

 **SMT HOUSE**

**THE SMARTER  
WAY TO STAY  
AHEAD**

**BOARD  
HANDLING  
EQUIPMENT**



## Single Magazine Loader



### 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 1 magazine loading capability, discharge magazine from the rear of machine
- SMEMA compliant.
- CE certified.

### Specifications

Model	ML-250A-ST/B	ML-330A-ST/B	ML-390A-ST/B	ML-460A-ST/B
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(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1145x1030x1200mm	1355x1120x1200mm	1505x1310x1200mm	1505x1450x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			
<i>Old Model</i>	<i>L-135S</i>	<i>L-160S</i>	<i>L-170S</i>	<i>L-175S</i>

\* Other options available on request.

## 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 1 magazine loading capability, discharge magazine from the rear of machine
- SMEMA compliant.
- CE certified.

### Specifications

Model	MU-250A-ST/B	MU-330A-ST/B	MU-390A-ST/B	MU-460A-ST/B
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(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1120x1030x1200mm	1305x1120x1200mm	1480x1310x1200mm	1480x1450x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			
<i>Old Model</i>	<i>U-170S</i>	<i>U-180S</i>	<i>U-200S</i>	<i>U-210S</i>

\* Other options available on request.

## Multi Magazine Loader



### 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

### Specifications

Model	ML-250A-CT/B	ML-330A-CT/B	ML-390A-CT/B	ML-460A-CT/B
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(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1365x745x1200mm	1650x820x1200mm	1825x880x1200mm	1825x950x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			
<i>Old Model</i>	<i>L-135C</i>	<i>L-160C</i>	<i>L-170C</i>	<i>L-175C</i>

\* Other options available on request.

## 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

### Specifications



Model	MU-250A-CT/B	MU-330A-CT/B	MU-390A-CT/B	MU-460A-CT/B
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(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	10, 20, 30, 40mm or Specify			
Machine Dimension	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)			
<i>Old Model</i>	<i>U-170C</i>	<i>U-180C</i>	<i>U-200C</i>	<i>U-210C</i>

\* Other options available on request.

## PCB Conveyor



### 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

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

### Specifications

Model	C-50LD-M/L	C-100LD-M/L	C-100LJ-M/L
Conveyor Length	500mm	1000mm	1000mm
Power	AC 110/220V $\pm$ 10V, 50/60HZ		
PCB Width	50 - 350mm (-M), 50 - 460mm (-L)		
Transfer Speed	1 - 12m/min adjustable		
Transfer Height	900 $\pm$ 20mm		

PCB Direction	left to right or right to left (option)		
Working Light	N	N	Y
Machine Dimension	500 x 650 x 900mm	1000 x 650 x 900mm	1000 x 650 x 900mm

\* Other options available on request.

## 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

- 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.

### Specifications

Model	C-150LR/3-M	C-150LR/3-L
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(option)	

Machine Size	1500x760x1100mm	1500x860x1100mm
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\* Other options available on request.

## PCB NG/OK Unloader



### 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

- 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 (optional).
- 3 magazines for good PCB's, 3 magazines for bad PCB's loading capability.
- SMEMA compliant.
- CE certified.

### Specifications

Model	UNG-250A-CT	UNG-330A-CT	UNG-390A-CT	UNG-460A-CT
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(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	multiple			
Machine Dimension	1510x1460x1200mm	1910x1630x1200mm	2160x1760x1200mm	2160x1900x1200mm
<i>Old Model</i>	<i>UNG-117C</i>	<i>UNG-140C</i>	<i>UNG-170C</i>	<i>UNG-200C</i>

\* Other options available on request.

## 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

- 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.

### Specifications

Model	BL-350A-CT	BL-400A-CT	BL-460A-CT
Power Supply	AC 110/220V ±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 ±20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	500x885x1650mm	610x935x1650mm	610x995x1650mm

\* Other options available on request.

## PCB Destacker



### 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

- Omron PLC Control system.
- Touch screen easily operation.
- By pass mode selectable.
- Electrical width adjustment automatically.
- SMEMA compliant.
- CE certified.

### Specifications

Model	DU-350A-CT	DU-400A-CT	DU-460A-CT
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	460x(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(option)		
Machine Size	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

- Omron PLC Control system.
- Touch screen easily operation.
- By pass mode selectable.
- Electrical width adjustment automatically.
- SMEMA compliant.
- CE certified.

### Specifications

Model	SU-350A-CT	SU-400A-CT	SU-460A-CT
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	460x(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(option)		
Machine Size	630x850x1250mm	630x900x1250mm	630x950x1250mm

## Vacuum Bare Board Loader



### 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- 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.

### Specifications

Model	SL-350A-CT/B	SL-400A-CT/B	SL-460A-CT/B
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ		
Air Supply	5Kgf/cm <sup>2</sup>		
PCB Size	460x(50 - 350)mm	460x(50 - 400)mm	535x(50 - 460)mm

Transfer Height	900 ±20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	700x735x1250mm	750x785x1250mm	800x835x1250mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		
Old Model	V-350A	V-400A	V-460A

## 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- 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.

### Specifications

Model	TC-350A-CT/B	TC-400A-CT/B	TC-460A-CT/B
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 ±20mm		
PCB Direction	left to right or right to left(option)		
Turning Direction	90° clockwise or counter clockwise(option)		
Machine Size	700x700x1200mm	750x750x1200mm	800x800x1200mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		
<i>Old Model</i>	<i>T-350A</i>	<i>T-400A</i>	<i>T-460A</i>

\* Other options available on request.

## PCB Inverter



### Application

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

### Features

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- By pass mode selectable.
- Width adjusting system by hand crank. Electrical width adjustment available on request.
- Sensor protection more safely.
- SMEMA compliant.
- CE certified.

### Specifications

Model	IC-350A-CT/B	IC-400A-CT/B	IC-460A-CT/B
Power Supply	AC 110/220V ±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 ±20mm		



PCB Direction	left to right or right to left(option)		
Machine Size	500x800x1250mm	550x850x1250mm	600x900x1300mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		
<i>Old Model</i>	<i>I-350A</i>	<i>I-400A</i>	<i>I-460A</i>

\* Other options available on request.

## 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

- Omron PLC Control system
- FUJI button, or touch screen operation options available.
- 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.

## **Specifications**

Model	TG-350A-CT/B	TG -400A-CT/B	TG -460A-CT/B
Power Supply	AC 110/220V ±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 ±20mm		
PCB Direction	left to right or right to left(option)		
Machine Size	(750-1700)x740x1100mm	(750-1700)x790x1100mm	(750-1700)x840x1100mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)		

\* Other options available on request.

## Manual Lift Gate Conveyor



### 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. (semiautomatic)

### Features

- Omron PLC Control system.
- Cylinder assisted lifting motion
- Width adjustment by hand crank.
- Pneumatic locking device installed to enhance safety.
- SMEMA compliant.
- CE certified.

### Specifications

Model	GC-350A-CB	GC-460A-CB
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Size	460x(50 - 350)mm	500x(50 - 460)mm
Walkway	600mm	

Transfer Height	900 ±20mm	
PCB Direction	left to right or right to left(option)	
Machine Size	1000x650x1100mm	1000x750x1100mm

\* Other options available on request.

## Lowering Gate Conveyor



### Application

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

### Features

- Omron PLC Control system.
- Lowering and lifting by cylinder (buttons control).
- Width adjustment by hand crank.
- Sensor protection more safely
- SMEMA compliant.
- CE certified.

### Specifications

Model	GC-350L-CB	GC-460L-CB
Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ	
Air Supply	5Kgf/cm <sup>2</sup>	
PCB Size	460x(50 - 350)mm	500x(50 - 460)mm
Walkway	500mm	
Transfer Height	900 $\pm$ 20mm	

PCB Direction	left to right or right to left(option)	
Machine Size	1300x550x1200mm	1300x650x1200mm
Old Model	G-350L	G-460L

\* Other options available on request.

## PCB Traverser



### 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

- 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.

### Specifications

Model	SC-350A-CT	SC-460A-CT
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(option)
Machine Size	according to traversing length

\* Other options available on request.

## 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

### Specifications

Model	ML-460AC-CT/B
Power	AC 110/220V ±10V, 50/60HZ
Air Pressure	5kgf/cm <sup>2</sup>
PCB Size	<b>min: 50x50mm, max: 535x460mm</b>
Transfer Height	900 ±20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	<b>355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm</b>
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	1750x1100x1190mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)
<i>Old Model</i>	<i>L-460C</i>

\* Other options available on request.

## Adjustable Multi Magazine Unloader



### 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

- Omron PLC Control system.
- FUJI button, or touch screen operation options available.
- Four pitches selections 10, 20, 30, 40mm (FUJI Button operation), multiple pitches selectable (touch screen operation).
- Direction from left to right, or right to left (optional).
- 3 magazines loading capability.
- SMEMA compliant.
- CE certified.

### Specifications

Model	MU-460AC-CT/B
Power	AC 110/220V ±10V, 50/60HZ
Air Pressure	5kgf/cm <sup>2</sup>
PCB Size	<b>min: 50x50mm, max: 535x460mm</b>
Transfer Height	900 ±20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	<b>355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm</b>
Pitches	10, 20, 30, 40mm or Specify
Machine Dimension	2500x1100x1150mm
Control Panel	1. Touch Screen (T), 2. FUJI Button (B)
<i>Old Model</i>	<i>U-460C</i>

\* Other options available on request.

## Flat Belt Conveyor



### Application

The **Flat Belt Conveyor** is used for smooth transfer of PCBs when edged conveyors can not be used. It can be made to meet customer's requirements, it is available in any length and width.

### Features

- Sensors controlled (optional).
- Heat-resistant, ESD belt with non-slip surface.
- Customized length and width.

### Specifications

Power Supply	AC 110/220V $\pm$ 10V, 50/60HZ
PCB Width	customized
PCB Direction	left to right or right to left(option)
Transfer Height	900 $\pm$ 20mm

\* Other options available on request.

## 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.

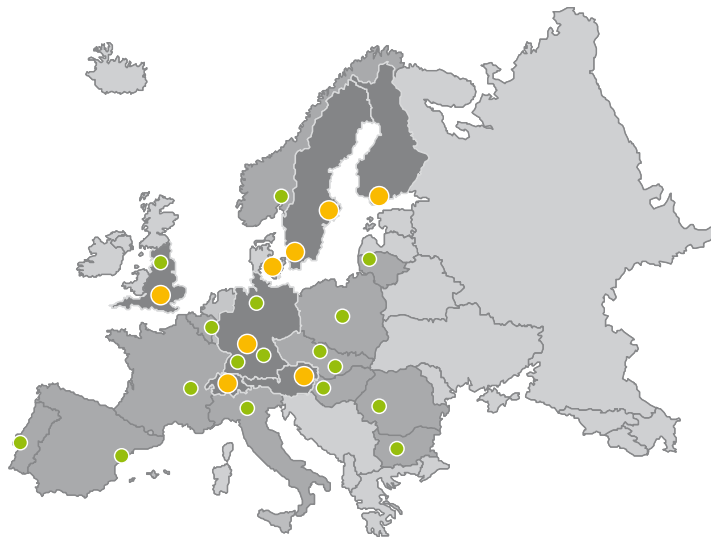
### Features

- 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.

### Specifications

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

\* Other options available on request.

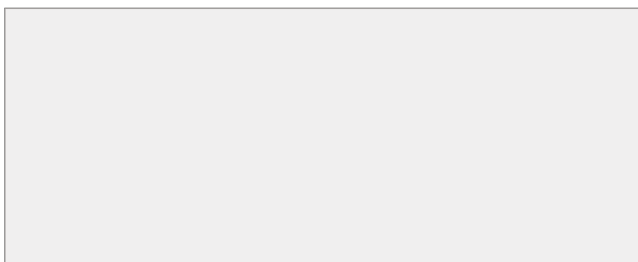


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