



GLOBAL NO.1

SJINNOTECH

Best Solution & Service for you



Through relentless innovation & challenges, we aim to be leaders in the high-tech industry.

Beginning in 1997 as a manufacturer of SMD peripheral equipment, SJ Innotech has evolved into a globally recognized specialist in screen printing equipment, driven by continual challenges and the development of new technologies. Our entire team is committed to ensuring we are a company genuinely trusted by our clients. We prioritize premium quality, competitive products, and unparalleled service, always seeking to create innovative value, even amidst the ever-evolving industrial landscape.

GLOBAL NO.1

Solar Wafer

Screen Printer

SMT

Multi-Layer PCB

Chip Resistor

Semiconductor

Fuel Cell

Customer Service

We're committed to meeting your expectations and ensuring your satisfaction with timely responses.

Maintenance

Arrangement of CS and Agency
Prompt support response
New or Relocated Setup / Technical Support Remote
Technical Support Spare Securing / Replacement / Selling



Overhaul & Improvement

System Overhaul / Software Update prompt
support from our subsidiary company



History

Our drive for innovation and progress propels us into the future.



2023 ~Present

- | | | |
|------|----|---|
| 2023 | 07 | Became a family organization of KIER |
| | 07 | ISO 9001:2015 / ISO 14001:2015 / ISO 45001:2018 |
| 2021 | 10 | Became a family organization of DMI |
| 2020 | 12 | SME R&D Excellence Company |
| | 07 | INNO-BIZ SME (renew) |

2010 ~2019

- | | | |
|------|----|---|
| 2019 | 12 | Achievement of Exporting for 20 Million Dollars |
| 2018 | 10 | Investment Agreement with Seishin Trading Co., Ltd. in Japan |
| | 04 | Global IP Star Company |
| 2017 | 03 | 'Global Hidden Champion' from SMBA |
| 2016 | 06 | Establish 2nd Factory |
| 2015 | 12 | Achievement of Exporting for 10 Million Dollars |
| 2011 | 12 | Grand Prize among SMEs |
| | 11 | Achievement of Exporting for 5 Million Dollars |
| | | Outstanding Star Company of Daegu |
| | | Industrial-Education Cooperation Agreement with Fields of Study in Solar Cell |
| | 10 | Venture Businesses (renew) |
| 2010 | 10 | Achievement of Exporting for 3 Million Dollars |
| | 01 | Established Subsidiary Company 'Sung-Jin FA' |

1997 ~2009

- | | | |
|------|----|--|
| 2009 | 09 | Venture Businesses |
| 2008 | 07 | INNO-BIZ SME |
| | 06 | Star Company of Daegu |
| | 05 | Establish R&D Center |
| 2003 | 11 | Leading SMBA of Daegu |
| 1997 | 10 | Established 'Sung-Jin Automatic Machinery' |

SJINNOTECH

Best Solution & Service for you



HP-350LD / HP-520S II / HP-680S II
HP-850S II / HP-1000S / HPX-1300S

VISION SCREEN PRINTER

New Technology High Performance



// Work Table & Stencil

Heavy PCB Loading

O-Ring Belt 4mm : 8Kg
Flat Belt : Over 8Kg

High Speed Conveyor

Reduce Cycle Time up to 5 sec

PCB Snap-off (Separation)

Motion Vibrations Separate

Stencil Alignment System

Free Size Stencil Change

Stencil Vacuum Hold

PCB Particle Detector

// Cleaning

Simultaneous wet and dry cleaning for a dual-effect in a single cycle.

Winding Cleaning

Stencil Wave Cleaning

// PCB Clamping

Top Link Clamp

Recommend PCB over 0,8t

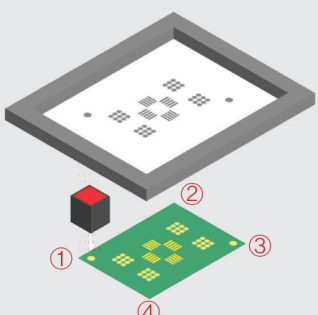
Edge Clamp

Recommend PCB under 0,8t

Software

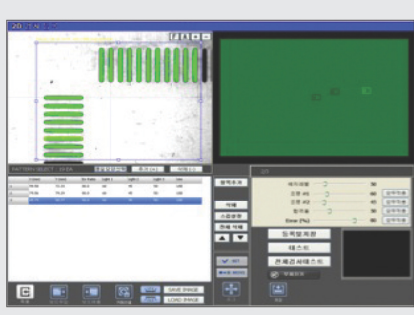
// Vision System

4-Point Fiducial Teaching



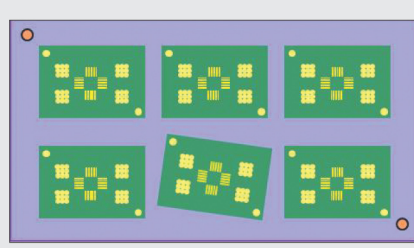
Achieve precise print coordinates arks

2D Inspection



Area 11mm×8mm
Speed per site 400ms
Calculate solder distribution per site

Array PCB Inspection



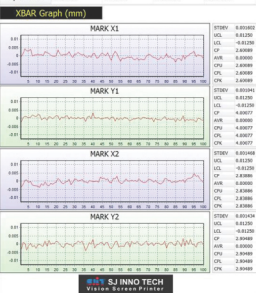
Detect incorrectly mounted products by recognizing individual marks

// CPK(Process Capability Index)

Repeatability & Accuracy

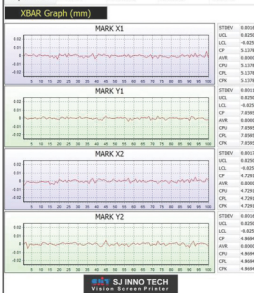
PRE CPK DATA
MACHINE : HP-520S - Sample, DATE : 2014.12.01

POSITION	MARK X1	MARK Y1	MARK X2	MARK Y2
Cpk Value	2.55089	4.00077	2.83886	2.94989



POST CPK DATA
MACHINE : HP-520S - Sample, DATE : 2014.12.01

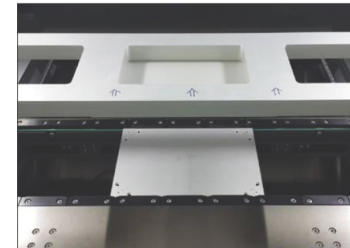
POSITION	MARK X1	MARK Y1	MARK X2	MARK Y2
Cpk Value	5.13786	7.05958	4.72917	4.96947



Alignment
2.0Cpk@±12.5μm

Wet Print
2.0Cpk@±25μm

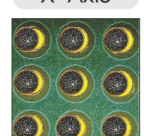
CPK Measure Tooling



X, Y Axis Alignment
Measure both Pre & Post CPK

// Screen Printer ⇔ SPI (Close-Loop Control)

X-Axis

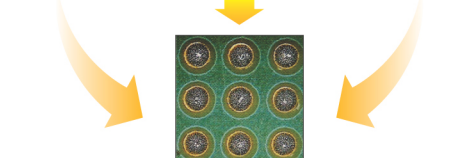


Y-Axis



θ-Axis





Auto Offset, Cleaning Integrations control
SQUEEGEE Input & Speed Control
By-pass function, Work up/down

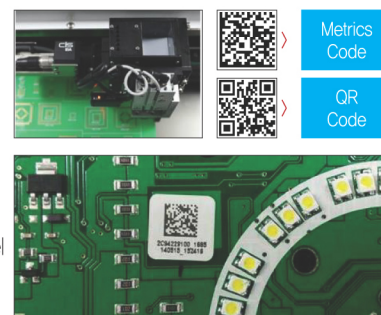
// MES(Manufacturing Execution System)

Offline Barcode Manager



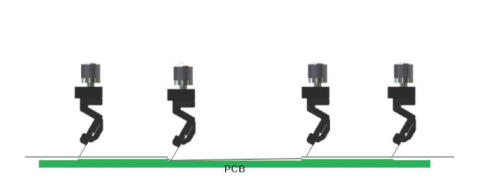
- Replace a Registered Production Model (Job File) with a Barcode Scan
- Record and manage squeegees, stencils, & pastes
- Manage production counts, compare registered IDs to determine job status

2D Barcode Reading



Size up to 5×5mm.
Code Saved as CSV file into Traceability

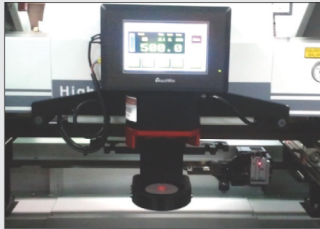
// SQZ Speed & Pressure Control



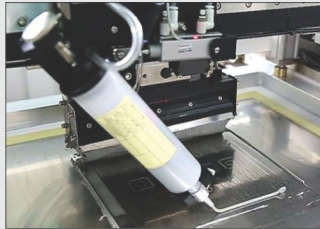
- Real-time input checking
- Pressure & speed regulation in up to 5 zones

Additional Features

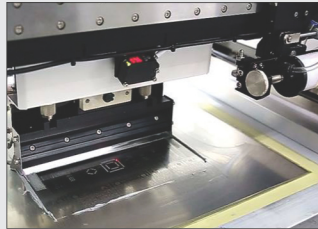
// Auto Solder Dispenser



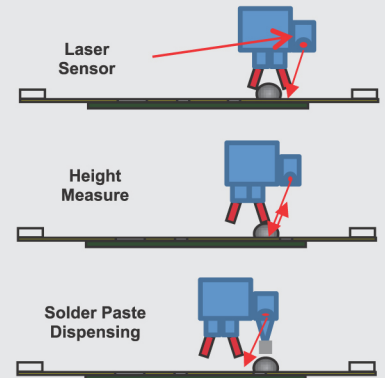
Tube(Jar) Type
Remote Monitoring



Syringe Type

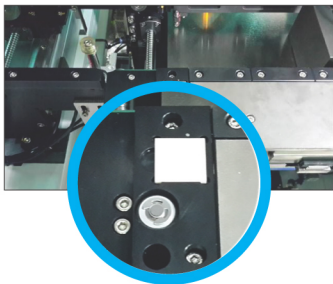


Solder Height
Sensor

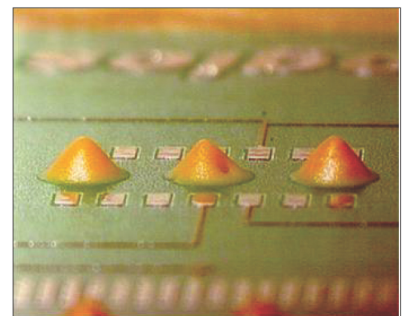
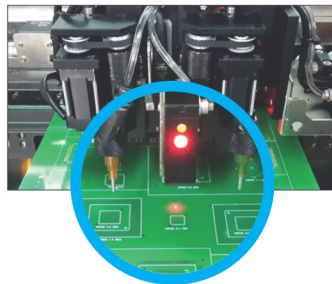


// Two-Dot Dispenser

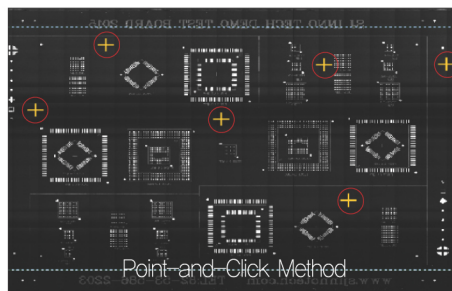
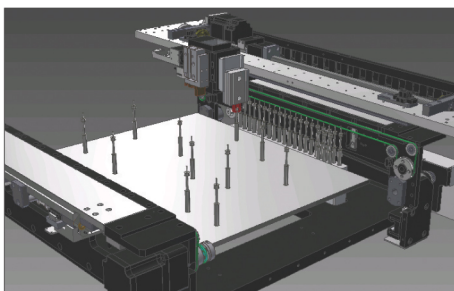
Purge Area DP Nozzle Touch Sensor



Laser Height Sensor



// Auto Back-Up Pin System



// Vacuum Tooling



// Temperature Control Unit

Cooling Capacity

1,100~1,200 Kcal/h

Dimensions and weight

400(W)×450(D)×1030(H) / 40kg

Safety Features

High Pressure Detection Switch
Compressor Overheat Protection
Compressor Protection Delay Time



Specification

SJ InnoTech	HP-350LD	HP-520SII	HP-680SII
Performance			
Alignment Repeatability & Accuracy	$\geq 2,0\text{Cpk} @ \pm 12,5\mu\text{m}$, 6 σ	$\geq 2,0\text{Cpk} @ \pm 12,5\mu\text{m}$, 6 σ	$\geq 2,0\text{Cpk} @ \pm 12,5\mu\text{m}$, 6 σ
Wet Print Repeatability & Accuracy	$\geq 2,0\text{Cpk} @ \pm 25\mu\text{m}$, 6 σ	$\geq 2,0\text{Cpk} @ \pm 25\mu\text{m}$, 6 σ	$\geq 2,0\text{Cpk} @ \pm 25\mu\text{m}$, 6 σ
Cycle Time (203 x 145mm PCB)	6 sec (Excl. Printing)	7 sec (Excl. Printing)	10 sec (Excl. Printing)
PCB Board Handling			
Min. Size (mm)	L 50 x W 50	L 50 x W 50	L 50 x W 50
Max. Size (mm)	L 350 x W 300	L 520 x W 420	L 680 x W 510
Thickness (mm)	0,4 ~ 6,5	0,4 ~ 6,5	0,4 ~ 6,5
Max. Weight (kg)	2	2	5
Underside Clearance (mm)	30	30	30
Support Method	Magnetic Pin & Block	Magnetic Pin & Block	Magnetic Pin & Block
	* Vacuum Type (Option)	* Vacuum Type (Option)	* Vacuum Type (Option)
Clamping Method	Edge Blade (Recomm. 0,2t ~ 0,8t)	Edge Blade (Recomm. 0,2t ~ 0,8t)	Edge Blade (Recomm. 0,2t ~ 0,8t)
	Top Link (Recomm. 0,8t ~ 6,0t)	Top Link (Recomm. 0,8t ~ 6,0t)	Top Link (Recomm. 0,8t ~ 6,0t)
	* Vacuum Type (Option)	* Vacuum Type (Option)	* Vacuum Type (Option)
Parameters			
Print Speed (mm/s)	1 ~ 150	1 ~ 150	1 ~ 150
Print Pressure (kg/f)	0,1 ~ 50	0,1 ~ 50	0,1 ~ 50
Snap-off Distance (mm)	0 ~ 5,0	0 ~ 5,0	0 ~ 5,0
Stencil Frame Length X (mm)	600, 650, 736	584, 600, 650, 736	650, 736, 800, 860
Stencil Frame Width Y (mm)	550, 736	550 ~ 736	550, 736, 800
Vision			
Field-of-View (mm)	11 x 8	11 x 8	11 x 8
Fiducials Size (mm)	0,4 ~ 5,0	0,4 ~ 5,0	0,4 ~ 5,0
Facilities			
Dimension (mm)	L 1,330 x W 2,524 x H 1,482	L 1,560 x W 1,530 x H 1,490	L 1,720 x W 1,540 x H 1,460
Weight (kg)	Approx. 2,200	Approx. 1,200	Approx. 1,400
Power	220v, 50/60Hz, 6,0Kw	220v, 50/60Hz, 6,0Kw	220v, 50/60Hz, 6,0Kw
Pneumatic (Air)	0,5MPa, 40NL/min	0,5MPa, 40NL/min	0,5MPa, 40NL/min
Operating System	MS Window 10 32bit	MS Window 10 32bit	MS Window 10 32bit
Host communication	SEMEVA	SEMEVA	SEMEVA
Additional Features			
Auto Support Pin	Option	Option	Option
2-Dot Dispenser	Option	Option	Option
Auto Solder Dispenser	Option	Option	Option
Stencil Vacuum Holder	x	Standard	x
Solder Height Measure	Option	Option	Option
PCB Particle Detector	Option	Option	Option
High Speed Conveyor	Option	Standard	Option
CPK Measuring Tool	Option	Option	Option
MES System	Option	Option	Option
Off-Line Barcode	Option	Option	Option
2D Barcode	Option	Option	Option
Temperature Control	Option	Option	Option
Touch Screen	Option	Option	Option

HP-850SII

HP-1000S

HPX-1300SL

$\geq 2.0\text{Cpk}@ \pm 12.5\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk}@ \pm 12.5\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk}@ \pm 12.5\mu\text{m}, 6\sigma$
$\geq 2.0\text{Cpk}@ \pm 25\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk}@ \pm 25\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk}@ \pm 25\mu\text{m}, 6\sigma$
12 sec (Excl. Printing)	20 sec (Excl. Printing)	40 sec (Excl. Printing)
L 70 x W 70	L 200 x W 150	L 200 x W 150
L 850 x W 620	L 940 x W 610	L 1240 x W 640
0.4 ~ 6.5	0.3 ~ 6.5	0.3 ~ 6.5
8	10	8
30	30	30
Magnetic Pin & Block	Magnetic Pin & Block	Magnetic Pin & Block
* Vacuum Type (Option)	* Vacuum Type (Option)	* Vacuum Type (Option)
Edge Blade (Recomm. 0.2t ~ 0.8t)	Edge Blade (Recomm. 0.2t ~ 0.8t)	Edge Blade (Recomm. 0.2t ~ 0.8t)
Top Link (Recomm. 0.8t ~ 6.0t)	Top Link (Recomm. 0.8t ~ 6.0t)	Top Link (Recomm. 0.8t ~ 6.0t)
* Vacuum Type (Option)	* Vacuum Type (Option)	* Vacuum Type (Option)
1 ~ 150	1 ~ 150	1 ~ 150
0.1 ~ 50	0.1 ~ 50	0.1 ~ 50
0 ~ 5.0	0 ~ 5.0	0 ~ 5.0
736, 800, 860, 920, 960, 1000, 1060	920, 1000, 1100, 1200	1100, 1200, 1300, 1400, 1500, 1580
736, 800, 920	800, 900	650, 736, 900
11 x 8	11 x 8	11 x 8
0.4 ~ 5.0	0.4 ~ 5.0	0.4 ~ 5.0
L 1,910 x W 1,850 x H 1,460	L 1,950 x W 1,886 x H 1,457	L 2,480 x W 1,755 x H 1,505
Approx. 1,700	Approx. 1,800	Approx. 2,000
220v, 50/60Hz, 6.0Kw	220v, 50/60Hz, 6.0Kw	220v, 50/60Hz, 6.0Kw
0.5MPa, 40NL/min	0.5MPa, 40NL/min	0.5MPa, 40NL/min
MS Window 10 32bit	MS Window 10 32bit	MS Window 10 32bit
SEMEMA	SEMEMA	SEMEMA
Option	Option	Option
Option	Option	Option
Option	Option	Option
x	x	x
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option
Option	Option	Option

SJ INNOTECH Model

Vision Screen Printer

HP PIONEER

PIONEER OF SCREEN PRINTING

New Technology High Performance



Performance

Align Repeatability	$\pm 10\mu\text{m}$ @ 6 σ
Wet Print Accuracy & Repeatability	6 σ , $\geq 2.0\text{Cpk}$ $\pm 15\mu\text{m}$ (Certified by CeTaQ GmbH)
Core Cycle Time (PCB 203 X 145mm)	App. 12 seconds (including print and wipe)
0201 Chip, 0.2Pitch QFP, $\varnothing 0.1\text{MBGA}$	

PCB Board Handling

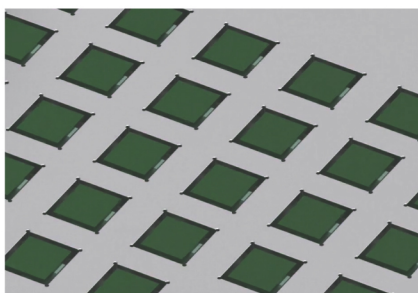
Size (mm)	50 X 50 ~ 350 X 300 (L x W)
Thickness (mm)	0.1t ~ 7.0t
Max. Weight (kg)	2

Parameters

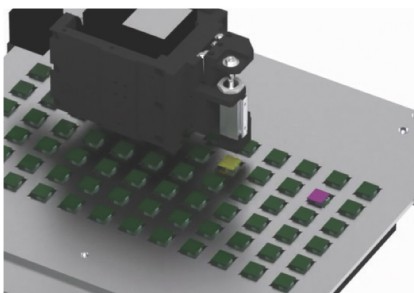
Stencil Frame Length X (mm)	584 ~ 736 (Free Size)
Stencil Frame Width Y (mm)	550 ~ 736 (Free Size)

* Test conditions apply; check with sales for details, Specifications may change without notice, Contact the factory for specifics.

FCBGA(Flip Chip Ball Grid Array) - Boat Align Feature



1. Multi Align (X-Y)



2. Flying Vision Scanning



3. Unit Align

The HP Pioneer boasts superior precision, complemented by its unique alignment features using Flying Vision capabilities.

It promises to enhance yields, especially for boats, carrier types, and beyond. Our machine demonstrated an Align Repeatability of $\pm 10.0\mu\text{m}$

Furthermore, its Wet Print Accuracy & Repeatability has been verified at 6 σ , $\geq 2.0\text{Cpk}$ $\pm 15\mu\text{m}$, as tested and accredited by CeTaQ through PCA analysis.

1 Summary

The purpose for this machine capability analysis is to verify the equipment performance internally.

SMT glue from Loctite type 3611 and stencil (100 μ m with 500 μ m apertures) made by Youngjin Astech has been used for the test.

Specification limits set for both X&Y direction: $\pm 15\mu\text{m}@6\sigma$.

There were intotal 32 measurements has been done to test this machine.

The first 6 boards were test with type 5 solder paster as a try; Measurement No.7 No.12 prints as initial state.

Base on the inital state, general offsets been applied into the machine data as below:
Front to Rear (FtR) X: 16.5 μ m; Y: 59.2 μ m and Rear to Front (RtF) X; 14.2 μ m; Y: 40.2 μ m

The printing accuracy of the equipment has been measured. For this purpose, the last 20 prints are summarized to calculate the final result. Besides, the repeatability is also calculated.

Influences by inaccuracies of the applied printing form on the results are thereby eliminated.

The equipment has reached the demand specification limits on it's final state.

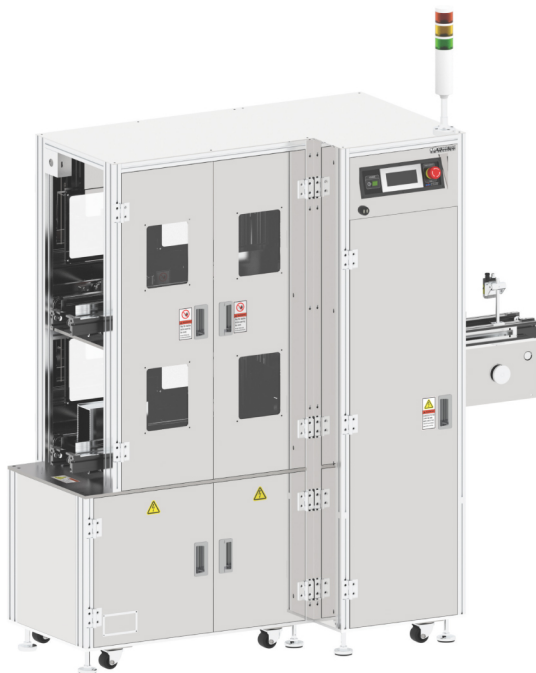
Over All M13 M32				
Board to Board				
Characteristic	Specification @6-sigma	C_m 2.00	C_{mk} 2.00	Result
x-offset	-15.0 μ m ... 15.0 μ m	3.04	2.96	Passed
y-offset	-15.0 μ m ... 15.0 μ m	2.12	2.01	Passed
No. of Measurements	480			

Table 1: Overview about the C_{mk} Values

¹The Board-to-Board accuracy shows the performance of the printer to align and print accurately and repeatably over a certain number of boards. It neglects all influences coming from the accuracy of the stencil and minimizes other influences. Because of this, the Board-to-Board C_m values are mostly used to check the printer against the supplier specification limits.

Cassette Loader [SCSL]

Loader using cassette-type magazines.



● Key Feature

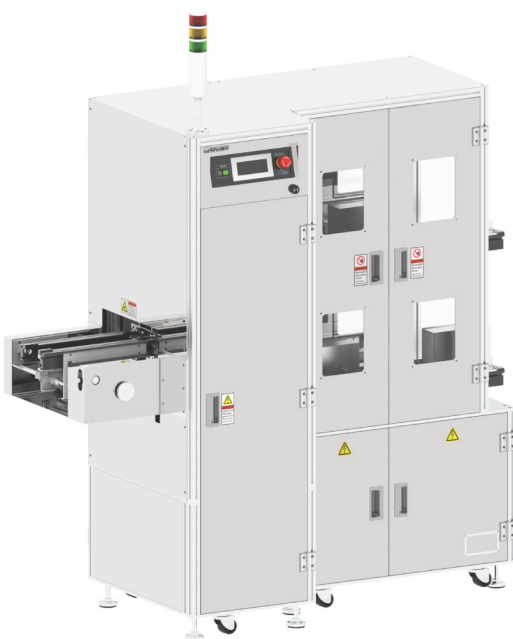
- PLC Control
- SMEMA Interface
- Servo Motor
- Cover Sensor
- AC 220V 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor [Standard for Unloader]
- Auto-width adjustment
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- AC 100~240V, 50~60Hz / 5.0Kgf
- Contact sales

Cassette Unloader [SCSU]

Unloader using cassette-type magazines.



● Key Feature

- PLC Control
- SMEMA Interface
- Servo Motor
- Cover Sensor
- AC 220V 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor [Standard for Unloader]
- Auto-width adjustment
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- AC 100~240V, 50~60Hz / 5.0Kgf
- Contact sales

Cassette 90° Loader [SCTL]

Cassette type magazines loader that utilizes space in a 90° direction.



● Key Feature

- PLC Control
- SMEMA Interface
- Servo Motor
- Cover Sensor
- AC 220V 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor [Standard for Unloader]
- Auto-width adjustment
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- AC 100~240V, 50~60Hz / 5.0Kgf
- Contact sales

Cassette 90° Unloader [SCTU]

Cassette type magazines unloader that utilizes space in a 90° direction.



● Key Feature

- PLC Control
- SMEMA Interface
- Servo Motor
- Cover Sensor
- AC 220V 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor [Standard for Unloader]
- Auto-width adjustment
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- AC 100~240V, 50~60Hz / 5.0Kgf
- Contact sales

Multi-Layer PCB Loader & Unloader

Loader & unloader equipment that goes into the PCB manufacturing process.



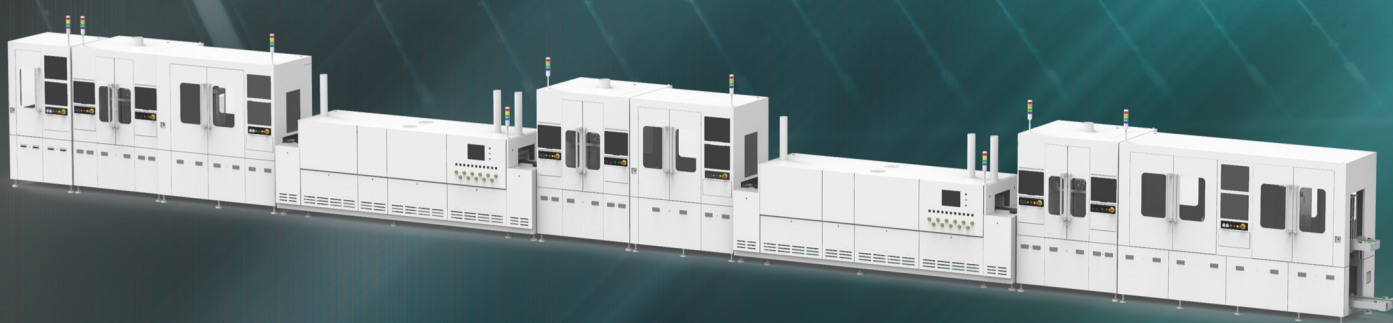
Item	Specification
Dimension [L × W × H]	2,350 × 2,010 × 2,350
Substrate Size [L × W × H]	510 × 610 × 0.4~1.4t
Interleaving Paper Size	510 × 610 × 0.2~2.0t
Box Size [L × W × H]	612 × 676 × 115
Box Loading Qty	4/25 Substrate per Box
Power	3 phase / 220v / 60Hz
Air	5~6kgf/cm ²

METALLIZATION IN-LINE

New Technology High Performance

Equipment to form patterns of metal electrodes on photovoltaic silicon wafers

[HJT, p-PERC, Bifacial]

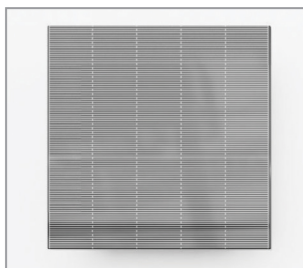


✓ Single Lane – 2,900 WPH

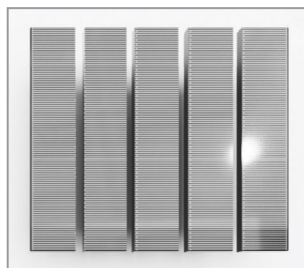
✓ Dual Lane – 5,800 WPH

Shingled In-line Module

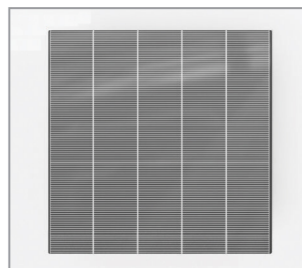
Solar module equipment with Solar Shingled technology.



Cell



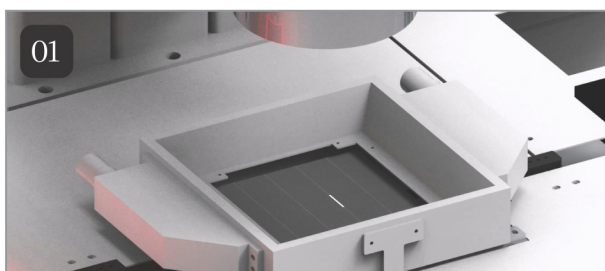
Cell Cutting



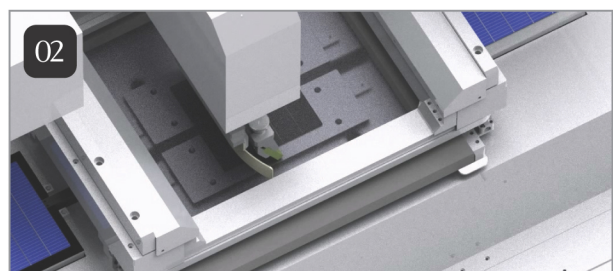
Glued with ECA



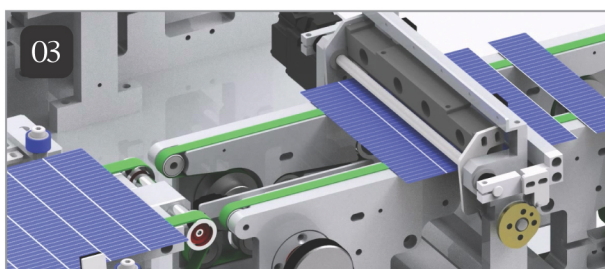
Overlap



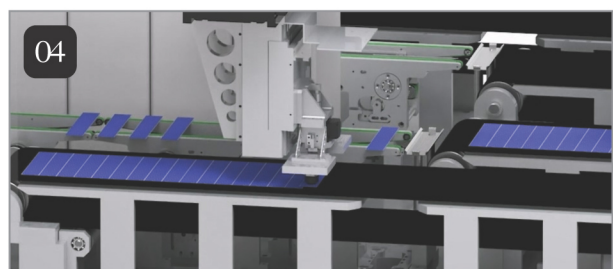
Laser Scribing



Screen Printing



Cell Cutting



Cell Assembly

FUEL CELL

New Technology High Performance

Screen Printer for hydrogen fuel cells that prints on Carbon-based thin film substrates.

[PAFC (Phosphoric acid fuel cell)]

[SOFC (Solid oxide fuel cell)]



Item	Specification
Substrate Size [mm]	533 × 533
Substrate Thickness [μm]	400~500
Substrate Material	Carbon
Screen Size [mm]	1,100 × 1,100
Cycle Time	28sec(Front), 26sec(Back)
Vacuum Table	Ceramic Porous Plates
Printing Method	Flood & Print
Vision Accuracy	±25um(Substrate)

Laser Scriber

Laser scribing on ceramic substrates for the fabrication of SMD resistor chips. [0201, 0402, 0603]



- * Laser Source : IR / UV / GREEN
- * Alumina Ceramic Substrate - 0.1t ~ 0.5t
- * Alignment Repeatability & Accuracy $\pm 3\mu\text{m}$

CR Printer

Equipment used in the printing process of scribed ceramic substrates for making SMD resistor chips.
[0201, 0402, 0603]



- * Alumina Ceramic Substrate - 0.1t ~ 0.5t
- * Alignment Repeatability & Accuracy $\pm 6\mu\text{m}$

Factory Automation

SMT EQUIPMENT SYSTEM

New Technology High Performance



Loader & Unloader

Magazine Loader / Unloader

Magazine Multi Loader / Unloader

90° Loader / Unloader

Tray Loader / Unloader

Cassette Loader / Unloader

Press Jig Loader / Unloader

Vacuum Loader

Vacuum & Cleaning Loader

Buffer

SPI & AOI Buffer

Magazing Buffer

Rack Buffer

Cooling Buffer

Conveyor

Work Table

Cooling Work Table

Connecting Conveyor

Cooling Conveyor

Slide Conveyor / Dual Slide Conveyor

Vertical Turning Conveyor

Horizontal Turning Conveyor

Gate Conveyor

Magazine Loader [SLD]

Loader

Standard loader, discharges PCBs loaded in a magazine to the next machine.



● Key Feature

- PLC Control
- SMEMA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- AC 220v 60Hz / 5.0Kgf

● Option

- High Speed
- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Multi Loader [SML]

Loader

This loader can be used for both types of magazines.



● Key Feature

- PLC Control
- SMEMA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- AC 220v 60Hz / 5.0Kgf

● Option

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

90° Loader [STL]

Loader

This loader input direction of 90°.



● Key Feature

- PLC Control
- SMEMA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- AC 220v 60Hz / 5.0Kgf

● 옵션

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Vacuum Loader [SBSF]

Loader

This loader feeds bare PCBs into a stack and ejects them one by one.



● Key Feature

- PLC Control
- SMEMA Interface
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Auto-width adjustment [C/V, Load Guide]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- AGV Integration
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Vacuum Cleaning Loader [SVL]

Loader

This loader feeds bare PCBs into a pile and removes debris before ejecting them one by one.



● Key Feature

- PLC Control
- SMI/MA Interface
- Cover Sensor
- AC 220v 60Hz / 5.0Kg

● Option

- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [C/V, Load Guide]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- AGV Integration
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kg
- Contact Sales

Magazine Unloader [SUD]

Unloader

Standard unloader, ejected PCBs into the magazine.



● Key Feature

- PLC Control
- SMI/MA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- Heat resistant belts
- AC 220v 60Hz / 5.0Kg

● Option

- High Speed
- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kg
- Contact Sales

Multi Unloader [SMU]

Unloader

This unloader can be used for both types of magazines.



● Key Feature

- PLC Control
- SMEMA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- Heat resistant belts
- AC 220v 60Hz / 5.0Kgf

● Option

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

90° Unloader [STU]

Unloader

This unloader input direction of 90°.



● Key Feature

- PLC Control
- SMEMA Interface
- Magazine Load Quantity [Standard] : Upper 1ea, Lower 2ea
- Board Feeding Pitch Control
- Heat resistant belts
- AC 220v 60Hz / 5.0Kgf

● Option

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- AGV Integration
- Pusher Pressure Gauge
- Barcode Scanner
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

NG Buffer [SSB]

Buffer

Standard buffer that works with the inspector to load NG products.



Key Feature

- PLC Control
- SMTA Interface
- Inspector [AOI, SPI] integration
- AC 220v 60Hz / 5.0Kgf

Option

- High Speed
- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Rail & Rack]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Chain Belt
- Digital Pressure Gauge
- ROS features [NG features removed]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Cooling Buffer [SSB-C]

Buffer

After the reflow— this buffer cooling the heat from products before put into the post-process.



Key Feature

- PLC Control
- SMTA Interface
- Heat resistant belts
- AC 220v 60Hz / 5.0Kgf

Option

- High Speed
- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Rail & Rack]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Chain Belt
- Digital Pressure Gauge
- Industrial A/C
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Magazine Buffer [SMB]

Buffer

Same as a standard buffer, but using a magazine to load it.



● Key Feature

- PLC Control
- SMEMA Interface
- Board Feeding Pitching Control
- AC 220v 60Hz / 5.0Kgf

● Option

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Rail & Rack, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Pusher Pressure Gauge
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Rack Buffer [SRB]

Buffer

Same as a standard buffer, but using a rack to load it.



● Key Feature

- PLC Control
- SMEMA Interface
- Inspector [AOI, SPI] integration
- AC 220v 60Hz / 5.0Kgf

● 옵션

- High Speed
- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V, Rail & Rack, Pusher]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Pusher Pressure Gauge
- Digital Pressure Gauge
- ROS features [NG features removed]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Connecting Conveyor [SCC]

Conveyor

This conveyor connect the front and back processes.



● Key Feature

- PLC Control
- SPC Interface
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Auto-width adjustment (Rail)
- Double Sensor
- ESD Ground (Motor, Rail, and Safety)
- Cover (Dust, Safety)
- Cover Sensor
- Speed Controller
- Release Timer
- Communication
- AOI / SPI / SNNA / MOXA
- Work, Pass, Auto, Manual Mode
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Work Table [SWT]

Conveyor

This work table creates space for visual inspection and manual labor on a connecting conveyor.



● Key Feature

- PLC Control
- SPC Interface
- Work, Pass, Auto, Manual Mode
- Speed Controller
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Release Timer
- Communication
- AOI / SPI / SNNA / MOXA
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

SMT
Screen Printer

SEMICONDUCTOR

MULTI-LAYER PCB
Loader & Unloader

SOLAR CELL

FUEL CELL

CHIP RESISTOR

SMT
Equipment System

Cooling Conveyor [SCL]

Conveyor

Connecting conveyor to cool down the heat after the reflow.



● Key Feature

- PLC Control
- SMEMA Interface
- Heat resistant belts
- Speed Controller
- Release Timer
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- PCB Stopper
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Cleaning Conveyor [SCN]

Conveyor

Connecting conveyor that removes debris and feeds it into the next process.



● Key Feature

- PLC Control
- SMEMA Interface
- Ionizer Fan Type
- Air Knife
- Ring Blower
- Speed Controller
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Bottom dust collector
- Ionizer Bar Type
- Industrial dust collector
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

NG Conveyor [SNC]

Conveyor

This conveyor works with the inspector and informs users when they have an NG product.



● Key Feature

- PLC Control
- SMIEMA Interface
- Communication AOI / SPI / SNNA / MOXA
- Work, Pass, Auto, Manual Mode
- NG products can be loaded one at a time
- AC 220v 60Hz / 5.0Kgf

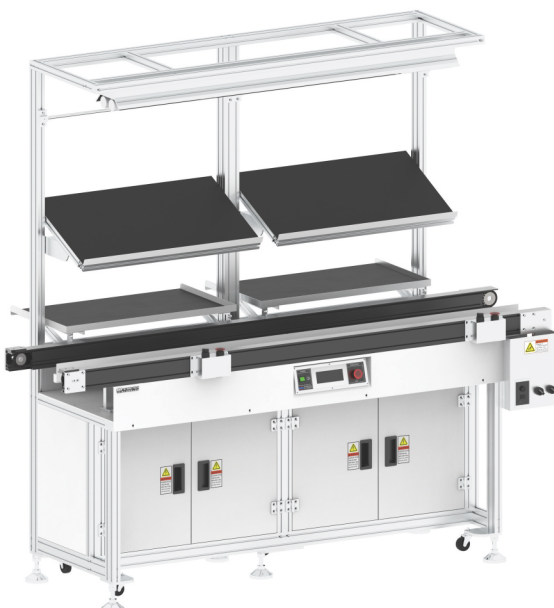
● Option

- Dual Type
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Cover Sensor
- Speed Controller
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Chain Conveyor [SCH]

Conveyor

A chain-type work table conveyor.



● Key Feature

- PLC Control
- SMIEMA Interface
- Work, Pass, Auto, Manual Mode
- Speed Controller
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Release Timer
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

SMT
Screen Printer

SEMICONDUCTOR

MULTI-LAYER PCB
Loader & Unloader

SOLAR CELL

FUEL CELL

CHIP RESISTOR

SMT
Equipment System

Belt Conveyor [SBC]

Conveyor

A full-belt type connecting conveyor.



● Key Feature

- Always-on mode [On/Off Control]
- Speed Controller
- Select width and length
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- ESD Ground [Motor, Rail, and Safety]
- PLC Control
- SMEMA Interface
- Product Detection Sensors
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Gate Conveyor [SGC]

Conveyor

A conveyor that reduces operator travel time between production lines.



● Key Feature

- PLC Control
- SMEMA Interface
- 500mm Path
- Aisle safety sensors
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Speed Controller
- PCB Stopper
- Release Timer
- Aisle safety sensors [Area Sensor Type]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Slide Conveyor [SSC]

Slide Conveyor

A slide conveyor with one front entrance and two rear exits. The rear exits can be front only, rear only, or dual. If there is an inspector machine at the front, it can also be utilized as a front for OK and rear for NG.

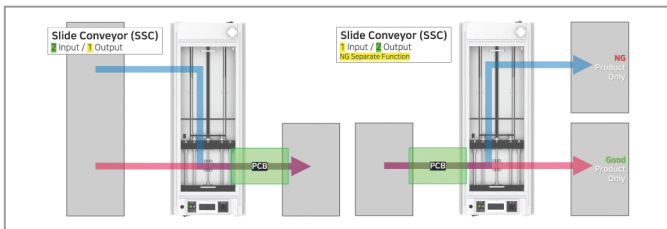


Key Feature

- PLC Control
- Single/Dual SMEMA Interface
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

- Inverter
- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Speed Controller
- PCB Stopper
- Release Timer
- Servo Motor
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Dual Slide Conveyor [SSC-D]

Slide Conveyor

A dual slide conveyor designed to resolve rail differences between machines. It adjusts a wide rail at the front to a narrow rail at the back, or a narrow rail at the front to a wide rail at the back.

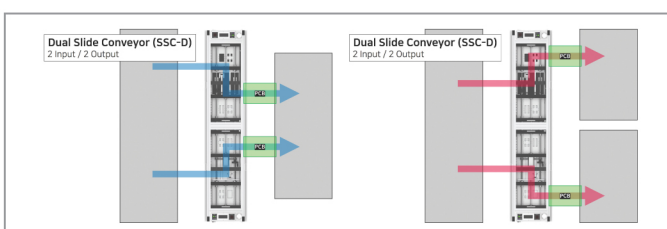


주요 특징

- PLC Control
- Single/Dual SMEMA Interface
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

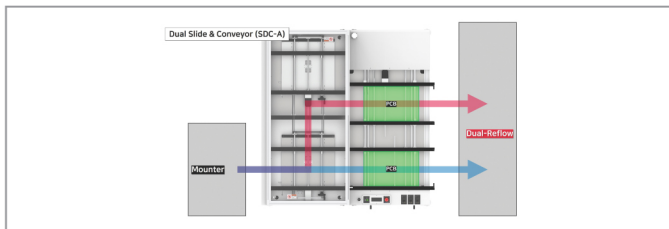
- Inverter
- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Speed Controller
- PCB Stopper
- Release Timer
- Servo Motor
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Dual Slide & Conveyor [SDC-A]

Slide Conveyor

Allow production time for the single mounter at the front end.



Key Feature

- PLC Control
- SMEMA Interface
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

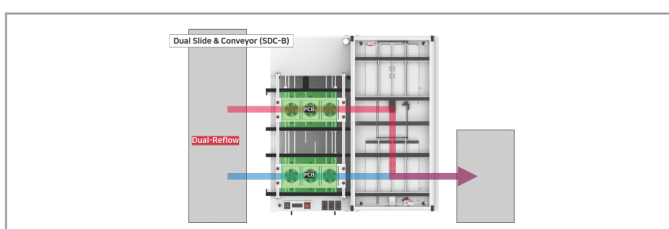
Option

- Inverter
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Speed Controller
- PCB Stopper
- Release Timer
- Servo Motor
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Dual Slide & Conveyor [SDC-B]

Slide Conveyor

Allow cooling time for the reflow at the back end.



Key Feature

- PLC Control
- SMEMA Interface
- Cooling Fan
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

- Inverter
- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Speed Controller
- PCB Stopper
- Release Timer
- Servo Motor
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Slide Gate Conveyor [SSGC]

Slide Conveyor

Space-saving specialized conveyor that combines with gate conveyor and slide conveyor.



● Key Feature

- PLC Control
- SMI/MA Interface
- 500mm Path
- Aisle safety sensors
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Inverter
- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Speed Controller
- PCB Stopper
- Digital Pressure Gauge
- Aisle safety sensors [Area Sensor Type]
- Servo Motor
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Vertical Turning Conveyor [SVT]

Turn Conveyor

This is suitable conveyor when PCB top side needs to be changed to bottom side.

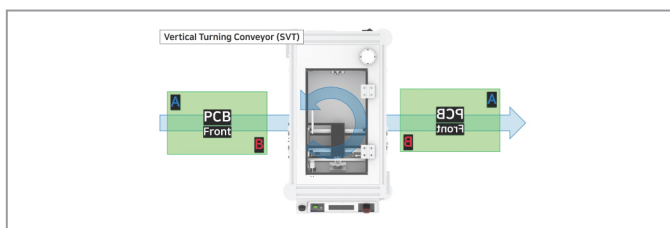


● Key Feature

- PLC Control
- SMI/MA Interface
- PCB Stopper
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Dual Type
- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Horizontal Turning Conveyor [SHT]

Turn Conveyor

A conveyor to change the entering base side of the process flow.

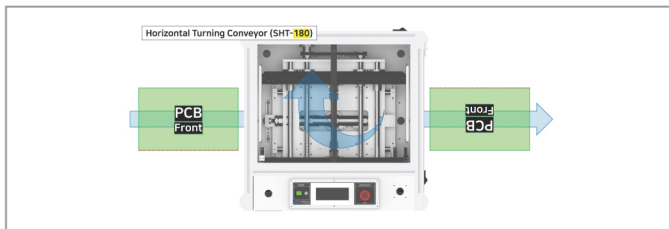


● Key Feature

- PLC Control
- SMEMA Interface
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Multi Turning Conveyor [SHVT]

Turn Conveyor

A conveyor that rotates and ejects the feed product in the direction of the user's choice.

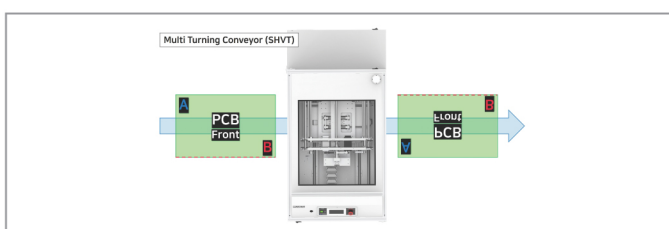


● Key Feature

- PLC Control
- SMEMA Interface
- Auto-width adjustment (Rail)
- PCB Stopper
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Turn PCB Conveyor [STP]

Turn Conveyor

A conveyor that rotates the base side of a product and ejects it to the next machine.

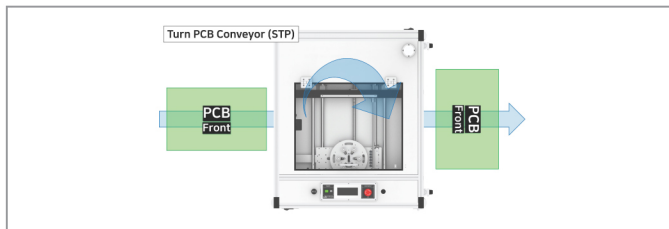


Key Feature

- PLC Control
- SMI/MA Interface
- Auto-width adjustment
- Servo Motor
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales



Tray Loader & Unloader [TLD & TUD]

ODM

An loader & unloader that uses the customer's tray type instead of a regular magazine.



Key Feature

- PLC Control
- SMI/MA Interface
- PCB Stopper
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Dust, Safety]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Overhead Conveyor System

ODM

Overhead conveyor system



● Key Feature

- KCs Safety Certification
- PLC Control
- SMEMA Interface
- Auto-width adjustment
- Servo Motor
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

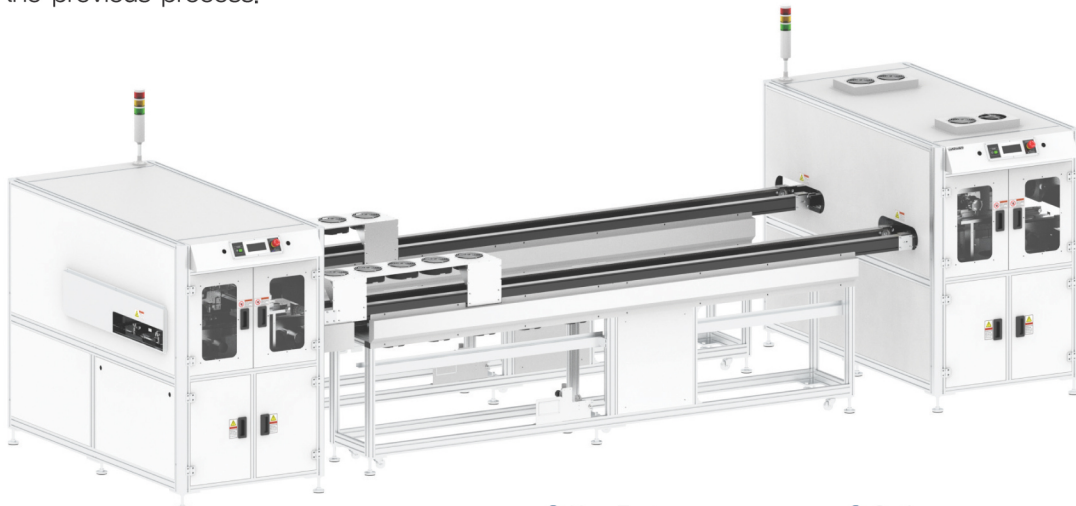
Press Jig Return System

ODM

This equipment is designed to circulate jigs.

Prior to the reflow process, the jig cover is attached & discharge, and the cover is removed.

Jig returned to the previous process.



● Key Feature

- Inverter
- PLC Control
- SMEMA Interface
- Servo Motor
- Speed Controller
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- AC 100~240V, 50~60Hz / 5.0Kgf
- Contact Sales

Magazine Loader-Unloader [SMLD]

ODM

It naturally cures the coated PCBs inside magazine & discharges the PCBs one by one after completion.



● Key Feature

- PLC Control
- SMEMA Interface
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Rail, Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Sub C/V]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Vacuum Unloader [SBSF - UD]

ODM

An unloader with the same configuration as a vacuum loader.



● Key Feature

- PLC Control
- SMEMA Interface
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Auto-width adjustment (C/V)
- Double Sensor
- ESD Ground (Motor, Rail, and Safety)
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

SMT

Screen Printer

SEMICONDUCTOR

MULTI-LAYER PCB
Loader & Unloader

SOLAR CELL

FUEL CELL

CHIP RESISTOR

SMT
Equipment System

Magazine Return System [SRS]

ODM

It's a natural curing machine like the SMLD. This system is capable of holding 15 or more magazines.



● Key Feature

- Inverter
- PLC Control
- SMEMA Interface
- Auto-width adjustment [Rail, Pusher]
- 7-inch wide touch panel
- Cover
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Sub-Conveyor
- Auto-width adjustment [Sub-C/V]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Cover [Sub C/V]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

SUS Cover Loader [SJCA]

ODM

A cover is mounted on the front of the jig, allowing the product to be discharged and preventing wa rpage.



● Key Feature

- PLC Control
- SMEMA Interface
- Cover Entry Area Safety Sensor
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

● Option

- CE
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

Turn & Clean Conveyor [SVCN]

ODM

It is a combined product of Vertical Turning Conveyor and Cleaning Conveyor.



Key Feature

- PLC Control
- SMEA Interface
- Ionizer Fan Type
- Air Knife
- Ring Blower
- Speed Controller
- Cover Sensor
- AC 220v 60Hz / 5.0Kgf

Option

- CE
- Auto-width adjustment [Rail]
- Double Sensor
- ESD Ground [Motor, Rail, and Safety]
- Digital Pressure Gauge
- Bottom dust collector
- Ionizer Bar Type
- Industrial dust collector
- AC 100~240v, 50~60Hz / 5.0Kgf
- Contact Sales

ODM

Original Development Manufacturing

We have extensive experience and know-how in automation equipment and can tailor our manufacturing to meet customer needs.



Overseas Sales Office /

Europe Agency

Altus Group Ltd

- U.K & Ireland (Altus Group) : +44-1592-655-400
- Benelux (W&S Benelux BV) : +31-162-521-677

Danutek Kft

- Hungary & Romania (Danutek) : +36-1-273-0457
- Poland (Pakt Electronics) : +48-608-664-589

SmartTec GmbH

- Germany (SmartTec) : +49-6106-6670 100
- Austria (SmartTec) : +49-6106-6670 100
- Switzerland (SmartTec) : +49-6106-6670 100
- Nordic (Peter Jordan Nordic) :
+45-40-30-60-64 (Denmark, Sweden, Norway)

Estanflux

- Spain : +34-93-408-5323

Cabiotec

- Italy : +39-2-6431832

Russia Agency

LionTech Ltd

- Russia (Liontech) : +7-812-715-09-05

Taiwan, China Agency

So-High Technology Co.,Ltd

- Taiwan (So-High): +886-3-325-0798
- China (So-High) : +86-769-8899-6389 (Dongguan)
: +86-512-69009939 (Suzhou)

India Agency

Bergen System Pvt. Ltd

- India (Bergen) : +91-124-400-2888 (New Delhi)
: +91-80-4115-0963 (Bangalore)

Indonesia Agency

PT. JIN SUNG TECH

- Indonesia (PT.JIN SUNG) :+62-21-8983-2002

Australia Agency

ONBoard Solutions Pty Ltd

- Australia (ONBard) : +61-2-9695-1030

Southeast Asia Agency

G' Technologies Intl., Inc.

- Philippines : +63 49 502 7238

Southwest Asia Agency

KMC GRUP

- Turkey (KMC) : +90-216-527-36-41

South America Agency

PIMAX

- Brazil (PIMAX) : +55-11-9-9153-6389

North America Agency

INTERLATIN INC.

- USA, Canada, Mexico : +1-915-298-5450

South Africa Agency

Priben Distribution cc

- South Africa : +27-11-4732149



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2023. August



- ✓ Inno-Biz Company
- ✓ Small Giant Company



ISO9001:2015



ISO14001:2015



ISO45001:2015



• The information provided may be updated without advance notice.