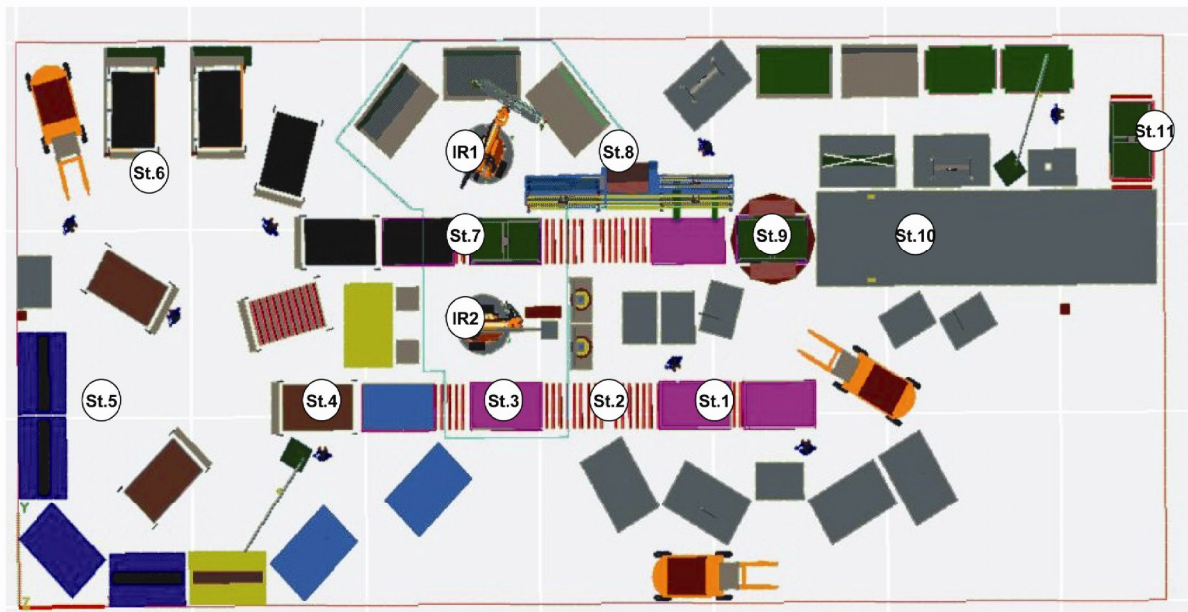


## Example: process steps in a solar collector assembly line



Source: Kuka Systems GmbH

### Station 1

- Insert frame profiles and connection pieces
- Apply barcode
- Scan with hand scanner

### Station 2

- Prepare for glue application

### Station 3

- Apply glue with nozzle (IR2 robot)

### Station 4

- Insert collector rear panel
- Insert insulation mat
- Pass to hand cart
- Scan with hand scanner

### Station 5

- Insert absorber
- Align absorber in collector frame
- Insert and rivet tubing connection mounts
- Vacuum dust deposits

### Station 6

- Adjust measuring device at collector to BT cart
- Check air-tightness and flow
- Prepare for glue application
- Remove BT cart from measuring station and dock to conveyor system
- Scan with hand scanner

### Station 7

- Inject glue (robot IR2)

### Station 8

- Remove glass plate from container and pass on to washing machine
- Check the plate and attach the clamping system (robot IR1)
- Automatic transport to the robot station
- Align and measure glass plate
- Place the glass plate on the collector (robot IR1)

### Station 9

- Rotate collector by 360° to check seams
- Turn by 90° for transfer to storage

### Station 10

- Automatic conveyance of collectors for glue hardening

### Station 11

- Accept collector
- Manually apply polystyrene corners
- Stack on pallet
- Remove clamping system