

# BOARD HANDLING EQUIPMENTS

# INTEON



# INTRODUCTION



INTEON conveyors are build for the middle and high volume productions which allows attractive price and high quality performance. INTEON conveyor systems assure an optimum of process stability by innovative technology. All the electrical system totally match the European quality standard and other international safety standard.

## WARRANTY

**Best in the industry warranty - 2 years full warranty**

## SUPPORT

For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories.

## ON-SITE VISIT

In case if any of our products aroused your interest INTEON would be glad to visit your company and hold a presentation of the product of your interest. Major machines also could be observed at our partners' site.

## OFFERS

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.inte-on.com](http://www.inte-on.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

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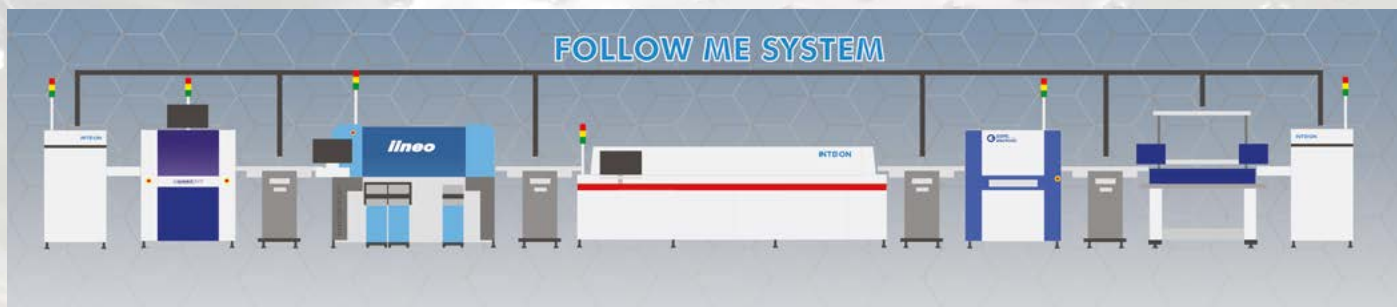
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**INTEON**

**2  
YEAR  
WARRANTY**





Automatic width adjustment by **FOLLOW ME system**:

The width is adjusted via step motor, the follow me system is Omron PLC with Ethernet interface + touch screen + step motor.

When you set the width value in the touch screen in any of our machine in the line, the width of other machines in the same line will follow the set width value adjusted automatically.





## Application

The Single Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 1 magazine loading capability, discharge magazine from the rear of machine SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-ST-250A-ML	IE-ST-330A-ML	IE-ST-390A-ML	IE-ST-460A-ML
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
PCB Direction	left to right or right to left			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1145x1030x1200mm	1355x1120x1200mm	1505x1310x1200mm	1505x1450x1200mm
Control Panel	Touch Screen (T)			

# SINGLE MAGAZINE UNLOADER

## Application

The Single Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 1 magazine loading capability, discharge magazine from the rear of machine
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-ST-250A-MU	IE-ST-330A-MU	IE-ST-390A-MU	IE-ST-460A-MU
Size	M	L	LL	XL
Power	AC 110/220V $\pm$ 10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 $\pm$ 20mm or Specify			
PCB Direction	left to right or right to left			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1120x1030x1200mm	1305x1120x1200mm	1480x1310x1200mm	1480x1450x1200mm
Control Panel	Touch Screen (T)			

## Application

The Multi Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 3 magazines loading capability
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-250A-ML	IE-CT-330A-ML	IE-CT-390A-ML	IE-CT-460A-ML
<b>Size</b>	M	L	LL	XL
<b>Power</b>	AC 110/220V ±10V, 50/60HZ			
<b>Air Pressure</b>	5kgf/cm <sup>2</sup>			
<b>PCB Size</b>	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
<b>Transfer Height</b>	900 ±20mm or Specify			
<b>PCB Direction</b>	left to right or right to left			
<b>Magazine Rack Size</b>	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
<b>Pitches</b>	10, 20, 30, 40mm or Specify			
<b>Machine Dimension</b>	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
<b>Control Panel</b>	Touch Screen (T)			



# MULTI MAGAZINE UNLOADER

## Application

The Multi Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 3 magazines loading capability
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-250A-MU	IE-CT-330A-MU	IE-CT-390A-MU	IE-CT-460A-MU
Size	M	L	LL	XL
Power	AC 110/220V $\pm$ 10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 $\pm$ 20mm or Specify			
PCB Direction	left to right or right to left			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
Control Panel	Touch Screen (T)			

## Application



The PCB Conveyor is used in the PCB assembly line when frequent visual inspection of PCB's is required, can be used as an Inspection conveyor or a Linking conveyor.

## Features

- **FOLLOW ME System** compatible
- PLC Control system
- Metal fabricated frame
- Width adjusting system by hand crank. Electrical width adjustment by switch available on request
- Automatic width adjustment
- Variable speed control  
Inspection and by pass mode selectable
- Multi-zone concept available on request
- SMEMA compliant
- CE certified

## Specifications

Model	IE-M-50LD-C	IE-L-50LD-C	IE-M-100LD-C	IE-L-100LD-C	IE-L-100LJ-C
<b>Conveyor Length</b>	500mm		1000mm		1000mm
<b>Power</b>	AC 110/220V ±10V, 50/60HZ				
<b>PCB Width</b>	50 - 350mm (-M), 50 - 460mm (-L)				
<b>Transfer Speed</b>	1 - 12m/min adjustable				
<b>Transfer Height</b>	900 ±20mm				
<b>PCB Direction</b>	left to right or right to left				
<b>Working Light</b>	N		N		Y
<b>Machine Dimension</b>	500 x 650 x 900mm		1000 x 650 x 900mm		1000 x 650 x 900mm

# AOI REWORK CONVEYOR

## Application

The AOI Rework Conveyor is used for good/bad PCB Separation. The center segment pneumatically move up/down allowing separation without interrupting the flow of good PCB's.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Width adjustment by hand crank. Electrical width adjustment by switch available on request
- Rework and by pass mode selectable
- 3 belt segments, providing possibility to buffer one failed PCB
- SMEMA compliant
- CE certified
- Automatic width adjustment

## Specifications

Model	IE-M-3/150LR-C	IE-L-3/150LR-C
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Width	50 - 350mm	50 - 460mm
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left	
Machine Size	1500x760x1100mm	1500x860x1100mm

## Application

The PCB NG/OK Unloader is used for good/bad PCB separation. The OK and NG PCB after being tested by test machine can be separated and sent to magazines.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch screen easily operation
- Good and bad PCB's can be separated automatically with magazine rack
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 3 magazines for good PCB's, 3 magazines for bad PCB's loading capability
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-250A-UNG	IE-CT-330A-UNG	IE-CT-390A-UNG	IE-CT-460A-UNG
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	5kgf/cm <sup>2</sup>			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
PCB Direction	left to right or right to left			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	multiple			
Machine Dimension	1510x1460x1200mm	1910x1630x1200mm	2160x1760x1200mm	2160x1900x1200mm

# MULTIFUNCTION PCB BUFFER

## Application

The Multifunction PCB Buffer is used to buffer PCB's in LIFO or FIFO mode. "Pass-through" mode may be selected so that PCB is transferred by it, or "Automatic" mode may be selected so that this machine is used as a PCB buffer.

## Features



- **FOLLOW ME System** compatible
- Servo motor, Omron PLC control system, touch screen operation
- 3 operative modes: FIFO (first in first out), LIFO (last in first out), pass through
- 24pcs PCB's storage capability
- Electrical width adjustment
- Direction from left to right or right to left(optional)
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-BL	IE-CT-400A-BL	IE-CT-460A-BL
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Buffer capacity	Max. 24 PCBs at pitch 1		
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left		
Machine Size	500x885x1650mm	610x935x1650mm	610x995x1650mm

## Application

The PCB Destacker is used for loading bare board onto the PCB assembly line. A mechanism separates the bottom PCB from the stacker and lowers it onto the edge belt conveyor.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch screen easily operation
- By pass mode selectable
- Electrical width adjustment automatically
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-DU	IE-CT-400A-DU	IE-CT-460A-DU
<b>Power Supply</b>	AC 110/220V $\pm$ 10V, 50/60HZ		
<b>Air Supply</b>	5Kgf/cm <sup>2</sup>		
<b>PCB Size</b>	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
<b>Buffer capacity</b>	Max. 24 PCBs at pitch 1		
<b>Transfer Height</b>	900 $\pm$ 20mm		
<b>PCB Direction</b>	left to right or right to left		
<b>Machine Size</b>	630x850x1250mm	630x900x1250mm	630x950x1250mm



# PCB PUSH-UP STACKER

## Application

The Push-up Stacker is used for restacking un-populated boards at the end of the line. Stacking is done by a pneumatic lifter, which gently raises the PCB's from the belt conveyor and adds the PCB, one by one, to the bottom of the stack.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch screen easily operation
- By pass mode selectable
- Electrical width adjustment automatically
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-SU	IE-CT-400A-SU	IE-CT-460A-SU
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left		
Machine Size	630x850x1250mm	630x900x1250mm	630x950x1250mm

## Application

The Bare Board Loader is used for automatically loading unpopulated boards at the beginning, or in the middle of a PCB assembly line. The bare boards are lifted one by one from the stack by vacuum and are gently lowered onto the belt segment, ready for the downstream machine.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- By pass mode selectable
- Flexible suction design, position adjustable
- Sucking stability improved by using single vacuum generator system
- Width adjusting system by hand crank. Electrical width adjustment available on request
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-SL	IE-CT-400A-SL	IE-CT-460A-SL
<b>Power Supply</b>	AC 110/220V $\pm 10V$ , 50/60HZ		
<b>Air Supply</b>	5Kgf/cm <sup>2</sup>		
<b>PCB Size</b>	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
<b>Transfer Height</b>	900 $\pm 20$ mm		
<b>PCB Direction</b>	left to right or right to left		
<b>Machine Size</b>	700x735x1250mm	750x785x1250mm	800x835x1250mm
<b>Control Panel</b>	Touch Screen (T)		

# PCB TURN CONVEYOR

## Application

The 90° PCB Turn Conveyor is used for changing the direction of flow of a PCB assembly line. The PCB is transferred onto the built-in belt conveyor which turns either 90° clockwise or counter clockwise.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- By pass mode selectable
- Width adjusting system by hand crank. Electrical width adjustment available on request
- Sensor protection more safely
- It's controlled with motor, rotate smoothly and accurately
- SMEMA compliant
- CE certified
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-TC	IE-CT-400A-TC	IE-CT-460A-TC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Transfer Height	900 $\pm$ 20mm		
PCB Direction	90° clockwise or counter clockwise (option)		
Machine Size	700x700x1200mm	750x750x1200mm	800x800x1200mm
Control Panel	Touch Screen (T)		

## Application

The PCB Inverter is used for inverting the PCB's to process the board at both sides without manual handling.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- By pass mode selectable
- Width adjusting system by hand crank. Electrical width adjustment available on request.
- Sensor protection more safely
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-IC	IE-CT-400A-IC	IE-CT-460A-IC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left		
Machine Size	500x800x1250mm	550x850x1250mm	600x900x1300mm
Control Panel	Touch Screen (T)		

# TELESCOPIC GATE CONVEYOR

## Application

The Telescopic Gate Conveyor is used for creating a passage in the PCB assembly line to give the operator access to the rear of the production equipment. The integrated conveyor segment slides across the opening upon request from the downstream machine when a board enters the unit. The conveyor returns to its retracted home position as the board is released, leaving a normally open passage in the line.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Fully opening gate passage allows operator in/out freely
- Electrical width adjustment
- Through beam sensors for additional safety
- Electrically driven for smooth extension and retraction
- SMEMA compliant
- CE certified
- Automatic width adjustment

## Specifications

Model	IE-CT-350A-TG	IE-CT-400A-TG	IE-CT-460A-TG
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm	535x(50 – 460)mm
Walkway	Max. 900mm adjustable		
Transfer Height	900 $\pm$ 20mm		
PCB Direction	left to right or right to left		
Machine Size	(750-1700)x740x1100mm	(750-1700)x790x1100mm	(750-1700)x840x1100mm
Control Panel	Touch Screen (T)		

## Application

The Manual Lift Gate Conveyor is used when a passage way is required in a production line. By manual lifting the conveyor section, access is gained to the rear of the line. (semiauto-matic)

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Cylinder assisted lifting motion
- Width adjustment by hand crank
- Pneumatic locking device installed to enhance safety
- SMEMA compliant
- CE certified
- Automatic width adjustment

## Specifications

Model	IE-CB-350A-GC	IE-CB-460A-GC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Size	400x(50 – 350)mm	460x(50 – 400)mm
Walkway	600mm	
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left	
Machine Size	1000x650x1100mm	1000x750x1100mm



# LOWERING GATE CONVEYOR

## Application

The Lowering Gate Conveyor is used when a passage way is required in a production line (semiautomatic).

## Features



- **FOLLOW ME System** compatible
- PLC Control system
- Lowering and lifting of gate conveyor by cylinder
- Width adjustment by hand crank
- Sensor protection more safely
- SMEMA compliant
- Automatic width adjustment

## Specifications

Model	IE-G-350L
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ
Air Supply	5Kgf/cm <sup>2</sup>
PCB Size	50x50 - 400x350mm
Transport Height	900 $\pm$ 20mm
PCB Direction	left to right or right to left
Machine Size	1300 x 560 x 1250mm

## Application

The PCB Traverser is used for transporting boards from one line into two lines or vice versa. The orientation of the board is not changed during traversing.

## Features



- **FOLLOW ME System** compatible
- Servo motor, Omron PLC control system, touch screen operation
- Width adjustment by hand crank. Electrical width adjustment by switch available on request
- By pass mode selectable
- Traversing length specified
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-350L-SC	IE-CT-460A-SC
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Width	50 - 350mm	50 - 460mm
Traversing Length	specified	
Transfer Height	900 $\pm$ 20mm	
PCB Direction	left to right or right to left	
Machine Size	according to traversing length	

# ADJUSTABLE MULTI MAGAZINE LOADER

## Application

The Adjustable Multi Magazine Loader is used at the starting of the line for loading of PCB's to the production line. The unit loads the production line automatically by pushing PCB's out of a magazine onto the conveyor of the down-stream machine.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system.
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 3 magazines loading capability
- SMEMA compliant
- CE certified
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-460AC-ML
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	5Kgf/cm <sup>2</sup>
PCB Size	min: 50x50mm, max: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	1750x1100x1190mm
Control Panel	Touch Screen (T)

## Application

The Adjustable Multi Magazine Unloader is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

## Features



- **FOLLOW ME System** compatible
- Omron PLC Control system
- Touch Screen Control is standard
- Multiple pitches selectable
- Direction from left to right, or right to left (to be defined)
- 3 magazines loading capability
- SMEMA compliant
- CE certified.
- Safety cover is standard for CE conveyors
- Automatic width adjustment

## Specifications

Model	IE-CT-460AC-MU
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	5Kgf/cm <sup>2</sup>
PCB Size	min: 50x50mm, max: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	2500x1100x1150mm
Control Panel	Touch Screen (T)

# WAVE SOLDER OUTFEED CONVEYOR

## Application

The Wave Solder Outfeed Conveyor is used to unload PCBs from the inclined conveyors of wave solder and to then lower the soldered boards to a standard conveyor height.

## Features



- **FOLLOW ME System** compatible
- Angle adjustment at input and output ends
- Heat-resistant, ESD belt with non-slip surface
- Heavy-duty aluminum construction
- Optional fan attachment for extra cooling capacity
- CE certified
- Automatic width adjustment

## Specifications

Model	IE-120LW
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ
PCB Width	50 - 450mm
PCB Direction	left to right or right to left
Machine Size	1200x500x(750 – 1200)mm

# INTEON

## REFLOW OVENS



## CONVEYORS



## BGA REWORKS



## DRY CABINETS



## ESD RACKS



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