

# **Loader & Unloader- Board Handling**

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# **AS TECHNOLOGIES**

Board Handling Equipment

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## 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 downstream machine.

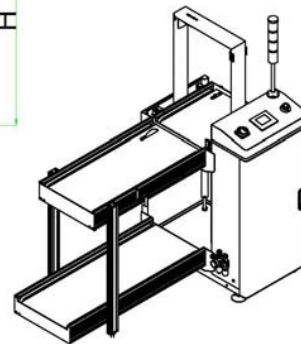
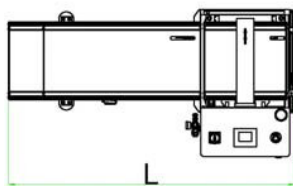
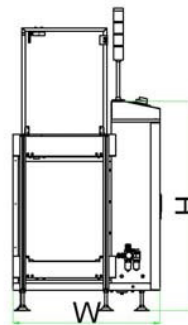
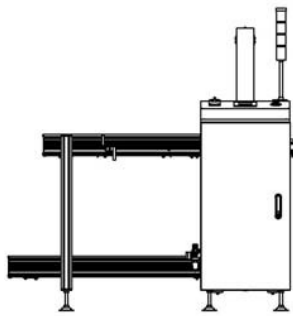
### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.

### Specifications

Model	ML-250A-CT	ML-330A-CT	ML-390A-CT	ML-460A-CT
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	4 - 6 kgf/cm <sup>2</sup>			
Fixed Rail	Front			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
Transfer Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	1 - 50, 10mm pitch			
Machine Dimension	1365x765x1200mm	1650x850x1200mm	1745x910x1200mm	1745x980x1200mm
Machine Weight	220kg	240kg	260kg	270kg

\* 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.

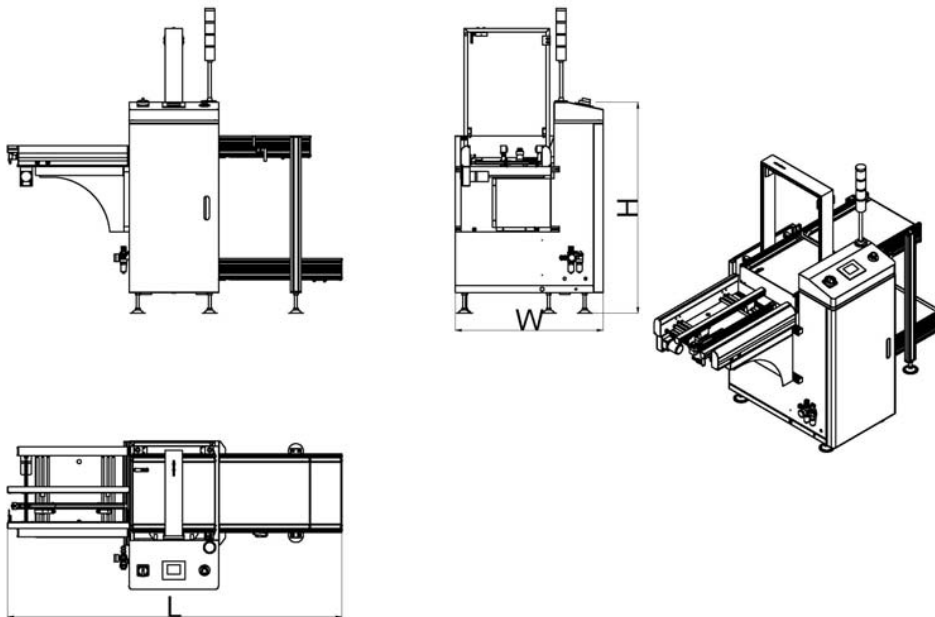
#### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.

### Specifications

Model	MU-250A-CT	MU-330A-CT	MU-390A-CT	MU-460A-CT
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	4 - 6 kgf/cm <sup>2</sup>			
Fixed Rail	Front			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
Transfer Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	1 - 50, 10mm pitch			
Machine Dimension	1685x745x1200mm	1920x820x1200mm	2165x880x1200mm	2165x950x1200mm
Machine Weight	240kg	270kg	290kg	310kg

\* Other options available on request.



### 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.

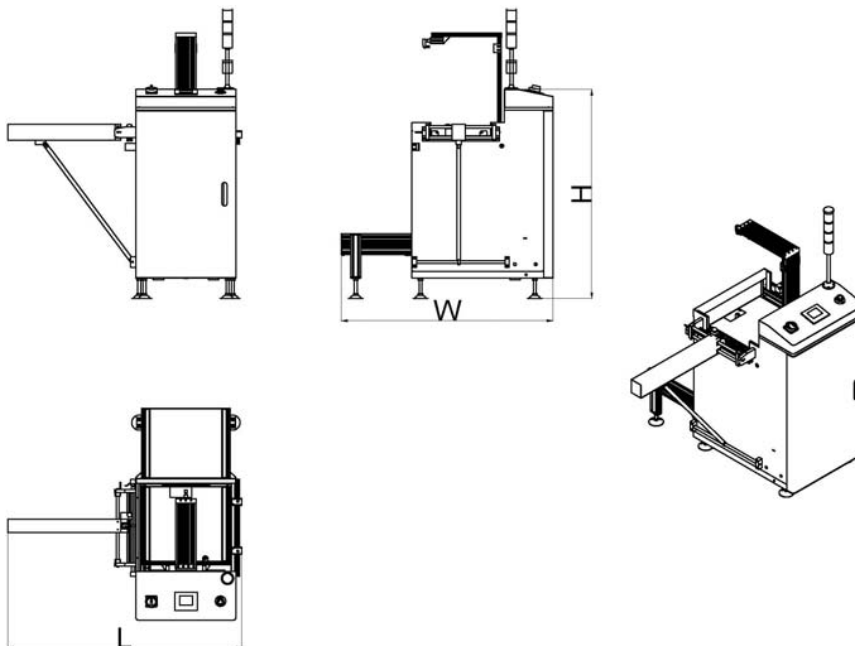
### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Tower light display for machine status.
- 1 magazine loading capability, discharge magazine from the rear of machine.
- SMEMA interface.
- CE certified.

### Specifications

Model	ML-250A-ST	ML-330A-ST	ML-390A-ST	ML-460A-ST
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	4 - 6 kgf/cm <sup>2</sup>			
Fixed Rail	Front			
PCB Size	350x(50 - 250)mm	460x(50 - 330)mm	535x(50 - 390)mm	535x(50 - 460)mm
Transfer Height	900 ±20mm or Specify			
Transfer Direction	left to right or right to left(option)			
Magazine Rack Size	350x320x563mm	460x400x563mm	535x460x570mm	535x530x570mm
Pitches	1 - 50, 10mm pitch			
Machine Dimension	1140x1060x1200mm	1350x1220x1200mm	1525x1340x1200mm	1525x1480x1200mm
Machine Weight	170kg	190kg	210kg	230kg

\* Other options available on request.





### Single Magazine Unloader



### Application

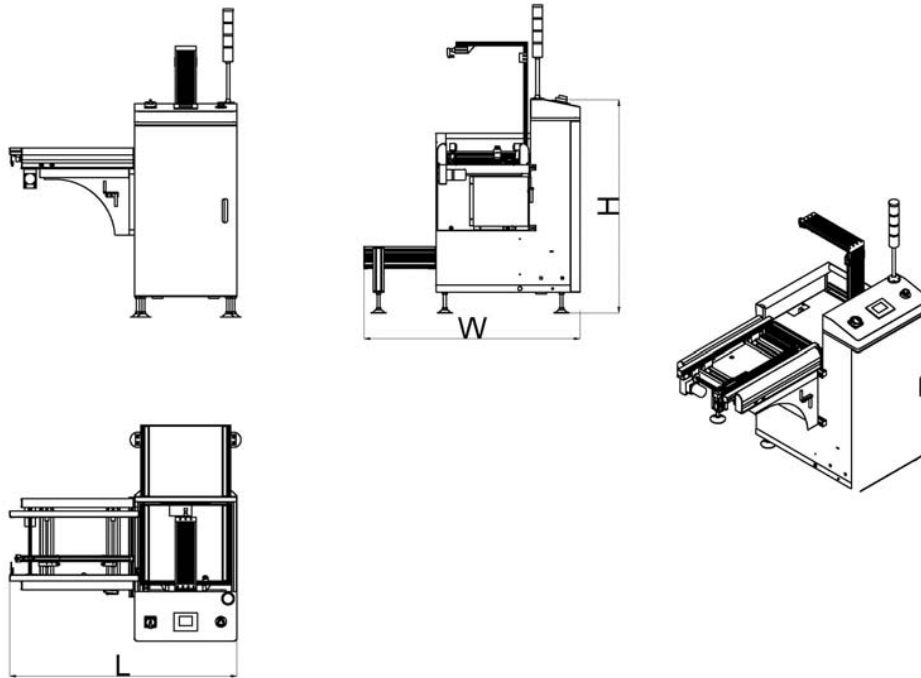
The **Single Magazine Unloader** is used at the end of the line for unloading of PCB's from the production line. An arriving PCB is taken up by the attached conveyor and then pushed into the magazine by the pusher. The magazine indexes to the next position and is ready for the following unloading cycle.

### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Tower light display for machine status.
- 1 magazine loading capability, discharge magazine from the rear of machine.
- SMEMA interface.
- CE certified.

### Specifications

Model	MU-250A-ST	MU-330A-ST	MU-390A-ST	MU-460A-ST
Size	M	L	LL	XL
Power	AC 110/220V ±10V, 50/60HZ			
Air Pressure	4 - 6 kgf/cm <sup>2</sup>			
Fixed Rail	Front			
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	1 - 50, 10mm pitch			
Machine Dimension	1120x1060x1200mm	1280x1220x1200mm	1460x1340x1200mm	1460x1480x1200mm
Machine Weight	200kg	210kg	230kg	250kg



\* 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 downstream machine.

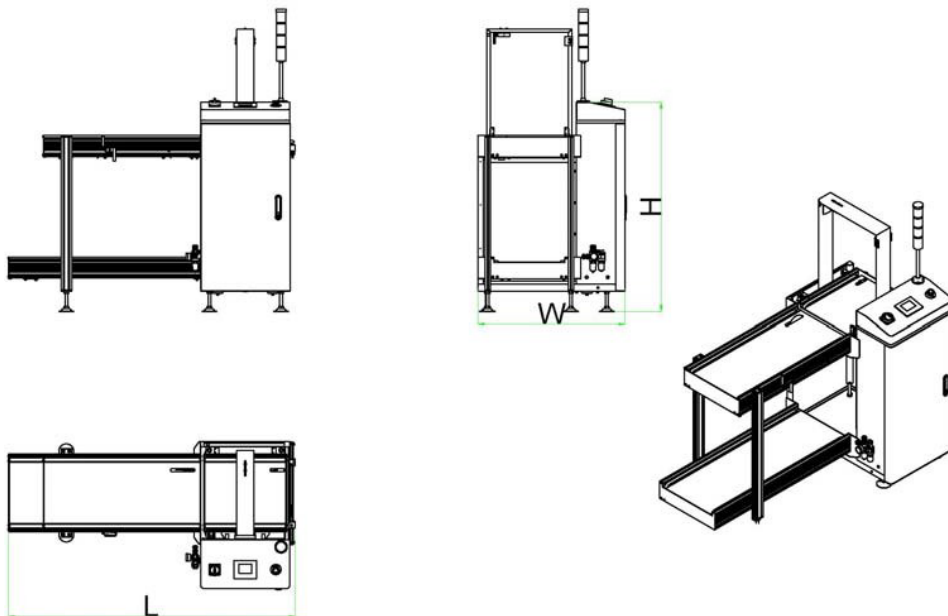
### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.

### Specifications

Model	ML-460AC4-CT
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	4 - 6 kgf/cm <sup>2</sup>
Fixed Rail	Front
PCB Size	Min.: 50x50mm, Max.: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	1 - 50, 10mm pitch
Machine Dimension	1750x1100x1200mm
Machine Weight	290kg

\* Other options available on request.



### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.

## 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.

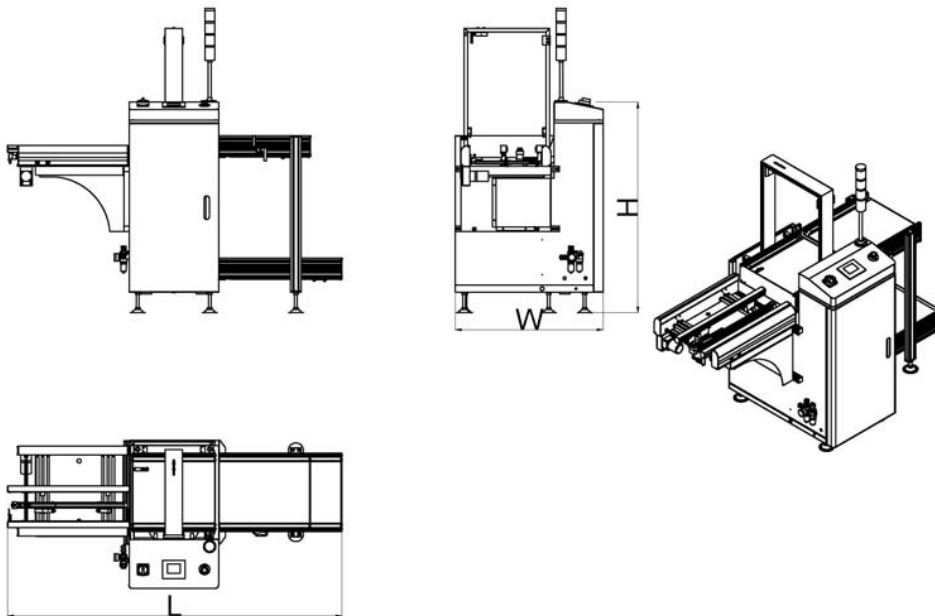
### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.

### Specifications

Model	MU-460AC4-CT
Power	AC 110/220V $\pm$ 10V, 50/60HZ
Air Pressure	4 - 6 kgf/cm <sup>2</sup>
Fixed Rail	Front
PCB Size	Min.: 50x50mm, Max.: 535x460mm
Transfer Height	900 $\pm$ 20mm or Specify
PCB Direction	left to right or right to left(option)
Magazine Rack Size	355x320x563mm, 460x400x563mm, 535x460x570mm, 535x530x570mm
Pitches	1 - 50, 10mm pitch
Machine Dimension	2500x1100x1150mm
Machine Weight	330kg

\* Other options available on request.



### Features

- Controlled by Omron PLC.
- Easy operation by touch screen.
- Multiple pitches selectable.
- Automatic magazine change-over.
- Tower light display for machine status.
- 3 magazines loading capability.
- SMEMA interface.
- CE certified.