
Omni Metalcraft corp.

24
VOLT
CONVEYOR

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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

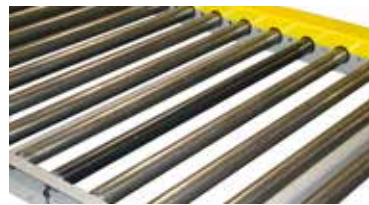


Flat Motor Driven Roller Conveyor



Pallet Handling

Chain Driven Motor Driven Roller Conveyor



Chain Driven Flat Motor Conveyor



Accessories



Lift gates, Manual gas shock and spring, pneumatic actuated



Crowders, and other product positioning devices



Divert tables, 30 and 45 degree, pneumatic and 24V actuated



Transfer, urethane and timing belt, pneumatic and 24V actuated



Divert arm, pneumatic actuated, 30 and 45 degree

CONVEYOR MODELS

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

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.

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 proxies or limit
switches available

Mounted at the factory

J-Boxes

Proxies, 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(tm)
using an available add on profile.

Disabling an open gate

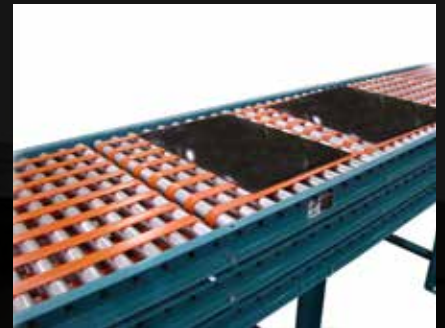
Mounted and wired prox/relay cuts power
to a lift gate when in the up position.



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: _____

Plant Voltage:

☐ 115V Single Phase ☐ 460V Three Phase

☐ 230V Single Phase ☐ 208V Three Phase

☐ 230 Three Phase ☐ 575V Three Phase

Speed:

☐ Fixed _____ FPM

☐ Variable _____ to _____ FPM

Drive Bands:

☐ Standard 83A (50 lbs. Capacity)

☐ High Tension 85A (100 lbs. Capacity)

☐ Other _____

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: _____

Approval Drawing Required: ☐ Yes ☐ No