

# E24™ 24-VOLT CONVEYING SYSTEM

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Hytrol's E24™ sets the standard by delivering a powerful, long-lasting, low-voltage means for product transportation. The 24-volt motor driven roller (MDR) conveyor systems are being widely used due to their simplicity and flexibility. Since the drive train is distributed along the conveyor length, a single piece of equipment can perform multiple functions. This includes different speeds, multiple directions and starting/stopping individual sections. Because E24™ is a Hytrol innovation, it also works great with EZLogic® zero-pressure accumulation systems. Hytrol's E24™ has been designed from the ground up to provide the best 24-volt conveyor drive technology in existence.

## HIGHLIGHTS

- Compact design
- 125,000 hour design life
- Decentralized drive system
- Brushless, gearless motor
- High torque, low RPM
- Variable speed adjustment
- Fewer spare parts
- No air requirements
- Quiet operation
- Designed to work with EZLogic®

## HYTROL E24™ CONVEYOR MODELS

### 190-E24

The model 190-E24 is a live roller conveyor equipped with a series of 24 VDC motors to drive the tread rollers, eliminating the need for drive belts, chains, or line shafts.

- All-electric 24-volt operation eliminates the need for air
- 1.9" diameter x 16 gage rollers on 3" centers
- Section lengths are available from 2' to 10', in 6" increments
- Standard conveying speed of 35-125 FPM
- Maximum of 37 lb. per foot and a maximum capacity per E24™ motor of 75 lb.

### 190-E24C & 190-E24SS

The model 190-E24C is a live roller curve. The model 190-E24SS is a straight spur used in diverging or converging application; both models are driven from the power supply of the E24™ 24-volt DC motor.

#### 190-E24C:

- 2 ½" diameters tapered to 1-11/16" diameter x 16 gage rollers
- 30° & 45° curves require (1) 24-volt motor and control card on 18"- 42" OAW
- 60° & 90° curves require (2) 24-volt motors and control cards on 18"-42" OAW
- Motors mount on the outside of the bed frame and on the inside radius of the curve
- Maximum of 37 lb. per foot and a maximum capacity per E24™ motor of 75 lb.

#### 190-E24SS:

- 1.9" diameter x 16 gage rollers on 3" centers
- 30° spur requires (1) 24-volt motor and control card on 12"-16" OAW at 30" long, (2) 24 volt motors and control cards on 18"- 42" OAW at 54" and 75" long
- 45° spur requires (1) 24-volt motor and control card on 12"- 42" OAW. Section lengths for the 45° include 21", 36" and 48"
- Motors mount on inside of bed frame

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## COMBINED WITH EZLOGIC® ZERO-PRESSURE ACCUMULATION:

Hytrol's patented EZLogic®, or "Electronic Zero-Pressure Logic" Accumulation System, combines the sensing accuracy of photo-electronics with discrete electronic logic control without the use of a PLC or pneumatic logic components. EZLogic® zone controllers sense product presence and control the accumulation and release of product from the zones. If an EZLogic® controller does not detect the presence of product for a selectable time period, the controller stops the zone from driving. Each model is equipped with an IOP unit (power supply) that provides DC power for the EZLogic® system and provides a wiring hub for advanced features (if I/O boards are present). Multiple modes of operation are available for accumulation and release of product.

## 190-E24EZ & 190-E24EZC

The 190-E24EZ is a live roller conveyor equipped with a series of 24 VDC motors to drive the tread rollers. The 190-E24EZC is a powered roller curve conveyor. Both models combine Hytrol's patented EZLogic® Zero-Pressure Accumulation system and each of the accumulating zones is powered by an E24™ 24-volt DC motor.

### 190-E24EZ:

- 1.9" diameter X 16 gage rollers on 3" centers
- EZLogic® Zone Controllers can be located in 18", 24", 30" or 36" zones

### 190-E24EZC:

- 2 ½" diameters tapered to 1-11/16" diameter x 16 gage rollers
- 30° & 45° curves have (1) zone
- 60° & 90° curves have (2) zones

The maximum capacity is 37 lb. per foot, 75 lbs. per zone for both of models, standard conveying speed of 35-125 FPM.

## 199-CRE24EZ & 25-CRE24EZ

These models are accumulating conveyors use a 24 VDC motor to power chain driven tread rollers and are equipped with Hytrol's patented EZLogic® Zero-Pressure Accumulation System. Models are differentiated by roller diameter, speed, and capacity.

### 199-CRE24EZ:

- 1.9" diameter X 16 gage rollers on 4" or 6" centers
- Standard conveying speed of 28 FPM
- Maximum unit load not to exceed 600 lbs. per zone

### 25-CRE24EZ:

- 2 ½" diameter x 11 gage rollers on 4" or 6" centers
- Standard conveying speed of 24 FPM
- Maximum unit load not to exceed 1300 lbs.

EZLogic® Zone Controllers are located in each zone, frame length changes with zone length with both models.



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