

PALLET HANDLING AND CONVEYING SOLUTIONS

MODULAR PALLET HANDLING CONVEYORS WITH EXCELLENCE BUILT IN



Keymas offer a range of Chain Driven Pallet Handling Conveyors based on a modular design to provide cost effective, flexible systems that can be easily interfaced with virtually all kinds of materials handling equipment - such as AGV's, stacker cranes, robotic handling systems and lift trucks.

With handling capacities up to 1500kg / per metre, Keymas pallet conveyors are capable of moving Euro pallets, flat board and a variety of heavy products in simple transportation, along with storage and zero pressure accumulation applications. Modules can be supplied in various roller pitch and width to suit individual pallet sizes, and the height of the conveyor can be easily altered to provide for safe off-loading and at an optimum ergonomic height for order picking from the conveyor.

The full range of powered roller conveyors can be developed into an integrated system with the inclusion of turntables, chain transfer units, pallet magazines, vertical elevators and shuttle cars.

High strength side frames are finished to customer colours and the flexibility of motor positioning and enhanced built in safety features contribute to the success of the range.

Control & Automation Systems

Keymas Control and Automation specialise in providing cost effective customised controls and conveyor systems to ensure full track and traceability, sortation sequences, check and weighing systems, data processing and report generation.

Keymas controls allow a high degree of flexibility and easy installation to interface with a wide variety of communication protocols, applications and third party hardware or software.

Visit our website: www.keymas.co.uk



Control & Automation Systems



Pallet Conveyors fed by Shuttle Car



Pallet Conveyor incorporating Strappers



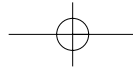
Shuttle/Transfer Cars



Interfacing with Warehouse Cranes



Heavy Duty Twin Chain for Stillages



Keymas Pallet Handling Conveying Solutions

The modular Chain Driven Pallet Handling Conveyor range enables Keymas to provide cost effective pallet handling solutions, designing and integrating units into highly efficient conveying systems with full controls to meet customers specific individual requirements.

Pallet conveyors are designed to comply with Health & Safety Standards and are manufactured to be durable, reliable and flexible, enabling systems to be cost effectively re-configured to meet any changes in future handling requirements.

Chain driven pallet conveying modules offer many benefits and features including:-

- Non contact pallet accumulation
- Comparitively low operational noise
- Simplifies installation
- Durable and robust design
- Proven reliability
- Customer choice of paint colour



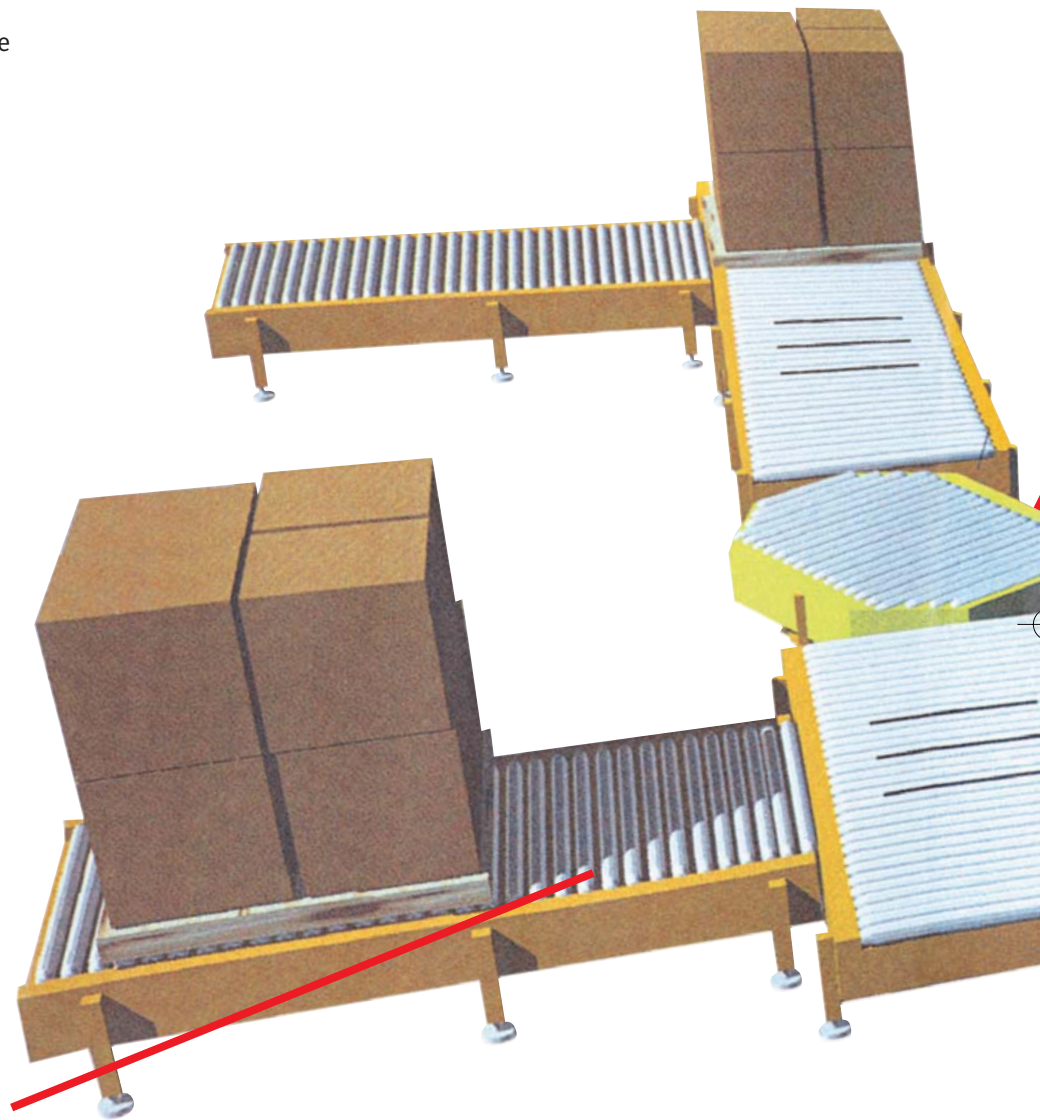
Straight Track

Side frames are manufactured from robust 4mm mild steel angle to form a strong box section, which incorporates integral sideguards.

Roller drive is obtained by interconnecting roller sprockets with precision chains, which are located inside the box section structure to form the required safety guarding.

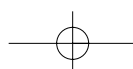


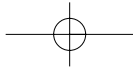
Each track length is supplied complete with connecting link to continue the drive at the joint position and all required fixing points.



Standard Technical Specifications

- | | |
|---------------------|--|
| Modules: | - Widths: 800mm; 1000mm; 1200mm
- Lengths: 1587mm lengths or multiples
- Optional adjustable height supports
- Side or End loading capability |
| Side Frames: | - 4mm thick mild steel box section 70mm wide x 130mm deep, with integral side guards |
| Capacity: | - Loads up to 1500kg per metre |
| Rollers: | - Diameter 63.5mm on 158.7mm pitch
- Zinc plated rollers fitted with guide discs
- Sealed for life precision bearings
- Fitted with 21 tooth 1/2" pitch sprockets |
| Speed: | - 10 metres per minutes |





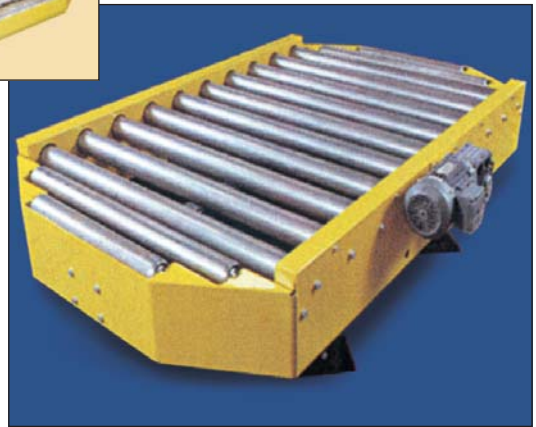
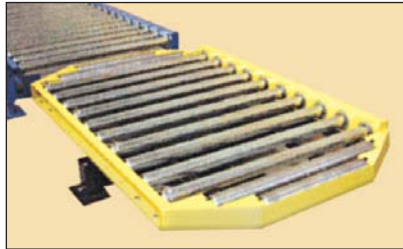
Turntables

Turntables are available in three standard modular widths and comprise of a 1953mm straight conveyor section with side mounted 0.25 kW. drive unit. Rollers at each end are reduced in length to assist product transfer from turntable to fixed conveyors.

The turntable conveyor section is mounted onto a 0.18kW. motorised slewing ring which can rotate through any angle, but the standard design allows for angles of 90 and 180 degrees.

The complete unit is supported on a fabricated framework with screw type levelling adjustment to allow for any floor undulation.

- 350mm minimum top of roller height.



Chain Transfer Unit

There are two types of chain transfer units, one used for transferring at 90 degrees and the other for transferring from one conveyor to another - both run parallel.

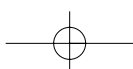
Units are available in three standard widths with optional double or triple strand duplex chain and bi-directional operation if required. Stand alone chain transfer units can be supplied or built-in to a special 1740mm length of straight track.

Chains are raised and lowered mechanically by four main control lifting cams, driven by a 0.75kW. drive unit.

This heavy duty robust chain transfer unit is designed to transfer loads of up to 1500kgs, easily and economically. Where light loads or the transfer of empty pallets is required, we are able to offer a medium duty pneumatically lifted roller transfer unit.



CUSTOM BUILT UNITS: In providing pallet handling and conveying solutions, Keymas can provide custom designed units and systems to suit customers specific handling requirements.



CONTROL & AUTOMATION

PLC A Keymas Intelligent Conveyor System can be integrated with ANY PLC based on customer requirement.

PC Keymas Software & Control System is the intelligence behind our Modular Conveyor systems. This integrated software solution provides functions such as SMART ROUTING, MONITORING, DATA PROCESSING and REPORT GENERATION that enables the system to operate smoothly without unnecessary downtime and have power to control and monitor our line from your own workstation.

Keymas controls allow a high degree of flexibility and easy installation as it can be easily interfaced with a wide variety of communication protocols, applications and third party hardware or software.



Typical screen layouts developed for customer Sortation Systems and Warehouse Management Systems (WMS).

APPLICATION

- Pick to monitor
- Pick to light
- Selective distribution sorting
- FIFO sorting
- Height sorting
- Vision sorting
- RFID sorting
- Colour sorting

FEATURES

- Easily configurable routes and settings
- Equipped with data management tools
- Easy-to-use modification and debugging utilities
- Data analysis and reporting tools
- User-friendly graphical interface
- Flexible communication facilities that support remote access through Internet etc
- Compatible with various hardware and third-party software
- Security features for multi-level access
- Fast and real-time information retrieval
- Comprehensive system for any material handling and distribution solution



Control & Automation Systems

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