axis X-Y-ZW in housing with safety doors • Micro X-Y slide for fine adjustment of the solder wire feeding nozzle for diameters from 0.48 - 1 mm • Ball bearing soldering wire roll holder for rolls up to 1000 g • Pneumatic lifting of the solder wire feed to avoid damage to the solder wire during downtimes • Automatic piston cleaning during WT change 	
Software	
<ul style="list-style-type: none"> • LRobot under Windows <ul style="list-style-type: none"> - Any number of soldering programs can be configured menu-driven - For each step/soldering point, setpoints, tolerance limits and control functions can be defined - Each soldering programme contains all necessary handling procedures - Various statistical evaluation options per soldering programme available online - Password protected access levels • Integration of a Soft-SPS possible • Connection to a line computer possible 	
Scope of features	
<ul style="list-style-type: none"> • Control of force/speed/quantity of the feed motor by rotary encoder at the tin outlet nozzle • Programmable solder wire quantity • Recording of the temperature actual values at each soldering point • Recording of the spring deflection/piston contact pressure • Recording of the solder wire quantity • Monitoring of all pneumatic end positions 	
Input-/visualisation units	Dimensions/Transport
<ul style="list-style-type: none"> • Monitor • Keyboard 	<ul style="list-style-type: none"> • Approx. 1000x2000x1500 mm (WxHxD) • Weight approx. 400 kg
Test time	Exemplary device type
<ul style="list-style-type: none"> • Individual, depending on soldering program, approx. 10 s 	<ul style="list-style-type: none"> • 157 4167