



**NORTHAMCON** INC

**24  
VOLT  
CONVEYOR**

**24  
VOLT  
CONVEYOR**



# WHY 24V?

**POWER SAVINGS:** Since it is run on demand (meaning when a package or part is not present in a zone the zone shuts down) a 24V system uses very little power. Some studies suggest a 40 - 80% power savings per year depending on the application.

**LOW PROFILE:** Height profile of the conveyor can be 7" or lower, depending on the conveyor model.

**QUIET:** With very few moving parts, ABEC bearings, urethane belt drive bands, and the "run-on-demand" feature, 24V DC conveyor is very quiet. This is very helpful when working in a packing line or when a low decibel environment is necessary.

**NO AIR NEEDED:** If your system does not have air available or the compressor is too small to handle pneumatic components, you can opt for a fully electric system by using 24V accessories.

**VIRTUALLY NO MAINTENANCE:** Since there are very few moving parts and ABEC bearings, the system requires very little maintenance.

**EASY REPLACEMENT:** If a part does come to the end of its life, all components are easily removed using connectors or standard hardware. All drives and motors are mounted to allow for easy access.

**EASY INSTALLATION:** 24V conveyors ship fully assembled with only a few simple connections to be made. Power supplies and power distribution cabling are included.

## Case Handling

Motor Driven Roller Conveyor

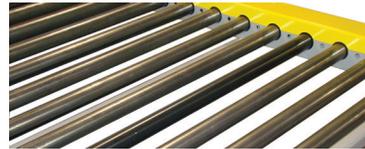


Flat Motor Driven Roller Conveyor



## Pallet Handling

Chain Driven Motor Driven Roller Conveyor



Chain Driven Flat Motor Conveyor



## Flex Conveyor

Flexible, Expandable, Portable Powered Roller Conveyor



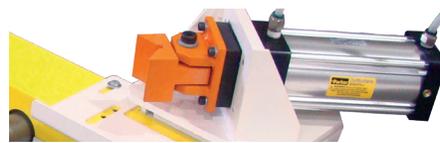
Side Guides



## Accessories



Lift Gates: Manual, gas shock, spring and pneumatic actuated



Crowders and other product positioning devices



Divert tables: 30° and 45°, pneumatic and 24V actuated

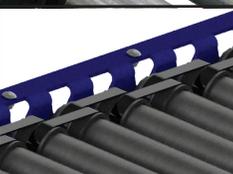


Transfers: Urethane and timing belt, pneumatic and 24V actuated



Divert arm: 30° and 45°, pneumatic actuated

# CONVEYOR MODELS

Conveyor	Model	Drive Method	Load Capacity (Per Product)	Between Frame Width Range (Inches)	Speed Range (Feet Per Minute)
	MO-1.9 & FO-1.9	O-Ring Belt	Up to 100 lbs	13" to 39"	Up to 180
	MP-1.9 & FP-1.9	Poly-Ribbed Belt	Up to 600 lbs	13" to 54"	Up to 180
	MP-2.5 & FP-2.5	Poly-Ribbed Belt	Up to 3,000 lbs	13" to 54"	Up to 60
	MC-1.9 & FC-1.9	RC40	Up to 900 lbs	13" to 54"	Up to 120
 <small>*OPERATING NOTE</small>	MC-2.5 & FC-2.5	RC40, 50 or 60 Chain	Up to 3,000 lbs	13" to 54"	Up to 60
	FX24 -1.4 & FX24 -1.9	O-Ring Belt	Up to 100 lbs 1.4 = 50 lbs 1.9 = 100 lbs	18", 24", 30"	Up to 150

Parameters shown are considered standard. If your application parameters exceed what is shown, contact NAC.

\*IN THE MODELS MC-1.9 AND MC-2.5 PRODUCT IMAGE THE GUARD IS REMOVED FOR CLARITY, GUARD MUST BE IN PLACE BEFORE OPERATING EQUIPMENT.

# CONTROLS

## Power supplies

- 24V DC in
- 460V 3-phase, 230V 1-phase, 115V 1-phase available input voltage
- NEMA 12 enclosure
- Through door disconnect

## Positioning

- Positioning proxes or limit switches available
- Mounted at the factory

## J-Boxes

Proxes, limit switches, valves, and photo-eyes can be wired back to a terminal strip at the factory for convenient and quick field installation.



## Work station hold

Selector switch mounted inside of a control box and wired at the factory. Allows for a worker controlled hold in a work area. All zones function normally after the work station hold.

## Z-Control and MDR automated drive cards

Standard ZPA logic allows for non-plc controlled zero pressure accumulation.

## Programmable MDR drive card

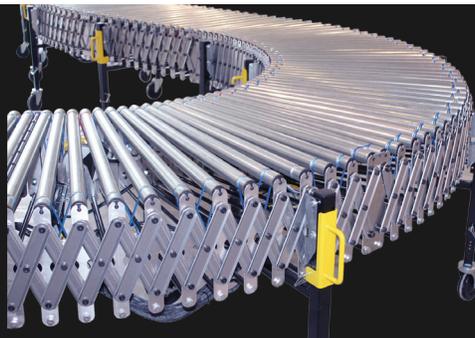
- Programmable with a software download and ladder logic
- EtherNet/IP conformance tested
- Configures easily in RSLogix 5000(tm) using an available add on profile

## Disabling an open gate

- Mounted and wired prox/relay cut power to a lift gate when in the up position.



**24V SILO:** For down service elevation changes and vertical accumulation of round product.



**Powered Flex Conveyor** rollers driven by high-tension, urethane O-rings bands



**Narrow belts** over MDR rollers.



**Parts**



**Multi-tier high density accumulation conveyor.**