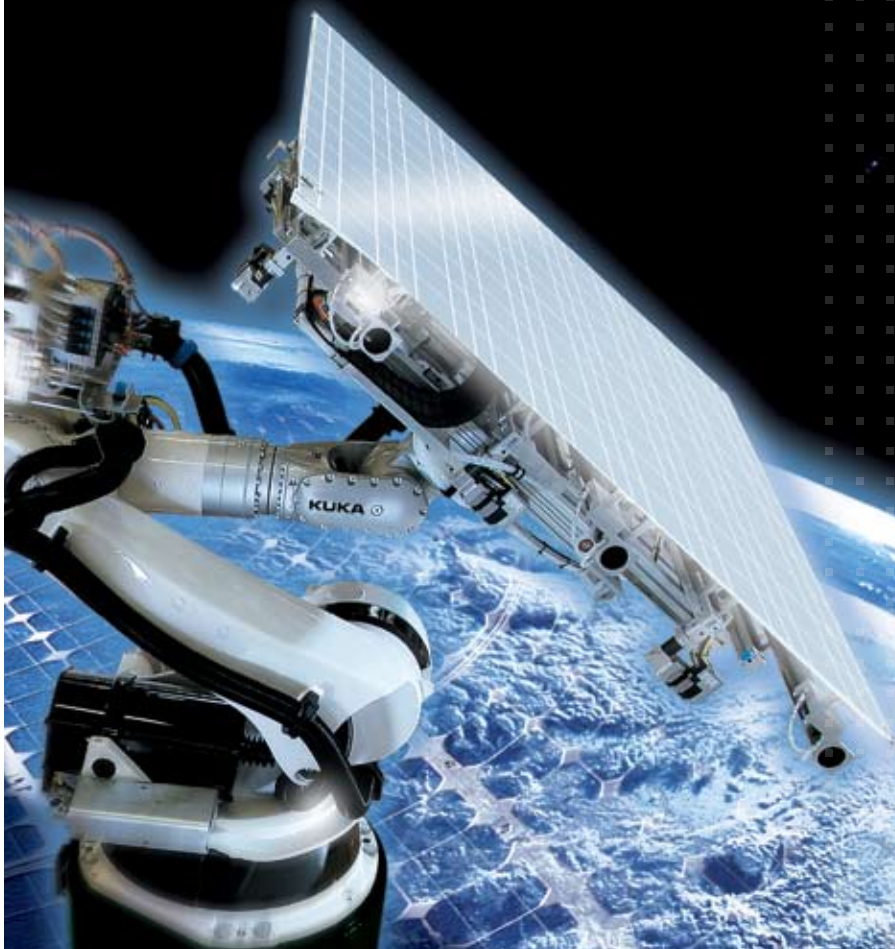


KUKA

KUKA Energy Solutions

KUKA STRING TMP



■ **KUKA STRING TMP**
(TEST, MEASURE, PLACE)
AUTOMATIC STRING LAYUP

The solar strings are picked up by the robot, optically and electrically tested and geometrically measured using a camera system “KS Scan String”.

The vision system calculates an offset for the robot and allows the string to be accurately positioned on the solar module.

Defect strings are rejected to a repair buffer or shuttle.



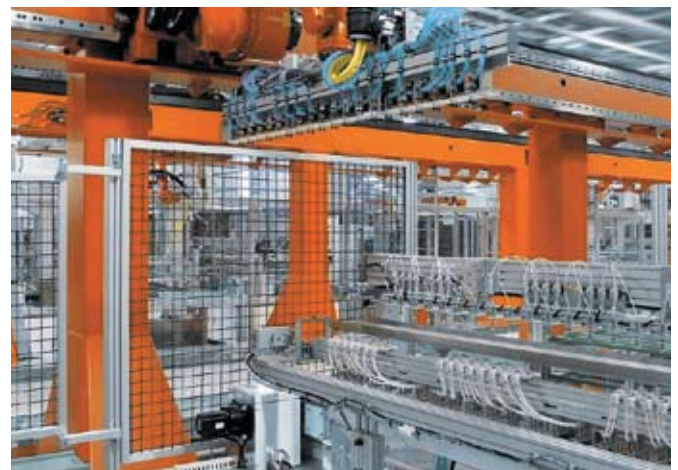
LAYOUT EXAMPLE

COMPONENTS	BASIC SCOPE	OPTIONS
■ Robot	■	
■ Linear Axis for Robot	■	
■ End Effector	■	
■ Electrical Test	■	
■ Repair INs and OUTs	■	
■ Crack Detection	■	
■ Chip and Edge Breakout Detection	■	
■ Geometrical Measurement	■	
■ Ribbon Alignment Check	■	
■ PLC Siemens S7	■	
■ Safety Fence	■	
■ Cell Tracking / MES Interface		■
■ ELS Test (Electroluminescence)		■

TECHNICAL DATA	
String Size:	6 - 12 Cells, 2 or 3 Bus Bars
Positioning Accuracy:	0.25 mm
Cycle Time per String: (String Placement Only)	10 sec
Foot Print:	Depending on Stringer
Vision System:	3 Mpixel with Front and Backlight Camera on Linear Axis
Price:	On Request

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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