

DIGITAL CONVEYOR™

The Intelligent Solution That Thinks For Itself

BASIC DIGITAL CONVEYOR™

Basic Digital Conveyors™ use a simple network of smart photocells with built-in logic that can provide both package spacing and train transport.

Applications: Systems requiring low cost simple transport, package spacing, and zero pressure accumulation.

TRACKING DIGITAL CONVEYOR™

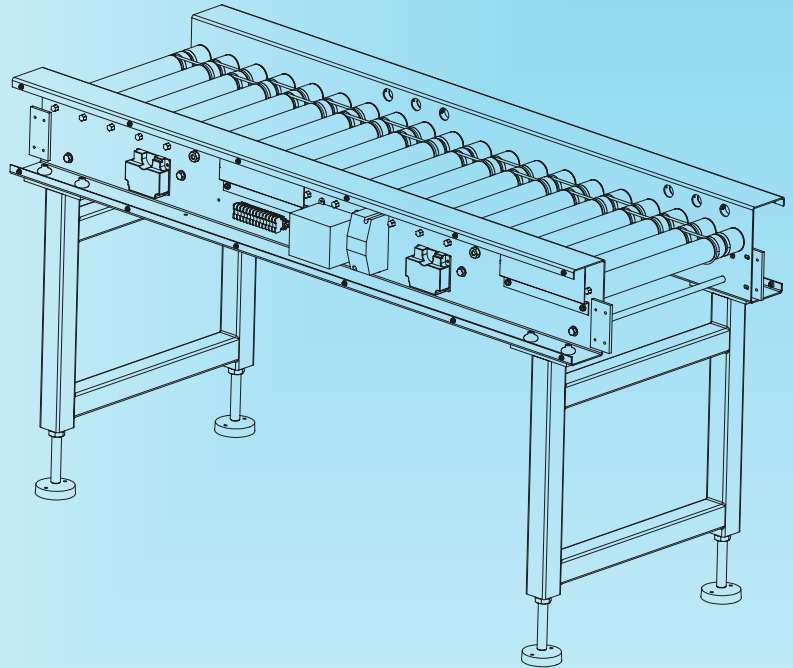
Tracking Digital Conveyors™ use a digital communications network to monitor the status of a single package throughout the conveyor system.

Applications: Systems requiring sortation or labeling of packages as well as package spacing and accumulation.

SMART DIGITAL CONVEYOR™

Smart Digital Conveyors™ use a digital communication network to monitor and direct packages throughout the conveyor system and to adjust zone properties in response to changing conditions.

Applications: Systems requiring package tracking and dynamic reconfiguration such as reversal of travel (i.e. receiving in morning, shipping in afternoon).



Reduce Installation Costs
Reduce Operation Costs
Increase Productivity
Eliminate Throughput Variance

Plug and Play Installation
Drag and Drop Programming
Intelligent Zoning

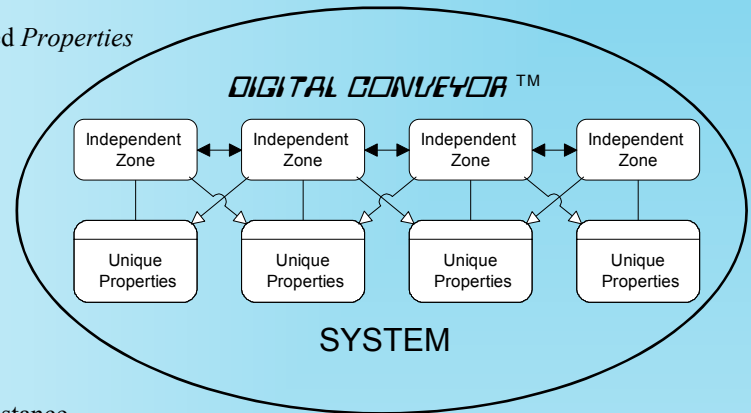
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WE SOLVE PROBLEMS!

Digital Conveyor™ systems contain a multiplicity of zones that

- Are capable of independent operation
- Have a set of definable operating characteristics called *Properties*
- Are capable of implementing their own Properties
- Know the Properties of immediately adjacent zones
- Know how to work with adjacent zones to achieve the goals of the system



The **DIGITAL CONVEYOR™** Advantages:

- Lowered Cost of Acquisition
Digital Conveyors™ can be installed without assistance from specialized service crews. Design, installation, and configuration time is greatly reduced thanks to Plug and Play capability. Programming efforts are simplified with the forthcoming Drag and Drop Programming capability.
- Lowered Cost of Operation
Power consumption is reduced through the use of low energy-consuming prime movers. Maintenance costs are lowered through the use of readily maintainable parts. Drive and sensor components among Digital Conveyor™ models are common, reducing spare parts costs.
- Increased Productivity
Digital Conveyors™ reconfigurable layouts and control methods allow the system to adapt to changing application requirements. Intelligent transport provides optimal delivery of packages to their demand stations. Gaps and build-ups in the production line are eliminated. Throughput becomes controlled and manageable.
- Flexible Design
Digital Conveyor™ models can be mixed to meet the needs of the system. Use BASIC design for low cost transport on long runs where package tracking is not required. Use TRACKING design for branches or subsystems where package tracking is required. Use SMART design for systems and subsystems where predictive diagnostics or operational reconfigurability is required.
- Flexible System Configuration
Property Lists provide a simple and direct way to configure conveyor section and zone operation, reducing mistakes, reducing programming costs, and accelerating system configuration. SMART Digital Conveyors™ can also be reconfigured during operation over a network, providing a mechanism for system functionality in multiple travel paths, including reverse.
- Seamless Integration
Digital Conveyor™ models can be integrated into existing conveyor systems with full functionality by means of Handshaking properties such as *RTS/CTS*, *X-Sync*, *RUN/STOP*, and *READY/NOT READY*. Mode properties such as *slug*, *singulate*, *overlap*, *merge*, *diverge*, and *sort* also help integrate these other system elements.

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