

**We design and manufacture
Auto Insertion and SMT
Machines for Electronic PCB
Assembly.**



Board handing system



Magazine Type Buffer



Magazine Loader



Magazine Unloader



**90° Turning
Conveyor**



Translational Conveyor



Basic Conveyor 500mm



Conveyor with cooling fan



**Destacker for bare
board loading**

Combination Magazine/Stacked PCB Loader



It can be used to load PCBs onto the production line from either magazines or stacks, simplifying double-sided board assembly. Ideal for double-sided assembly. Load bare boards from stacks or partial assemblies from magazines

- Selectable pitch 10mm up to 40mm
- Diameter 3mm edge round belt
- Component clearance: top 80mm bottom 20mm
- Power: AC220V/110V, 50/60 HZ, 1 phase
- Air Pressure: 5kgf/cm²
- PCB Convey Direction: L-R (Or R-L)
- Front rail fixed (or rear rail fixed)
- Conveyor height:900+50/-20mm
- Stack Height: 200mm
- Conveyor speed: vacuum loading 15s/pc, loading 7s/pc

Model	Dimension (L*W*H.MM)	Effection PCB size	Weight(KG)	Rack size(L*W*H.MM)
SLD250L	1500×870×1200	50*50-350x250	250 KG	355*320*563
SLD330L	1860×950×1200	50*50-460x330	300KG	460*400*563
SLD390L	2100×1000×1200	50*50-535x390	340KG	535*460*563
SLD460L	2100×1080×1200	50x50-535x460	360KG	535*530*563

Magazine Type Buffer



PCB Magazine Type Buffer Technical Parameters

- Description: This Device Used For Receiving NG Board Or Memory Board
- No.Of Magazine: Upper Conveyor: 1 Magazine; Lower Conveyor:2 Magazine
- Indexing Pitch: 10.20.30.40mm Or Specify
- Power Source: AC 110 Volts Or 220 Volts; Single Phase
- Power Consumption: Max 250VA
- Air Pressure & Air Consumption: 4-6bar, 15ltr/Min
- Transport Height: 900 ± 20MM
- Transport Direction: From Left To Right Or Right To Left

Model	Dimension (L*W*H.MM)	Effection PCB size	Weight(KG)	Rack size(L*W*H.MM)
SBM250	1150*1150*1205	50*50-330*250	160KG	355*320*563
SBM330	1350*1350*1205	50*50-445*330	220KG	460*400*563
SBM390	1550*1550*1205	50*50-530*390	280KG	535*460*563
SBM460	1750x1750x1205	50x50-530x460	340KG	535*530*563

PCB Magazine Loader



- This equipment is used SMT circuit board production line operating upper and lower plates.
- Magazine quantity: upper 1pc, bottom 1pc.
- Tank Replacement time: about 30 seconds or a user specified
- step select: 10,20,30,40 mm or user
- spec. 110V or 220V, single phase max 250VA.
- Barometric pressure from 4-6 bar, up to 10/min
- Flexible platform to suit standard magazines. Regulated pressure on attached pneumatic pusher. Pusher position adjustable to centre of the magazine. User friendly “soft touch” LED membrane controlpanel.

Model	Dimension (L*W*H.MM)	Effection PCB size	Weight(KG)	Rack size(L*W*H.MM)
SLD250	1330*765*1250	50*50-330*250	140KG	355*320*563
SLD330	1650*845*1250	50*50-445*330	200KG	460*400*563
SLD390	1800*909*1250	50*50-530*390	240KG	535*460*563
SLD460	1800*970*1250	50x50-530x460	300KG	535*530*563

PCB Magazine Unloader



- This equipment is used SMT circuit board production line operating upper and lower plates.
- Magazine quantity: upper 1pc, bottom 1pc.
- Tank Replacement time: about 30 seconds or a user specified
- step select: 10,20,30,40 mm or user
- spec. 110V or 220V, single phase max 250VA.
- Barometric pressure from 4-6 bar, up to 10/min
- Flexible platform to suit standard magazines. Regulated pressure on attached pneumatic pusher. Pusher position adjustable to centre of the magazine. User friendly “soft touch” LED membrane controlpanel.

Model	Dimension (L*W*H.MM)	Effecton PCB size	Weight(KG)	Rack size(L*W*H.MM)
SUL250	1730*765*1250	50*50-330*250	160KG	355*320*563
SUL330	2065*845*1250	50*50-445*330	220KG	460*400*563
SUL390	2660*909*1250	50*50-530*390	280KG	535*460*563
SUL460	2660*970*1250	50x50-530x460	320KG	535*530*563

PCB Destacker/Loader for bare board loading



- User friendly touch screen control panel;
- Uninterrupted loading;
- Smooth and parallel with adjustments
- Small machine footprint;
- Automatically senses stack height
- Pass-through function
- SMEMA compatible

Capacity:200 board stack capability with 0.4 mm board thickness

Model	SLC460-B
PCB Width	Max 460mm
Conveyor Height	900 ± 20mm
PCB Direction	L→R
Conveyor Speed	0-10000mm/min
Power Supply	Single Phase 220V,50/60Hz 80W
Control System	PLC
No. of Drives	1 Belt
Communication Plug	SMEMA Signal
Dimension	889*589*1200mm (L*W*H)
Net Weight	180Kg

PCB Push-up Stacker for bare board unloading



Capacity:200 board stack capability with 0.4 mm board thickness

Model	SLC460W-T
PCB Width	50*50-503*460mm
Power Supply	AC 110V OR 220V, single-phase
Air Supply	5kgf/m ²
PCB Direction	Left to Right (Or Right to Left)
Control System	PLC
Cylinder	SMC
Speed	Variable in/out
Communication	SMEMA
Conveyor Height	900±20mm
Conveyor Speed	7s/pcs
Dimension (L*W*H)	600*900*1200mm
Weight	100KG
Board unload or pass-through mode	
Variable thickness adjust dial	
Slide-width adjust	

more details, please visit:

<https://www.smthelp.com/s-s600-stack-up-conveyor/>

S-V500 Vacuum loader for bare board loading

**Model:S-V500**

Dimensions: L600*W950*H1200mm

PCB size :L500*W390MM

Biggest store PCB number : 100PCS

Transfer height: 920 ± 30 mm

Direction: L to R / R to L

Conveyor Speed: 9m/min

Pitch selection: 10,20,30,40,50

PLC programmable controller control.

Operation control panel : display control touch screen

Power supply: single-phase 220 v, 50 hz

Air: 0.4-0.6 MPa

Weight:about 150KG

A set of electric control case

more details,please visit:

<https://www.youtube.com/watch?v=7NiXNjdK-AE>

PCB NG/OK Unloader



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

- 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).
- SMEMA compliant.
- RoHs .CE certified

Model	Dimension (L*W*H.MM)	Effection PCB size	Weight(KG)	Rack size(L*W*H.MM)
SNL250	1510*1530*1250	50*50-330*250	310KG	355*320*563
SNL330	1910*1630*1250	50*50-445*330	340KG	460*400*563
SNL390	2160*1760*1250	50*50-530*390	370KG	535*460*563
SNL460	2160*1900*1250	50x50-530x460	400KG	535*530*563

Basic Conveyor 1000mm



FEATURE

- PLC Program control.
- Start / Stop push button.
- Anti-static conveyor belt.
- Easy way of belt replacement.
- Heavy bottom design to prevent shifting.
- PCB precise stopping in position.
- Smooth and parallel width adjustment.(lead screw).
- SMEMA compatible.
- Power supply: AC 110V / 220 V
- Power consumption:120VA max
- Load bearing:1.5kg/PCB

Item	Model	Length(mm)	Max PCB Width(mm)	Remark
1	S-350D	1000	350	no Lighting
2	S-460D	1000	460	no Lighting
3	S-350D-L	1000	350	with Lighting
4	S-460D-L	1000	460	with Lighting

Conveyor with cooling fan



Substrate width: A.B rail can be adjusted from 50 to 250mm
 Connection length: 500mm-1000mm (option)
 Transport height: 900mm + 20mm
 The guide rail adopts special SMT contact table special guide rail
 Four wire rod width modulation mechanism is easy to operate
 The transportation is professional wear resistant, green belt and belt pulley. Smooth transmission
 Stepper motor powered by power
 Single side worktable, the surface of the platen is pasted with 2mm green antistatic rubber, the effective width of the worktable is 200mm
 The cooling fan is cooled by multiple fans, so that the temperature of the PCB outlet plate reaches the corresponding cooling effect.

Model	Dimension (L*W*H.MM)	Effect PCB size	Weight(KG)	Remark
S-350DF	1000*675*900	50*50-445*350	80	with cooling fans,no Lighting
S-460DF	1000*785*900	50*50-530*460	90	with cooling fans,no Lighting

more details,please visit:

<https://www.youtube.com/channel/UCIX0iEG2bvJq8yUBEDamgDw/search?query=loader>

90 Degree Turning Conveyor



- 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.
- Plc Control
- Diameter: 3mm Edge Round Belt
- Air Pressure: 5kgf/cm²
- Power: Ac220v, 50/60 Hz, 1 Phase
- Pcb Convey Director: L-r (Or R-l)
- Front Rail Fxed (Or Rear Rail Fxed)
- Conveyor Height:900+/-50mm
- Conveyor Speed: 10m/s

Model	Dimension (L*W*H.MM)	Effection PCB size	Weight(KG)
SCN250	500*563*1200	50*50-330*250	150KG
SCN330	580*643*1200	50*50-400*330	170KG

Packing&Details

SMEMA compatible



Permanent nameplate



Vacuum+plywood package(free)



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7, Looking forward to your email: wendy@smthelp.com

