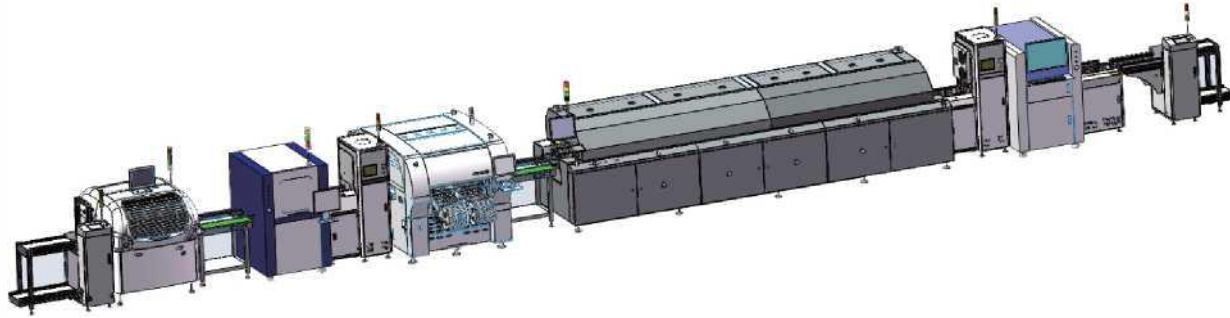




SFG
ELECTROMECHANICAL
EQUIPMENT CO., LIMITED

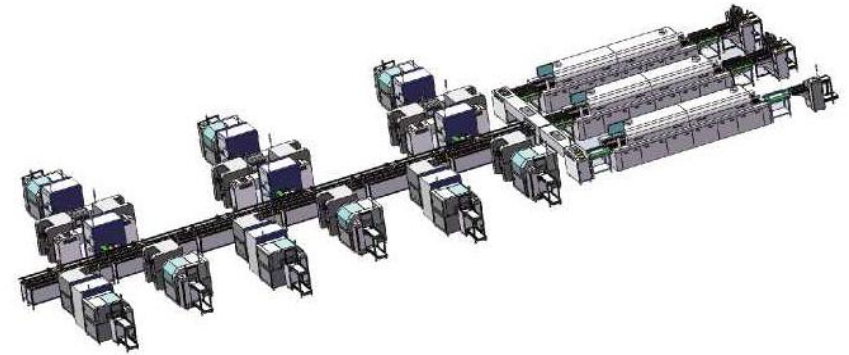
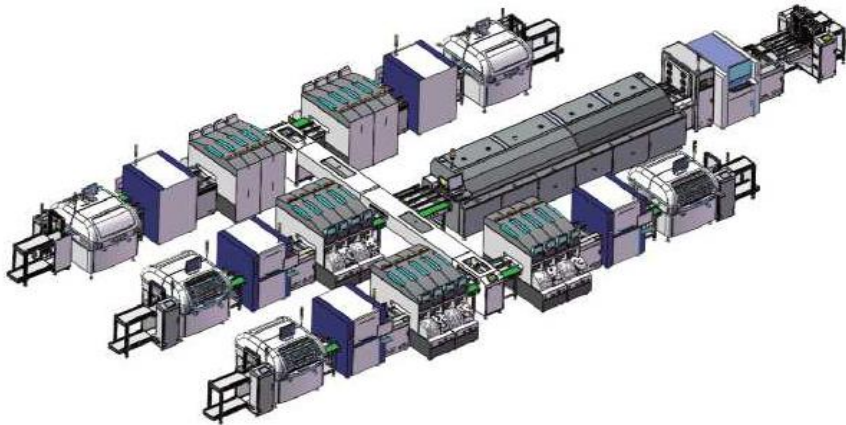
Peripheral equipment Catalog

Singal rail solution



**MULTI-line MESH BELT REFLOW
OVEN WIRING SCHEME**

Multi-Line double lane solution



Certification



输送机 RoHS 整合证书



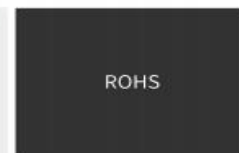
下板机 RoHS 整合证书



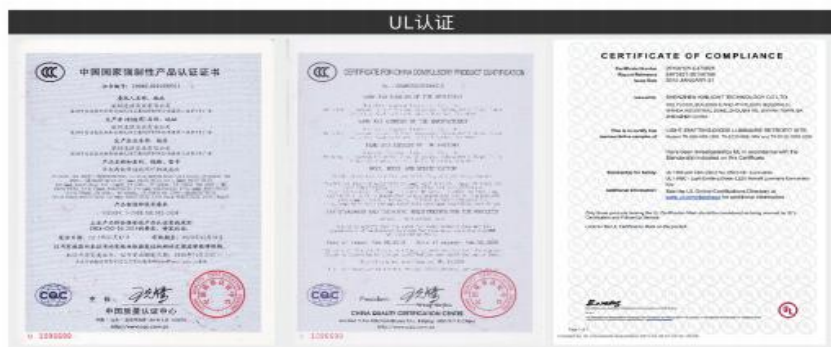
变轨机 RoHS 整合证书



缓存机 RoHS 整合证书



变轨机 CE 证书



输送机 CE 证书



下板机 CE 证书



缓存机 CE 证书

Certification

实用新型专利证书



高精度LED自动检测机



一种高实用自动调宽接驳台

实用新型专利证书



一种高稳定性电路板平移机



一种高效率高可靠度新型翻板机



一种大型冷却缓存机



一种定位抓取机械手



一种料盘上料机构



一种新型筛选机缓存设备



一种多功能电路板缓存装置



一种料盘自动上料设备



一种托盘升降机构



一种自动多轴联动料盘收料机

Certification



升降机软件



翻板机软件



缓存输送机软著



接驳输送机



大型冷却缓存机控制系统



过道输送机软件



转角机软件



平移输送机软著



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上料机软著证书



多功能通用电路板



PCB清洁机软件



下板机软著证书



下料机软件证书

Chips reel loader and unloader

The frame adopts grade gold integral welded frame, which is solid and stable

- Touch screen controller, easy to operate
 - Fully enclosed design ensures operational safety level
 - Driven by servo motor, it can search and locate quickly, smoothly and accurately
 - Stable and reliable chips reels grasping mechanism
- With SMEMA

Item	Loader	Unloader
Description	used for loading the SMT chips after the auto SMD chips counting machine	used for unloading the SMT chips after the auto SMD chips counting machine
Cycle time	16s	16s
Dimension	1250*2000*1920	1800*1440*1920
Weight	600KG	600KG
PCB Size	400*400*600	400*400*600



Large cooling buffer

- Touch screen controller
- Fully enclosed design ensures operationl safety level
- Use durable rollers for transmission(no need to replace belts)
- Three mode:FIFO,LIFO,PASS
- Parallel and soomth width adjustment(ball screw)
- Fast cooling effect
- Smooth transmission of heavy PCBA
- With SMEMA



Description

Description	
Use	Use as a cooling buffer after the reflow oven
Cycle time	10s
PCB capacity	15pcs
Power supply	ACIP110V/220V
Direction	L to R or R to L
Dimension	1500*1495*1760
Weight	300KG

Inspection Conveyor

- Modular design
- Weighted desihn improves stability
- Inspection mode and automatic mode
- Inducing multi-zone position accuracy
- Ergonomic design,make arms rest
- Custom machine length accroding to requirem
- Variable speed control
- Compatible SMEMA interface



Description

Description	
Belt type	Round belt or oblate belt
Speed	0.5-20m
Power supply	AC1P110V/220V
Height	900+-20mm
Direction	L to R or R to L
PCB size	445*350mm 460*460mm 440*350mm 530*460mm

High end inspection conveyor

- Modular design
- Solid design improves stability
- Inspection mode and automatic mode
- Inducing multi-zone position accuracy
- Ergonomic design, make your arms easy
- Custom machine length according to customer's requirement
- Order the number of multi-zone according to customer's requirement
- Variable speed control
- Precision laser and durable cutting stainless structure
- Compatible SMEMA interface



Description	
Belt type	Round belt or oblate belt
Speed	0.5-20m
Power supply	AC1P110V/220V
Height	900+-20mm
Direction	L to R or R to L
PCB size	445*350mm 460*460mm 440*350mm 530*460mm

Dual lane conveyor

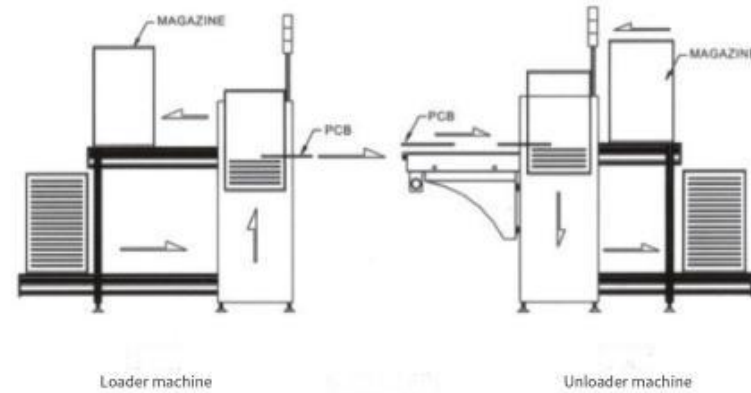
- Modular design
- Weighted design improves stability
- Inspection mode and automatic mode
- Inducing multi-zone position accuracy
- Ergonomic design, make arms rest
- Custom machine length according to customer's requirement
- Order the number of multi-zone according to customer's requirement
- Variable speed control
- Compatible SMEMA interface



Description	
Belt type	Round belt or oblate belt
Speed	0.5-20m
Power supply	AC1P110V/220V
Height	900+-20mm
Direction	L to R or R to L
PCB size	330*250 Can custom

Magazine loader and unloader

- Strong, firm and stable design
- User friendly 'soft touch' LED membrane control panel
- Top & bottom pneumatic clamps to secure magazine rack
- No PCB breakage guaranty because of special gas circuit design
- Automatical diagnosing fault code display function
- Wear-resistant cable and have long service life
- SMEMA compatible

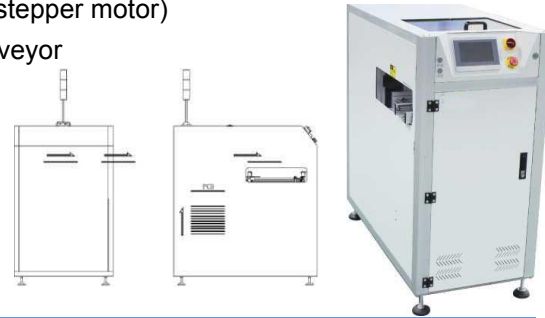


Description	This unit is used for loading and unloading of PCBs
No. of magazine	Loader: upper 1, Bottom 2 Unloader: upper 1, Bottom 1
Time feed PCB	Seconds 6 Approx, or specify
Magazine replacement time	Approx.30 seconds or specify
Indexing pitch	10.20.30.40mm or specify
Powersupply	AC1P110V/220V
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Machine	Model	Magazine rack	PCB size	Weight Kg
Loader Unloader	M	355*320*563	50*80-330*250	140 160
	L	460*400*563	50*80-445*330	200 220
	LL	50*80-530*390	535*460*563	240 260
	XL	50*80-530*460	535*530*563	300 320
	XXL	50*80-610*460	630*530*563	350 450

TRANSLATION TYPE SUCTION MACHINE

- Convenient operation of touch screen control panel
- The vacuum loader structure is fully enclosed to ensure the safe level of operation
- Adjust the position of the suction nozzle to ensure the circuit boards is clamped
- Parallel and smooth width adjustment (leadscrew)
- Smooth and precise translation (stepper motor)
- Minimize clearance between conveyor
- The machine size can be specify
- SMEMA compatible



Description	This unit is used for automatic loading operation into transceiver board		
Maximum PCBs capacity	400pcs(0.6mm thick PCB)400pcs(0.6mm thick PCB)		
Cycle time	Approx. 12seconds or specify		
Air pressure	4-6bar,30ltr/min max		
Transport height	900±20mm(Or customized)		
Transport direction	From left to right or right to left		
Model	Dimension(MM)	PCB size (mm)	Weight (KG)
330W	600*1002*1300	50*50-450*330	130
460W	800*1270*1300	50*50-530*460	150

STACKED UPPERAND LOWER BOARD

User friendly 'soft touch' LED membrane control panel or touch screen can be selectd
 Aluminum structure, Bottom weight design, not easy to shift
 By pass mode provide
 Smooth and precise translation (stepper motor)
 Increased load without interference
 Minimize clearance between conveyor
 SMEMA compatible

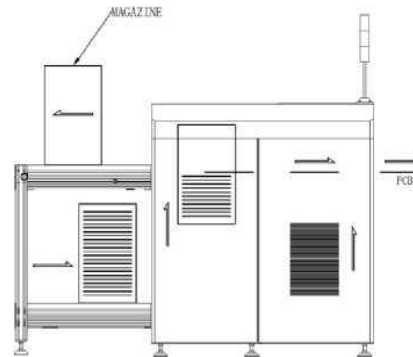


Description	This equipment is used to operate the upper and lower boards of the production line
Cycle time	Approx. 10seconds or specify
Maximum PCBs capacity	400pcs(0.6mm thick PCB)
Powersupply	AC1P110V/220V
PCB thickness	0.6mm min
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension(MM)	PCB size (mm)	Weight (KG)
460W	503*889*1200	50*50-460*460	180
480W	560*889*1200	50*50-480*480	200

VACUUM TYPE PCB LOADER

- Special aluminum alloy institutions, more clearly understand the state of MAGAZINE operation
- The stable integral casting lifting platform structure design has improved the stability of the equipment
- Multifunctional electrical circuit and program design, stable performance, ensure smooth of the feeding plate PCB
- The upper part of the bin has 4 kinds of PITCH selection, which can set the step distance of the feeding plate PCB
- The LED tricolor working indicator is controlled by 7 inch color human-machine interface
- A universal positioning mechanism is adopted for the suction nozzle positioning, and the absorption bits can be adjusted according to the characteristics of the PCB board
- The board part of the board on the suction plate has the function of lifting and lifting
- The material box is transmitted by the plastic strip of the flat plate Adjustable push plate speed control
- Three point positioning, upper and lower pneumatic clamping, ensure the location of the box is accurate
- The push plate protection system ensures that the PCB board will not be damaged and the process loss will be reduced
- The standard SMEMA communication interface can be connected weith other automation devices

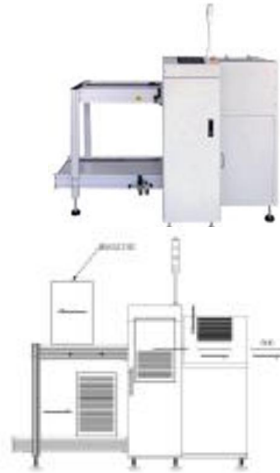


Description	This unit is used for automatic loading operation of double-sided boards and transceiver board
No. of magazine	Upper Conveyor:1 magazine lower conveyor:2magazine
Indexing pitch	400pcs(0.6mm thick PCB)
Cycle time	Approx. 12seconds or specify
Power supply	AC1P110V/220V
Air pressure	4-6bar, 30ltr/min max
Transport direction	From left to right or right to left

Model	Dimension(mm)	PCB Size(mm)	Rack size(mm)	Weight(KG)
M	1800*865*1250	50*80-330*250	355*320*563	200
L	2220*945*1250	50*80-445*330	460*400*563	240
LL	2450*1110*1250	50*80-530*390	535*460*563	280
XL	2450*1250*1250	50*80-530*460	535*530*563	320

AUTOMATIC FOLDING LOADER

- User friendly membrane control panel
- Increase board without interference
- By pass mode provided
- Top & bottom pneumatic clamps to secure magazine rack
- No PCB breakage guaranty because of special gas circuit design
- Vacuum Loader and pallet conveyor compatible
- SMEMA compatible



Description	This unit is used for automatic loading operation of double-sided boards and transceiver board
No. of magazine	Upper Conveyor:1 magazine lower conveyor:2magazine
Indexing pitch	10.20.30.40mm orspecify
Cycle time	Approx. 12seconds or specify
Maximum PCBs capacity	400pcs(0.6mm thick PCB)
Transport direction	From left to right or right to left

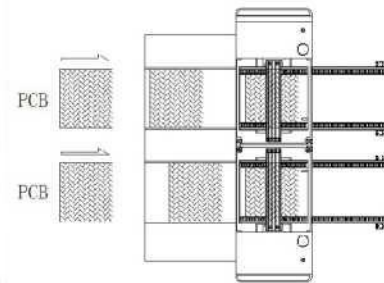
Model	Dimension	PCB size	Rack size	Weight
M	1850*855*1250	50*80-330*250	355*320*563	190
L	2185*935*1250	50*80-445*330	460*400*563	220
LL	2320*994*1250	50*80-460*390	535*460*563	260

DUAL RAIL UNLOADER

- Strong, firm and stable design
- User friendly 'soft touch' LED membrane controlpanel or touch screen can be selected
- Top & bottom pneumatic clamps to secure magazine rack
- No PCB breakage guaranty because of special gas circuit design
- Automatical diagnosing faultcode display function
- Wear-resista nt cable and have long service life
- SMEMA compatible



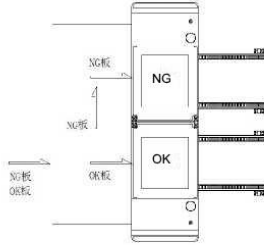
Description	This unit is used for loading operation of double-Sided boards and transceiver board
No. of magazine	Upper Conveyor:1 magazine lower conveyor:1 magazine
Indexing pitch	10.20.30.40mm orspecify
Magazine replacement time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left



Model	Dimension	PCB size	Rack size	Weight
M	1800*1435*1250	50*80-330*250	355*320*563	320
L	2065*1690*1250	50*80-445*330	460*400*563	350
LL	2330*1810*1250	50*80-530*390	535*460*563	380
XL	2330*1950*1250	50*80-530*460	535*530*563	410

HORIZONTALLY NG/OK MACHINE

Strong, firm and stable design
 User friendly 'soft touch' LED membr a nee controlpanel or touch screen can be selected
 Top & bottom pneumatic clamps to secure magazine rack
 No PCB breakage guaranty because of special gas circuit design
 Automatical diagnosing faultcode display function
 Wear-resistant cable and have long service life
 SMEMA compatible



Description	This unit is used for automatic loading operation of double-sided boards and transeiver board
No. of magazine	Upper Conveyor:1 magazine lower conveyor:1 magazine
Indexing pitch	10.20.30.40mm orspecify
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Rack size	Weight
M	1800*1435*1250	50*80-330*250	355*320*563	320
L	2065*1690*1250	50*80-445*330	460*400*563	350
LL	2330*1810*1250	50*80-530*390	535*460*563	380
XL	2330*1950*1250	50*80-530*460	535*530*563	410

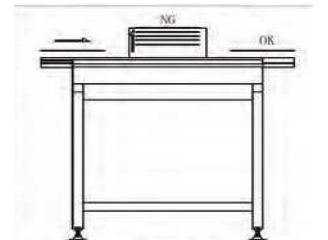
STANDARD PCB FILTER

- Reject, inspect and pass through modes provided
- Modular design
- Stablity enhanced by 'robust design'
- Inducing multi-zone position accuracy
- Ergonomic design,make arms rest
- Different lengths available upon request
- Muti-zone concept available upon request
- variable speed control
- SMEMA compatile



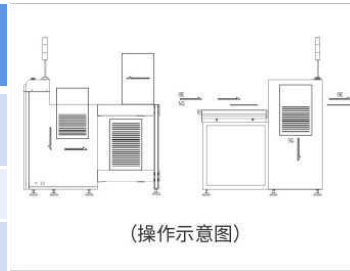
Description	This unitallows good and bad board separation in AOI, during testing, the good board can continue to run without interrupting
Conveying speed	0.5-20M/min or customer specified
Belt type	ESD Belt
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
Storage plate number	8pcs(or specify)

Model	Dimension	PCB size	Weight
M	500*793*900	50*80-460*460	70
L	1000*793*900	50*80-530*460	105



MAGAZINE TYPE BUFFER

- User friendly 'soft touch' LED membrane control panel or touch screen can be selected
- Top & bottom pneumatic clamps to secure magazine rack
- No PCB breakage guaranty because of special gas circuit design
- Apply to NG board for receive NG board
- Six operation modes:FIFO, LIFO, upper board, lower board, NG board cache and pass-through
- Fast, smooth and accurate retrieval positions
- SMEMA compatible

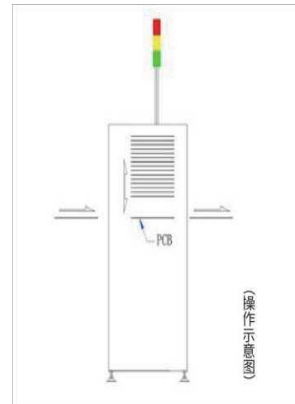


Description	This device is used for receiving NG board or memory board
No. of magazine	Upper Conveyor:1 magazine lower conveyor:1 magazine
Indexing pitch	10.20.30.40mm or specify
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Rack size	Weight
BM-M-TN	1150*1150*1250	50*80-330*250	355*320*563	160
BM-L-TN	1350*1350*1250	50*80-445*330	460*400*563	220
BM-LL-TN	1550*1550*1250	50*80-530*390	535*460*563	280
BM-XL-TN	1550*1780*1250	50*80-530*460	535*530*563	300

MULTIFUNCTIONAL VERTICAL TYPE BUFFER

- User friendly membrane control panel
- Use wear-resistant anti-static belts for transmission (convenient belt replacement)
- Three operation modes : FIFO.LIFO.Pass-through
- Parallel and smooth width adjustment(leadscrew)
- Fast, smooth and accurate retrieval positions
- Enclosed design ensures highest level of safety
- Small machine footprint
- SMEMA compatible



Description	This unit is used as a buffer between SMT machine
Direction	From left to right or right to left
Belt type	ESD Belt
Cycle time	Approx. 10 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
Storage plate number	25pcs(or specify)

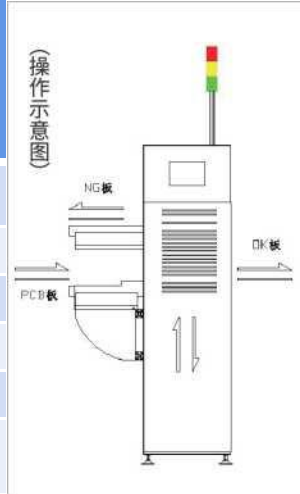
Model	Dimension	PCB size	Weight
M	1000*790*1640	50*50-445*350	190
L	1200*900*1640	50*50-530*460	240

NG BUFFER CONVEYOR

- Use wear-resistant anti-static belts for transmission (convenient belt replacement)
- Three operation modes: FIFO, LIFO, Pass-through
- Parallel and smooth width adjustment (leadscrew)
- Fast, smooth and accurate retrieval positions
- Enclosed design ensures highest level of safety
- Small machine footprint
- SMEMA compatible
- User friendly membrane control panel



Description	This device can cache AOI or SPI and other testing machine out of the NG and OK, OK board will flow to the next process, and the NG board will flow to the upper conveyor of the local machine to wait for manual confirmation PX
Direction	From left to right or right to left
Belt type	ESD Belt
Cycle time	Approx. 10 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
Storage plate number	20pcs(or specify)



Model	Dimension	PCB size	Weight
M	1000*790*1640	50*50-445*350	190
L	1200*900*1640	50*50-530*460	240

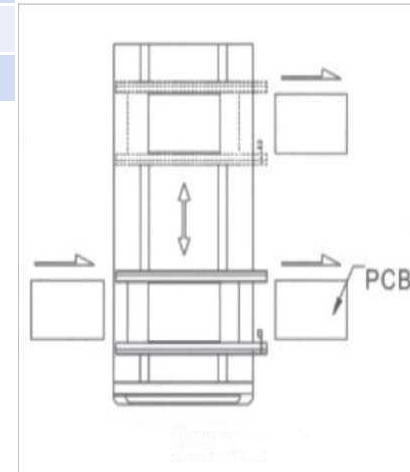
TRANSLATIONAL CONVEYOR

- User friendly 'soft-touch' LED control membrane control panel
- Enclosed design with built-in torque limiter ensures highest level of safety
- Top cover can be opened for easy access to hardware during maintenance
- Parallel and smooth width adjustment (screw)
- Steady and precise scaling (retractable motor)
- Minimize transmission clearance between conveyor
- Different lengths available upon request
- compatible SMEMA interface



Description	This unit is used to redirect PCBs flow into different channels in a production line
Cycle time	Depends on traversing distance
Belt type	Round belt or oblate belt
Power supply	AC1P110V/220V
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Weight
M	500*W*1050	50*50-450*350	140
L	600*4500*1050	50*50-550*350	280



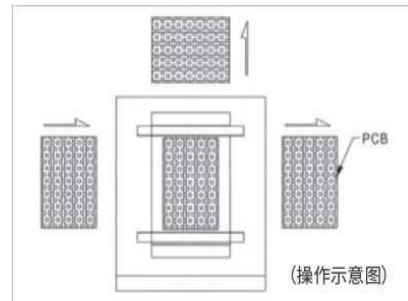
TURNING OVER CONVEYOR

- User friendly 'soft-touch' LED control membrane control panel
- Enclosed design with built-in torque limiter ensures highest level of safety
- Top cover can be opened for easy access to hardware during maintenance
- Parallel and smooth width adjustment(leadscrew)
- Steady and precise sea l ing(retractable motor)
- Minimize transmission clearance clearance between conveyor
- Different sizes available upon request
- PCB traffic flowscan be customised
- SMEMA compatible



Description	This unit is used to redirect PCBs flow into different channels in a production line (rotate 90 degrees, 180 degrees, 270 degrees)
Belt type	ESD Round belt or oblate belt
Cycle time	Approx. 15 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Weight
M	600*600*1200	50*50-445*400	170
L	750*750*1200	50*50-530*460	220



PCB INVERTER /FLIPPER

- User friendly 'soft-touch' LED control membrane control panel
- Enclosed design with turn limiter ensures highest level of safety
- Top cover can be opened for easy access to hardware during maintenance
- Parallel and smooth width adjustment(leadscrew)
- Steady and precise lifting(retractable motor)
- Minimize transmission clearance between conveyor
- Different sizes available upon request
- SMEMA compatible



Description	This unit is used to invert PCBs(180 o) for "double-sided" process
Belt type	ESD Round belt or oblate belt
Cycle time	Approx. 10 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Weight
M	500*725*1250	50*50-445*350	120
L	600*856*1250	50*50-550*460	180

AUTOMATIC ELEVATOR

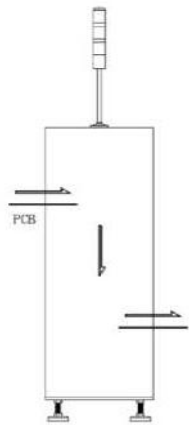
User friendly 'soft-touch 'LED control membrane control panel

- Enclosed design with turn limiter ensures highest level of safety
- Top cover can be opened for easy access to hardware during maintance
- Parallel and smooth width adjustment(leadscrew)
- Steady and precise invert! ng (brake motor)
- Minimize transmission clearance between conveyor
- Different sizes available upon request
- SMEMA compatible



Description	This unit is used to redirect PCBs flow into different heights in a production line
Cycle time	Depends on lifting distance
Belt type	Rround belt or oblate belt
Transport height	900±20mm(0r customized)
Transport direction	From left to right or right to left

Model	Dimension	PCB size	Weight
M	500*920*H	50*50-460*350	140
L	600*1050*H	50*50-530*460	200



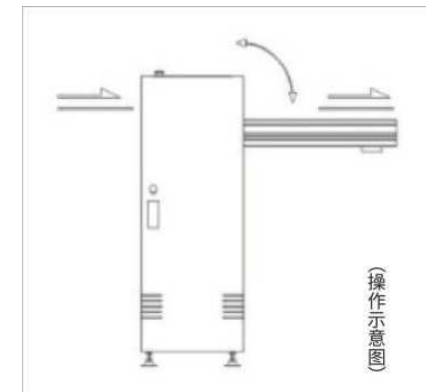
HAND DOOR CONVEYOR

- Clyinder support the ascending moving
- Pneumatic lock installed to enhance safety
- 650mm passageway or specify
- Parallel and smooth width adjustment(leadscrew)
- Safety sensor installed to enhance safety
- SMEMA compatible

Description	This equipment is necessary for channel production line
Conveying speed	0.5-20M/min or customer specified
Belt type	ESD Belt
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(0r customized)
Transport direction	From left to right or right to left



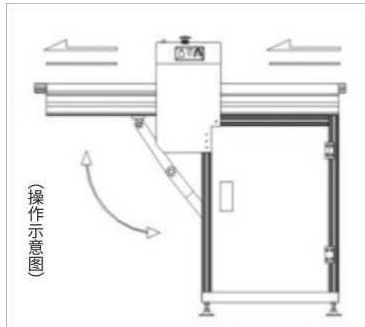
Model	Dimension	PCB size	Weight
M	1000*730*1050	50*50-445*350	180
L	1000*860*1050	50*50-530*460	200



(操作示意图)

DROP DOOR CONVEYOR

- Lowering and lifting of gate conveyor(pushbuttons control)
- 650mm passageway or specify
- Parallel and smooth width adjustment(leadscrew)
- Safety sensor installed to enhance safety
- SMEMA compatible



Description	This equipment is necessary for channel production line
Conveying speed	0.5-20M/min or customer specified
Belt type	ESD Belt
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
PCB size	50*50-530*460

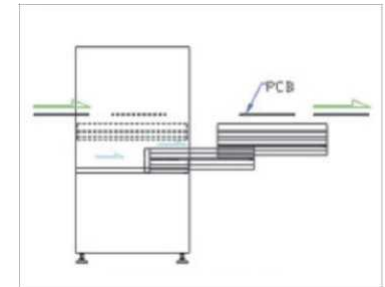
TELESCOPIC CONVEYOR

- Top cover can be opened for easy access to hardware during maintenance
- Parallel and smooth width adjustment(leadscrew)
- Steady and precise stretch (retractable motor)
- Minimize transmission clearance between conveyor
- Equipped with safety sensors to enhance security
- 700mm wide channel, or customer specified
- SMEMA compatible
- User friendly 'soft-touch' LED control membrane control panel
- Retractable mechanism enclosed design ensures operational security level



Description	This unit is used to invert PCBs(180 o) for "double-sided" process
Belt type	ESD Round belt or oblate belt
Cycle time	Approx. 10 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
Conveying speed	0.5-20M/min or customer specified

Model	Dimension	PCB size	Weight
M	1500*650*1050	50*50-445*350	200
L	1500*760*1050	50*50-530*460	230



PCB CLEANING MACHINE

- Touch screen controller, easy to operate
- Parallel and smooth width adjustment(leadscrew)
- Multiple dust removal design: ion air rod (blowing ion air) +1 group of spiral brushes+vacuum system +1 group of dust sticking drum +
- vacuum dust collection, the dust removal efficiency can reach 99%
- Fully enclosed design ensures operational safety level
- Smaller footprint
- With SMEMA port



Description	This machine is used into the remove the PCB surface dirty, elimination of static electricity
Conveying speed	0.5-9M/min or customer specified
PCB thickness	0.6-5mm
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
PCB size	50*50-530*460

ADVANCE PCB CLEANING MACHIN

- Touch screen controller, easy to operate
- Parallel and smooth width adjustment(leadscrew)
- Multiple dust removal design: ion air rod (blowing ion air) +1 group of spiral brushes+vacuum system +1 group of dust sticking drum + vacuum dust collection, the dust removal efficiency can reach 99%
- Fully enclosed design ensures operational safety level
- Drawer design, easy maintenance
- Smaller footprint
- With SMEMA port



Description	This machine is used into the remove the PCB surface dirty, elimination of static electricity
Conveying speed	0.5-9M/min or customer specified
PCB thickness	0.6-5mm
Cycle time	Approx. 30 seconds or specify
Transport height	900±20mm(Or customized)
Transport direction	From left to right or right to left
PCB size	50*50-530*460 (L)
	50*50-445*350 (M)

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