

Laser-remote system for the automotive industry



The task:

Attachment parts and distributor pieces must be dependably connected to a thin-walled pipe system for the soldering process following.

The conntronic solution:

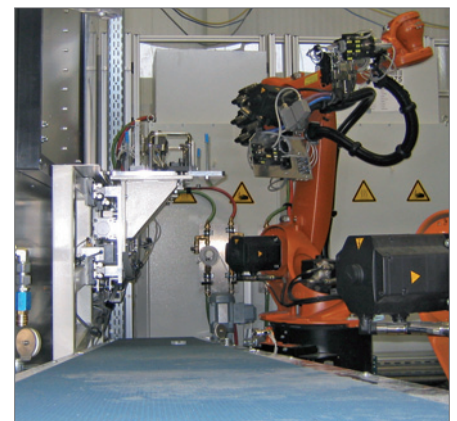
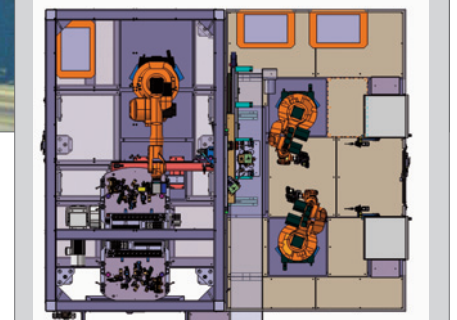
The component parts are inserted manually into a clamping assembly and tightened automatically. A turntable brings the component parts into a laser-remote welding station. By means of a robot-guided remote head with integrated camera system, the tack-weld location is considered, the laser beam positioned and then the component part tack-welded with a pulsated laser beam. After the tack-welding process, the component part is transported automatically from the cell and taken over by a further robot. This guides the component part through a stationary soldering paste station and finally places it on a discharge conveyor belt.

The laser cell is equipped with tools which can be changed rapidly so that, thanks to the flexibility of the robot-guided welding head, as many as desired and different component parts are capable of being tack-welded or alternatively finally welded.

Technical data of the system:

Solid state laser:	Trumpf TruPulse 203. 300 W
Optics:	Trumpf PFO 20, f = 163, incl. intelligent Cognex camera 5100
Mounting surface, per system:	2.5 x 6 m plus lasers and switchgear cabinets
Cycle time:	Dependent on the component geometry

We develop a fitting solution for your individual requirements. Challenge us.





Solutions for welding machines design

ct-services

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- + Product and component development
 - + Service

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