

CATALOG  
C24

# EMI<sup>®</sup>

CONVEYORS &  
AUTOMATION SYSTEMS



# Signature Line Steel Frame Conveyors

EMI's Signature Line steel frame conveyors give you a cost-effective way to build an automation system which can make your profits soar! These strong, heavy-duty belt conveyors can meet your requirements today and be adapted to your future needs. They can be customized from hundreds of options and a 3-year warranty is included, see page 3.



*How-to Video:  
Replace a Belt*



*How-to Video:  
Flip Motor Position*

**Standard with Direct Drive Power Package.  
Dozens of models and options.  
Strong, modular construction.**



*Model RM*

*Model RMC shown with  
optional H-8 Hopper.*

## Signature Line Features:

**Steel Frame:** For maximum heavy-duty industrial wear.

**Direct Drive Package:** The motor and SEALED GEAR REDUCER attach directly to the pulley shaft, minimizing PM maintenance. NO ROLLER CHAIN OR SPROCKETS to align. 150 lb. load rating. 1/3hp AC motor (110V input with 230/60/3 output to motor) 4–40 FPM variable speed drive.

**Leg Sets and Castors:** Black powder coated steel leg sets are standard on all Signature Line models.

**Double V-Guide Belt Tracking:** Provides exceptionally stable belt tracking, which significantly extends belt life. Guides on the sides rather than the middle make it easier to track the belt.

## EMI Signature Line, Steel Frame Belt Conveyor Specifications

- 1 **Drive Package:** Includes a 1/3 hp 110V input AC TEFC motor (110V input with 230/60/3 output to motor) with a 4–40 FPM variable speed controller. The gear reducer is sealed and permanently lubricated requiring no service. Power transmission is provided via direct drive configuration. 15' of SJ cord with a standard three-prong plug is pre-wired to the starter. Control wiring is contained in liquid-tight conduit and connectors. Drive packages 3'–30' long have 150 lb. maximum load.
- 2 **Belt Guidance:** True Track Belt Guidance System comes standard on 3'–30' long conveyors. Using a Double V-guide slot in the frame, 1/4" wall crowned pulleys, and bonded Double V-guide belting, "True Track" minimizes belt run off and reduces belt tracking maintenance.
- 3 **Pulleys:** To ensure long-lived operation, 3 1/2" diameter crowned pulleys incorporate 1" diameter shafts, self-aligning sealed ball bearings with eccentric locking collars, telescopic take-up adjustment, position locking nuts, and Zerk grease fittings.
- 4 **Belting:** is easy to clean, FDA approved, white, PVC belting with staple-type belt lacing (which prevents lacing pullout and splice failure), makes belt maintenance quick and easy. Inclined conveyors have a bottom cleat support plate and bonded flexible cleats that have no bolts or rivets that may tear out.
- 5 **Frame:** Our sturdy, reinforced, welded, cross-braced steel frames, powder coated safety orange (other colors are available) incorporate 12-gauge channels with a 16-gauge slide bed to minimize twist and camber, and provide longer service life.
- 6 **Rails:** To ensure molded pieces do not get pinched, damaged, or lost between the rail and belt, we place our 12-gauge steel 4" rails so that they overlap the belt. To keep your molded parts contained on the infeed end of the conveyor, we include an infeed-end flapper assembly.
- 7 **Shipment:** Generally conveyors 3–10' are shipped fully assembled, pre-wired, tested, and ready to run (legs must be attached). Conveyors 11' and over are shipped partially assembled to minimize shipping damage. Some frame and belt assembly is required; drive packages and system panels are pre-assembled and tested. For your convenience, arrangements can be made for longer conveyors to be shipped assembled.
- 8 **Leg Sets:** Adjustable leg sets and locking swivel castors are included as standard on all Signature Line conveyors. Belt height must be specified.

