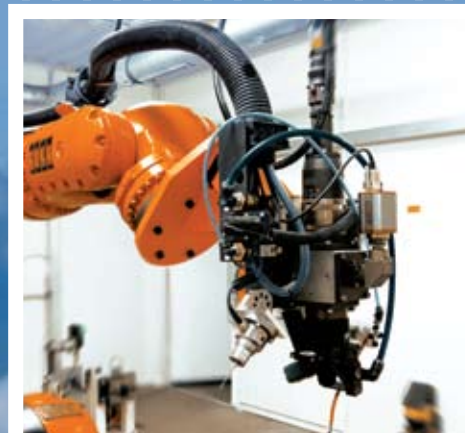


KUKA

KUKA Aerospace Solutions

KUKA ROBO LASERWELD



■ **KUKA ROBO LASERWELD**
AUTOMATIC LASER WELDING

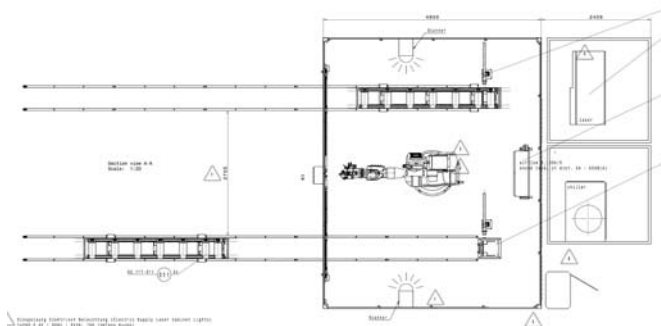
KUKA has developed an automatic process incorporating special loading and clamping tooling, specifically for robot-guided laser welding for de-icing panels on light-aircraft wings. The components are manually loaded alternatively on two transfer-carts outside the station, to ensure high utilization of the robot and laser. The transfer-carts are designed to carry all the different assembly fixtures, some up to 3m in length.

In the laser welding station the carriages are locked in position. First, each part is measured using an integrated touch-probe in order to obtain the high quality and positional accuracy demanded from the aerospace industry. Thereafter, the laser welding process is completed, the welding parameters are downloaded on an RFID chip for data logging and the transfer-cart exits the cell.



TECHNICAL DATA	
Soldered joints:	24 - 28
Total seam length	Up to 4 m
Part size:	Up to 6 m
Cycle time:	< 250 sec
Foot print:	11 m x 6 m
Price:	On Request
Configurations:	- Multi Cell Concept per Laser Source - Automatic Transport System

COMPONENTS	BASIC SCOPE	OPTIONS
■ Robot	■	
■ Laser Welding Head	■	
■ Fixture Cart with Media Docking	■	
■ Measuring Device (robot mounted)	■	
■ Laser Safety Booth	■	
■ PLC Siemens S7 or others	■	
■ Video Supervision		■
■ Process Diagnosis		■
■ Vision System		■
■ Flexible Clamping Devices		■
■ Automated Cart Transport System		■
■ Safe Robot		■
■ KUKA KS ArcTec cw (Cold Wire Feeder)		■
■ KUKA RoboScan		■



LAYOUT EXAMPLE

Specifications regarding the characteristics and usability of the products do not constitute a warranty of properties. They are intended to serve informative purposes only. Some items of equipment depicted in the illustrations are optional, and are not included in the standard scope of supply. Solely the respective contract of sale shall be binding in respect of the extent of our supplies.

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