

Manufactured to the highest standards the Pentamaster products utilise the latest data-architecture concepts and devices to enable the conveyor system to make intelligent decisions in auto routing, sorting, remote monitoring and control of product movements on the manufacturing

line. The system is very flexible, easy to install with minimum maintenance requirements, and can provide handling solutions for various industries.

FEATURES AND BENEFITS OF INTELLIGENT CONVEYOR SYSTEMS

- Low power consumption
- Easily expandable conveyor lines
- Flexible & cost effective
- Compact and improves use of space
- Complete material handling and distribution solution including intelligent software controls
- Achieve smoother, efficient material handling and distribution
- Minimal maintenance required
- Easy to install
- Equipped with PTM (Pick to Monitor), the cost effective alternative to Pick To Light system
- Multiple conveyor and heavy duty or high elevation supports
- Designed with safety features

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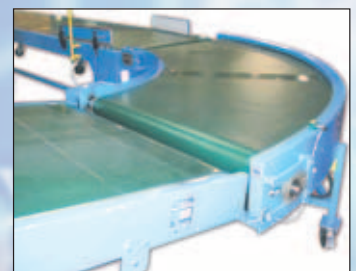
Powered Roller Conveyor for transportation and accumulation



Switches and Mergers for routing



Belt Conveyors for transportation (Inclined/Declined/Horizontal)



Belt Bends to convey through 90° and 180°



Continuous Elevators and Transfer Lifts



POWERED ROLLER CONVEYORS

Modular Powered roller conveyors are flexible, robust and highly efficient. For maximum distribution capabilities, these units provide a versatile combination of different types of conveyor sections that enable multi-level distribution and diversion for optimum usage of space.

Advantages of Intelligent Conveyor Systems

- Low power consumption
- No noise is generated
- Maintenance free
- Flexible in modifying zone length and bed length
- Able to run with bi-directional movement
- Low risk for safety concern
- Better outlook
- Less hardware is needed

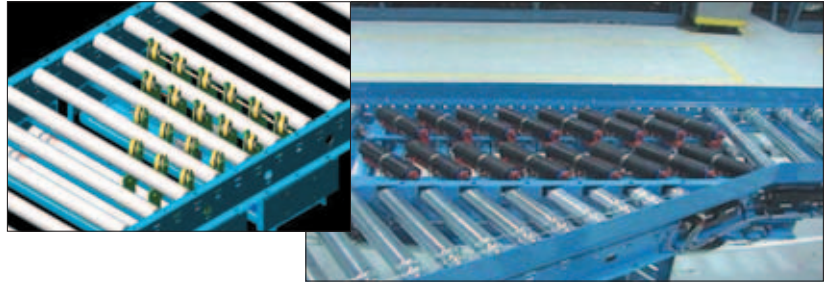


GENERAL SPECIFICATIONS

Roll diameter	: 25mm for gravity conveyor only : 50mm for gravity and drive conveyor (carton/tote) : 75mm for pallet conveyor
Minimum between frame (BF) size	: 100mm. Drive roller conveyor min. BF is 300mm
Minimum overall width of bed (OAW)	: 164mm. Drive roller conveyor min. OAW is 364mm
Minimum size of product conveyed	: 200mm in travel length
Minimum weight of product conveyed	: 1.0kg
Maximum weight of product conveyed	: 1000kg determined by application
Product conveyed surface	: Flat and solid
Speed	: Adjustable
Drive	: Motorised Powered Rollers, Lineshaft or Belt

DIVERTER / SWITCH BED

Diverter/ Switch Bed allows product to flow continuously where a conveyor diverts or transfers product into a spur line.



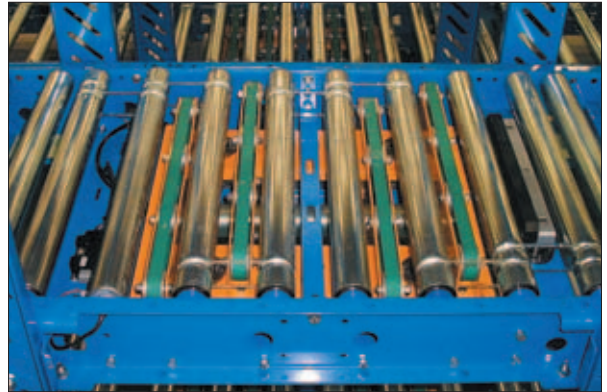
TURN TABLE / ROTATOR

The Turn Table / Rotator enables the unit to be re-orientated in to 90 or 180 degrees, before proceeding to the next location.



BELT AND CHAIN TRANSFERS

The transfer mechanism is raised between the rollers to transfer product at 90° to the original direction of travel.



VERTICAL LIFTER / MULTIPLE UNITS LIFTER

The Vertical Lifter makes effective use of the space available when developed as an integral part of a conveyor system. Vertical Lifts are safe, sturdy and effective in distributing product to different levels.



CONVEYOR ELEVATORS



SINGLE UNIT TRANSFER LIFTER

AUTOMATIC PICK AND PLACE HANDLER

The Automatic Pick and Place Handler can be custom designed based on product specification and process requirement. Using pneumatic motion control or motorised motion control for Z-axis, the Automatic Pick and Place Handler is able to give you high through put and consistency.

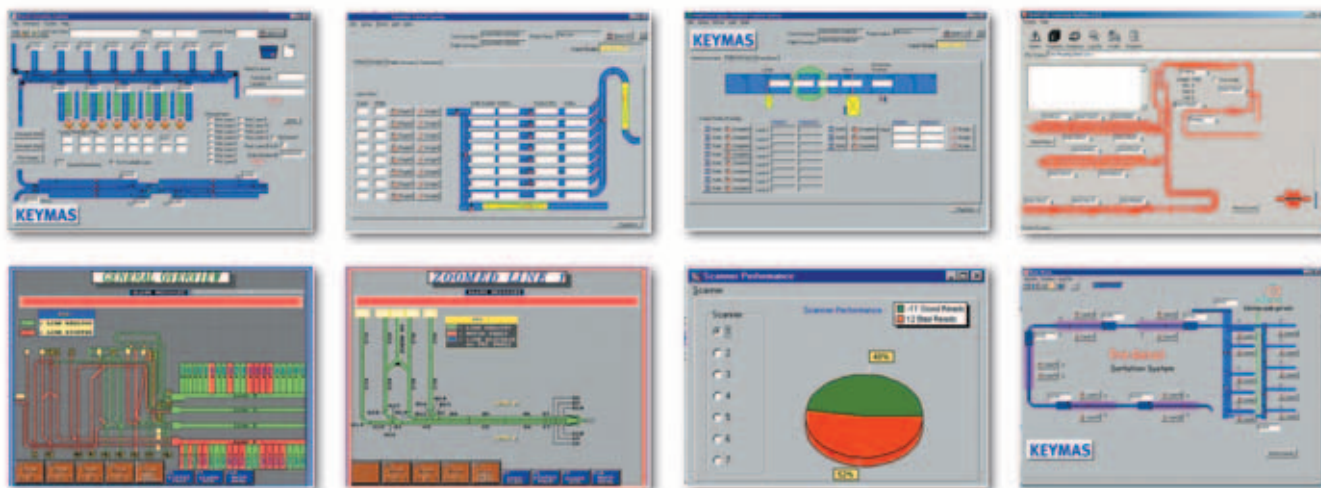


CONTROL & AUTOMATION

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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