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.
## CONVEYOR MODELS

<table>
<thead>
<tr>
<th>Conveyor</th>
<th>Model</th>
<th>Drive Method</th>
<th>Load Capacity (Per Product)</th>
<th>Between Frame Width Range (Inches)</th>
<th>Speed Range (Feet Per Minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-1.9</td>
<td>O-Ring Belt</td>
<td>Up to 100 lbs</td>
<td>13” to 39”</td>
<td>Up to 180</td>
<td></td>
</tr>
<tr>
<td>MP-1.9</td>
<td>Poly-Ribbed Belt</td>
<td>Up to 600 lbs</td>
<td>13” to 39”</td>
<td>Up to 180</td>
<td></td>
</tr>
<tr>
<td>MP-2.5</td>
<td>Poly-Ribbed Belt</td>
<td>Up to 3,000 lbs</td>
<td>13” to 54”</td>
<td>Up to 60</td>
<td></td>
</tr>
<tr>
<td>MC-1.9</td>
<td>RC40 Chain</td>
<td>Up to 900 lbs</td>
<td>13” to 39”</td>
<td>Up to 120</td>
<td></td>
</tr>
<tr>
<td>MC-2.5</td>
<td>RC40, 50 or 60 Chain</td>
<td>Up to 3,000 lbs</td>
<td>13” to 54”</td>
<td>Up to 60</td>
<td></td>
</tr>
<tr>
<td>FO-1.9</td>
<td>O-Ring Belt</td>
<td>Up to 100 lbs</td>
<td>13” to 39”</td>
<td>Up to 180</td>
<td></td>
</tr>
<tr>
<td>FP-1.9</td>
<td>Poly-Ribbed Belt</td>
<td>Up to 600 lbs</td>
<td>13” to 39”</td>
<td>Up to 60</td>
<td></td>
</tr>
<tr>
<td>FC-1.9</td>
<td>RC40 Chain</td>
<td>Up to 900 lbs</td>
<td>13” to 54”</td>
<td>Up to 60</td>
<td></td>
</tr>
</tbody>
</table>

Parameters shown are considered standard, if your application parameters exceed what is shown, contact us.

*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.
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 is contained on the drive card allowing 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™ using an available add on profile.

Disabling an open gate
Mounted and wired prox/relay cuts power to a lift gate when in the up position.

24V SILO: For down service elevation changes and vertical accumulation of round product.
Narrow belts over MDR rollers.
Multi-tier high density accumulation conveyor.
MOTOR DRIVEN ROLLER CONVEYOR QUOTATION WORKSHEET

Company ___________________________________________  Date ____________________
Contact ____________________________ Quote Due _______________  Desired Delivery _____________
Phone No. ___________________________ Contact Email __________________________  State _____________
Omni Sales Contact ______________________________________  Quote #: __________________
Quantity ___________________________

Product Specs:
Max:
- Width (inches): _______ Length (inches): __________
- Height (inches): _______ Weight (lbs): __________
Min:
- Width (inches): _______ Length (inches): __________
- Height (inches): _______ Weight (lbs): __________
Description: __________________________________________
Max. Qty.: ___________ Total Live Load: ________________
Temperature
- Environment: __________________________________________
- Product: _____________________________________________

Conveyor Construction:
Between Frame (BF) ________________
Roller C/C _______________________
☐ Straight Length: ______________________
☐ Curve - Degree: ______________________
   Inside Radius (I.R.): ________________
☐ Bolt-Together
   ☐ Galvanized  ☐ Painted  ☐ Powder Coat
   Color/RAL: ________________________
☐ Welded
   ☐ Painted  ☐ Powder Coat
   Color/RAL: ________________________

Roller Specs:
☐ 1.9 in. dia. x 16 ga. Galv.
☐ 2.5 in. dia. x 11 ga. Mild Steel
☐ Coating: ________________________________
☐ Other: ________________________________

Support Type:
Quantity: ________________________
☐ Legs  ☐ Ceiling Supports  TOR____+/_____

Application Type:
☐ Transportation
☐ Slug Release
☐ Zero Pressure - Zone Length ________________

Notes: ____________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Roller Specs: 1.9 in. dia. x 16 ga. Galv.
2.5 in. dia. x 11 ga. Mild Steel
Coating: ________________________________
Other: ________________________________

Support Type: Quantity: ________________________
Legs  Ceiling Supports  TOR____+/_____

Application Type: Transportation Slug Release Zero Pressure - Zone Length ________________
Notes: ____________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Plant Voltage:
☐ 115V Single Phase  ☐ 460V Three Phase
☐ 230V Single Phase  ☐ 208V Three Phase
☐ 230 Three Phase  ☐ 575V Three Phase
Speed:
☐ Fixed ___________ FPM
☐ Variable _________ FPM

Drive Bands:
☐ Standard 83A (50 lbs. Capacity)
☐ High Tension 85A (100 lbs. Capacity)
☐ Other__________________________

Approval Drawing Required: ☐ Yes  ☐ No