

Single Lane Indexing Chain Conveyor

UK/Europe Specification Sheet





## **Standard Features Include:**

- ✓ Hygienic Open Washdown Construction: 316L stainless steel frame with IP65 rating, featuring smooth surfaces and minimal crevices for easy cleaning and full CIP (Clean-in-Place) compatibility.
- ✓ Recipe-Controlled Product Setup: Advanced HMI with recipe storage allowing instant changeover between different product configurations with zero manual adjustment.
- ✓ Variable Chain Pitch Technology: Precision-adjustable chain pitch from 100mm to 500mm accommodating specific tray sizes with ±1mm positioning accuracy.
- ✓ Full-Length Cantilevered Tray Guides: Self-adjusting guide system ensuring consistent tray alignment throughout the entire conveyor length without manual intervention.
- Advanced Ancillary Equipment Integration: Seamless integration with coders, printers, depositors, vision systems, and weighing equipment via industry standard communication protocols.
- i-Series Machine Integration: Fully compatible with MPE's i-Series production line equipment with synchronized control and data sharing capabilities.
- Secure Remote Access & Monitoring: Real-time performance monitoring, software updates, and KPI tracking via encrypted wireless connection with 24/7 technical support access.
- Precision Indexing System: Servo-driven chain positioning with ±0.5mm repeatability ensuring consistent tray placement for downstream equipment.
- Energy Efficient Design: Variable frequency drives and optimized motor selection reducing energy consumption by up to 35% compared to conventional systems.
- MADE IN UK: Manufactured to British engineering standards with local support and rapid parts availability.

## **Optional Features Include:**

Modular Length Configuration: Variable conveyor length from 3.36M to 18.36M using 1M and 2M modules for custom production line layouts.

- Integrated Electrical Outlets: Built-in power distribution for scales, sensors, and auxiliary 
  ✓ equipment with IP67-rated connections.
- Wire Basket Cable Tray System: Organized cable management system with easy access for 
  ✓ maintenance and modifications.
- Integrated Tray De-nester: Seamlessly integrated automatic tray feeding system eliminating manual tray loading.
- Multi-Lane Configuration: Expandable to 2, 3, or 4 lane configurations for increased throughput capacity.
- ✓ Vision Inspection Integration: Built-in mounting points and interfaces for quality control cameras and rejection systems.
- Product Counting & Tracking: RFID or barcode tracking system for complete product traceability 

  ✓ throughout production.
- ✓ Emergency Stop Safety System: Comprehensive safety system with light curtains and emergency stops positioned every 2 metres.

## **Technical Specifications:**

Dimension	Standard	Range
Height	1900mm	1800mm - 2200mm
Width	850mm	Fixed
Length	3360mm	3360mm - 18360mm
Chain Pitch	Variable	100mm - 500mm
Positioning Accuracy	±0.5mm	Standard
Maximum Speed	60 cycles/min	Variable
Tray Size Range	100-400mm	Length x Width
Load Capacity	5kg per tray	Standard

**Electrical Supply:** 400V 3 Phase + Neutral (fused at 16A)

Power Consumption: <3kW during operation

Communication: Ethernet, Profibus, DeviceNet compatible

Safety Rating: 3 Safety System







- © 01663 732700
- □ sales@mpe-uk.com
- www.mpe-uk.com
- Unit 1, Bowden Lane Industrial Estate Chapel-en-le-Frith, Derbyshire SK23 0QF