

KUKA

KUKA Energy Solutions

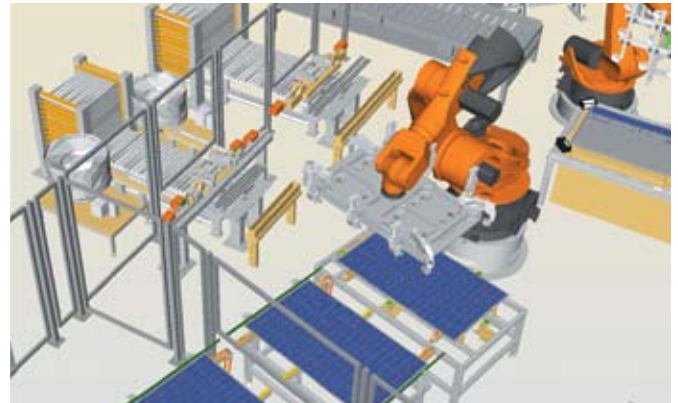
KUKA ROBO FRAME



■ **KUKA ROBO FRAME**
AUTOMATIC FRAMING
OF SOLAR MODULES

Assembly of all frame parts is accomplished by a combination of robot movements and clamping devices within the gripper.

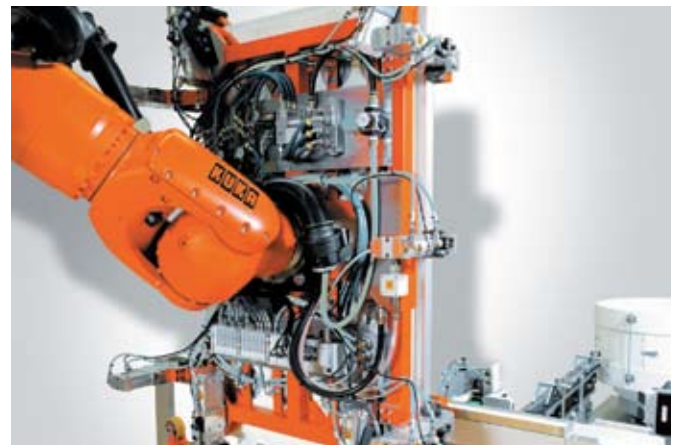
The Robot takes a module out of the centering station, moves it to the moistening station first and then inserts the laminate into the U-channel of the frame member that is presented on the assembly table. The frame members are manually loaded into a buffer magazine and then indexed into the station by means of a conveyor. A corner key insertion station presses the corner keys into the short frame members. The corner keys are filled as bulk load into a separating bowl and automatically indexed to the insertion station.



LAYOUT EXAMPLE

COMPONENTS	BASIC SCOPE	OPTIONS
■ Robot (High Payload)	■	
■ Heavy Duty End Effector w/ Suction Cups and Clamps	■	
■ Corner Key Insertion Station	■	
■ Moistening Station	■	
■ Assembly Table	■	
■ Input and Exit Table or Conveyor	■	
■ Safety Fence	■	
■ Cell Control by Robot Controller KRC	■	
■ PLC Siemens S7		■
■ Automatic Buffer Magazine for 80 - 100 Frame Members		■
■ Multiple Module Sizes		■
■ Separator Bowl for Corner Keys		■

TECHNICAL DATA	
Module size:	Variable
Cycle time:	60 sec
Robot payload	350 kg
Foot print:	6 m x 6 m
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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