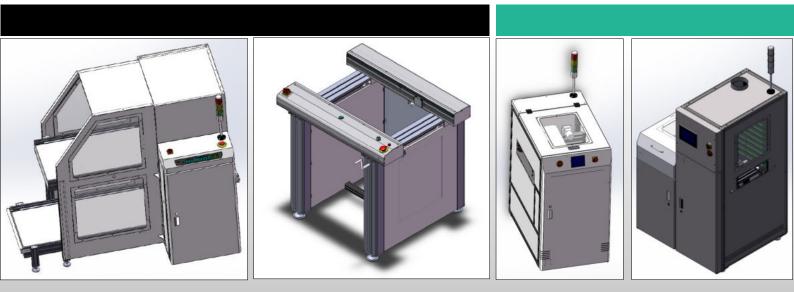


Board Handling

Electronic Manufacturing Equipment



LOADERS/UNLOADERS

CONVEYORS

INVERTERS

BUFFERS

PLUS MANY OTHERS...

www.eflexsmt.com

Interprise Mission

Enterprise Core Values

Business Management Concept

Quality Management Concept

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CO	nte	ents
	Πις	:::LJ

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In the electronic equipment industry, our goal is to continue being the most competitive design among all high-end manufacturers.







e-Flex SMT Microsystems supplies a wide range of the most innovative and reliable types of SMT (Surface Mount Technology) equipment and Electronic devices manufactured in East Asia.

Our goal is to expand day by day into each country and to bring satisfaction to our customers, offering solutions at a cost-effective rate. We are constantly developing and improving our existing models of machinery in order to be up to date to the current levels of sophistication.

Our full line of equipment and accessories is actually fitting every demand of our customer's SMT lines. We bring solutions to every need at a very reasonable cost.

Located in Hong Kong, Asia's World City and home of the Electronics industry in Asia, e-Flex SMT Microsystems services world-wide and has already many distributors in different countries.

We are experts in selecting the best choices of equipment and machinery under the demands of our clients.

With a combination of cost-effective rates and machinery expertise, e-Flex SMT Microsystems is the best choice you might have at the present moment as your SMT supplier.

Process

We always believe that perfect quality should start with good parts, that's why we only choose first-class suppliers

Strictly select spare parts, choose the world class brand parts, to ensure the reliability and durability of the quality of parts

YASKAWA [JAPAN]

OMRON [JAPAN]

SHINANOMOTOR [JAPAN]

AIRTAC [TAIWAN(CHINA)]

IDEC [JAPAN]

MOLEX [US]

Electric parts

PANASONIC [JAPAN] SICK [GEMAN] Q-LIGHT [KOREA] MEANWELL [TAIWAN(CHINA)] DELTA [TAIWAN(CHINA)]

Pneumatic parts

SMC [JAPAN]

Mechanical parts

NSK [JAPAN] MITSUBOSHI BELT [JAPAN] TBI MOTION [TAIWAN(CHINA)] KOYO [JAPAN] MARTIN [US] HABASIT [SWISS]

HIWIN [TAIWAN(CHINA)]



MITSUBISHI [JAPAN]

SIEMENS[GERMAN]

KEYENCE [JAPAN]

IGUS [GERMAN]









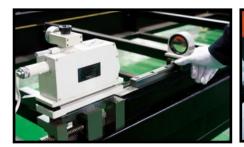






Professional assembly, standardized assembly procedure:

Each device runs at least 24H from the factory and simulates the motion signal Comply with European safety CE standard to ensure the safety and quality of equipment operation Strictly according to the factory inspection standards, to ensure that each machine excellent performance







X&Y Guide Rail Testing

Synchronizing Wheel Testing

Horizontal Testing







Inspection Conveyor (Economic Type)

0

Features

- Modular design, PLC controlled
- Stability enhanced by heavy design
- Worktable included by default
- Smooth and parallel width adjustment (stainless steel screws)
- Different lengths available upon request
- Multi-segment concept available upon request
- Automatic/Manual modes
- Variable speed control
- Inspection button
- SMEMA compatible
- Conveyor height 950±30mm

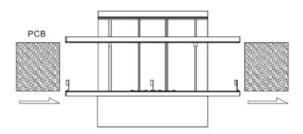


- ESD Covers anti-dust
- Touch screen
- High-Clearance on request
- Cooling fans on top/bottom for after-reflow
- Light system for better inspection
- Support for Monitor
- Shelf with ESD component boxes
- Motorized/Automatic width adjustment
- Choice of different belt width and chain transport system
- Mechanical stopper
- Foot pedal pass control
- Narrow footprint
- With bottom cabinet

Technical Parameters

Description	This unit is used as a visual inspection station for op- erators between SMT machines or board handling unit to link the machines.
Belt Type	Antistatic Flat Belt of 3mm width
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100W MAX

Schematic



0 0

Specification

5

Length in m	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
0.5	WH-C050SD3BXL	500x695x980 60x60 - 445x460		87
1.0	WH-C100SD3BXL	3XL 1000x755x980 60x60 - 530x460		127
1.5	WH-E150SD3BXL	1500x755x980	60x60 - 695x460	180
2.0	WH-E200SD3BXL	2000x755x980	60x60 - 945x460	220



Inspection Conveyor (Hybrid Type)

Features

- Modular design, PLC controlled .
- Stability enhanced by heavy design
- High-end rails on top of an economic type structure •
- Smooth and parallel width adjustment (stainless steel screws) •
- Different lengths available upon request
- Multi-segment concept available upon request •
- Automatic/Manual modes .
- Variable speed control
- Inspection button •
- SMEMA compatible •
- Conveyor height 950 ± 30 mm

Options

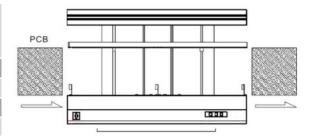
- ESD Covers anti-dust •
- Touch screen
- •
- High-Clearance on request Cooling fans on top/bottom for after-reflow ٠
- Light system for better inspection •
- Support for Monitor •
- Shelf with ESD component boxes •
- Motorized/Automatic width adjustment •
- Choice of different belt width and chain transport system •
- ٠ Mechanical stopper
- Foot pedal pass control •
- Narrow footprint
- Safety interlocker for the covers •

Technical Parameters

Specification

Description	This unit is used as a visual inspection station for operators between SMT machines or board handling unit to link the machines.
Belt Type	Antistatic Flat Belt of 3mm width
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100W Max.

Units in mm



Length in m	Model	Machine Dimensions(LxWxH) in mm Effective PCB Size (LxW) in mm		Weight (Kg)
0.5	WH-C050ZD3BXL	500x695x980	60x60 - 445x460	87
1.0	WH-C100ZD3BXL	1000x755x980	60x60 - 530x460	127
1.5	WH-E150ZD3BXL	1500x755x980	60x60 - 695x460	180
2.0	WH-E200ZD3BXL	2000x755x980	60x60 - 945x460	220



Inspection Conveyor (High-End Type)

Features

- Modular design, PLC controlled
- Stability enhanced by heavy design
- Beautiful design with aluminum finishing
- Smooth and parallel width adjustment (stainless steel screws)
- Different lengths available upon request
- Multi-segment concept available upon request
- Automatic/Manual modes
- Variable speed control
- Inspection button
- SMEMA compatible
- Conveyor height 950 \pm 30mm

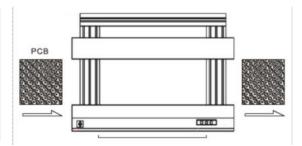
Options

- ESD Covers anti-dust
- Touch screen
- High-Clearance on request
- Cooling fans on top/bottom for after-reflow
- Light system for better inspection
- Support for Monitor
- Shelf with ESD component boxes
- Motorized/Automatic width adjustment
- Choice of different belt width and chain transport system
- Mechanical stopper
- Foot pedal pass control
- Narrow footprint
- Safety interlocker for the covers



Technical Parameters

Description	This unit is used as a visual inspection station for opera- tors between SMT machines or board handling unit to link the machines.
Belt Type	Antistatic Flat Belt of 3mm width
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100W Max.



Specific	pecification				
Length in m	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)	
0.5	WH-C050HD3BXL	KL 500x780x980 60x60 - 445x460		87	
1.0	WH-C100HD3BXL	XL 1000x849x980 60x60 - 530x460	129		
1.5	WH-C150HD3BXL	1500x790x980	60x60 - 695x460	180	
2.0	WH-C200HD3BXL	2000x849x980	60x60 - 945x460	240	



Dual Rail Conveyor



Features

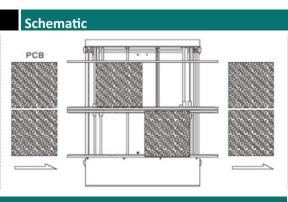
- Modular design, PLC controlled
- Stability enhanced by heavy design Worktable included by default
- Smooth and parallel width adjustment (stainless steel screws) •
- Different lengths available upon request •
- Multi-segment concept available upon request •
- Automatic/Manual modes •
- Independent variable speed controls for each rail
- Independent inspection buttons •
- SMEMA compatible
- Conveyor height 950 \pm 30mm

Options

- ESD Covers anti-dust
- Touch screen
- High-Clearance on request
- Cooling fans on top/bottom for after-reflow
- Light system for better inspection
- Support for Monitor
- Shelf with ESD component boxes
- Motorized/Automatic width adjustment
- Choice of different belt width and chain transport system
- Mechanical stopper
- Foot pedal pass control
- Narrow footprint
- With bottom cabinet

Technical Parameters

Description	This unit is used as a visual inspection station for operators between SMT machines or board handling unit to link the machines. Dual rail version.
Belt Type	Antistatic Flat Belt of 3mm width
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100W Max.



Specification Machine Dimensions(LxWxH) in Length in m Model Effective PCB Size (LxW) in mm Weight (Kg) mm 0.5 WH-C050SD3BXL-Y 500x1005x980 60x60 - 445x330 97 1.0 WH-C100SD3BXL-Y 1000x1005x980 60x60 - 530x330 107



Reject Conveyor

Features

- Modular design, PLC controlled •
- Stability enhanced by heavy design .
- Beautiful design with aluminum finishings •
- Smooth and parallel width adjustment (stainless steel screws) Different lengths available upon request •
- •
- Touch screen control
- Stacks up to 2 NG boards •
- Multi-segment concept available upon request •
- Automatic/Manual modes •
- Reject, inspect and pass-through modes
- Variable speed control •
- SMEMA compatible
- Conveyor height 950 \pm 30mm •

Options

- High-clearance on request •
- Ergonomic design arm rest on the front
- Automatic width adjustment •
- Multiple belt width and chain transport system available .
- 5 NG boards capacity
- Signal tower for warning when the platform is full •



Sint Sint

Lifting Platform

Touch Screen Control

Technical Parameters		Sche	matic		
Description	production tion of PCB'	ows Good and NG board separation in a ine. It can be used when visual inspec- s is required. PCB's will continue to run, t interrupting the PCB flow	P		
Belt Type Antistatic Flat Belt of 3mm width					
Conveyor Speed 0.5-20m/min or specify		n or specify			
Power Source	AC 220V, 50	/60Hz, 1 phase			
Power Consumption	100 Max				
Air Pressure & Consume 4-6 bar, 10 l/min Max.			<u> </u>		
Specification					
Length in m	Model	Machine Dimensions(LxWxH) in	Effectiv	e PCB Size (LxW) in mm	Weight (Kg)

Length in m	Model	mm	Effective PCB Size (LxW) in mm	Weight (Kg)	
0.5	WH-C050ZD3TXL-R2	-R2 500x765x980 60x60 - 445x460		142	
1.0	WH-C100HD3TXL-R2	1000x890x980	60x60 - 530x460	200	

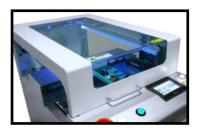
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Flash-Off Conveyor







UV Inspection



Features

- Modular design, PLC controlled •
- Smooth and parallel width adjustment (stainless steel screws) Covers which protect the boards against dust •
- •
- Segments with independent flash-off time (programmable)
- Automatic/Manual modes with inspection button •
- Independent variable speed controls for each rail •
- SMEMA compatible
- Conveyor height 950 \pm 30mm •
- Extractable tray for easy clean-up of coating droplets
- •
- Full control and settings by touch screen Exhaust sensor which forces to use air extraction .

Exhaust sensor

Options

- UV lights to analyze the coating result over the boards
- Automatic width adjustment •
- Safety interlocker for covers •
- 3 color signal tower
- Choice of different belt width and chain transport system •
- Foot pedal •
- Mechanical stopper

Technical Param	eters	Schem	natic	
Description	This unit is used as a visual inspection station for oper- ators controlling the boards right after a conformal coating line.	PCB		
Belt Type	Antistatic Flat Belt of 12mm width			
Conveyor Speed	0.5-20m/min or specify			
Power Source	AC 220V, 50/60Hz, 1 phase	losd short		
Power Consumption	100 W	eireuit switch	Pass button	Control Panel

Specific	cation Units	s in mm		
Length in m	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
0.5	WH-C50HD12TXL-CALOUVT	500X1013X980	60x60 - 445x460	110
1.0	WH-E100HD12TXL-CALOUVT	1000x990x980	60x60 - 530X460	150



Manual Lifting Gate Conveyor

Features

- Lowering & lifting of the gate conveyor is done manually
- Safety sensor installed to enhance safety
- 650mm passage way, or specify
- Variable speed control
- Conveyor height 950 \pm 30mm
- SMEMA compatible

Options

- High-end rail
- ESD Covers anti-dust
- Touch screen
- High-Clearance on request
- Motorized/Automatic width adjustment
- Choice of different belt width and chain transport system



Technic	al Parameters		Schematic	
Description	This unit is used to a required.	allow passage across the line when	PCB	
Belt Type Antistatic Flat Belt of 3mm width		of 3mm width	۲ <u>۲</u>	A
Conbveyor Spe	eed 0.5-20m/min or spe	cify	°	
Power Source AC 220V, 50/60Hz, 1 p		1 phase		
Power Consun	nption 100 Max			
Cycle time	Approx. 6 Seconds		X X	
Specific	cation			
		Machine Dimensions(LxWxH) in		
Size	Model	mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-021SD3BL	1060x830x1310	80x80- 445X330	160
XL	WHM-021SD3BXL	1060x950x1310	80x80 - 530x460	280



Lowering Gate Conveyor



Technical Parameters

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• •

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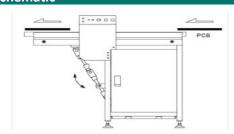
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Description	This unit is used to allow passage across the line when required.
Belt Type	Antistatic Flat Belt of 3mm width
Conbveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100 Max
Air Pressure & Consume	4-6 bar, 48 l/min Max.



Specific	ation Ur	iits in mm		
Size	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
XL	WHM-022SD3BXL	1350x800x1250	80x80 - 530x460	200





Features

- Simple touch screen control panel
- Enclosed design ensures high level of safety
- Swift, smooth and precise operation
- Auto-width adjustment
- Different lengths available upon request
- Different working ways upon request
- SMEMA compatible
- Conveyor height 950 \pm 30mm

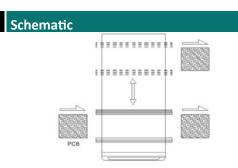


Options

- High-Clearance on request
- Choice of different belt width and chain transport system

Technical Parameters

Description	This unit is used to redirect the PCB's flow into different channels in a production line.
Belt Type	Antistatic Flat Belt of 3mm width
Cycle Time	Depending on traversing distance
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	250 Max



Speci	fication				
		Machine Dimensions (LxWxH) in	Effective PCB Size	Weight	
Size	Model	mm	(LxW) in mm	(Kg)	Traversing distance in mm
М	WHM-22010SD3TM	503x1050x950	80x80 - 330x280	140	500
L	WHM-22013SD3TL	503x1350x950	80x80 - 445X390	200	500
XL	WHM-22013SD3TXL	503x1550x950	80x80 - 530x460	260	500



Telescopic Gate Conveyor

Features

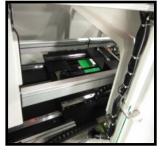
- User friendly soft touch LED membrane control panel .
- Swift and smooth retraction/extension of the conveyor
- This machine comes in two versions:
 - **Normally open**: The gate is always open, and when a PCB arrives the machine, the gate closes to deliver the PCB to the next machine. **Normally closed**: The gate is always closed, and when somebody wants to cross, he can open the gate by pressing a button.
- Safety sensor installed to enhance safety
- 850mm passage way, or specify •
- Conveyor height 950 \pm 30mm •
- SMEMA compatible •

Options

- High-end rail •
- High-Clearance on request •
- Motorized/Automatic width adjustment •
- Choice of different belt width and chain transport system



Sint

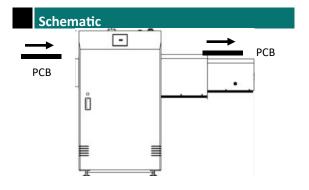


Internal lifter (NC)

Open Gate

Technical Parameters

Description	This unit is used to allow passage across the line when required.
Belt Type	Antistatic Flat Belt of 3mm width
Cycle Time	Approx. 12 seconds
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300 Max
Air Pressure & Consume	4-6 bar, 16 l/min Max.



Sp	ecification Ur	nits in mm		
		Machine Dimensions (LxWxH) in		
Size	Model	mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-023SD3BL (Normally Open)	1500x848x1300	80x80 - 445x330	250
XL	WHM-023SD3BXL (Normally Open)	1500x950x1300	80x80- 530x460	300
L	WHM-027SD3BL (Normally Closed)	1550x850x1300	80x80 - 445x330	250
XL	WHM-027SD3BXL (Normally Closed)	1550x950x1300	80x80- 530x460	300



Multi-Function Magazine Buffer

Features

- User friendly touch screen control •
- Top & bottom pneumatic clamps to secure magazine rack .
- Pressure regulated pusher to prevent board damage •
- Fast, smooth and precise indexing
- Available modes: Pass-through, Loader, Unloader, NG, LIFO. •
- Conveyor height 950 \pm 30mm ٠
- SMEMA compatible •

Option

- Additional magazines buffering capacity available upon request Servomotor for FIFO mode
- Automatic width adjustment •
- Cooling fans ٠
- Safety interlockers •



Double cylinder



Technical Para	meters	Schem
Description	This unit is actually used as a combination of loader/unloader/magazine rack buffer.	
Capacity	Up: 1 rack; Down: 2 racks	
Cycle Time	Approx. 20 seconds	<u> </u>
Indexing Pitch	10, 20, 30, 40mm or specify	PCB
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	300W Max.	
Air Pressure & Consum	e 4-6 bar, 15 l/min Max.	X

Specification

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH)	Weight (Kg)
М	WHM-101SD3TM-C	1043X1642X1205	80x80 - 330x250	355x320x563	180
L	WHM-101SD3TL-C	1123x1957x1205	80x80 - 445x330	460x400x563	200
LL	WHM-101SD3TLL-C	1435X2182X1205	80x80 - 530x390	535x460x570	220
XL	WHM-101SD3TXL-C	1505X2182X1205	80x80 - 530x460	535x530x570	240





Multi-Function Vertical Buffer

Features

- User friendly touch screen control panel
- FIFO, LIFO and pass-through operating modes selectable
- Fast, smooth and precise indexing (Freq. inverter controller)
- Selectable system threshold
- Smooth and parallel width adjustment (lead screw)
- Conveyor height 950 ± 30 mm
- SMEMA compatible
- Up to 25 slots for PCB storage
- Coating Lines model available, with 8 slot capacity and high
- clearance for storing heavy pallets

Options

- Side conveyor
- Automatic width adjustment
- Safety interlockers
- UV light
- Chain system instead of belt
- Flash-off timer and exhaust sensor



Internal belts

-	S10 TBS	TIME	-	STATUS	-		SILTUS	TIME		STATUS	1100	-	STATUS	IMI
5			10	-		15	NO		20	HO	0	25	HO	0
4	NO		9		•	14	NO	•	19	HO	0	24	NO	•
3	ND			-		13	NO	•	18	NO	0	23	HO	
2		I	1	80	•	12	HO	•	17	NO	0	22	NO	0
1	NO		6	NO		11	KO	•	16	NO	0	21	NO	•
	de buller);		FIFO			BUFFE	R S	TATUS			OP PCB Eding	
								TART	Ľ	STOP		SET		BACK

Schematic

Technical Parameters

Description	This unit is used as a buffer between SMT machines	ŧ
Cycle Time	Approx. 10 seconds	
Max. PCB Capacity	25 pcs maximum (20mm between slots)	
Internal belts Type	Antistatic Flat Belt of 3mm width	
Indexing Pitch	10, 20mm or specify	PCB
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	900W Max.	
Air Pressure & Consume	4-6 bar, 15 l/min Max.	<u> </u>
Specification		

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxWxH) in mm	Weight (Kg)
М	WHM-102SD3TM	505x876x1600	80x80- 330x250	380
L	WHM-102SD3TL	505x936x1600	80x80-440x350	400
XL	WHM-102SD3TXL	605x1070x1600	80x80-530x460	420



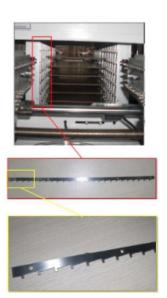
LIFO Vertical Buffer

Features

- User friendly soft touch LED membrane control panel •
- Last In First Out (LIFO) and pass-through modes selectable
- ٠
- Durable rollers as conveying transport (no belts) Smooth and parallel width adjustment (lead screw) ٠
- Conveyor height 950 \pm 30mm
- SMEMA compatible ٠

Options

- Side conveyor •
- Automatic width adjustment Safety interlockers •
- ٠
- UV light •
- Exhaust sensor



Roller and metal support



Technical Parameters		Schematic
Description	This unit is used as a buffer between SMT machines	
Cycle Time	Approx. 10 seconds	
Max. PCB Capacity	20 pcs maximum	
Max. PCB load	1.5Kg/PCB	
Indexing Pitch	10, 20mm or specify	PCB
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	900W Max.	
Air Pressure & Consume	4-6 bar, 15 l/min Max.	2 2
		han vitin vitin

Specification

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-103SD0BL-C	505x936x1600	80x80 - 445x330	220
XL	WHM-103SD0BXL-C	605x1070x1600	80x80 - 530x460	240



Hr



NG/OK Vertical Buff

Features

- User friendly touch screen control panel
- Accumulates NG boards while OK boards continue .
- NG boards can be taken out manually and reinserted after ٠
- Fast, smooth and precise indexing (servo motor driven) Smooth and parallel width adjustment (lead screw) •
- •
- Conveyor height 950 \pm 30mm ٠
- SMEMA compatible •

Options

- Automatic width adjustment
- Safety interlockers
- Chain system instead of belt

Technical Parameters		Schematic
Description	This unit is used as a buffer to store NG and OK boards after an inspection machine (AOI/SPI), and to pass the OK boards to the next process. The NG boards will go to the upper conveyor for visual inspection.	
Internal belts Type	Antistatic Flat Belt of 3mm width	NG PCB
Max. PCB Capacity	15 pcs maximum	
Max. PCB load	2Kg/PCB	PCB
Indexing Pitch	10, 20mm or specify	
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	900W Max.	
Air Pressure & Consume	4-6 bar, 15 l/min Max.	E E
Specification		

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
М	WHM-106SD3TM	1107x876x1600	80x80-330x250	380
L	WHM-106SD3TL	1107x936x1600	80x80-440x350	400
XL	WHM-106SD3TXL	1207x1070x1600	80x80-530x460	420





Features

- ٠
- ٠
- User friendly touch screen control panel FIFO, LIFO and pass-through operating modes selectable Fast, smooth and precise indexing (Freq. inverter controller) ٠
- Selectable system threshold
- Smooth and parallel width adjustment (lead screw) ٠
- Conveyor height 950 \pm 30mm •
- SMEMA compatible
- ٠ Support heavy pallets
- High-clearance for boards with tall components

Options

- Side conveyor •
- UV light .
- Automatic width adjustment •
- Safety interlockers •
- Chain system instead of belt •
- Flash-off timer and exhaust sensor •



8 slots for higher clearance



Technical Parameters		Schematic
Description	This unit is used as a buffer in between machines, usually for conformal coating lines	E
Cycle Time	Approx. 10 seconds	
Max. PCB Capacity	8 pcs maximum(60mm between slots)	
Internal belts Type	Antistatic Flat Belt of 8~12mm width	
Indexing Pitch	10, 20mm or specify	PCB
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	900W Max.	
Air Pressure & Consume	4-6 bar, 15 l/min Max.	
Specification		

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH)	Weight (Kg)
L	WHM-108SD3TL-C	1010x870x1205	80x80 - 445x330	460x400x563	200
XL	WHM-108SD3TXL-C	1110x930x1205	80x80 - 530x460	535x530x570	240





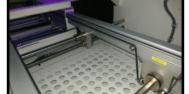
Curing Buffer

Features

- User friendly touch screen control panel
- •
- FIFO, LIFO and pass-through operating modes selectable Fast, smooth and precise indexing (Freq. inverter controller) •
- Selectable system threshold •
- Smooth and parallel width adjustment (lead screw) •
- Conveyor height 950 \pm 30mm
- SMEMA compatible •
- Industrial heater to generate a curing chamber inside of the • buffer main body
- Temperature control and monitor ٠ •
- Programmable curing time
- Exhaust sensor

Options

- UV light
- Automatic width adjustment
- Safety interlockers
- Wider belts or chain system .



Bottom holes to distribute the heat inside the conveyor



Industrial heater to generate a curing temperature inside of the machine

Technical Param	Schematic				
Description	This unit is used as a curing chamber in between ma- chines, and will keep the board at a curing tempera-			• •	
Cycle Time	Approx. 10 seconds				
Max. PCB Capacity	25 pcs maximum	\rightarrow			\rightarrow
Internal belts Type	Antistatic Flat Belt of 3 mm width	DCD			
Indexing Pitch	10, 20mm or specify	PCB			PCB
Power Source	AC 220V, 50/60Hz, 1 phase		° °		
Power Consumption	900W Max.		I I		
Air Pressure & Consume	4-6 bar, 15 l/min Max.				

Specification

Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-102SD3TL-JCOH	1256x887x1600	80x80-440X350	400
XL	WHM-102SD3TXL-JCOJH	1356x947x1600	80x80-530X460	420



Turn Conveyor

Features

- User friendly soft touch LED membrane control panel
- Enclosed design with built-in torque limiter to ensure a high level
- of safety
- Smooth and precise rotation Conveyor height 950 ± 30 mm •
- SMEMA compatible

Options

- Motorized width adjustment •
- Automatic width adjustment
- Different belt width or chain system
- Safety interlockers •
- Touch screen



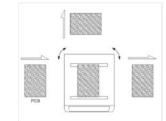


Technical Parameters

Specification

Description	This unit is used to redirect the PCB flow in a production line (90°, 180°, 270°).
Belt Type	Antistatic Flat Belt of 3mm width
Cycle Time	Approx. 12 seconds
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300 Max

Units in mm



Size	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxH) in mm	Weight (Kg)
М	WHM-210SD3BM	500x500x1200	80x80 - 330x250	350
L	WHM-210SD3BL	653x718x1200	80x80 - 445x330	380
LL	WHM-210SD3BL	756x756x1200	80x80 -530x390	395
XL	WHM-210SD3BXL	856x920x1205	80x80 - 530x460	410





Features

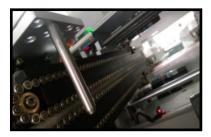
- User friendly soft touch screen
- Automatic width adjustment .
- Enclosed design with built-in torque limiter to ensure a high level • of safety
- Smooth and precise inverting motion
- Conveyor height 950 \pm 30mm
- SMEMA compatible. . .
 - Four different inversion modes available on demand: pass-through, normal inversion, double downstream inversion(2 types).

Options

- Safety interlockers Different belt width or chain system
- Coating lines model available, with stronger modular piston and rails.



Internal belts



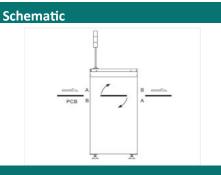
Heavy Duty Inverter Available on Demand

Technical Parameters

SM

O

Description	This unit is used to invert PCB's (180 °) for double side processes.
Belt Type	Antistatic Flat Belt of 3mm width
Cycle Time	Approx. 12 seconds
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300 Max
Air Pressure & Consume	4-6 bar, 1.1 l/min Max.
Specification	Units in mm



Size	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxH) in mm	Weight (Kg)
М	WHM-200SD3TM-A	504x869x1250	80x80 - 330x250	155
L	WHM-200SD3TL-A	554x929x1250	80x80 - 480X390	165
XL	WHM-200SD3TXL-A	655x1050x1250	80x80 - 530x460	175



Vacuum Bare Board Loader

Features

- User friendly touch screen control
- Enclosed design to ensure a high level of safety
- Adjustable vacuum stubs positions with magnets to provide a better way to hold the PCB's
- Conveyor height 950 ± 30 mm
- SMEMA compatible
- Pass-through function

Options

- Automatic width adjustment
- Mechanical Stopper
- Different belt width and chain system
- Safety interlocker
- Speed control



Vacuum stubs

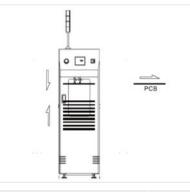
Technical Parameters



Magnetically placed stubs

Description	Used for loading bare board PCB's into the line when it's not possible to use a destacker
Max. PCB Capacity	150 mm space for boards
PCB Time Feed	Approx. 10 seconds
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300 Max
Air Pressure & Consume	4-6 bar, 30 l/min Max.





		Machine Dimension (LxWxH) in		
Size	Model	mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-310SD3TL	505x940x1170	80x80 –445x330	180
XL	WHM-310SD3TXL	605x1000x1170	80x80 - 530x460	200





Destacker/Push-up Stacker

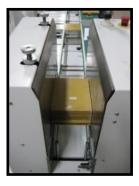
Features

- User friendly soft touch LED membrane control panel
- Smooth and parallel width adjustment by leadscrew
- Small machine footprint
- Conveyor height 950 \pm 30mm
- SMEMA compatible
- Pass-through function

Options

- Automatic width adjustment
- Motorized width adjustment
- Touch screen
- Speed control
- Different belt width and chain system
- Safety interlocker





Close-up views

Destacker

Technical ParametersSchematicDescriptionThese units are for loading or restacking bare board
PCB's in/off the lineChematicBelt TypeAntistatic Flat Belt of 3mm widthChematicMax. PCB CapacityUp to 7 Kg at mostChematicPower SourceAC 220V, 50/60Hz, 1 phaseChematicPower Consumption300 MaxChematicAir Pressure & Consume4-6 bar, 30 l/min Max.Chematic

Specificatio	on	Units in mm			
Machine Type	Size	Model	Machine Dimensions(LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
Destacker	L	WHM-283SD3BL	503x889x1200	80x80 - 400x460	180
Destacker	XL	WHM-283SD3BXL	600x1040x1200	80x80 - 530x460	249
Duch up Stacker	L	WHM-281SD3BL	503x889x1200	80x80 - 400x460	180
Push-up Stacker	XL	WHM-281SD3BXL	600x1040x1200	80x80 - 530x460	249

Push-up Stacker



Vacuum Loader for LED Lights

Features

- User friendly touch screen control
- Enclosed design to ensure a high level of safety
- Adjustable vacuum stubs positions with magnets
 3 or 8 nozzles type available to select
- depending on the PCB surface
- Conveyor height 950±30mm
- SMEMA compatible

Options

• Automatic width adjustment

Technical Parameters

line

300 Max

- Mechanical Stopper
- Different belt width and chain system
- Safety interlocker
- Speed control

Description

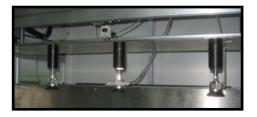
Max. PCB Capacity

Power Consumption

Air Pressure & Consume

PCB Time Feed

Power Source



3 big nozzle version

250 mm space for boards

AC 220V, 50/60Hz, 1 phase

Approx. 10 seconds

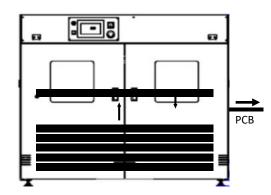
4-6 bar, 30 l/min Max.

Used for loading long LED bare board PCB's into the





8 small nozzle version



Specifi	cation ા	Units in mm			
Size	Model	Machine Dimensions (LxWxH)	Effective PCB Size (LxW) in mm	Weight (Kg)	
L	WHM-311SD3TL	1500X1028X1519	80x80 - 1200X300	420	
XL	WHM-315SD3TXL	1700x1364x1519	80x80 - 1500x300	500	



Unloader for LED Lights



Features

- User friendly soft touch LED membrane control panel
- Self diagnostic Error code display
- Especial extra length to accommodate long PCBs
- Single inlet/outlet for Triple magazines
- Pressure regulated pusher to prevent board damage
- Conveyor height 950±30mm
- SMEMA compatible

Options

- Automatic width adjustment
- Mechanical Stopper
- Touch Screen
- Different belt width and chain system
- Safety interlocker
- Speed control



Long entrance conveyor

These units are used for unloading LED bear board off

the line when it's not possible to use a normal unload-

Technical Parameters

er

300 Max

250 mm space for boards

Approx. 10 seconds AC 220V, 50/60Hz, 1 phase

4-6 bar, 30 l/min Max.

Description

Max. PCB Capacity

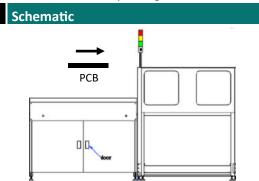
Air Pressure & Consume

PCB Time Feed

Power Source Power Consumption



Makes Use of Triple magazines



Spec	ification	Units in mm			
Size	Model	Machine Dimensions (LxWxH) in mm	Rack size (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
М	WHM-304SD3BM	2810x1424x1716	800x320x563	80x80 - 800x250	450
L	WHM-304SD3BL	3450X1600X1716	1200x380x563	80x80 - 1200x300	500



Multi Magazine Loader/Unloader





LOADER

Features

- User friendly soft touch LED membrane control panel
- Top & bottom pneumatic clamps to secure magazine rack
- Self diagnostic Error code display
- Pressure regulated pusher to prevent board damage .
- Conveyor height 950 ± 30 mm
- SMEMA compatible

Options

- Touch screen control
- Motorized/Automatic width adjustment
- Safety interlockers
- Different belt width and chain system

2632x973x1795

3032x975x1795

80x80 - 530x460

80x80 - 600x430

470

520

Universal type (Multiple magazine sizes)

Technical Parameters					Schematic		
Description These units are used for loading and unloading PCBs on/off the line		MAGAZINE		MAGAZINE			
Capacity		Up: 1 rack; Down: 2 ra	acks			PCB	19
Manazine Change	Time	Approx. 30 seconds			РСВ		
Power Source		AC 220V, 50/60Hz, 1	phase		1	- 1	
Power Consumptio	n	300 Max				2 2	X.
Air Pressure & Consume 4-6 bar, 10		4-6 bar, 10 l/min Max	l-6 bar, 10 l/min Max.		Loader	Unloader	
Specificati	on						
Machine Type	Size	Model	Rack Size(LxWxH)	Machir	ne Dimensions (LxWxH)	Effective PCB Size	Weight (Kg)
	М	WHM-300SD0BM-C	355x320x563		1365x769x1795	80x80 - 330x250	270
	L	WHM-300SD0BL-C	460x400x563		1829x848x1795	80x80 - 445x330	300
LOADER	LL	WHM-300SD0BLL-C	535x460x570		1904x905x1795	80x80 - 530x390	400
	XL	WHM-300SD0BXL-C	535x530x570		1904x975x1795	80x80 - 530x460	410
	XXL	WHM-300SD0BXXL-C	630x530x570		2200X975X1795	80x80 - 600X460	450
	М	WHM-301SD3BM-C	355x320x563		1898x769x1795	80x80 - 330x250	325
	L	WHM-301SD3BL-C	460x400x563		2454x846x1795	80x80 - 445x330	355
UNLOADER	LL	WHM-301SD3BLL-C	535x460x570		2604x898x1795	80x80 - 530x390	460

535x530x570

630X530X570

XL

XXL

WHM-301SD3BXL-C

WHM-301SD3BXXL-C



Mini Magazine Loader/Unloader



Features

- Especially for factories with limitations of space
- User friendly soft touch LED membrane control panel
- Top & bottom pneumatic clamps to secure magazine rack

XL

XXL

Μ

Т

LL

XL

XXL

UNLOADER

WHM-320SD0BXL-C

WHM-320SD0BXXL-C

WHM-321SD3BM-C

WHM-321SD3BL-C

WHM-321SD3BLL-C

WHM-321SD3BXL-C

WHM-321SD3BXXL-C

- Self diagnostic Error code display
- Pressure regulated pusher to prevent board damage
- Conveyor height 950±30mm
- SMEMA compatible

Technical Parameters



MINI UNLOADER

- Options
- Touch screen control
 Motorized/Automatic width adjustment
- Safety interlockers
- Different belt width and chain system
- Universal type (Multiple magazine sizes)
- Oniversal type (infuttiple magazine sizes)

Schematic

1654x973x1670

1754X973X1670

1618x765x1670

1760x850x1670

1834x1033x1670

2009x1103x1670

2209X 1103X1670

				Schematic			
Description		These units are used for loading and unloading PCBs on/off the line			MAGAZINE		MAGAZINE
Capacity		Up: 1 rack; Down: 1 rack		РСВ	PCB	R	
Manazine Change T	ïme	Approx. 30 seconds	Approx. 30 seconds				
Power Source		AC 220V, 50/60Hz, 1 phase				_ ,	
Power Consumptio	wer Consumption 300 Max		ž <u>i</u>	2 2	X		
Air Pressure & Cons	sume	4-6 bar, 10 l/min Max.		Loader	Unloader		
Specificatio	on						
Machine Type	Size	Model	Rack Size(LxWxH)	Machi	ne Dimensions (LxWxH)	Effective PCB Size	Weight (Kg)
	М	WHM-320SD0BM-C	355x320x563		1100x766x1670	80x80 - 330x250	150
	L	WHM-320SD0BL-C	460x400x563		1480x850x1670	80x80 - 445x330	190
LOADER	LL	WHM-320SD0BLL-C	535x460x570		1646x905x1670	80x80 - 530x390	230

535x530x570

630x530x570

355x320x563

460x400x563

535x460x570

535x530x570

630x530x570

80x80 - 530x460

80x80 - 600x460

80x80 - 330x250

80x80 - 445x330

80x80 - 530x390

80x80 - 530x460

80x80 - 600x460

270

320

185

230

275

320

350



Single Magazine Loader

Features

- User friendly control panel •
- Top & bottom pneumatic clamps to secure magazine rack •
- Pressure regulated pusher to prevent board damage
- Foldable pusher box to let operator pass through the line •
- Conveyor height 950 \pm 30mm •
- SMEMA compatible •

Options

- Touch screen control •
- Motorized/Automatic width adjustment •
- ٠ Safety interlockers
- Different belt width and chain system •
- Universal type (Multiple magazine sizes) •

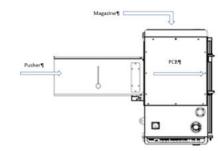


Status when the pusher box is folded

Technical Parameters

Description	These units are used for loading PCBs in to the line and provide a path in beginning of the production line
Capacity	1 Single Magazine
Magazine Change Time	Approx. 30 seconds
Indexing Pitch	10, 20, 30, 40mm or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300W Max.
Air Pressure & Consume	4-6 bar, 10 l/min Max.





Specification		Units in mm			
Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH) in mm	Weight (Kg)
М	WHM-314SD0BM-C	794*816*1688(OPEN) 1140*816*1688(CLOSED)	80x80 - 330x250	355x320x563	320
L	WHM-314SD0BLC	900*896*1688(OPEN) 1245*896*1688(CLOSED)	80x80 - 445X330	460X400X563	340
LL	WHM-314SD0BLLC	975*956*1688(OPEN) 1315*956*1688(CLOSED)	80x80 - 530X390	535X460X570	360
XL	WHM-314SD0XL-C	975*1026*1688(OPEN) 1530*1120*1688(CLOSED)	80x80 - 530x460	535x530x570	380



Single Magazine Unloader



- User friendly soft touch LED membrane control panel
- Especially for factories with limitations of space
- Top & bottom pneumatic clamps to secure magazine rack
- Self diagnostic Error code display
- Pressure regulated pusher to prevent board damage
- Rear door to load/unload a magazine inside the machine
- Conveyor height 950±30mm
- SMEMA compatible

Options

- Touch screen control
- Motorized/Automatic width adjustment
- Safety interlockers
- Different belt width and chain system
- Universal type (Multiple magazine sizes)



Rear Door

Technical Param	eters	Schematic
Description	These units are used for unloading PCBs out of the line when there is space limitation	Back Door
Capacity	1 single manazine	MAGAZINE
Magazine Change Time	Approx. 30 seconds	
Indexing Pitch	10, 20, 30, 40mm or specify	
Power Source	AC 220V, 50/60Hz, 1 phase	
Power Consumption	300W Max.	0
Air Pressure & Consume	4-6 bar, 10 l/min Max.	Operation Panel
Specification	Units in mm	

Specification		Units in mm			
Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH) in mm	Weight (Kg)
М	WHM-302SD3BM-C	1032x819x1682	80x80 - 330x250	355x320x563	400
L	WHM-302SD3BL-C	1186x900x1682	80x80 - 445X330	460X400X563	420
LL	WHM-302D3BLL-C	1413x951x1682	80x80 - 530X390	535X460X570	440
XL	WHM-302SD3BXL-C	1434x1028x1682	80x80 - 530x460	535x530x570	460



1 90 Degrees Unioader

Features

- User friendly control panel
- Top & bottom pneumatic clamps to secure magazine rack
- Self diagnostic Error code display
- Pressure regulated pusher to prevent board damage
- Front or Rear unloading to reduce machine length
- Conveyor height 950±30mm
- SMEMA compatible

Options

- Touch screen control
- Motorized/Automatic width adjustment
- Safety interlockers
- Different belt width and chain system
- Universal type (Multiple magazine sizes)



Rear magazine ramps

Technical Parameters

Description	These units are used for unloading PCBs out of the line through the front or rear side
Capacity	Up: 1 rack; Down: 1 rack
Magazine Change Time	Approx. 30 seconds
Indexing Pitch	10, 20, 30, 40mm or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300W Max.
Air Pressure & Consume	4-6 bar, 10 l/min Max.



Schematic		
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Spec	ification	Units in mm			
Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH) in mm	Weight (Kg)
Μ	WHM-303SD3BM-C	1036x1621x1682	80x80 - 330x250	355x320x563	400
L	WHM-303SD3BL-C	1240X1896X1682	80x80 - 445x330	460x400x563	420
LL	WHM-303SD3BLL-C	1300X1969X1682	80x80 - 530x390	535x460x570	440
XL	WHM-303SD3BXL-C	1410x2069x1682	80x80 - 530x460	535x530x570	460



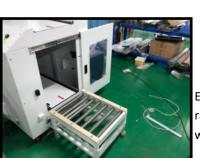
Curing Unloader

Features

- User friendly soft touch LED membrane control panel
- Especially for factories with limitations of space
- Entrance conveyor with chain system for transport Fully covered configuration to keep heating temperatures
- Top & bottom pneumatic clamps to secure magazine rack
- Pressure regulated pusher to prevent board damage
- Heaters for curing the PCBs
- Thermocouples and timers to ensure the PCBs stay in the curing buffer long enough with the right temperature
- Door with locker on the exit to keep the temperature
- Extra exit magazine ramp to cool the magazine down after curing
- Conveyor height 950 \pm 30mm
- SMEMA compatible

Options

- Motorized/Automatic width adjustment
- Safety interlockers

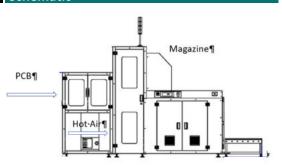


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Exit magazine ramp and door with locker.

Technical Parameters

Description	These units are used for unloading PCBs out of the line . It can also heat the PCBs inside to cure them.
Capacity	Up: 2 rack; Down: 2 rack
Magazine Change Time	Approx. 30 seconds
Indexing Pitch	10, 20, 30, 40mm or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300W Max.
Air Pressure & Consume	4-6 bar, 10 l/min Max.



Specification		Units in mm			
Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH) in mm	Weight (Kg)
L	WHM-511SDNTL-CH	3200x1118x1790	80x80 - 445X330	460X400X563	600



NG/OK UNLOADER Dual Magazine Unloader



Features

- User friendly soft touch screen control
- Top & bottom pneumatic clamps to secure magazine rack
- Automatic shuttle moves the board to the desired rack exit for NG function, or dual magazine configuration.
- Pressure regulated pusher to prevent board damage
- Conveyor height 950±30mm
- SMEMA compatible

Options

- Motorized/Automatic width adjustment
- Safety interlockers
- Different belt width and chain system
- Universal type (Multiple magazine sizes)

Technical Parameters

Description	These units are used for unloading PCBs off the line, in a dual magazine, or in an NG/OK selection mode.
Capacity	Up: 2 racks; Down: 4 racks
Magazine Change Time	Approx. 30 seconds
Indexing Pitch	10, 20, 30, 40mm or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	300W Max.
Air Pressure & Consume	4-6 bar, 10 l/min Max.

	Schema	tic	-
Ρ	св		

Specification		Units in mm				
Machine Type	Size	Model	Machine Dimensions) (LxWxH) in mm	Effective PCB Size (LxW) in mm	Rack Size (LxWxH)	Weight (Kg)
	Μ	WHM-305SD3TM-CI	1902x1527x1683	80x80 - 330x250	355x320x563	760
NG/OK UNLOADER	L	WHM-305SD3TL-CI	2298X1688X1683	80x80 - 445x330	460x400x563	820
NG/OK UNLOADER	LL	WHM-305SD3TLL-CI	2683x1940x1683	80x80 - 530x390	535x460x570	870
	XL	WHM-305SD3TXL-CI	3083x2216x1683	80x80 - 530x460	535x530x570	980
DUAL MAG UN-	М	WHM-306SD3TM-CI	1902x1527x1683	80x80 - 330x250	355x320x563	760





Features

- User friendly touch screen control panel
- Fast, smooth and precise positioning (Servomotor) •
- Selectable system thresholds •
- Smooth and parallel conveyor adjustment (lead screw) •
- Automatic width adjustment
- SMEMA compatible •
- Two types: high elevator (for top return lines) and low ele-• vator (for bottom return lines)

Options

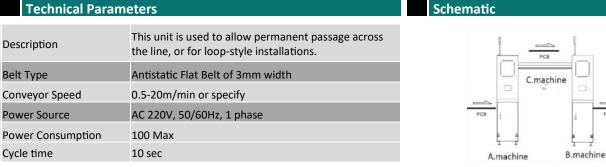
- Safety interlockers
- Different belt width and chain system
- Wheels to move the machine easily around





Lower return line

Schematic



Specification		Units in mm		
Size	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
L	WHM-02624SD3T L	550x975x2608	80x80 - 445x330	350
XL	WHM-02624SD3TXL	640x1035x2608	80x80 - 530x460	450
L	WHM-02601SD3TL	550x1012x1982	80x80 - 445x330	350
XL	WHM-02601SD3TXL	635x1142x1982	80x80 - 530x460	400



Insertion Conveyor



Features

- Modular design, PLC controlled •
- Stability enhanced by heavy design ٠
- ٠ Smooth and parallel width adjustment (stainless steel screws)
- Automatic/Manual modes
- Shelf for ESD component boxes ٠
- Light system for better inspection
- Variable speed control
- SMEMA compatible ٠
- Conveyor height 950 \pm 30mm

Options

- Support for Monitor .
- Motorized width adjustment •
- Choice of different chain transport system Mechanical stopper •
- •
- Foot pedal pass control

Technical Parameters		Schematic			
Description			nanual line before soldering sec- to insert components manually.		
Belt Type		Pin chain		PCB	
Conveyor Speed		0.5-20m/min or specify			
Power Source		AC 220V, 50/60Hz, 1 phase		•• ••	••
Power Consumption		100W Max.		~	*1
Specification Units in mm					
			Machine Dimensions(LxWxH) in		
Size Model		Model	mm	Effective PCB Size (LxW) in mm	Weight (Kg)
XL	WH-	S270SDNBXL-DW	2700x1019x1786	60x60 - 445X460	400





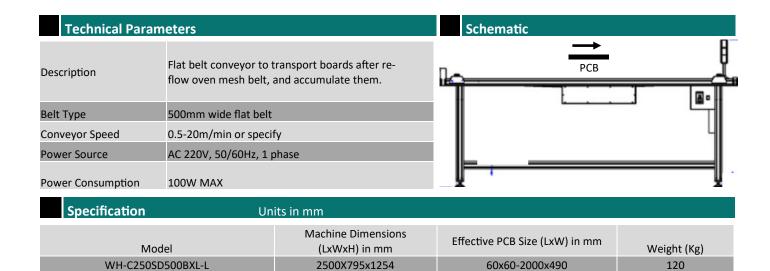


Features

- Modular design, PLC controlled
- Buzzer
- Variable speed control
- Flat belt of 500mm width
- Signal Tower

Options

• Different lengths available on demand





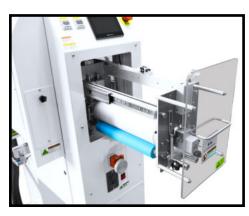
PCB Cleaning Machine

Features

- Real-Time Electrostatic Monitoring System
- The system could save 30 days' monitoring data.
- User friendly touch screen control panel
- Keyence Ionizer to remove static electricity
- Pull-out design for cleaning machine
- Conveyor height 950±30mm
- SMEMA compatible
- Two types on request: single side or double side

Options

- External brush with vacuum to absorb out dust
- Additional ionizers for better static elimination
- Automatic width adjustment
- Safety interlocker



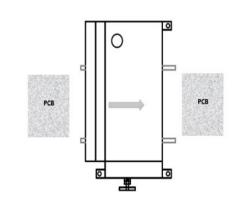
The cleaning roller



Technical Parameters

Description	This unit is used to remove the foreign objects from the PCB surface. It can also eliminate the static elec- tricity on of PCB
Belt Type	Antistatic Flat Belt of 8mm width
Cycle Time	Approx. 8 seconds
PCB Thickness	0.6-4mm
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	150W Max
Air Pressure & Consume	4-6 bar. 10 l/min Max.

Schematic



Specification		Units in mm			
Туре	Model	Machine Dimensions (LxWxH)	Effective PCB Size (LxW)	Weight (Kg)	
Single Side	WHM-055HD3TL	650x825x1380	80x80 - 445x330	160	
Single Side	WHM-055HD3TXL	650x976x1380	80x80 - 530x460	180	
Double Side	WHM-056HD3TL	650x825x1380	150x80 - 445x330	180	
Double Side	WHM-056HD3TXL	650x976x1380	150x80 - 530x460	200	



Belt wave outfeed conveyor



Chain wave outfeed conveyor



Wave Outfeed Conveyor

Features

- Variable speed control
- Flat belt of 500mm width

Options

- Cooling fans on top
- Extension conveyor available on demand

Features

- Modular design, PLC controlled
- Variable speed control
- 3mm pin chain conveyor
- Sliding resistors on inclined section

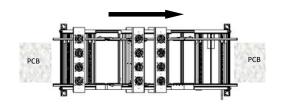
Options

- Cooling fans on top
- Motorized width adjustment

Technical Parameters

Description	This unit is used to unload PCBs or pallets from a wave soldering machine.
Belt Type	Flat belt or chain
Conveyor Speed	0.5-20m/min or specify
Power Source	AC 220V, 50/60Hz, 1 phase
Power Consumption	100W MAX

Schematic



Specification		Units in mm		
Туре	Model	Machine Dimensions (LxWxH) in mm	Effective PCB Size (LxW) in mm	Weight (Kg)
Flat Belt	WH-C130SD500BXL	1350x685x1335	60x60-550x490	120
Chain	WH-C250SDNBXL	2500x976x1446	200x200-550x610	400



LASER MAKER RTM-450

Features

- Auto control, English Interface, Windows 10 Operation System Double Camera System, for fiducials and pattern verification after laser marking. 0.02mm print accuracy •
- •
- Could print chars, number, Logo, Barcode, QR code, etc. •
- Could connect with Shopfloor/MES System Support PCB, FPC, Metal and other materials. •
- ٠
- Visual interface.
- Optional inverter function. •

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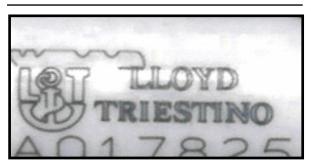
Operation Interface



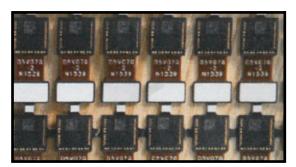
Applications







Ceramics



Components



Plastic



Technical Parameters

Main Body				
Dimensions in mm	L*W*H 900*1620*1650			
Weight in Kg	650			
Dowor Supply	Power:1500W			
Power Supply	Power Supply: 220VAC 50Hz			
Air Supply	5-7Kgf/cm ² or 0.5-0.7 Mpa			
Control System	PC+ Motion control+ Servo Motor			
Direction	Left to Right or Right to Left			
Width Adjustment	CNC Automatic width adjustment			
Transfer Speed	Max 1000mm/S			
X-Y Transfer Speed	1000m/s (1500mm/S Optional)			
Conveyor Speed	0-3000mm/min			
Accuracy	\pm 0.02mm			
Exhaust Pipe Diameter	50mm			
Dust Collector	Supplied with machine			

Software & Network

Operation System	Windows 10
Connections	MES, IMS, ShopFloor
Software	EzCad2
Control OS	Self-Developed Software
Network Support	EtherNet

Environment Requirement

Temperature	0-40°C Without dew and ice
Humidity	35-85%RH Without dew and ice
Transportation and	It can be stored in a 22-55 degree environment and can withstand no
Storage	more than 65 degrees within 24 h.

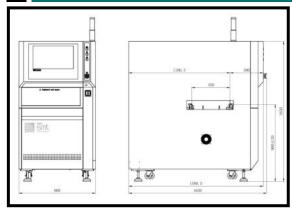
Print Requirements

Marking Size	Single Lane Dual Lane	50x50~530x460mm 50x50~200x200mm
Marking Method	By moving	the laser head

Dust collector



Schematic



Laser Specification

	CO2 Laser: Wave length 10640nm
Type of Laser	UV Laser: Wave length 355nm
	Fiber Laser: Wave length 1064nm
CO2 Laser Power	10W/20W
Ultraviolet Laser Power	3W/5W
Fiber Laser Power	10W/20W
	CO2 Laser: 0.08mm
Min. Printing Width	Ultraviolet Laser: 0.03mm
	Fiber Laser: 0.05mm
Cooling Method	Air and Liquid Cooling
Laser Head Scanning Range	70x70mm
Laser Head Focal Length	f=100mm
Laser Head Hight Adjustment	Manually ± 10mm
Printing Angle	360 degree
Location System	CCD Location
Online Barcode Reading	Yes

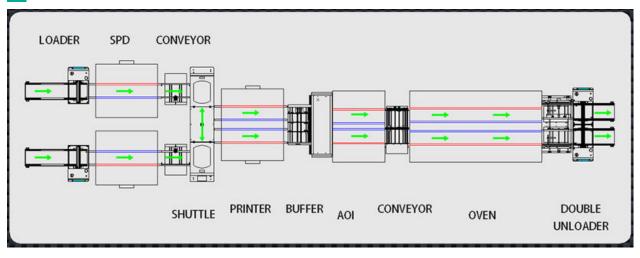
This device is designed for our laser maker, to remove the dust produced with the laser working. It has features and advantages as follows:

- •
- •
- Multiple filtering Metal frame makes it durable CNC controlled and digital display •
- Filter failure alarm
- •
- Noise reduction design Observation window to check the condition of filter •
- Alloy impeller providing stability and large air volume •

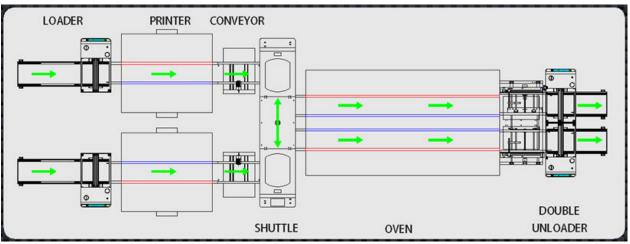


Automation Lines Examples

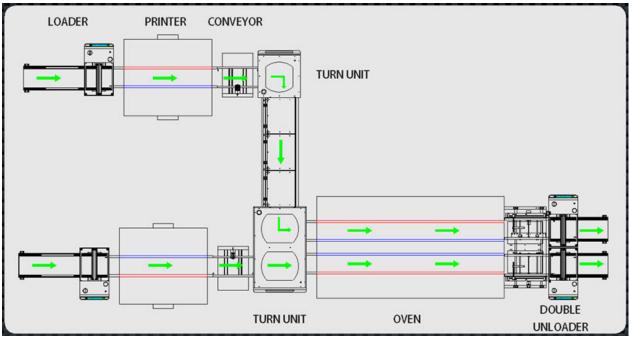
CASE 1



CASE 2



CASE 3





Customers World Wide





Quality Assurance

Product reliability is our constant goal

Research & Development

Our R&D department is committed to the integration of customer needs and the requirements of the SMT process. Our design concept is to reduce product maintenance rate, accelerate the speed of the maintenance, and improve the PCB automation process between equipment.

Quality Control

We ensure that our products are of high reliability. The implementation of the ISO9001 quality control system in our manufacturing plant is just one of the taken measures.

We perform inspections, production process controls and functional tests by qualified engineers for all our orders, plus a final quality control by a European engineer previous to any shipment world wide.

CE

Agent Network





After-sale Service

We believe that support is important, and that's why we select the best companies to be our agents world wide, highly specialized enterprises which have a team of well-trained engineers that will offer maintenance and support for all the lines that we have supplied.

Very important is also the after-sales support that we supply to each of our agents, with direct communication when required, fast delivery of spare parts in case of need, and technical assistance by phone or other electronic means. We believe that a fast support at the customer's side is the answer to a successful business.



Automation installation in a PVA coating line



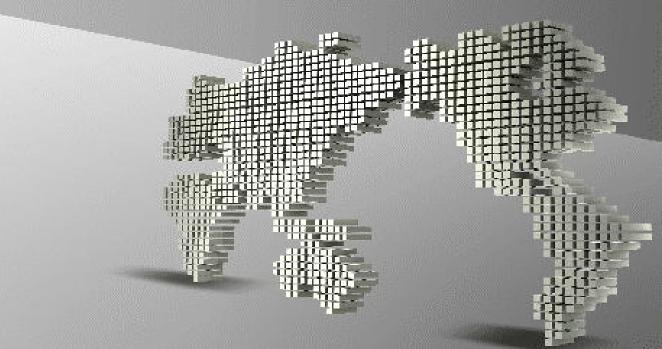
Our own booth at SMT Hybrid Packaging in Germany



Our conveyors at Productronica Show in Germany



Return line for selective soldering project

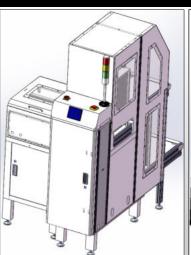




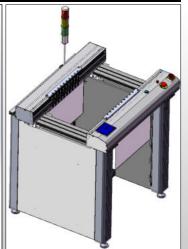
CE

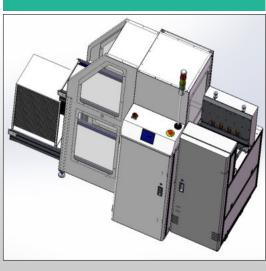
e-Flex SMT Microsystems, Co., Ltd.

Head Office: Rm 114, 9/F, YF Life Tower 33 Lockhart Road, Wan Chai Hong Kong SAR, China Tel.: +852 3529 1071 Fax: +852 3529 1070 Email: info@eflexsmt.com www.eflexsmt.com Financial Dept. Branch: 8/F, Golden Star Building, 20-24 Lockhart Road, Wan Chai









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Loader/Destacker Combo

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