

Automatic Solar Cell Screen Printing Line

SOC6A-S



- Vision wafer alignment
- Print quality inspection
- High productivity: >1200 pcs per hour
- Wafer breakage detection
- Low wafer breakage
- Suitable for 180 μ m wafers
- Excellent <10 micron positioning
- Flexible wafer size 5, 6, 8 inch
- Compact high efficiency IR dryer design
- Integrates into 3 printer production line

Automatic Screen Printing Line

SOC6A-S

The SOC6A-S solar cell screen printer and dryer is the newly introduced 2nd generation equipment for solar cells. With more than 30 years experience in design of automatic screen printers, Keko Equipment have put their know-how to realize a high productivity of wafers with low breakage. By a fully vision controlled process, accurate positioning and wafer/print quality are fully assured. The most advanced printing technology is utilized with servo controlled movement and highly accurate fast acting pressure control to facilitate work at low pressure on the fragile substrates.

Screen change is fast due to pneumatic fixation and fast alignment with CCD cameras of the screen. A touch screen HMI continuously monitors the process, with the optional possibility for a multi-screen display of all vision functions and print SPC. The standard line consists of three screen printers with two compact IR-dryers and a turning station. The equipment will be customized to use cassettes or trays provided to feed wafers, and to automatically place wafers into the firing furnace.

Typical specifications ¹

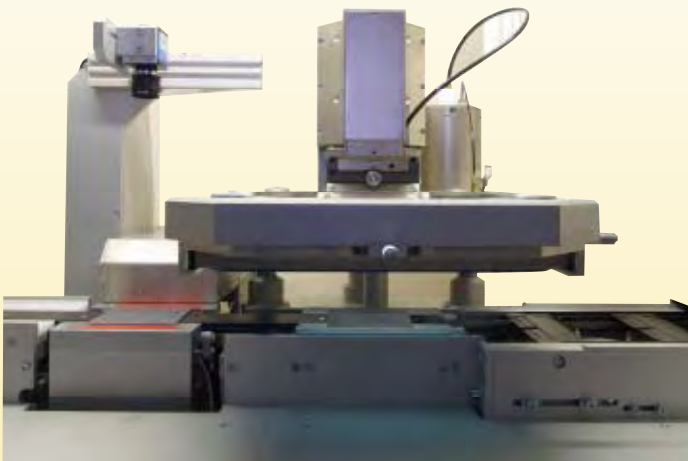
Wafer size: 5", 6" or 8" square or rounded
Productivity: 1200 wafer/hour
Screen size: 450 x 450 or 600 x 600 mm
Screen fixation: pneumatic
Drying: compact IR tunnel
Alignment: 10 micron by CCD vision

Inspection: breakage; print quality
Sorting : automatic removal of bad wafers

Turning: automatic by vacuum chuck

Transportation: high speed in Teflon gutter

Dimensions: 4423 x 2166 x 1390 mm
Weight: 650 kg
Electrical: 3x400 V 50/60 Hz
Air: 100 l/min; 0,6 MPa
Safety: CE



¹ Because all our equipment is customized for specific requirements, specifications given are subject of change.

HAIKUTech

Manufacturing Solutions for Microelectronic Components

Americas
Haiku Tech Inc.
1669 NW 79th Avenue
Miami, FL 33126
USA
T: (305) 463-9304
F: (305) 463-8751

www.haikutech.com

Europe:
Haiku Tech Europe B.V.
Dorpsstraat 100A
6274 NN Reijmerstok
The Netherlands
Tel: +31 (43) 457 8054
Fax: +31 (43) 457 8053

E-mail: sales@haikutech.com