

## POWERED FLEX CONVEYOR

### POWERED FLEXIBLE CONVEYOR (FX24)

Ultimation Industries LLC Powered Flex Conveyor has a robust design that provides optimal conveying power and can easily be moved where it is needed most. The flexible, expandable conveyor will stretch or bend to fit your available space and is ideal for truck loading and unloading areas, distribution centers or portable assembly lines. The Powered Flex Conveyor is a sturdy conveyor that moves product up to 100 pounds per zone at variable speeds and each zone is powered by an energy efficient 24VDC motor.



### STANDARD FEATURES

#### Flexible and robust

- Precision bearings
- Powder coated leg supports with locking, swivel casters and pin-adjustable height on 1/2" increments
- Rollers driven by high-tension, urethane O-ring belts

#### Energy efficient

- 24VDC power supply
- Interface controls and pass-through power cables to connect multiple units

#### Adaptable to meet operational requirements

- Forward/reverse controls
- Handles on each end of conveyor
- Start/stop button at each end
- Variable speed control

### OPTIONS & ACCESSORIES

**Floor Guide** – Move the Flex Conveyor in and out of storage with ease.

**Impact Cart** – Inserted at infeed end of the conveyor, it is designed to handle package impact reducing the need for continual repairs to the conveyor.

**Power Assist** – Safely and easily move the Flex Conveyor in position for operation or storage.

**Side Guides** – Guides are 4" tall covering up to two zones of the conveyor made of heavy-duty UHMW polyethylene.

**Transition** – Available in Centering and Straight options and assist in moving packages from the feed line to the Flex Conveyor. The Centering option also aligns packages toward the center of the Flex Conveyor.

## SPECIFICATIONS

### GENERAL

Bed Width	18", 24", 30", 36"
Extended Length	25', 40', 50', 60', 80'; additional lengths available; consult factory
Compressed Length	Varies; determined by the diameter of the roller and the center to center distance of the rollers; see REFERENCE CHART
Height	26" to 34" or 30" to 38" top of roller; adjustable with locking pin
Capacity	1.4" rollers at 3", 4", & 5" C/C and 1.9" rollers at 3" C/C: 50 pounds per linear foot (PLF) 1.9" rollers at 4" & 5" C/C: 100 pounds PLF; 100 pounds per zone for all rollers & C/C
Modes of Operation	Transportation & Accumulation; see AVAILABLE MODE OF OPERATION
Power Supply	110V single phase
Rollers	1.4" or 1.9"; expanded roller distance varies; see REFERENCE CHART
Roller C/Cs	3", 4", 5"; minimum of 3 rollers recommended under product for proper conveyance
Motor(s)	100w, 24VDC
Noise Level	70dB at conveyor bed c/l (30 in TOR); 60dB at ear level, approximately 5' 6" height from ground level

### AVAILABLE MODE OF OPERATION

Transportation Style	Conveyor is always on, transporting packages continuously at a constant speed.
Accumulation Style	Each zone contains a sensor array, motor, and smart conveyor control logic. Zones run on demand only when the downstream zone is unoccupied. Packages accumulate at the end of a conveyor or in the zones prior to a full zone.

### REFERENCE CHART

(EXPANDED)				
Roller Diameter	Roller C/C	Zone Length	Rollers per Zone	Compression Ratio
1.4"	3"	38"	13	1.8:1
	4"	38"	10	2.2:1
	5"	42"	9	2.6:1
1.9"	3"*	38.5"	13	1.2:1
	4"	38.5"	10	1.6:1
	5"	42.5"	9	2:1



Side View; Powered Flex Conveyor

*Note: Additional options for Powered Flex Conveyor such as caster size, leg height adjustment, etc., are available. Please consult factory.*

\*1.9" dia. rollers on 3" roller c/c result in reduced drive band life.