

Main function

The ASI-0.5m Cooling Conveyor is a compact in-line PCB conveyor designed for linking, buffering, inspection, and controlled cooling within SMT production lines. With an integrated fan-based cooling system, the unit assists in reducing PCB temperature during transfer while maintaining stable and reliable board handling. The conveyor operates in both Manual and Automatic modes and supports SMEMA communication for seamless integration into existing SMT lines. Its compact 0.5-meter footprint makes it ideal for production environments where space efficiency and process stability are critical.

Key Features

- SMT line linking and buffering unit
- PCB inspection stop function
- Manual and automatic operating modes
- Exit position stop for manual inspection (RESET-controlled release)
- Automatic transfer upon downstream signal
- Cooling fans activated automatically upon PCB entry
- Integrated 145 mm front inspection workstation
- SMEMA communication compatibility



Technical Specifications

Parameter	ASI-0.5m Cooling Conveyor (Standard Width)	ASI-0.5m Cooling Conveyor (Wide Model)
Conveyor Length	500 mm	500 mm
Machine Dimensions (L × W × H)	500 × 650 × 1100 mm	500 × 750 × 1100 mm
PCB Size Range	50 × 50 mm up to 460 × 350 mm	50 × 50 mm up to 535 × 460 mm
PCB Width Adjustment	Manual handwheel adjustment	Manual handwheel adjustment
Transport Direction	Left to Right (Front rail fixed)	Left to Right (Front rail fixed)
Transport Height	900 +50 / -20 mm	900 +50 / -20 mm
Transport Rail	Special aluminum rail, 4.8 mm edge belt transfer	Special aluminum rail, 4.8 mm edge belt transfer
Maximum PCB Weight	Up to 2 kg	Up to 2 kg
Power Supply	AC 220V / 50–60 Hz (single electronic box control)	AC 220V / 50–60 Hz (single electronic box control)
Transport Motor	ZD 15W adjustable speed motor	ZD 15W adjustable speed motor
Control System	KEWEI PLC with Panasonic sensors	KEWEI PLC with Panasonic sensors
Cooling System	4 × 120 × 120 mm cooling fans mounted on rail	4 × 120 × 120 mm cooling fans mounted on rail
Cooling Operation	Fans operate only when PCB enters conveyor	Fans operate only when PCB enters conveyor
Inspection Station	145 mm front workstation	145 mm front workstation
Framework	1.5 mm welded sheet metal, powder coated (industrial gray)	1.5 mm welded sheet metal, powder coated (industrial gray)
Communication	SMEMA	SMEMA
Sensors	2 sensors	2 sensors
Motor Quantity	1 motor	1 motor
Operating Modes	Manual & Automatic	Manual & Automatic