

E24i™ INTEGRATED 24-VOLT CONVEYING SYSTEM

SYSTEMS • SOLUTIONS • SERVICE

Hytrol's E24i™, the newest development in 24-volt conveying systems, eliminates the need for drive belts, chains or line shafts and sets the standard by delivering a long-lasting, low voltage means for product transportation. The new design integrates the control card and the motor for simplified installation and ease of maintenance. E24i™ systems feature robust electronic control and require less wiring while delivering a sleek appearance and the same versatility of a traditional E24™ motor.

E24i™ vs. TRADITIONAL E24™

	E24i™	Traditional E24™
Max RPM	350 RPM	270 RPM
Max Speed with Standard Spool	174 FPM	134 RPM
Max Speed with Speed Up Spool	254 FPM	196 FPM
Voltage	24 VDC	24 VDC
Typical Current Draw	1.0 A	1.0 A
Max Current Draw	1.5 A	3.0 A
Typical Torque Output	4 lb-in	4 lb-in
Max Torque Output	4 lb-in	10 lb-in
Speed Setting	Switches	Potentiometer

BENEFITS

- High maximum speed
- No tachometer required to set speed
- Simplified design with less wiring
- Easier to maintain consistency of speed across multiple motors
- Dedicated motor driver chip for robust electronic control
- Ability to reach exact speeds with switches

APPLICATIONS

- E24i™ may be applied to any application where the traditional E24™ card and motor would operate in the low-current setting.
- All E24i™ systems come equipped with PNP inputs for better protection against noise and voltage drop.
- For sections requiring the high current setting, the traditional E24™ card and motor should be utilized. This includes belt over zones, transfers, inclines and declines.
- The default mounting position for E24i™ is inside the bed rails.
- E24i™ may be used in reversing applications.

EXPERIENCE THE ADVANTAGE.

E24i™ CONVEYOR MODELS

190-E24

The E24i™ 24 VDC live roller conveyor uses a series of 24-volt DC 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 gauge rollers spaced 3" apart
- Section lengths are available from 2' to 10' in 6" increments
- Maximum of 37.5 lbs. per foot and a maximum capacity per E24i™ motor of 75 lbs.
- Achieves greater speed range by using different spools and adjusting the control card
- Standard drive spool speeds range from 25 – 174 FPM
- High-speed drive spool speeds range from 35 –254 FPM

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 component. EZLogic® zone controllers sense product presence and control the accumulation and release of product from the zones.

190-E24EZ

With the same specifications as the 190-E24, this model incorporates Hytrol's patented EZLogic® zero-pressure accumulation system to produce multiple modes of operation.

- Motor may be turned off to cause product to stop in zones
- Equipped with an IOP unit (power supply) that provides DC power to the EZLogic® system and a wiring hub for advanced features, if I/O boards are present
- EZLogic® zone controllers can be located in 12", 18", 24", 30" or 36" increments

