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TECHNOLOGIES

**Belt Conveyor | MI line | MI Line Module | Insertions Conveyor | Worktable | Workstation |
Inet Conveyor | Cooling/Outlet Conveyor | SMD Conveyor SMEMA**

Conveyors Systems

For PCB Assembly lines

ERGONOMIC AND VERSATILE, TRUSTED BY PROFESSIONALS



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Belt Conveyor Double Side Working - 9 Mtr (30')

(Length Customizable)



Features:

- **Dual-Sided Belt Design:** Simultaneously transports PCBs/components on both sides, doubling throughput.
- **Durable Construction:** Aluminum or powder-coated steel frame resists corrosion; 300 mm MS sheet worktop ensures stability.
- **Ergonomic Workspace:** Fixed working height (850 mm \pm 25 mm) reduces operator fatigue during assembly.
- **Adjustable Speed & Precision Control:** 2–6 M/min variable speed via VFD panel for process-specific tuning.

Works:

- **PCB Assembly Lines:** Transfers boards through soldering, inspection, testing, and packaging stations.
- **Component Handling:** Safely moves delicate electronics (e.g., SMD components) without static damage.
- **Multi-Stage Integration:** Syncs with pick-and-place machines, reflow ovens, or AOI systems.
- **Ergonomic Workstations:** Operators access boards at waist height (850 mm) for precision tasks.

Fire-Hazard Free — Built with Non-Flammable, Wood-Free Materials

Specification:

Specification	Description	Specification	Description
Conveyor Length	9 Mtr. (30')	Structure	Aluminum(40x40) or Powder Coated Steel Pipe(40x40)
Belt Width	400 mm	Conveyor Speed	2 to 6 Meters Per Minute (M/min)
Working Top Width	300 mm Steel sheet with ESD Mat	Lighting	LED Tube Light (Without Wiring)
Working Height	850 mm \pm 25 mm	Motor	Motor + Gear Box
Total Height	1950 mm \pm 25 mm	Panel	VFD Panel
Display Steel Board	For Magnetic Drawing Holder	Electric Socket	2 Switch & 2 Socket Combined Box – 1 Nos. every 6' without wiring
Material Bin Top	400 mm Shelf Steel Sheet with ESD Mat		

MI Line Motorized Single Side Working - 7 Mtr (24')

(Length Customizable)



Features:

- **Single Side Operator Access** – Enables simultaneous PCB handling/soldering by operators on single sides.
- **Adjustable Height & Trays** – 800mm (± 25 mm) ergonomic height + PCB-size-customizable bin trays.
- **Precision Speed Control** – 0.75–1.7 m/min variable speed via 3-phase motor.
- **Integrated Safety Systems** – Emergency stop, power-failure interlock, and MCB electrical protection.

Works:

- **PCB Assembly & Inspection:** Single-sided conveyor allows simultaneous soldering, testing, or quality checks by operators of the line.
- **Component Handling:** Adjustable bin trays secure PCBs of varying sizes during transit between stations (e.g., SMT placement, reflow ovens).
- **High-Precision Manufacturing:** Ideal for automotive, medical, or consumer electronics requiring controlled, safe movement of delicate assemblies.

Fire-Hazard Free — Built with Non-Flammable, Wood-Free Materials

MI Line Specification

Conveyor Length	7 Mtr. (24')	Front Channel	Fixed
Conveyor Height	2000 (± 25 mm adjustable)	Rear Channel	Mounted on adjustable rear channel so as to automatically
Working Height	900mm (± 25 mm adjustable))	Bin Tray	Adjust with PCB size for easy
PCB Size	50 mm – 350 mm	Lighting	LED Tube Light without wiring
Structure	Aluminum(40x40) or Powder Coated Steel Pipe(40x40)	Display Steel Board	For Magnetic Drawing Holder
Channel for Chain	Special Aluminum extrusion for low friction	Speed (variable)	0.75 to 1.7m/mm
Chain	extended pin with nylon roller dia. 11mm	Control Panel	provided to hold AC Drive, contactor start, switch
Working Platform	Powder coated Steel sheet	Motor	3 \emptyset induction motor

MI Line Module - 2.4 Mtr



Features:

- **Dual-Side Operator Access** – Enables simultaneous PCB handling/soldering by operators on both sides.
- **Adjustable Height & Trays** – 800mm (± 25 mm) ergonomic height + PCB-size-customizable bin trays.
- **Precision Speed Control** – 0.75–1.7 m/min variable speed via INVT AC Drive & 3-phase motor.
- **Integrated Safety Systems** – Emergency stop, power-failure interlock, and MCB electrical protection.

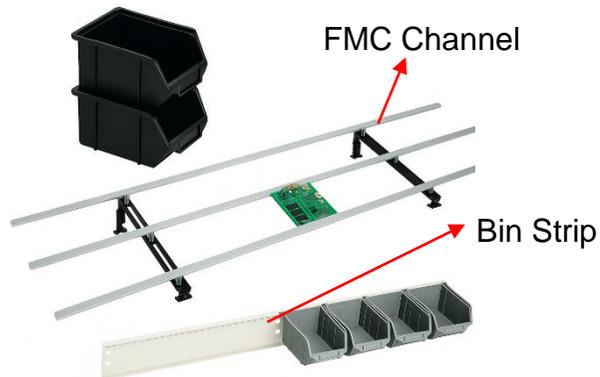
Works:

- **PCB Assembly & Inspection:** Double-sided conveyor allows simultaneous soldering, testing, or quality checks by operators on both sides of the line.
- **Component Handling:** Adjustable bin trays secure PCBs of varying sizes during transit between stations (e.g., SMT placement, reflow ovens).
- **High-Precision Manufacturing:** Ideal for automotive, medical, or consumer electronics requiring controlled, safe movement of delicate assemblies.

MI Module Specification

Conveyor	Single Sided –Chain Conveyor Module
Conveyor Length	2400 mm (Standard Size)
Overall Width	600 mm
Working Height	840 mm
Total Height	1900 mm
PCB Size	50 mm - 350 mm Adjustable
Front Channel	Fixed
Rear Channel	Adjustable
Structure	Aluminum(40x40) or Powder Coated Steel Pipe(40x40)
Speed (Variable)	Maximum 3 M/min
Component Bins	Bin Tray
Display Steel Board	For Magnetic Drawing Holder
Motor Drive	Gear Motor with Speed Control
Light Fixture	LED tube light without wiring

Insertion Conveyor



Features:

- **Adjustable Work Width (50 mm–350 mm)** – Flexible workspace for varied PCB sizes.
- **ESD-Safe Design** – Fixed trays with ESD mats
- **Optimized Material Handling** – Movable bins + hanging strips + Display Steel Board For Magnetic Drawing Holder to organized workflows.

Works:

- **Component Insertion:** Ideal for through-hole PCB assembly, enabling manual insertion of resistors, capacitors, and connectors at ESD-safe stations.
- **Inspection & Testing:** Transfers boards between QC checkpoints with static protection and adjustable width for diverse PCB formats.
- **ESD-Critical Environments:** Safeguards sensitive electronics in automotive/aerospace assembly with copper grounding and antistatic mats.

Specification	Description
Model	MPI 350
Length	1828 mm (6')
Working Height	850 mm
Total Conveyor Height	1800 mm
PCB Width	50 mm to 350 mm
Fixed Tray with ESD Mat	100 x 250 mm – Powder Coated – 15+15 Nos.
Bin Strip for Hanging	Included
Display Steel Board	For Magnetic Drawing Holder
Structure	Aluminium(40x40) or Powder Coated Steel Pipe(40x40)
Electrical Setup	Tube Light, Switch (Without Wiring)

Work Table



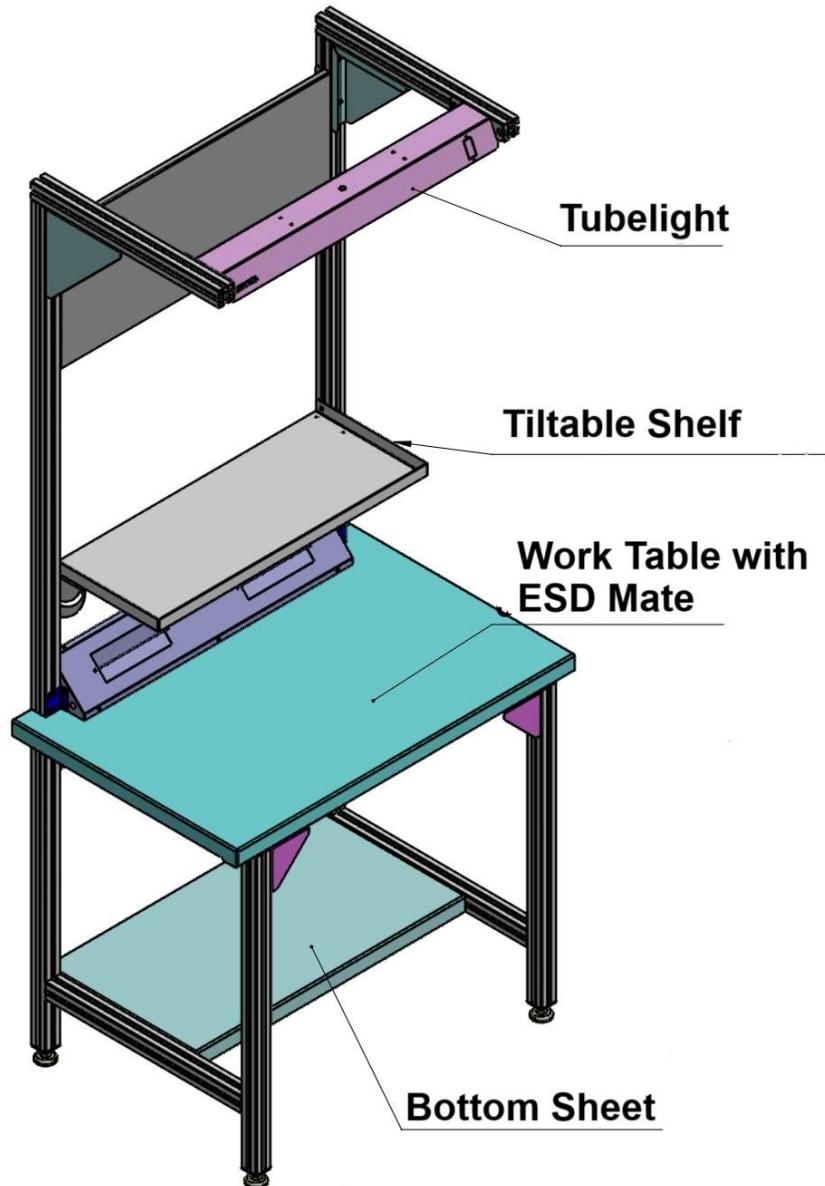
Description & Features:

Work table features a sturdy 40x40 mm aluminum frame with anodized finish, three laminated shelves (400 mm, 750 mm, and 300 mm deep), and a 2000 mm height. It includes a pin board, integrated power socket, and provision for tube lighting. Ergonomically designed at 900 mm work height, it offers stability, ample storage, and load capacity up to 200 kg, ideal for assembly and manufacturing tasks.

- **Sturdy Aluminium Frame with Anodized Finish**
Provides exceptional durability and corrosion resistance, ideal for industrial and electronics assembly environments.
- **Ergonomic 900 mm Work Height**
Promotes operator comfort and reduces fatigue during prolonged assembly, inspection, or packaging tasks.
- **Integrated Power Socket and Lighting Provision**
Facilitates the use of electrical tools and ensures proper illumination for precision work like soldering or testing.
- **Multi-Level Laminated Shelves with Pin Board**
Offers organized storage for tools, components, and documents, streamlining workflow and improving workstation efficiency.

Specification	Description
Frame Material	Aluminium Profile (40x40)
Frame Finish	powder-coated
Overall Length	1828 mm (Module) add-on
Bottom Shelf Size	400 x 1828 mm
Work Surface Size	750 x 1828 mm
Top Shelf (Self Sheet)	300 x 1828 mm
Total Height	2000 mm
Work Surface Height	900 mm
Display Steel Board	For Magnetic Drawing Holder
Load Capacity	Up to 200 kg (distributed)
Power Socket	Integrated power socket above work surface without wiring
Lighting	Tube light above pin board without wiring
Additional Features	ESD Antistatic Mat, adjustable feet, cable management, modular attachments

Work Station



Features:

- Modular & Customizable – Adjustable design to fit diverse layouts (hospital/factory/office).
- Lightweight & Durable – Aluminum profile construction ensures strength with easy mobility.
- Ergonomic Workspace – Designed for user comfort in prolonged working conditions.
- Multi-Application Use – **Suitable for assembly, packaging, or administrative tasks.**

Works:

- Industrial Assembly – Supports assembly lines in factories for electronics, automotive, or machinery.
- Medical/Hospital Use – Sterile workstation for equipment handling or lab work.
- Office Workstations – Modular desks or collaborative workspaces in corporate environments.
- Packaging & Logistics – Efficient sorting/packing stations in warehouses.

Specification	Description
Model	ET 600 WT
Material	Aluminium Profile
Table Top	600 mm (W) x 900 mm (L)
Work Height	800 mm (adjustable levelling)
Frame	Lightweight aluminium profile
Surface Finish	Deburred, edges smoothed
Shelf	Angle adjustable Shelf
Power Socket	Integrated (without wiring)
Lighting	Tube light (without wiring)
Display Steel Board	For Magnetic Drawing Holder
Levelling	Adjustable feet
Applications	PCB soldering, assembly, testing
Customization	ESD mats, shelves, extensions

SMD Conveyor SMEMA

Description and Features:

This SMD conveyor is designed for manual component insertion, inspection, and transfer of PCBs in ESD-sensitive environments. It features an adjustable work width, static-safe workstations, dual-motor speed control, and organized material handling — making it ideal for modular and hybrid SMT assembly lines.



- The SMT conveyor is used in production line of SMT it is easy to connect with other machine in SMT line like Stencil printer, Pick & Place Machines and Reflow Oven
- **Adjustable PCB Width (50–350 mm)** – Flexible workspace for varied PCB sizes.
- **ESD-Safe Design** – Fixed trays with ESD mats
- Gear Motor with adjustable speed
- **Inspection & Testing:** Transfers boards between QC checkpoints with static protection and adjustable width for diverse PCB formats.
- **Modular Assembly Lines:** Integrates with SMT lines for hybrid manufacturing (e.g., post-reflow insertion of non-surface-mount parts).

Specification:

Model	ET SMD 1000
PCB Width Range	50 – 350 mm
Conveyor Height	900 mm ± 25 mm
Guide Rail Length	1000 mm (Custom lengths on request)
Control System	Customized & Reliable
Lighting	(Optional)
Communication	SMEMA Signal Interface
Dimensions	1000 X 734 X 910 mm
Weight	45 Kg
Motor	Gear Motor with adjustable speed

Inlet Conveyor



Description and Features:

Inlet Conveyor is a specialized inlet assembly designed to seamlessly connect the **Manual Insertion (MI) line** to the **Wave Soldering Machine** in a PCB assembly line. Its primary function is to **catch the PCB boards from the MI line conveyor** and **accurately transfer them into the wave soldering machine** for the soldering process.

- Links the Manual Insertion (MI) line to the Wave Soldering Machine, ensuring smooth PCB transfer between processes.
- Designed to catch and guide PCBs securely from the MI line, preventing misalignment or board damage during transfer.
- Equipped with a high-accuracy bevel gear and shaft setup for synchronized movement and reliable rotation of rollers.
- Ensures consistent, controlled movement of boards toward the soldering machine, with minimal vibration. Built with an aluminium extrusion frame and a stainless-steel top platform, offering strength, stability, and corrosion resistance.
- Adjustable legs allow for proper alignment with different conveyor systems and surface levels.
- Simple integration into existing SMT/PCB production lines without major modifications.

Specification:

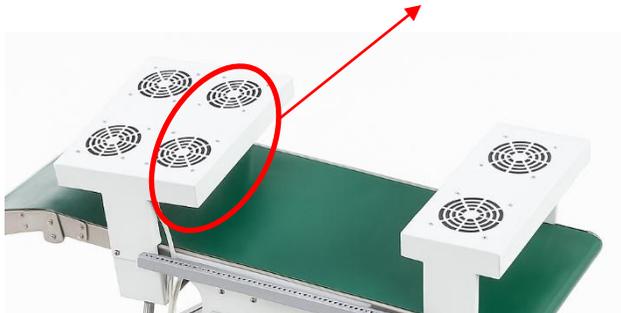
Model	ET 1000 EC
Frame Material	Aluminium profile structure
Top Plate	Steel Sheet
Drive Type	Motor-driven gear system
Linkage System	Chain-driven transmission
PCB Width	50 – 350 mm
Height	Adjustable at both end
Application	Between MI Line & Wave Soldering
Dimension	1000 X 610 X 850 mm
Weight	35 Kg



Cooling/Outlet Conveyor



2 Additional Fans (Optional)



Features:

Cooling Conveyor is a specialized unit designed to be placed **after the Soldering Machine** in a PCB assembly line. Its primary function is to **cooling down freshly soldered PCB boards** before they move on to touch-up, inspection, or testing processes.

- **Post-Soldering Cooling:** 4 high-efficiency fans (2 optional) rapidly cool PCBs post-wave soldering, preventing thermal damage.
- **Adjustable Ergonomics:** Height-adjustable ends (900–1400 mm) and 250 mm tiltable section for compatibility with diverse setups.
- **Precision Speed Control:** VFD-controlled belt speed ensures optimal PCB flow for testing/touch-up operations.
- **Compact & Lightweight:** 1350 mm length, 40 kg weight fits seamlessly into production lines without occupying excess space.
- **Wave Soldering Lines:** Transfers and cools PCBs immediately after soldering, minimizing thermal stress on components.
- **Testing & QA Zones:** Ensures PCBs reach testing equipment at safe temperatures, avoiding false failures.
- **High-Volume PCB Assembly:** a Integrates with automated lines for continuous cooling in automotive, consumer electronics, or industrial PCB manufacturing.

Specification:

Model	ET 1350 CC
Belt Width	400 mm
Total Length	1350 mm (250 mm tiltable + 1000 mm conveyor)
Height (Receiving End)	Adjustable from 1200 to 1400 mm
Height (Delivery End)	Adjustable from 900 to 1100 mm
Cooling Fans	4 Nos. (2 Optional)
Motor	90W speed adjustable Gear Motor
Speed Control	VFD (Variable Frequency Drive)
Application	Cooling of PCBs post wave soldering
Dimensions	1350 X 430 X 1300
Weight	40 Kg