



PCB Handling Machines

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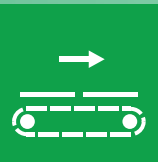
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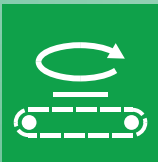
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CONVEYOR



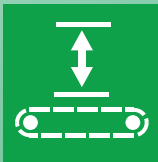
TURN



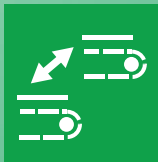
FLIP



LIFT



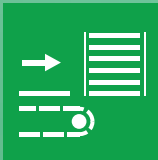
SHUTTLE



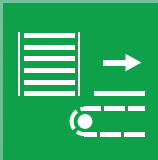
BUFFER



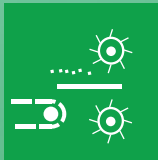
UNLOADER



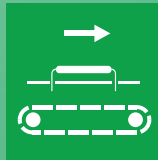
LOADER

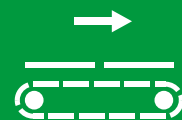


CLEANER



THRO-HOLE





Knewtek PCB Handling Machines Linking Conveyor Series

CYA 330L • CYA 460XL



Descriptions

This unit is used to link between production machines or board handling units.

Standard features

- 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.

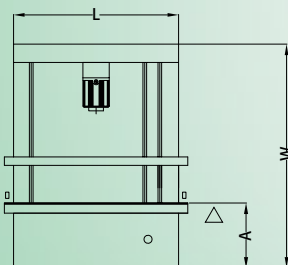
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify

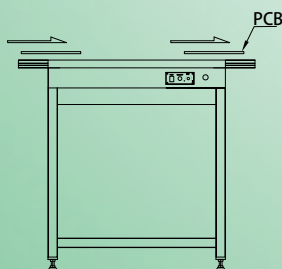
Options

- Non standard conveyor / segment lengths.
- Dust cover.(customized length)
- Cooling system.(0.5m long 4 fans / 1m long 8 fans or specify)
- SMEMA cable.(1.5m or specify)
- Emergency switch.
- Other options available on request.

Structure



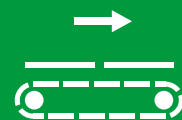
Schematic



Standard lengths (B) : 500 , 600 , 1000 , 1500 , 2000 .

	CYA330L (B)	CYA460XL (B)
Machine Dimension (L x W x H)	(B) x 695 x 920	(B) x 785 x 920
Weight	50-80kg	80-110kg
PCB length	50mm - 445mm	50mm - 457mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	230mm	230mm

* Customized is available



Knewtek PCB Handling Machines Inspection Conveyor Series

CYB 330L • CYB 460XL



Descriptions

The inspection conveyor is used when frequent visual inspection of PCB's is required in the PCB assembly line.

Standard features

- PLC Program control.
- Overhead lighting.
- Start / Stop push button.
- Anti-static conveyor belt.
- Centre PCB stop position.
- Easy way of belt replacement.
- Work and by-pass mode selectable.
- Heavy bottom design to prevent shifting.
- PCB precise stopping in position.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

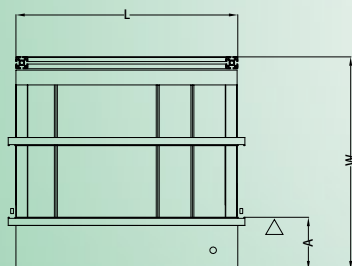
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 120VA max.

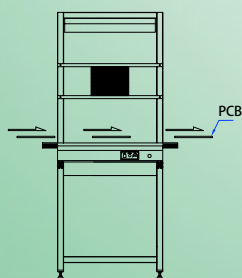
Options

- Non standard conveyor / segment lengths.
- Dust cover.(customized length)
- Cooling system.(0.5m long 4 fans / 1m long 8 fans or specify)
- SMEMA cable.(1.5m or specify)
- Emergency switch.
- Foot Switch.
- Other options available on request.

Structure



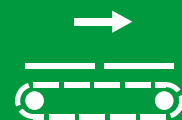
Schematic



Standard lengths (B) : 500 , 600 , 1000 , 1500 , 2000 .

	CYB330L (B)	CYB460XL (B)
Machine Dimension (L x W x H)	(B) x 750 x 920	(B) x 850 x 920
Weight	70-100kg	90-130kg
PCB length	50mm - 445mm	50mm - 457mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	230mm	230mm

* Customized is available



Knewtek PCB Handling Machines High Version Conveyor Series

CYX 330L • CYX 460XL



Descriptions

This unit is used to link between production machines or board handling units.

Standard features

- PLC Program control.
- Start / Stop push button.
- Anti-static conveyor belt.
- Centre PCB stop position.
- Easy way of belt replacement.
- Inspect and by-pass mode selectable.
- Sturdy structure offers reliable operation in demanding production.
- PCB precise stopping in position.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

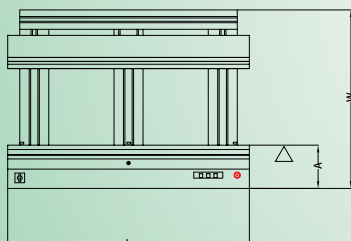
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify

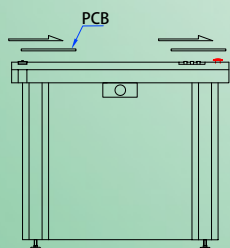
Options

- Non standard conveyor / segment lengths.
- Dust cover.(customized length)
- Cooling system.(0.5m long 4 fans / 1m long 8 fans or specify)
- SMEMA cable.(1.5m or specify)
- Light fixture
- Other options available on request.

Structure



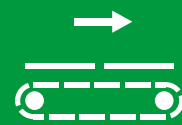
Schematic



Standard lengths (B) : 500 , 600 , 1000 , 1500 , 2000 .

	CYX330L (B)	CYX460XL (B)
Machine Dimension (L x W x H)	(B) x 750 x 920	(B) x 880 x 920
Weight	85-100kg	95-110kg
PCB length	50mm - 445mm	50mm - 457mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	180mm	180mm

* Customized is available



Knewtek PCB Handling Machines Reject Conveyor Series

CYC 330L • CYC 460XL



Descriptions

The unit installed after AOI for separated NG board for visual inspect and good board will pass through without stopping.

Standard features

- PLC Program control.
- Start / Stop push button.
- Anti-static conveyor belt.
- Centre PCB stop position.
- Easy way of belt replacement.
- Reject and by-pass mode selectable.
- Heavy bottom design to prevent shifting.
- PCB precise stopping in position.
- Smooth and parallel width adjustment.(lead screw)
- SMEA compatible.

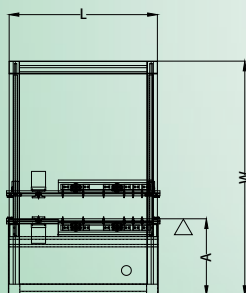
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 10 ltr/min max.
- Buffering capacity: 1 PCB or specify.

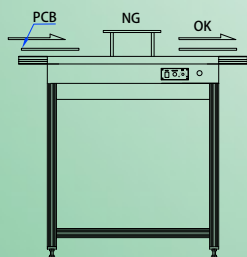
Options

- Non standard conveyor / segment lengths.
- Light fixture
- Alarm buzzer
- SMEA cable.(1.5m or specify)
- Additional lift positions for extra buffer capacity
- Other options available on request.

Structure



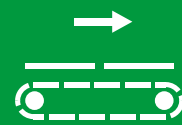
Schematic



Standard lengths (B) : 500 , 600 , 1000 , 1500 , 2000 .

	CYC330L (B)	CYC460XL (B)
Machine Dimension (L x W x H)	(B) x 739 x 960	(B) x 950 x 960
Weight	70-95kg	90-115kg
PCB length	50mm - 457mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	230mm	230mm

* Customized is available



Knewtek PCB Handling Machines High Version Reject Conveyor Series

CYCX 330L • CYCX 460XL



Descriptions

The unit installed after AOI for separated NG board for visual inspect and good board will pass through without stopping.

Standard features

- PLC Program control.
- Start / Stop push button.
- Anti-static conveyor belt.
- Centre PCB stop position.
- Easy way of belt replacement.
- Reject and by-pass mode selectable.
- Heavy bottom design to prevent shifting.
- PCB precise stopping in position.
- Smooth and parallel width adjustment.(lead screw)
- SMEA compatible.

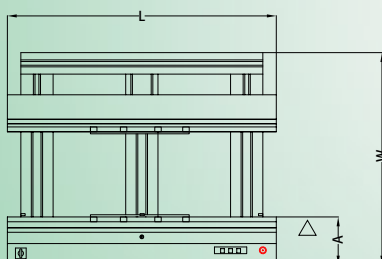
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 10 ltr/min max.
- Buffering capacity: 1 PCB or specify.

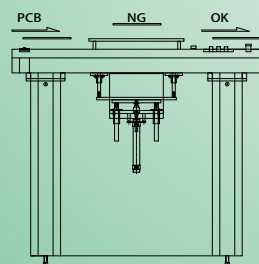
Options

- Non standard conveyor / segment lengths.
- Light fixture
- Alarm buzzer
- SMEA cable.(1.5m or specify)
- Additional lift positions for extra buffer capacity
- Other options available on request.

Structure



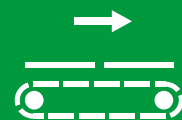
Schematic



Standard lengths (B) : 500 , 600 , 1000 , 1500 , 2000 .

	CYCX330L (B)	CYCX460XL (B)
Machine Dimension (L x W x H)	(B) x 750 x 960	(B) x 880 x 960
Weight	70-100kg	90-130kg
PCB length	50mm - 445mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	180mm	180mm

* Customized is available



Knewtek PCB Handling Machines Telescopic Conveyor Series

CYT 330L • CYT 460XL



Descriptions

The unit provides a 'normal open' passage in a PCB assembly line. An integrated conveyor segment slides across the opening to deliver PCB to downstream machine.

Standard features

- PLC Program control.
- Fully enclosed design.
- Normal Opened
- Electrically driven for smooth extension and retraction.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

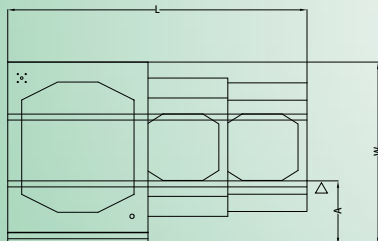
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify
- Machine cycle time: \pm 16 seconds
- Passageway: 750mm or specify

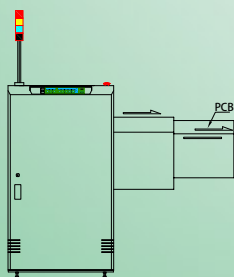
Options

- Passageway length is customized
- Normal closed operation.(750 mm passage way)
- SMEMA cable.(1.5m or specify)
- Other options available on request.

Structure

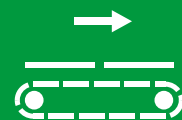


Schematic



	CYT330L	CYT460XL
Machine Dimension (extended) (L x W x H)	1500 x 915 x 1300	1500 x 1050 x 1300
Weight	250kg	295kg
PCB length	50mm - 457mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	258mm	258mm

* Customized is available



Knewtek PCB Handling Machines

Lowering Gate Conveyor Series

CYG 330L • CYG 460XL

Descriptions

This unit is used when a passage way is required in a production line.

Standard features

- PLC Program control.
- Locking cylinder to avoid opening during PCB transfer.
- Ergonomic air pressure supported opening and closing.
- Automatically gate lifting down by push button.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify
- Machine cycle time: \pm 16 seconds
- Passageway: 600mm or specify
- Air supply: 4-6 bar
- Air consumption: 35 ltr /lift max.

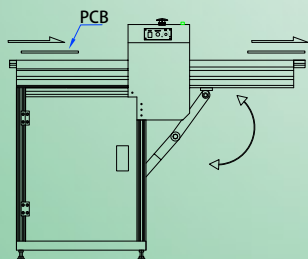
Options

- Passageway length is customized
- SMEMA cable.(1.5m or specify)
- Other options available on request.

Structure

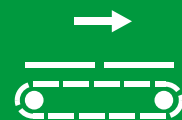


Schematic



	CYG330L	CYG460XL
Machine Dimension (extended) (L x W x H)	1300 x 560 x 1250	1300 x 720 x 1250
Weight	180kg	230kg
PCB length	50mm - 445mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	86mm	86mm

* Customized is available



Knewtek PCB Handling Machines Manual Lift Gate Conveyor Series

CYM 330L • CYM 460XL



Descriptions

By manual lifting the conveyor section, access is gained to the rear of the line.

Standard features

- PLC Program control.
- Locking cylinder to avoid opening during PCB transfer.
- Ergonomic air pressure supported opening and closing.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

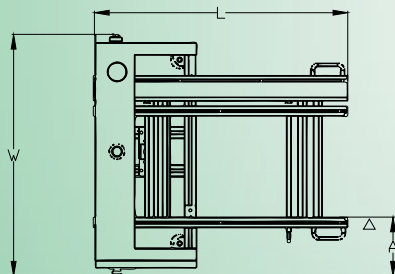
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 100VA max. or specify
- Machine cycle time: \pm 16 seconds
- Passageway: 600mm or specify
- Air supply: 4-6 bar
- Air consumption: 35 ltr /lift max.

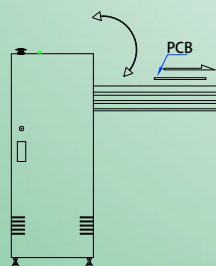
Options

- Passageway length is customized
- SMEMA cable.(1.5m or specify)
- Other options available on request.

Structure



Schematic



	CYM330L	CYM460XL
Machine Dimension (extended) (L x W x H)	1000 x 800 x 1310	1000 x 980 x 1310
Weight	180kg	230kg
PCB length	50mm - 445mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	190mm	190mm

* Customized is available

Knewtek PCB Handling Machines

Single Magazine Loader Series

LDA 250M • LDA 330L • LDA 390LL • LDA 460XL



Descriptions

The unit loads your production line automatically by pushing PCB's out of a magazine onto the conveyor of the downstream machine.

Standard features

- PLC Program control.
- Selectable pitch settings.
- Flexible platform to suit standard magazines.
- Exchange magazine from the rear of the machine.
- Regulated pressure on attached pneumatic pusher.
- Pusher position adjustable to centre of the magazine.
- User friendly "soft touch" LED membrane control panel.
- Magazine is manually placed on the platform and clamped in position.
- SMEMA compatible.

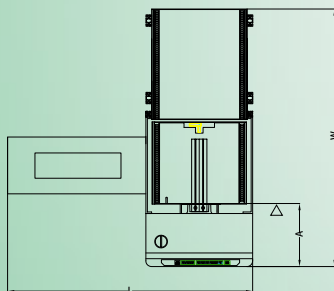
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 240VA max. or specify
- Air supply: \geq 6 bar
- Air consumption: 10 ltr/min max.
- PCB loading time: \pm 6 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.

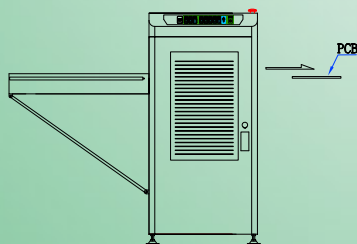
Options

- SMEMA cable.(additional)
- Magazine rack.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety.
- Towerlight display for machine status.
- Other options available on request.

Structure



Schematic



	LDA250M	LDA330L	LDA390LL	LDA460XL
Machine Dimension (L x W x H)	900 x 1150 x 1250	1150 x 1450 x 1250	1450 x 1550 x 1250	1450 x 1750 x 1250
Weight	120kg	140kg	160kg	180kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 563	460 x 400 x 563	535 x 460 x 573	535 x 530 x 570
Fixed rail to front dimension(A)	330mm	330mm	330mm	330mm

* Customized is available

Knewtek PCB Handling Machines Single Magazine Unloader Series

ULDA 250M • ULDA 330L • ULDA 390XL • ULDA 460XL



Descriptions

The PCB's are collected from upstream machine using attached conveyor and pushed into the magazine.

Standard features

- PLC Program control.
- Selectable pitch settings.
- Towerlight display for machine status.
- Flexible platform to suit standard magazines.
- Exchange magazine from the rear of the machine.
- Regulated pressure on attached pneumatic pusher.
- Pusher position adjustable to centre of the magazine.
- User friendly "soft touch" LED membrane control panel.
- Magazine is manually placed on the platform and clamped in position.
- SMEA compatible.

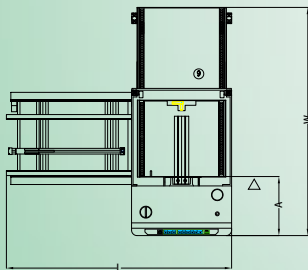
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEA
- Conveyer concept: ESD belt (round or flat)
- Belt speed: 16m /min
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 350VA max. or specify
- Air supply: \geq 6 bar
- Air consumption: 10 ltr/min max.
- PCB unloading time: \pm 6 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.

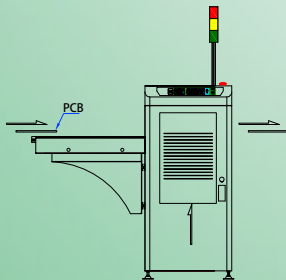
Options

- SMEA cable.(additional)
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety.
- Other options available on request.

Structure



Schematic



	ULDA250M	ULDA330L	ULDA390LL	ULDA460XL
Machine Dimension (L x W x H)	980 x 1150 x 1250	1200 x 1450 x 1250	1350 x 1550 x 1250	1350 x 1750 x 1250
Weight	200kg	220kg	240kg	260kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thinckness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x563	460 x 400 x 563	535 x 460 x 570	535 x 530 x 570
Fixed rail to front dimension(A)	330mm	330mm	330mm	330mm

* Customized is available



Knewtek PCB Handling Machines Multi Magazine Loader Series

LDB 250M • LDB 330L • LDB 390LL • LDB 460XL



Descriptions

The unit loads your production line automatically by pushing PCB's out of the magazine onto the conveyor of the downstream machines. Full magazines are inserted at an ergonomic low level.

Standard features

- PLC Program control.
- Selectable pitch settings.
- Towerlight display for machine status.
- Automatic magazine change-over.
- 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 control panel.
- Automatic magazine alignment by upper and lower pneumatic clamping.
- SMEMA compatible.

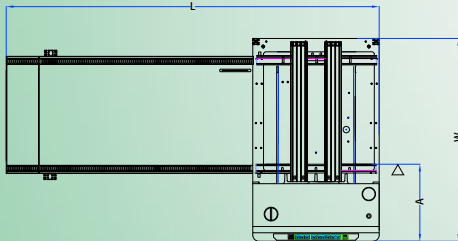
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 350VA max. or specify
- Air supply: \geq 6 bar
- Air consumption: 10 ltr/min max.
- PCB loading time: \pm 6 seconds
- Magazine change-over time: \pm 30 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.
- Total number of magazines:
 - * 1 magazine on the lifter platform.
 - * 1 empty magazine on the upper magazine conveyor
 - * 2 full magazines on the lower magazine conveyor
 - * or specify

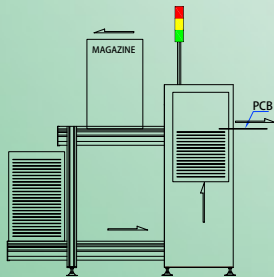
Options

- SMEMA cable.(additional)
- Magazine rack.
- Width adjustable magazine conveyor(s).
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety
- Other options available on request.

Structure



Schematic



	LDB250M	LDB330L	LDB390LL	LDB460XL
Machine Dimension (L x W x H)	1330 x 765 x 1250	1650 x 845 x 1250	1800 x 910 x 1250	1800 x 970 x 1250
Weight	140kg	180kg	220kg	240kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 563	460 x 400 x 563	535 x 460 x 573	535 x 530 x 570
Fixed rail to front dimension(A)	340mm	340mm	340mm	340mm

* Customized is available

Knewtek PCB Handling Machines Multi Magazine Unloader Series

ULDB 250M • ULDB 330L • ULDB 390LL • ULDB 460XL



Descriptions

The unit provides automatic magazine change-over for continuous line unloading. PCB's are collected from an upstream pusher conveyor and pushed into the magazine. Full magazines are off loaded at an ergonomic low level.

Standard features

- PLC Program control.
- Selectable pitch settings.
- Towerlight display for machine status.
- Automatic magazine change-over
- Flexible platform to suit standard magazines.
- Conveyor width adjustment using hand crank.
- Regulated pressure on attached pneumatic pusher.
- Pusher position adjustable to centre of the magazine.
- User friendly "soft touch" LED membrane control panel.
- SMEMA compatible.

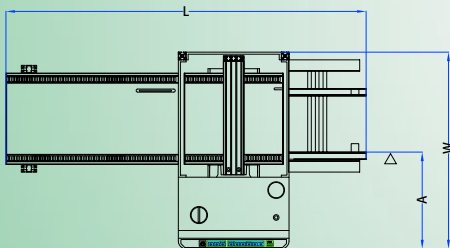
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 16m /min
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 350VA max. or specify
- Air supply: \geq 6 bar
- Air consumption: 10 ltr/min max.
- PCB unloading time: \pm 6 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.
- Magazine change-over time: \pm 30 seconds
- Total number of magazines:
 - * 1 mgazine on the lifter platform.
 - * 1 empty magazine on the upper magazine conveyor
 - * 2 full magazines on the lower magazine conveyor
 - * or specify

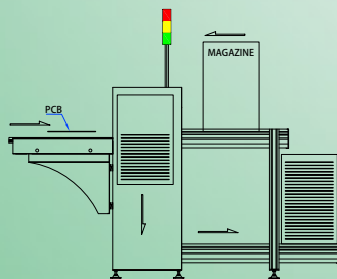
Options

- Cooling fans / dust cover on pusher conveyor.
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety.
- Width adjustable magazine conveyor(s).
- Other options available on request.

Structure



Schematic



	ULDB250M	ULDB330L	ULDB390LL	ULDB460XL
Machine Dimension (L x W x H)	1930 x 760 x 1250	2220 x 845 x 1250	2660 x 909 x 1250	2660 x 979 x 1250
Weight	160kg	190kg	230kg	260kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 563	460 x 400 x 563	535 x 460 x 570	535 x 530 x 570
Fixed rail to front dimension(A)	364mm	364mm	364mm	364mm

* Customized is available



Knewtek PCB Handling Machines

Vaccum board Loader Series

LDV 330L • LDV 460XL



Descriptions

The unit is designed for automatic loading of unpopulated PCB's onto the line using suction cups. The top PCB is lifted from stack and lowered onto belt segment.

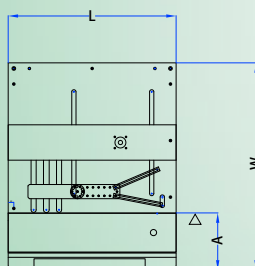
Standard features

- PLC Program control.
- Large stock capacity.
- Empty stack sensor.
- Flexible suction cup positioning.
- Convenient front door stack loading.
- Towerlight display for machine status.
- Smooth and parallel width adjustment.(lead screw)
- By-pass mode selectable without removing PCB stack.
- SHEMA compatible.

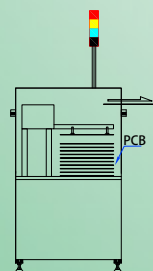
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SHEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max
- Air supply: 4-6 bar
- Air consumption: 10 ltr/min max.
- Diameter sictopm pads: 15mm or specify
- PCB thickness capability: 0.6-4.0mm
- PCB stock capability: 240mm or specify

Structure



Schematic



Options

- SHEMA cable.(additional)
- Alternative suction cup size.
- Cantilevered output conveyor (length 100 mm)
- Other options available on request.

	LDV330L	LDV460XL
Machine Dimension (L x W x H)	650 x 730 x 1035	800 x 800 x 1035
Weight	200kg	240kg
PCB length	50mm - 380mm	50mm - 530mm
PCB width	50mm - 330mm	50mm - 460mm
PCB Thinckness	0.6mm - 4.0mm	0.6mm - 4.0mm
Fixed rail to front dimension(A)	340mm	340mm

* Customized is available

Knewtek PCB Handling Machines

Vaccum and magazine combo loader

LDC 250M • LDC 330L • LDC 390LL • LDC 460XL



Descriptions

The unit loads your production line automatically and It is equipped with two PCB loading modes and especially suitable for single-line mode which processes double-sided pcbs.

Standard features

- PLC Program control.
- Selectable pitch settings.
- Towerlight display for machine status.
- Binding function of vaccum loader and magazine loader.
- Vaccum loading, Magazine loading and alternated mode selectable.
- SMEMA compatible.

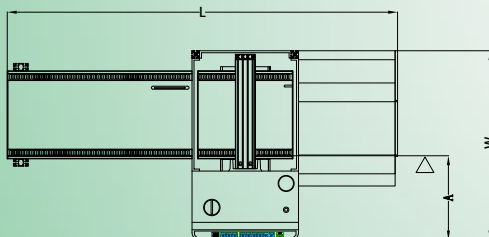
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 500VA max. or specify
- Air supply: \geq 6 bar
- Air consumption: 10 ltr/min max.
- PCB loading time: \pm 6 seconds
- Magazine change-over time: \pm 30 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.
- Diameter sictpm pads: 15mm or specify
- PCB thickness capability: 0.6-4.5mm
- PCB stock capability: 125mm or specify
- Total number of magazines:
 - * 1 mgazine on the lifter platform.
 - * 1 empty magazine on the upper magazine conveyor
 - * 1 full magazines on the lower magazine conveyor
 - * or specify

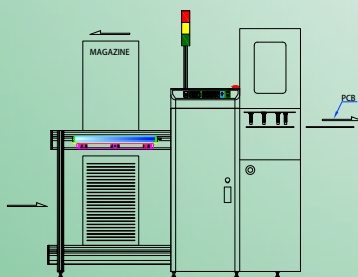
Options

- SMEMA cable.(additional)
- Magazine rack.
- Alternative suction cup size.
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety
- Other options available on request.

Structure



Schematic



	LDC250M	LDC330L	LDC390LL	LDC460XL
Machine Dimension (L x W x H)	1450 x 765 x 1520	1850 x 845 x 1520	2060 x 925 x 1520	2060 x 970 x 1520
Weight	210kg	260kg	310kg	370kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thinckness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 563	460 x 400 x 563	535 x 460 x 573	535 x 530 x 570
Fixed rail to front dimension(A)	340mm	340mm	340mm	340mm

* Customized is available

Knewtek PCB Handling Machines

Destacker Series

LDD 460XL



Descriptions

A large stack of unpopulated PCB's is placed above the ESD belt conveyor. Unique separation cams take one PCB from the bottom of the stack and lowers it onto the ESD belt conveyor.

Standard features

- PLC Program control.
- Short PCB cycle time.
- Thin PCB capability.
- Uninterrupted PCB charging.
- Pre-warning low stack sensor.
- Towerlight display for machine status.
- Smooth and parallel width adjustment.(lead screw)
- By-pass mode selectable without removing PCB stack.
- SMEMA compatible.

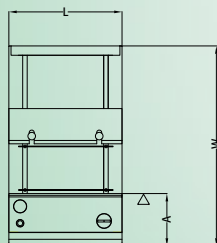
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max
- Air supply: 4-6 bar
- Air consumption: 10 ltr/min max.
- PCB cycle time: \pm 10 seconds
- PCB thickness capability: 0.8-4.0mm
- PCB stock capability: 240mm or specify

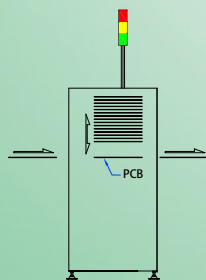
Options

- SMEMA cable.(additional)
- Extension for convenient stack loading.
- Cantilevered input - or output conveyor .(length 100 mm)
- Specific destacker for bare board unloading.
- Other options available on request.

Structure

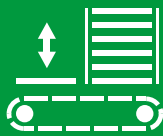


Schematic



	LDD460XL
Machine Dimension (L x W x H)	600 x 1035 x 1255
Weight	250kg
PCB length	50mm - 530mm
PCB width	50mm - 460mm
PCB Thickness	0.8mm - 4.0mm
Fixed rail to front dimension(A)	234mm

* Customized is available



BUFFER

Knewtek PCB Handling Machines NG OK Magazine Unloader Series

ULDC 250M • ULDC 330L



Descriptions

The PCB's are collected from upstream machine onto a shuttle conveyor and pushed into designated magazine. Shuttle conveyor moves sideways between upstream machine and magazines.

Standard features

- PLC Program control.
- Selectable pitch settings
- Good or bad board separation.
- Unique guide rail driven positioning of shuttle conveyor.
- Towerlight display for machine status.
- Additional magazines buffering capacity available upon request.
- Conveyor width adjustment using hand wheel.
- Automatic magazine alignment by upper- and lower pneumatic lamping.
- Regulated pressure on attached pneumatic pusher.
- User friendly "soft touch" LED membrane control panel.
- Pusher position adjustable to centre of the magazine.
- SMEMA compatible.

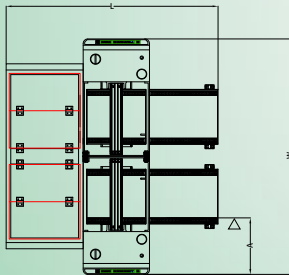
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 16m/min
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 500VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 10 ltr/min max.
- PCB unloading time: \pm 10 seconds
- Magazine change-over time: \pm 30 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.
- Max. total magazine weight: 50 kg each
* or specify

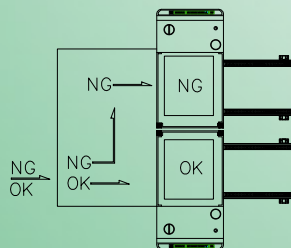
Options

- SMEMA cable.(additional)
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Enclosed construction improve level of safety.
- Servo drive upgrade for shortened cycle time.
- Other options available on request

Structure

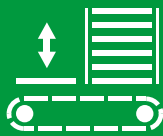


Schematic



	ULDC250M	ULDC330L
Machine Dimension (L x W x H)	1400 x 1550 x 1250	1850 x 1780 x 1250
Weight	220kg	320kg
PCB length	50mm - 330mm	50mm - 445mm
PCB width	50mm - 250mm	50mm - 330mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 560	460 x 400 x 560
Fixed rail to front dimension(A)	367mm	367mm

* Customized is available



BUFFER

Knewtek PCB Handling Machines Multi Function Buffer Stocker Series

STA 250M • STA 330L • STA 390LL • STA 460XL



Descriptions

The single magazine buffer can be used as a mid-line loader or unloader, as a LIFO/FIFO buffer or as a reject buffer.

Standard features

- 5 operation modes available:
 - [Buffer mode \(LIFO/FIFO\)](#)
 - [Unload mode](#)
 - [Load mode](#)
 - [Reject mode](#)
 - [By-pass mode](#)
- PLC Program control.
- Selectable pitch settings
- Dual function pusher conveyor
- Towerlight display for machine status
- Additional magazines buffering capacity available upon request
- Exchange magazine from the rear of the machine.
- Automatic magazine alignment by upper- and lower pneumatic lamping.
- Regulated pressure on attached pneumatic pusher.
- Pusher position adjustable to centre of the magazine.
- SMEMA compatible.

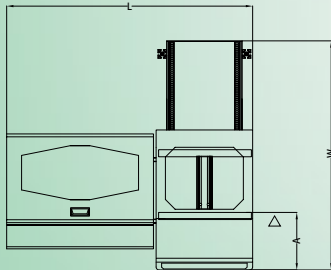
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 16m/min
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 350VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 15 ltr/min max.
- PCB loading time: \pm 6 seconds
- Pitch distance: 10.20.30.40mm pitch or specify.
- Max. total magazine weight: 50 kg each
* or specify

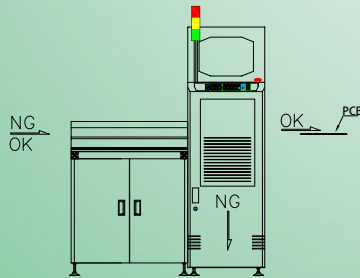
Options

- Magazine rack
- Additional magazine capacity.
- Touchscreen instead of button panel.
- Servo drive upgrade for shortened cycle time.
- Other options available on request

Structure



Schematic



	STA250M	STA330L	STA390LL	STA460XL
Machine Dimension (L x W x H)	1245 x 1175 x 1600	1460 x 1258 x 1600	1635 x 1450 x 1600	1635 x 1530 x 1600
Weight	140kg	200kg	240kg	280kg
PCB length	50mm - 330mm	50mm - 445mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 563	460 x 400 x 563	535 x 460 x 570	535 x 530 x 570
Fixed rail to front dimension(A)	270mm	270mm	270mm	270mm

* Customized is available



BUFFER

Knewtek PCB Handling Machines

LIFO Vertical Buffer Series

STB 390LL • STB 460XL



Descriptions

The LIFO buffer is designed to buffer PCB's in LIFO mode. The PCB's are buffered using durable rollers. The open design allows operator to manually remove the PCB's when used as good/bad separator or line unloader.

Standard features

- PLC Program control.
- Buffer in LIFO mode.
- Selectable pitch settings
- Conveyor width adjustment using hand wheel.
- Threshold signal to protect PCB's in upstream oven.
- User friendly "soft touch" LED membrane control panel.
- Towerlight display for machine status.
- SMEMA compatible.

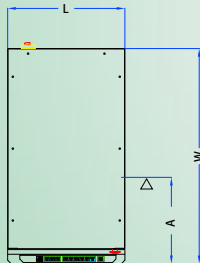
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 250VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 15 ltr/min max
- Cycle time: \pm 15 seconds
- Pitch distance: 25.4mm or specify
- Buffer capacity: 20 PCBs or specify

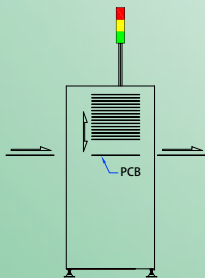
Options

- SMEMA cable.(additional)
- Touchscreen instead of button panel.
- Additional PCB boards capacity.
- Cantilevered input- or output conveyor (length 500 mm).
- Cooling system / dust cover for input / output conveyor.
- Other options available on request.

Structure

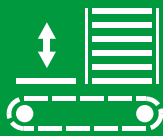


Schematic



	STB390LL	STB460XL
Machine Dimension (L x W x H)	500 x 917 x 1560	650 x 1150 x 1560
Weight	150kg	210kg
PCB length	50mm - 455mm	50mm - 530mm
PCB width	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.0mm	0.6mm - 4.0mm
Fixed rail to front dimension(A)	270mm	270mm

* Customized is available



BUFFER

Knewtek PCB Handling Machines Multi Function Buffer Series

STC 390LL • STC 460XL



Descriptions

The Multi function buffer is designed to buffer PCB's in FIFO LIFO and pass-through mode. The PCB's are transferred by special ESD rollers onto the pick-up location. Metal support bars lift the PCB carefully from the conveyor segment and stores them until downstream request.

Standard features

- PLC Program control.
- Selectable FIFO, LIFO and by-pass mode.
- Selectable pitch settings
- Conveyor width adjustment using hand wheel.
- Threshold signal to protect PCB's in upstream oven.
- User friendly "soft touch" LED membrane control panel.
- Towerlight display for machine status.
- SMEMA compatible.

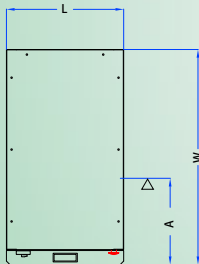
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round of flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 250 VA max
- Air supply: 4-6 bar
- Air consumption: 15 ltr/min max
- Cycle time: \pm 15 seconds
- Pitch distance: 20mm or specify
- Buffer capacity: 25 PCBs or specify

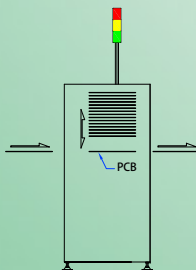
Options

- SMEMA cable.(additional)
- Reject mode for buffering bad board.
- Additional PCB boards capacity.
- Touchscreen instead of button panel.
- Electrical conveyor width adjustment.
- Automatic conveyor width adjustment.
- Cantilevered input- or output conveyor (length 500 mm).
- Cooling system / dust cover for input / output conveyor.
- Other options available on request.

Structure



Schematic



	STC390LL	STC460XL
Machine Dimension (L x W x H)	500 x 917 x 1560	600 x 1150 x 1560
Weight	210kg	280kg
PCB length	50mm - 455mm	50mm - 530mm
PCB width	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.0mm	0.6mm - 4.0mm
Fixed rail to front dimension(A)	270mm	270mm

* Customized is available



BUFFER

Knewtek PCB Handling Machines NG OK Vertical Buffer Series

STD 250M • STD 330L • STD 390LL



Descriptions

The NG OK vertical buffer is designed to buffer NG and OK board after inspection machine (AOI / SPI) and pass a OK board to next process. NG board will go to the upper conveyor for visual check.

Standard features

- PLC Program control.
- Selectable FIFO, LIFO and by-pass mode.
- Selectable pitch settings
- Conveyor width adjustment using hand wheel.
- Threshold signal to protect PCB's in upstream oven.
- NG/OK table provides easy access to the NG PCBs
- Towerlight display for machine status.
- Good or bad board separation.
- SMEMA compatible.

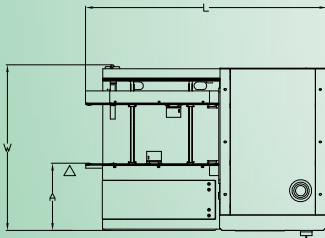
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 250VA max. or specify
- Air supply: \pm 15 seconds
- Air consumption: 4-6 bar
- Cycle time: 15 ltr/min max.
- Pitch distance: 20mm or specify
- Buffer capacity: 15 PCBs or specify

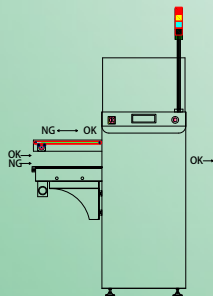
Options

- SMEMA cable.(additional)
- Additional PCB boards capacity.
- Touchscreen instead of button panel.
- Electrical conveyor width adjustment.
- Automatic conveyor width adjustment.
- Cantilevered output conveyor. (length 500 mm)
- Cooling system / dust cover for output conveyor.
- Other options available on request.

Structure



Schematic



	STD250M	STD330L	STD390LL
Machine Dimension (L x W x H)	1000 x 950 x 1560	1100 x 1075 x 1560	1200 x 1280 x 1560
Weight	150kg	220kg	280kg
PCB length	50mm - 330mm	50mm - 455mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm
PCB Thickness	0.6mm - 4.0mm	0.6mm - 4.0mm	0.6mm - 4.0mm
Fixed rail to front dimension(A)	270mm	270mm	270mm

* Customized is available



FLIP

Knewtek PCB Handling Machines Inverter Series

TRA 250M • TRA 390LL • TRA 460XL



Descriptions

This unit is used to invert / flip PCB's (180°) for 'double-sided' process.

Standard features

- PLC Program control.
- By-pass mode selectable.
- Pneumatic stopper to keep PCB in position during inverting.
- Smooth and parallel width adjustment.(lead screw)
- SMEMA compatible.

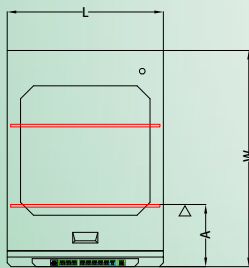
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 1.1 ltr/min max.
- Cycle time: \pm 8 seconds

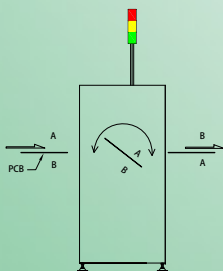
Options

- SMEMA cable.(additional)
- Cantilevered input- or output conveyor (length 500 mm)
- Cooling system / dust cover for input / output conveyor
- Touchscreen instead of button panel.
- Towerlight display for machine status.
- Other options available on request

Structure



Schematic



	TRA250M	TRA390LL	TRA460XL
Machine Dimension (L x W x H)	500 x 750 x 1250	600 x 880 x 1250	600 x 975 x 1250
Weight	120kg	160kg	185kg
PCB length	50mm - 330mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 390mm	50mm - 460mm
Fixed rail to front dimension (A)	240mm	240mm	240mm

* Customized is available

Knewtek PCB Handling Machines Traverser / Shuttle Conveyor Series

TRB 250M • TRB 390LL



Descriptions

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

Standard features

- PLC Program control.
- By-pass mode selectable.
- Customized traversing distance.
- Towerlight display for machine status.
- Frequency controlled traversing speed.
- Enclosed design ensures highest level of safety.
- Conveyor width adjustment by hand crank.
- SMEMA compatible.

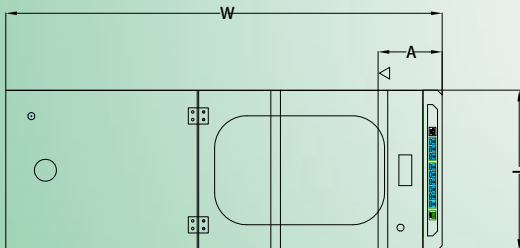
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 250VA max. or specify
- Cycle time: Depends on traversing distance

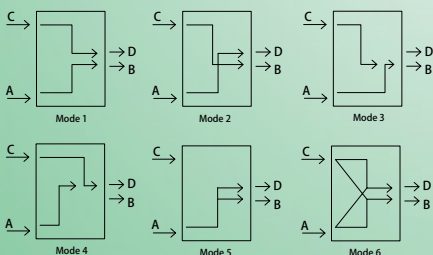
Options

- SMEMA cable.(additional)
- 2 transferring carts operation.
- Touchscreen instead of button panel.
- Customized traversing distance.
- Good - or bad board separation.
- Special spartion type for easy transportation and moving.
- Electrical conveyor width adjustment.
- Automatic conveyor width adjustment.
- Servo drive upgrade for shortened cycle time.
- Cantilevered input- or output conveyor .(length 500 mm)
- Cooling system / dust cover for input / output conveyor.
- Other options available on request.

Structure



Schematic



* Customized traversing distance (W)

	TRB250M	TRB390LL
Machine Dimension (L x W x H)	500 x W x 1050	650 x W x 1050
Weight	About 250kg	About 280kg
PCB length	50mm - 330mm	50mm - 457mm
PCB width	50mm - 280mm	50mm - 390mm
Fixed rail to front dimension (A)	200mm	200mm

* Customized is available

Knewtek PCB Handling Machines

Turn Conveyor Series

TRC 250M • TRC 330L • TRC 390LL • TRC460XL



Descriptions

The turn conveyor is designed to change the flow direction of a PCB assembly line. The PCB is transferred onto the built-in ESD belt conveyor, which turns either clockwise or counter-clockwise.

Standard features

- PLC Program control.
- By-pass mode selectable.
- PCB direction flows can be customized.
- Towerlight display for machine status.
- Enclosed design with built-in torque limiter ensures highest level of safety
- Conveyor width adjustment using hand crank.
- SMEMA compatible.

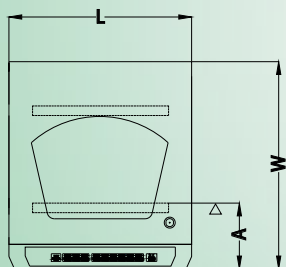
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max. or specify
- Cycle time: \pm 5 seconds

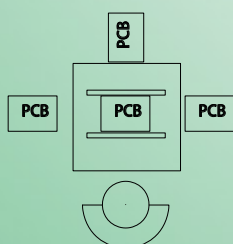
Options

- SMEMA cable.(additional)
- Good or bad board separation.
- Touchscreen instead of button panel.
- Cantilevered input- or output conveyor (length 500 mm).
- Cooling system / dust cover for input / output conveyor.
- Other options available on request.

Structure



Schematic



	TRC250M	TRC330L	TRC390LL	TRC460XL
Machine Dimension (L x W x H)	500 x 500 x 1200	580 x 580 x 1200	700 x 700 x 1200	750 x 750 x 1200
Weight	170kg	190kg	220kg	260kg
PCB length	50mm - 330mm	50mm - 450mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Magazine Dimensions (max.)	355 x 320 x 560	460 x 400 x 560	535 x 460 x 570	535 x 530 x 570
Fixed rail to front dimension(A)	180mm	180mm	180mm	180mm

* Customized is available

Knewtek PCB Handling Machines

Wave Solder Inloading Conveyor

MI 800



Descriptions

This conveyor is used to feed PCB's or pallets into wave soldering machine.

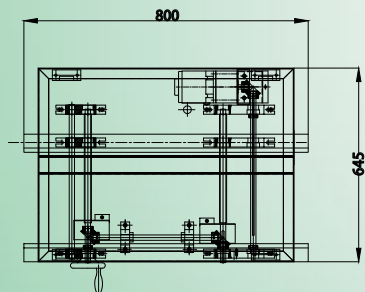
Standard features

- 800mm Aluminum conveying guide rail
- Pinchain (3 mm or 5 mm pins)
- Conveying motor with speed controller
- Smooth and parallel width adjustment.(lead screw)

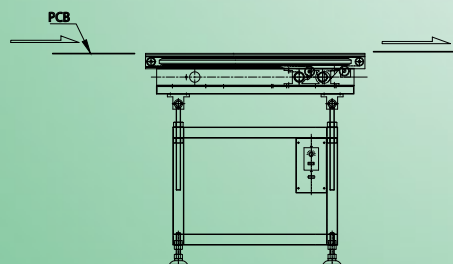
Technical specifications

- Transport height: 800mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyer concept: ESD belt
- Belt speed: 0-2m/min adjustable
- PCB edge support: 5mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max. or specify

Structure



Schematic



	MI-800
Machine Dimension (L x W x H)	800 x 645 x 750
Weight	60kg
PCB Width	50mm - 400mm
Conveying height	800 \pm 50mm

* Customized is available

Knewtek PCB Handling Machines

Wave solder unloader conveyor

MWN 1300



Descriptions

This conveyor is used to unload PCB's or pallets from a wave soldering machine with adjustable angle. Decline section presents PCB/pallet at standard height to downstream machine.

Standard features

- Aluminum conveying guide rail.
- 400mm belt
- Adjustable speed.
- Adjustable angle.
- Equipped with 2 groups of cooling fan.

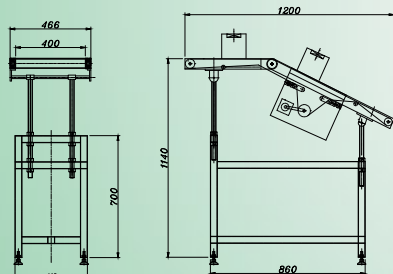
Technical specifications

- Transport height: 1150±50mm
- Transfer direction: Left to right
- Fixed rail: Front of the machine
- Interface: None
- Conveyor concept: ESD belt
- Belt speed: 0-2m/min adjustable
- Power supply: 220 VAC/50 Hz/1 Ph
- Power consumption: 200VA max

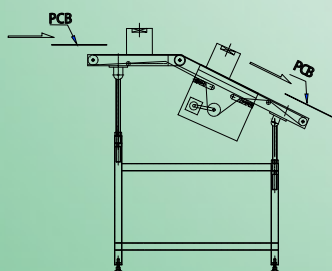
Options

- Mesh Belt instead of ESD Belt.

Structure



Schematic



	MWN-1300
Machine Dimension (L x W x H)	1300 x 485 x 1300
Weight	85kg
PCB Width	Max 400mm

* Customized is available

Knewtek PCB Handling Machines

Insertion conveyor Series

MI 3000



Descriptions

This unit is used to transport PCB and pallet for electronical production assembly line.

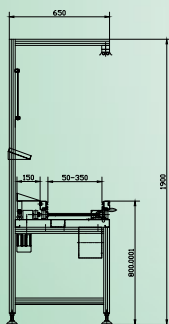
Standard features

- Aluminum conveying guide rail
- Conveyor width adjustment using hand crank
- Conveying motor driven by inverter
- Equipped with LED light
- Equipped with 2 component trays
- Equipped with process card bracket
- 35B pin chain(5mm)

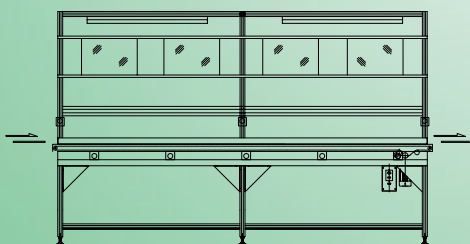
Technical specifications

- Transport height: 800±20mm or Specify
- Transfer direction: Left to right
- Operation side: Front of the machine
- Conveyor concept: Pin chain
- Belt speed: 0-5m/min adjustable
- Power supply: 220 VAC/50 Hz/1 Ph
- Power consumption: 150VA max. or specify

Structure



Schematic



Options

- Manual stop switch button.
- ESD ground socket.

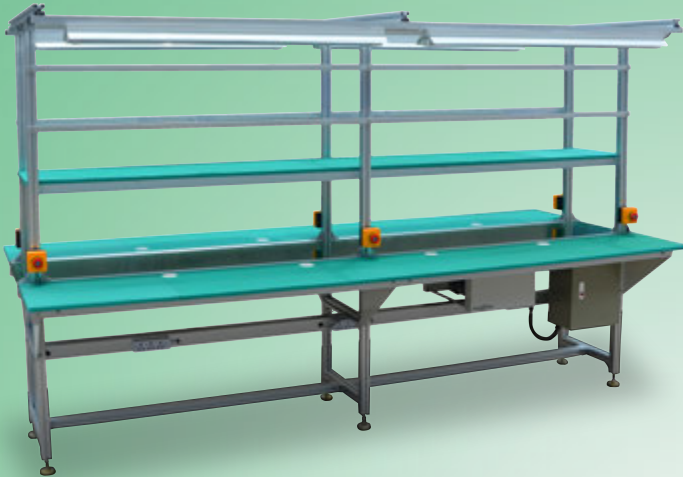
	MI-3000
Machine Dimension (L x W x H)	3000 x 650 x 1900
Weight	85kg
PCB Width	Max 350mm

* Customized is available

Knewtek PCB Handling Machines

ESD belt conveyor

BC 3000



Descriptions

This unit is used to transport PCB and pallet for electronical production assembly line.

Standard features

- Aluminum conveying guide rail
- 400mm width ESD belt
- Conveying motor driven by inverter
- Equipped with LED light
- Equipped with multifunction socket
- Equipped with process card bracket
- Equipped with tool storage plate

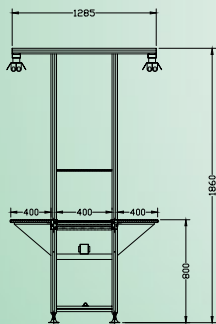
Technical specifications

- Transport height: 800mm \pm 20mm or Specify
- Transfer direction: Left to right
- Operation side: 2 sides of the machine
- Conveyor concept: ESD belt
- Belt speed: 0-5m/min adjustable
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 400VA max. or specify

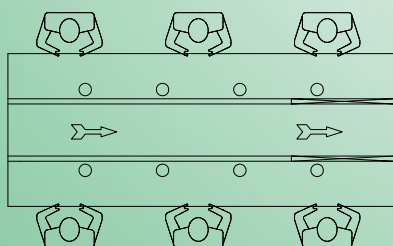
Options

- Manual stop switch button.
- ESD ground socket.

Structure



Schematic



	BC-3000
Machine Dimension (L x W x H)	3000 x 1285 x 1860
Weight	85kg
PCB Width	Max 400mm

* Customized is available

Knewtek PCB Handling Machines

Single Side PCB Cleaner Series

SPC 250M • SPC 330L • SPC390LL • SPC460XL



Descriptions

This unit can remove glass fiber, dust particles, etc. on top surface of PCB before solder paste printing, and improve production yield. Especially suitable for PCB which is mounted extremely small components

Standard features

- PLC Program control.
- On-line automatic clean.
- All types of dust can be removed.
- Adhesive clean roll removes all dust from rolls.
- Ionizer removes electric static on the PWB
- Draw-out design for Easy changing of adhesive rolls.
- Preset number of PCB & pre-warning counter to purge adhesive rolls.
- User friendly touch screen control panel.
- SMEMA compatible.

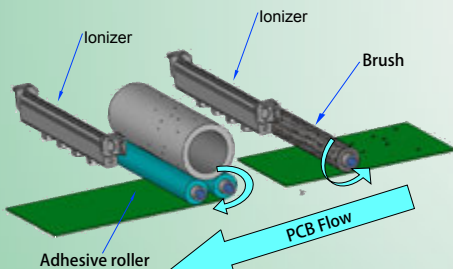
Technical specifications

- Transport height: 900mm \pm 30mm
- Transfer direction: Left to right
- Operation side: Front of the machine
- Fixed rail: Front of the machine
- Interface: SMEMA
- Conveyor concept: ESD belt (round or flat)
- Belt speed: 0.5-20m/min adjustable
- PCB edge support: 3mm
- Power supply: 230 VAC/50 Hz/1 Ph
- Power consumption: 150VA max. or specify
- Air supply: 4-6 bar
- Air consumption: 2 ltr/min max.
- Cycle time: \pm 8 seconds

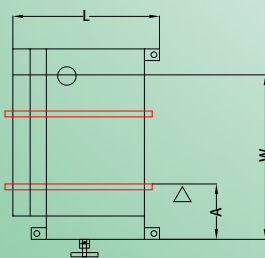
Options

- SMEMA cable.(1.5m or specify)
- Double side PCB processing.
- Electrical conveyor width adjustment.
- Automatic conveyor width adjustment.
- Other options available on request.

Clean Process



Schematic



	SPC250M	SPC330L	SPC390LL	SPC460XL
Machine Dimension (L x W x H)	550 x 650 x 1350	550 x 680 x 1350	550 x 780 x 1350	550 x 850 x 1350
Weight	170kg	185kg	220kg	260kg
PCB length	50mm - 330mm	50mm - 450mm	50mm - 530mm	50mm - 530mm
PCB width	50mm - 250mm	50mm - 330mm	50mm - 390mm	50mm - 460mm
PCB Thickness	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm	0.6mm - 4.5mm
Fixed rail to front dimension(A)	190mm	190mm	190mm	190mm

* Customized is available

Knewtek PCB Handling Machines

ESD Magazine Rack Series

E802 • E803 • E804 • E805 • E806 • E807 • E808 • E809



E802 SMT Magazine

Surface Resistance: 10^4 – 10^5 Ω
 Overall Size: 355*315*580, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 350*(80–250)mm.
 Side guide slot: depth 3.5mm, width 8mm, pitch 10mm
 The top and bottom board are made of plastic. Stationary type.
 Adjustable through screws.



E803 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 355*320*563, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 350*(50–250)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of metal.
 Gear track allow easy operation.



E804 SMT Magazine

Surface Resistance: 10^4 – 10^5 Ω
 Overall Size: 355*315*580, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 350*(80–250)mm.
 Side guide slot: depth 3.5mm, width 8mm, pitch 10mm
 The top and bottom board are made of plastic. Stationary type.
 Adjustable through screws.



E805 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 355*320*563, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 350*(50–250)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of Plastic.
 Gear track allow easy operation.



E806 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 460*400*563, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 460*(50–330)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of metal.
 Gear track allow easy operation.



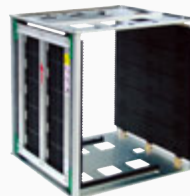
E807 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 460*400*563, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 460*(50–330)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of metal. Stationary type.
 Adjustable through screws.(Allowed to be put in ageing chamber)



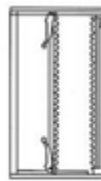
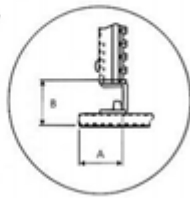
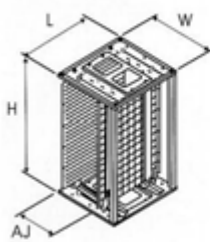
E808 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 535*460*570, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 535*(50–390)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of Plastic.
 Gear track allow easy operation.



E809 SMT Magazine

Surface Resistance: 10^4 – 10^6 Ω
 Common type and heat-resistance type are available.
 Overall Size: 535*530*570, Can accommodate 50 pieces of PCB.
 Specifications of PCBs to be accommodated: 535*(120–460)mm.
 Side guide slot: depth 3.5mm, width 5mm, pitch 10mm
 The top and bottom board are made of metal.
 Gear track allow easy operation.



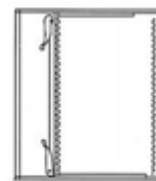
(50-250MM)



(50-330MM)



(50-390MM)



(120-460MM)

Model	Base	Adjust	Heat-resistan Temp(°C)	Outline Dimension(mm)			Ref.Position(mm)		Ad justable Width(mm)	Pitch	PCB Slots	PCB Size(mm)	Weight (kg)
	Material			Depth	Width	Height	A	B					
E-802	Metal	Screw Bolt	105	355	315	580	34	34	80–250	10	50pcs	350 x (50–250)	5.1
E-803	Metal	Rack & Pinion	85/125	355	320	563	34	34	50–250	10	50pcs	350 x (50–250)	5.6
E-804	Metal	Screw Bolt	85/125/200	355	320	563	34	34	50–250	10	50pcs	350 x (50–250)	5.7
E-805	Plastic	Rack & Pinion	85/125	355	320	563	34	34	50–250	10	50pcs	350 x (50–250)	4.1
E-806	Metal	Rack & Pinion	85/125	460	400	563	34	34	50–330	10	50pcs	460 x (50–330)	7.6
E-807	Metal	Screw Bolt	85/125/200	460	400	563	34	34	50–330	10	50pcs	460 x (50–330)	7.7
E-808	Metal	Rack & Pinion	85/125	535	460	570	34	41	50–390	10	50pcs	535 x (50–390)	10.5
E-809	Metal	Rack & Pinion	85/125	535	530	570	34	41	50–460	10	50pcs	535 x (50–460)	12.7



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