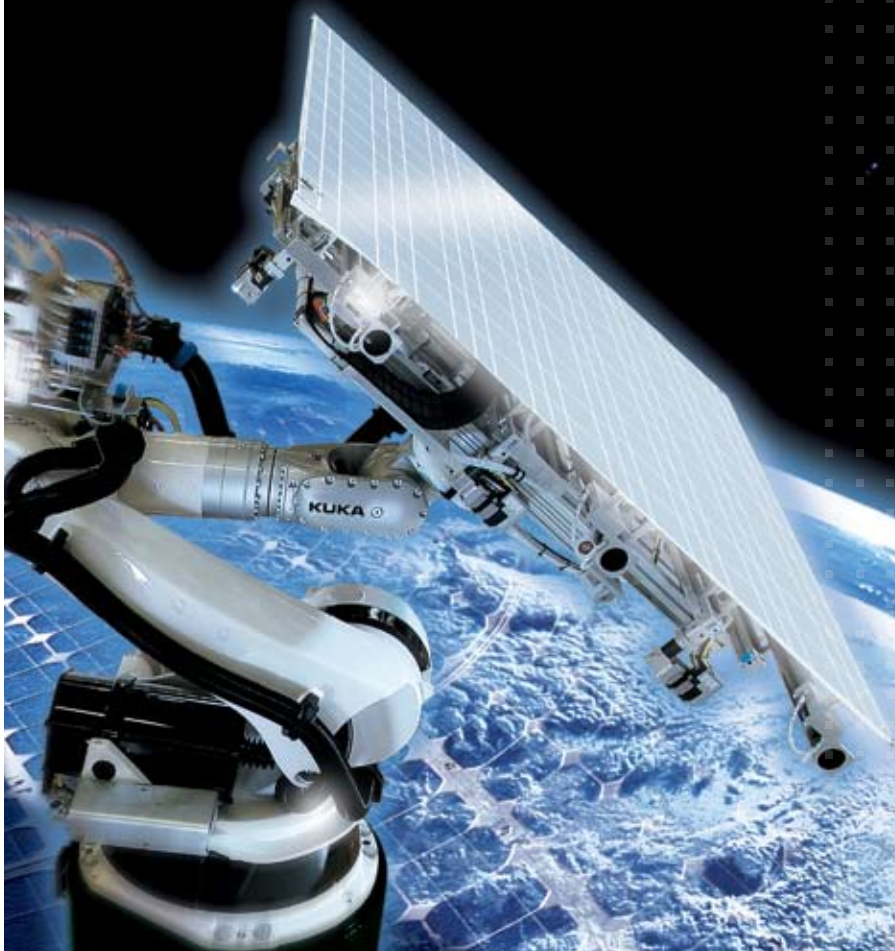


KUKA

KUKA Energy Solutions

KUKA ROBO X



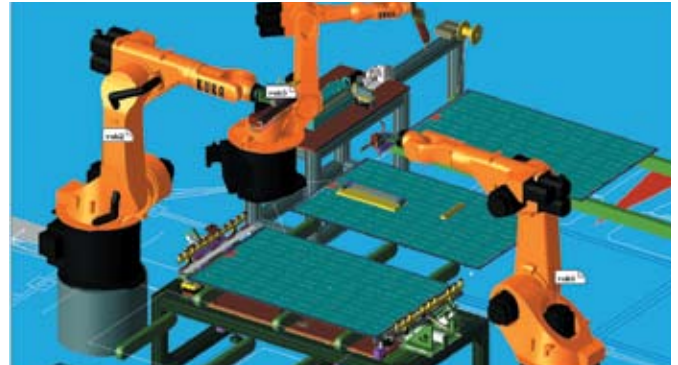
■ **KUKA ROBO X**
AUTOMATIC CROSS-TIE
SOLDERING

KUKA has developed a fully automatic process incorporating special loading and clamping tooling and robot-guided induction soldering.

The complex sequence from cutting the wire, positioning, fixing and soldering is done in one cell for up to 80 MW.

Soldering, fluxing and bending or creating L-shape cross-ties is done within the station. Heat shield is automatically inserted and removed.

Optional Vision System for robot guidance available.



LAYOUT EXAMPLE

COMPONENTS	BASIC SCOPE	OPTIONS
■ Robot	■	
■ End Effector	■	
■ Inductive Soldering Head w/ Water Sooling KS Soldertec I	■	
■ Belt Conveyor w/ Centering Station	■	
■ Cell Control by Robot Controller KRC	■	
■ Safety Fence	■	
■ Ribbon Preparation Station KS Ribboncut		■
■ Multiple Soldering Heads		■
■ Vision System		■
■ PLC Siemens S7 or others		■
■ L-Shape Cross-Ties Soldring or Bending		■
■ Insulation Layers		■
■ Automatic "Home Run" Assembly and Soldering		■

TECHNICAL DATA	
Soldered joints:	24 - 28
Total length cross ties	2.1 m
Glass size:	Variable
Cycle time:	100 sec (One Station w/ Automatic Cross-Tie Handling)
Soldering:	Inductive
Foot print:	Starts at 4 m x 5 m
Price:	On Request
Configurations	- 1-3 Robot Solutions - Soldering Only – Manual Assembly - Soldering + Automatic Ribbon Preparation

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.

For more details contact us at solar@kuka.de or call + 49 821 797-1076

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