Specialists in Custom Conveying Applications
Engineering and Manufacturing Conveyors for Handling Plastic Molded Parts

When you have the need for something out of the ordinary, call EMI for answers. Our in-house engineering department is dedicated to providing customized parts handling solutions for the plastics industry. Also, our Jackson Center, Ohio manufacturing facility provides you with the technology and the experienced manpower needed to assure that every EMI product meets stringent quality-control standards.

In January of 2016 we finished construction on our new 110,000 square foot facility located at 801 West Pike Street, Jackson Center, Ohio. This new larger space made room for new machinery which expanded and expedited manufacturing, increased our assembly area, and allowed for necessary growth of our stocking abilities.

High priority was placed on the openness of the plant design, optimizing the ease of movement between all departments and product lines. In another effort to achieve the best productivity, we have also changed to a new powder coat painting technique, which both shortens lead times and improves quality.

EMI Conveyors are Built in the USA!
EMI Conveyors

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Extruded Aluminum Frame Conveyors

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- **EAZ**
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**Space Saver Options**

With the internal drive option, the conveyor’s motor and drive are contained within the frame, making it ideal for robot indexing, assembly, and applications where floor space utilization is important. A compact PLC indexing control is ideal for robot indexing, box filling and process control tie-in applications.

*See page 9...*

**Customized Applications**

Like all EMI conveyor models, EA extruded aluminum frame conveyors can be customized to suit your exact conveying automation needs.

EA conveyors are ideal for box filling applications as illustrated here. Their space saving design allows longer unattended production while taking up less floor space. EA conveyors are also ideal for robot interface applications, parts cooling, and more.

*See page 6...*

- The **EA** conveyor minimizes maintenance and maximizes productivity.
- It utilizes floor space more effectively than other conveyor designs.
- The **EA** is EMI’s 3rd generation of aluminum conveyors – the culmination of EMI’s 20 years experience engineering and building extruded aluminum conveyors.

www.EMIcorp.com
## Conveyor Selection Guide

### MODEL SERIES

<table>
<thead>
<tr>
<th></th>
<th>EA Extruded Aluminum</th>
<th>STL / ATL Trim Line</th>
<th>AD / DD Merit Line</th>
<th>ACR Clean Room</th>
<th>RM (RMTL) Signature Line</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Price for standard Flat Belt Conveyor (18” wide by 10’ long)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DDF-18-10-20 $3,278</td>
<td></td>
<td>RM-18-10-20 $3,497</td>
</tr>
<tr>
<td><strong>SPECIFICATIONS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Anodized Extruded Aluminum</td>
<td>12 gauge Steel or 1/8” Aluminum sheet Semi-Modular</td>
<td>12 gauge Steel or 1/8” Aluminum sheet Semi-Modular</td>
<td>12 gauge Steel or 1/8” Aluminum sheet Semi-Modular</td>
<td>12 gauge Steel Modular</td>
</tr>
<tr>
<td><strong>Drive Method</strong></td>
<td>Timing Belt</td>
<td>Direct Drive</td>
<td>Direct Drive</td>
<td>Direct Drive</td>
<td>Direct Drive</td>
</tr>
<tr>
<td><strong>Motor / Gear Reducer</strong></td>
<td>1/3 hp TEFC Motor, Gear Reducer</td>
<td>1/4 hp TEFC Motor, Gear Reducer</td>
<td>1/3 hp TEFC Motor, Gear Reducer</td>
<td>1/3 hp TEFC Motor, Gear Reducer</td>
<td>1/3 hp TEFC Motor, Gear Reducer</td>
</tr>
<tr>
<td><strong>Pulley Diameter</strong></td>
<td>3.4”</td>
<td>2 3/8”</td>
<td>3 1/2”</td>
<td>3 1/2”</td>
<td>3 1/2” (8”)</td>
</tr>
<tr>
<td><strong>Standard Motor</strong></td>
<td>DC</td>
<td>DC</td>
<td>AC</td>
<td>AC</td>
<td>AC</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
</tr>
<tr>
<td><strong>Cleated Belt Incline Models Available</strong></td>
<td>EAC</td>
<td>STLC, ATLC</td>
<td>ADC, DDC</td>
<td>ACRC</td>
<td>RMC</td>
</tr>
<tr>
<td><strong>Horizontal to Incline Models Available</strong></td>
<td>EAK, EAR, EAZ</td>
<td>STLK, ATLK</td>
<td>ADK, DDK</td>
<td>ACRK</td>
<td>KKI, KK, CAR, RCR</td>
</tr>
<tr>
<td><strong>Under Press Usage (Typical). Call for applications over 2,000 Tons.</strong></td>
<td>Up to 1,000 Ton</td>
<td>Up to 500 Ton</td>
<td>Up to 1,000 Ton</td>
<td>Up to 1,000 Ton</td>
<td>Up to 2,000 Ton</td>
</tr>
</tbody>
</table>

**EMI Conveyors are an excellent choice for these applications:**

- Robot Indexing (Nose Over Availability)
- Process Control (Parts Diverting)
- Box Filling
- Part Cooling
- Plant Automation Systems
- Grinder Feeding
- Scrap Conveying
- Clean Room

**3-YEAR Limited Warranty:**

EMI conveyors are guaranteed for 3 years to be free from defects of material or workmanship and to perform as promised when maintained in accordance with EMI manuals and operated under the conditions for which they were designed. Belting is guaranteed for 90 days under the same conditions. Damage, due to improper electrical or mechanical applications, voids this warranty. Upon written notification of defect, within three years of sale, EMI will approve pre-paid shipping of the equipment to our factory for inspection, repair, or replacement. Repair or replaced items are returned to the customer at no charge. Returned equipment must be suitably crated by the customer to prevent damage.
Extruded Model
Aluminum Frame Conveyors

The Extruded Aluminum model is EMI’s 3rd generation of aluminum conveyors – the culmination of EMI’s 20 years experience engineering and building EA conveyors. It utilizes floor space more effectively than other conveyor designs. The EA conveyor minimizes maintenance and maximizes productivity.

A 3-year limited time warranty is included - see page 3.

Extruded Aluminum Features:

Low Profile External Drives: Minimize interference when your operators have to work closely around the conveyor.

Self-Aligning Bearings: are permanently lubricated and maintenance free.

Variable Speed: is standard on all EA conveyor models.

Automatic Spring-Loaded Belt Tensioner: is standard on all models, this keeps the belt properly tensioned and tracking straight and facilitates ease of belt changes.

3 Styles of Power Transmission: Belt drive is standard. Direct drive and chain drive are also available.

Edge-to-Edge Polyurethane Belting: has a tougher carcass compared to PVC and is FDA compliant. Laced belting is standard on all models. Endless belting is available at no charge.

9/16" Slots in Extruded Frame: accept standard 3/8" hex head nuts and bolts makes it easy to add peripheral equipment onto the conveyor by simply sliding them into the slots then fasten with standard nuts.
Extruded Aluminum Frame Belt Conveyor Specifications

1 Drive Package: Includes a 1/3 hp 90V DC TEFC motor with a 6-20 FPM variable speed controller (12-40 FPM or 21-70 FPM are available at no charge). The gear reducer is sealed and permanently lubricated requiring no service. Power transmission is by timing belt that is enclosed within the conveyor frame. 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. EA conveyors 3’–33’ long have 100 lb. maximum load.

2 Belt Tensioning and Guidance: Automatic spring-loaded belt tensioning is standard on all EA conveyor models. This keeps the belt properly tensioned and tracking straight and facilitates ease of belt changes. V-guided True Track Belt Guidance System comes standard on 3’–33’ long conveyors.

3 Pulleys and Bearings: EMI’s exclusive EA-model pulleys are 3½” diameter with 1” diameter shafts and incorporate built-in belt traction teeth. The self-aligning bearings are permanently lubricated and maintenance free.

4 Belting: The easy to clean belting is made of FDA approved polyurethane and has temperature resistance up to 175°F. Staple-type belt lacing is standard. Endless belting is available at no charge. Inclined conveyors have bonded flexible cleats that have no bolts or rivets that may tear out.

5 Frame: The frame is clear anodized extruded aluminum with side channels that accept standard 3/8” hex head bolts/nuts. This makes it easy to add peripheral equipment onto the conveyor by sliding hex head bolts into the slots then fastening with standard nuts. When requested, EMI can insert nuts or bolts into the channels when building the conveyor.

6 Rails: 4” high rails are made of 1/8” anodized aluminum and overlap the belt 1¼” per side to ensure small molded parts do not get pinched, damaged, or lost between the rail and the belt. When conveying larger molded parts, non-overlapping rails are available that increase the usable belt width by 2½”.

7 Shipment: Conveyors 3’–20’ are usually shipped fully assembled, pre-wired, tested, and ready to run (except the legs must be attached by the customer). For your convenience, arrangements can be made for longer conveyors to be shipped assembled.

8 Leg Sets: Easy adjusting extruded aluminum leg sets with 4” and locking swivel castors are included as standard on all EA conveyors. Belt height must be specified.
Extruded Aluminum Frame
Application Examples

EMI Custom Engineers to your Application –
Getting started is easy. If you have a concept in mind contact a
EMI sales engineer who can come to your facility and discuss
your application. Whether you need a single automation cell or
a lights out, plant-wide system, EMI will design and build an
automation system that meets your requirements and exceeds
your expectations.

Multi-Use Portable - EAF with PVC belt, side rails,
H-style leg stand, and counter weights.

Quick Adjustment Rack – The EAK and EAZ conveyors have an
optional angle adjustment rack which allows you to change the conveyor
angle with no tools.

Box & Bag Fill Turntables - Applications can
include a variety of belt styles with a cycle count boxfill
system, and added options such as: soft drop zones,
polycarbonate rail covers, side rails, chutes, hoppers,
and more!

See page 130 . . .
The flexibility of EMI’s Extruded Aluminum Conveyors make them a perfect choice for most applications!

Tote Dispenser - Cycle count box fill system includes: Two EAF conveyors with internal drive packages, and a roller conveyor, two sweep arms, side rails, and a box stop.

Over/Under Part Cooling - EAF and EAR conveyors with two levels of cooling take up minimal floor space.

Weigh Scale Boxfill - EAF models with cleated belts, adjustable side rails, and an indexing control system with weigh scale.

Safety Enclosures - Available in many styles, they can be custom made to fit your conveyor for added protection.
Extruded Aluminum Frame

All EMI Extruded Aluminum Conveyors come standard with.

Low profile external drives - minimize interference when your operators have to work closely around the conveyor.

Self-aligning bearings - permanently lubricated and maintenance free.

3 styles of power transmission - Belt drive is standard. Direct drive and chain drive are also available.

Automatic spring-loaded belt tensioning - is standard on all models, this keeps the belt properly tensioned and tracking straight and facilitates ease of belt changes.

Variable speed - is standard on all EA conveyor models.

Polyurethane belting - is FDA/USDA compliant, and has a tougher carcass compared to PVC, and is easy to clean.

Edge to edge belt - ideal for robot indexing applications and wherever floor space utilization is important.

Laced belting - is standard on all models. Endless belting is available at no charge.

9/16" slots in the extruded aluminum frame accept standard 3/8" hex head nuts and bolts - makes it easy to add peripheral equipment onto the conveyor by simply sliding hex head bolts into the slots then fasten with standard nuts.
Extruded Aluminum Frame

Space Saver Options
Available on all EA Conveyors

Motor and drive mounted within the conveyor frame

- Reduces conveyor width by 7¾” compared to the standard motor and drive
- Includes compact variable speed controller

Internal Drive (option) - motor and drive are contained within the frame making it an ideal conveyor for robot indexing, assembly, and applications where floor space utilization is important.

Includes compact variable speed controller.

Direct Drive (option)

Chain Drive (option, shown without chain drive cover)
**Extruded Aluminum Frame**

**Space Saver Options**

Available on all EA Conveyors

Legs mounted under the frame

- Reduces conveyor width by 4” compared to standard leg set mounting.
- Includes locking swivel castors.
- No charge option

Motor and drive mounted within the conveyor frame

- Reduces conveyor width by 7¾” compared to the standard motor and drive.
- Includes compact variable speed controller.
- $295 option

Compact PLC indexing control

- Eliminates large enclosures normally associated with many indexing packages.
- Ideal for robot indexing, box filling, and process control tie-in applications.
- $795 option

---

**Dimensions**

- **A**: Height
- **Leg #1**: 15”
- **Leg #2**: 15”
- **Discharge Belt Height**: 4.2”
- **Infeed Belt Height**: 1.5”
- **BW**: Nominal Belt Width

- **BW + 4.1”**: 15”
- **BW + 2.5”**: 15”
- **BW + 6.5”**: 21.2”
- **BW + 5”**: 15”

---

**Notes**

- EB = Nominal Belt Width
Index / Reverse Combination Drive Option  T-99-VS

Available on all EA Conveyors

- 110/60/1 NEMA 1 Emerson M400 variable frequency drive with 230/60/3 AC output to motor.
- Upgrade to a 230/60/3 AC motor and 15’ customer interface cord included.
- Option T-99-VS: $615

Advantages:

- Smaller footprint on conveyor with no extra enclosures or excessive hardware as needed with S-44 indexing and S-76 reversing options.
- The drive and motor are the only electrical components so there are fewer electrical components to stock or replace.
- An economical choice with less downtime than other indexing / reversing options.

Notes:

- Low end speed will result in loss or torque with high weight loads.
- Drive can be pre-configured for any combination of indexing and reversing options. It is necessary to inform EMI of the desired pre-configuration.
- Indexing and reversing can be controlled by either a momentary or maintained normally open dry contact or 24VDC signal.
- Indexing and reversing times are adjustable on the drive via parameter change.

Compact PLC Indexing Control Option

Available on all EA Conveyors

- Eliminates large enclosures normally associated with many indexing packages
- Ideal for robot indexing, box filling, and process control tie-in applications
- Indexing, reversing, and 6-70FPM variable speed functions
- Continuous run mode
- Accepts momentary or maintained signals for indexing and reversing
- Easily adjustable digital timers
- English and Spanish language
- Option EA-PLC: $795 option

Notes:

- Programming includes the possibility to run in any sequence with indexing / reversing / continuous run. "Maintained or Momentary" normally open dry contact or 24VDC signals are both accepted for indexing and reversing inputs. All timers shall be programmed via touch screen.
Extruded Aluminum Frame
EAF Model | Flat Belt Conveyor

Standard belt widths: 6", 12", 18", 24", 30", 36"
Available widths: 4"–60" at 2" (50mm) increments

Standard lengths: 3′–33′ at 1′ (300mm) increments*
*Consult your EMI representative for longer lengths

Features

- Anodized extruded aluminum frame with side channels that accept standard 3/8" hex head bolts/nuts
- Anodized aluminum side rails 4" high, 90° overlapping the belt 1¼" per side
- Easy adjusting extruded aluminum leg sets with 4" locking swivel castors
- 1/3hp 90V DC TEFC motor
- Gear reducer is sealed and permanently lubricated requiring no service
- 6-20 FPM variable speed drive (12-40 FPM or 21-70 FPM are available at no charge)
- Timing belt power transmission is enclosed within the conveyor frame
- 100 lb. maximum load
- V-guide belt guidance
- Automatic spring-loaded belt tensioning
- Laced, PVC belting, FDA approved material. (Endless belting is available at no charge)
- 175°F belt temperature resistance
- Units up to 20′ long are shipped fully assembled
- 3 year limited warranty
**How to Order:**

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

**Common Options**

- Soft drop zone, to cushion part drop
- Straight side rails or delete side rails
- Side rail extensions for part containment
- Polycarbonate rail covers
- Chilled air or ambient air blowers for part cooling
- Stainless steel discharge chute
- Endless belting
- Green polyurethane belting
- Sealed belt edges to minimize dust
- Deionizing blowers to eliminate static electricity and prevent particles from sticking to parts
- AC frequency motor for low cost indexing
- Robotic indexing control interface
- Box filling by cycle count or weight
- Reversing for process control
- Alternate motor locations
Extruded Aluminum Frame
EAC Model | Incline Belt Conveyor

Standard belt widths: 6", 12", 18", 24", 30", 36"
Available widths: 4"–60" at 2" (50mm) increments

Standard lengths: 3'–30' at 1' (300mm) increments*
* Consult your EMI representative for longer lengths

Features

- Anodized extruded aluminum frame with side channels that accept standard 3/8" hex head bolts/nuts
- Anodized aluminum side rails 4" high, 90° overlapping the belt 1¼" per side
- Easy adjusting extruded aluminum leg sets with 4" locking swivel castors
- 1/3hp 90V DC TEFC motor
- Gear reducer is sealed and permanently lubricated requiring no service
- 6-20 FPM variable speed drive (12-40 FPM or 21-70 FPM are available at no charge)
- Timing belt power transmission is enclosed within the conveyor frame
- 100 lb. maximum load
- V-guide belt guidance
- Automatic spring-loaded belt tensioning
- Laced PVC belting with 1½" high cleats on 18" centers, FDA approved material. (Endless belting is available at no charge)
- 175°F belt temperature resistance
- Units up to 20' long are shipped fully assembled
- 3 year limited warranty

Optional stainless steel infeed hopper

Alternate belting is available. Green polyurethane and corrugated wall belting examples are shown.
How to Order:

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

QUICKSHIP

Ask about QuickShip availability when ordering.

Common Options

- Stainless steel infeed hopper
- Side rail extensions for part containment
- Corrugated wall belting for small part containment
- Polycarbonate rail covers
- Chilled air or ambient air blowers for part cooling
- Stainless steel discharge chute
- Endless belting
- Green polyurethane belting
- Deionizing blowers to eliminate static electricity and prevent particles from sticking to parts
- Box filling by cycle count or weight
- Alternate motor locations

Wide widths up to 60" available.
**Extruded Aluminum Frame**

**EAK Model | Adjustable Angle, Incline**

**Standard belt widths:** 6", 12", 18", 24"

Available widths: 6"–26" at 2" (50mm) increments

**Standard lengths:** 5’–15’ at 1’ (300mm) increments*

*Consult your EMI representative for longer lengths

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The EAK and EAZ conveyors have an optional angle adjustment rack which allows you to change the conveyor angle with no tools.

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**Features**

- Anodized extruded aluminum frame with side channels that accept standard 3/8" hex head bolts/nuts
- 0–60° adjustability from horizontal to incline sections with built-in angle indicator
- Anodized aluminum side rails 4" high, 90° overlapping the belt 1 1/4" per side
- Easy adjusting extruded aluminum leg sets with 4" locking swivel castors
- 1/3hp 90V DC TEFC motor
- Gear reducer is sealed and permanently lubricated requiring no service
- 6-20 FPM variable speed drive (12-40 FPM or 21-70 FPM are available at no charge)
- Timing belt power transmission is enclosed within the conveyor frame
- 50 lb. maximum load
- V-guide belt guidance
- Automatic spring-loaded belt tensioning
- Laced PVC belting with 1 1/2" high cleats on 18" centers, FDA approved material. (Endless belting is available at no charge)
- 175°F belt temperature resistance
- Units up to 20’ long are shipped fully assembled
- 3 year limited warranty
How to Order:

EMI's spring-loaded belt tensioning automatically adjusts to maintain correct belt tension when the incline angle is changed.

Non-drive section has a minimum length of 2'.
Drive section has a minimum length of 3'.
Specify the conveyor Infeed and Discharge Belt Height.
See Conveyor Specifications Form on page 160.

Optional tapered infeed hopper.
Extruded Aluminum Frame

EAR Model | Adjustable Angle, Decline

Standard belt widths: 6", 12", 18", 24", 30"
Available widths: 4"–30" at 2" (50mm) increments

Standard lengths: 5′–20′ at 1′ (300mm) increments*
*Consult your EMI representative for longer lengths

- Anodized extruded aluminum frame with side channels that accept standard 3/8" hex head bolts/nuts
- 0–60° adjustability from horizontal to decline sections with built-in angle indicator
- Anodized aluminum side rails 4" high, 90° overlapping the belt 1¼" per side
- Easy adjusting extruded aluminum leg sets with 4" locking swivel castors
- 1/3hp 90V DC TEFC motor
- Gear reducer is sealed and permanently lubricated requiring no service
- 6-20 FPM variable speed drive (12-40 FPM or 21-70 FPM are available at no charge)
- Timing belt power transmission is enclosed within the conveyor frame
- 100 lb. maximum load
- V-guide belt guidance
- Automatic spring-loaded belt tensioning
- Laced, PVC belting with non-slip top surface, FDA approved material. (Endless belting is available at no charge)
- 212°F belt temperature resistance
- Units up to 20′ long are shipped fully assembled
- 3 year limited warranty

Features

Standard Rails

- Nominal Belt Width (BW)
- Usable Belt Width (BW + 2½")

Straight Rails

- Nominal Belt Width (BW)
- Usable Belt Width (BW + 2½")

No Rails

- Nominal Belt Width (BW)
- Usable Belt Width (BW + 2½")

0 to 60 degree adjustability on horizontal to decline models with built-in angle indicator.
EMI designs and builds conveyor mounted custom enclosure cages to your specifications.

**How to Order:**

Non-drive section has a minimum length of 2’. Drive section has a minimum length of 3’. Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

- Indexing, reversing, and 6-70FPM variable speed functions
- Continuous run mode
- Accepts momentary or maintained signals for indexing and reversing
- Easily adjustable digital timers
- English and Spanish language

Optional indexing control and robot interface

Ask about QuickShip availability when ordering.
Extruded Aluminum Frame

EAZ Model | Adjustable Angle, Z

Standard belt widths: 6", 12", 18", 24"

Available widths: 6"–26" at 2" (50mm) increments

Standard lengths: 7'–15' at 1' (300mm) increments*

*Consult your EMI representative for longer lengths

The EAZ adjustable angle model can be adjusted to a flat configuration.

Features

- Anodized extruded aluminum frame with side channels that accept standard 3/8" hex head bolts/nuts
- 0–60° adjustability from horizontal to incline sections with built in angle indicator
- Anodized aluminum side rails 4" high, 90° overlapping the belt 1½" per side
- Easy adjusting extruded aluminum leg sets with 4" locking swivel castors
- 1/3hp 90V DC TEFC motor
- Gear reducer is sealed and permanently lubricated requiring no service
- 6-20 FPM variable speed drive (12-40 FPM or 21-70 FPM are available at no charge)
- Timing belt power transmission is enclosed within the conveyor frame
- 50 lb. maximum load
- V-guide belt guidance
- Automatic spring-loaded belt tensioning
- Laced PVC belting with 1½" high cleats on 18" centers, FDA approved material. (Endless belting is available at no charge)
- 175°F belt temperature resistance
- Units up to 20' long are shipped fully assembled
- 3 year limited warranty

www.EMIcorp.com
How to Order:

- EAZ - ■ - ■ - ■ - ■ - ■ - ■

Minimum length of motor frame section is 3’. Minimum length of intermediate and non-motor sections is 2’ each. Total combined lengths of all frame sections cannot exceed 15’.

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Ask about QuickShip availability when ordering.

0–60° adjustable angle on horizontal to incline models with built-in indicator. Z models have 0–60° angle adjustability on both transitions.
Trim Line
Aluminum or Steel Frame Conveyors

Our Trim Line conveyors incorporate many of our most popular conveyor features:

- The Direct Drive Power Package
- Your choice of steel or aluminum construction—same price for both
- Low-maintenance, direct-drive drive train
- D.C. variable-speed drive is now standard
- Double V-guide belt tracking for extra-long belt life
- Leg sets and castors included
- 3-year warranty - see page 3

Aluminum or Steel . . . it’s your choice. Choose aluminum for greater portability, steel for maximum heavy duty industrial wear.

Direct Drive Package: The motor and SEALED GEAR REDUCER attach directly to the pulley shaft, minimizing maintenance. NO ROLLER CHAIN OR SPROCKETS to align.

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

DC Variable-Speed Drive: Standard on all Trim Line Conveyors. Choose from 20, 40 or 60 FPM maximum belt speed.

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.

Semi-Modular Construction: EMI belt conveyors are built in sections to allow future changes in belt length, if desired.
**EMI Trim Line, Steel and Aluminum Frame Belt Conveyor Specifications**

1. **Drive Package:** The Direct Drive package includes a C-faced, TEFC 1/4 hp 90V DC motor with a variable-speed controller. Choose from 20, 40 or 60 FPM. 15’ of SJ cord with a standard three-prong plug is pre-wired to the starter (other voltage and motor starters available). Control wiring is contained in liquid-tight conduit and connectors. Drive packages for conveyors 3’–20’ long have 50 lb. maximum load.

   NOTE: We do not recommend running the motor at less than 1/3 of the overall output (speed), as this could result in lowering the life expectancy of the motor. If you are planning on running at less than 1/3 of the output, please consult an EMI Representative.

2. **Belt Guidance:** True Track Belt Guidance System comes standard on 3’–20’ long conveyors. Using a Double V-guide slot in the frame, ¼” 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, 2-3/8” diameter crowned pulleys incorporate 5/8” diameter steel shafts, self aligning sealed ball bearings, telescopic take-up adjustment, position locking nuts, and Zerk grease fittings.

4. **Belting:** Our 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:** Choose from 1/8” anodized sheet aluminum for greater portability, or 12-gauge OSHA orange powder coated steel for maximum stability. Both are built to withstand heavy-duty industrial wear.

6. **Rails:** To ensure molded pieces do not get pinched, damaged, or lost between the rail and belt, we place either 12-gauge stainless steel or 1/8” anodized aluminum 2” or 4” rails (depending on model) so that they overlap the belt. To keep your molded parts contained on the infeed end of the conveyor, we include an infeed-end backpiece.

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 black powder coated steel leg sets and locking swivel castors are included as standard on all Trim Line conveyors. Belt height must be specified.

The standard DC variable-speed package consists of a DC motor and a Penta Variable Speed controller.
Trim Line
ATL  Aluminum Frame | Flat Belt

Standard belt widths: 4”, 6”, 9”, 12”, 18”, 24”
Standard lengths: 3’–20’ at 1’ increments
*Consult your EMI representative for other widths and lengths

Perfect for under the press, along side the press, robotic applications, box filling systems—or anywhere a sturdy, industrial-use, low-maintenance, long-lasting conveyor is needed. Adjustable leg sets and easy-rolling castors provide extra versatility. Standard units are rated for a 50 lb. maximum load capacity.

Features

- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- ½” anodized aluminum sheet
- Double V-guided, FDA approved, white PVC belt
- 2” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
BW = Belt width.

- Standard starter position (specify if other location).
- *Starter position for 8’ or shorter conveyors.

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.

How to Order:

**Specify the conveyor Infeed and Discharge Belt Height.**

See Conveyor Specifications Form on page 160.

**Common Options**

- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Reversing for process control
- Angled nose over section
- Alternate motor locations, see page 161
- Soft drop zone, to cushion part drop
- Side rail extensions for part containment
- Black or rough-top belt

**Ask about QuickShip availability when ordering.**
**Trim Line**

**ATLC  Aluminum Frame | Cleated Belt**

**Standard belt widths:** 4", 6", 9", 12", 18", 24"

**Standard lengths:** 3’–20’ at 1' increments

*Consult your EMI representative for other widths and lengths

Trim Line incline, cleated-belt conveyors are perfect for many uses including moving parts away from the press to a trunkline, box filling system or work station. Adjustable leg sets make height and angle adjustments simple. A wide choice of options allow Trim Line conveyors to be customized to suit many different types of applications. Standard units are rated for a 50 lb. maximum load capacity.

**Optional H-8 hopper**

Shown with optional aluminum leg sets. Black powder coated steel leg sets are standard.

**Features**

- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- ⅝” anodized aluminum sheet
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 18” centers
- 2” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

**ATLC** - [ ] [ ] [ ]

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

**Common Options**

- Infeed hoppers, see page 159 for sizes and dimensions
- 230/60/1 or 220-440/60/3 electrics
- Alternate cleat spacing
- Polycarbonate rail covers
- Angled nose over
- Stainless steel discharge chute
- Robotic and box filling control systems
- Weigh scale
- Alternate motor locations, see page 161

**QuickShip**

Ask about QuickShip availability when ordering.

BW = Belt width.

- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors.

Leg set #1 will be located under drive package for 3’-6’ long and 6”-9” wide conveyors.
An adjustable angle of 20°–45°, makes the Trim Line Adjustable Angle conveyor perfect for under or along side the press or for moving parts to a trunkline, work station, or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles and leg sets are adjustable. A range of options allow Trim Line Conveyors to be customized to suit many applications.

### Features

- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- ½” anodized aluminum sheet
- Adjustable angle incline 20°–45°
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 18” centers
- 4” high side rails, lapped over conveyor belt

- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ overall length ship fully assembled
- 3-Year Limited Warranty, see page 3

*Shown with optional aluminum leg sets. Black powder coated steel leg sets are standard.*
BW = Belt width.

- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors

Drive location for 24’ models is mounted on infeed end. Drive location for 6’, 9’, 12’ & 18’ models is on discharge. 9’ min. infeed belt height with standard legs and castors.

- Discharge chute
- 230/60/1 or 220-440/60/3 electrics
- Side rail extensions for part containment
- Soft drop zone
- Reversing for process control
- Alternate motor locations, see page 161

How to Order:

ATLK - - - - -
CONVEYOR MODEL BELT WIDTH INFEED LENGTH IN FEET DISCHARGE LENGTH IN FEET BELT SPEED PER MINUTE

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

For 6”, 9”, 12”, and 18” belt width models, the motor is located at the discharge. For 24” wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2’, maximum is 7¼’. The “B” dimension incline length minimum is 2’. Contact EMI if A + B exceeds 15’.

QUICKSHIP
Ask about QuickShip availability when ordering.
**Trim Line**

**STL Steel Frame | Flat Belt**

**Standard belt widths:** 4", 6", 9", 12", 18", 24"

**Standard lengths:** 3’–20’ at 1’ increments

*Consult your EMI representative for other widths and lengths

Perfect for under the press, along side the press, robotic applications, box filling systems—or anywhere a sturdy, industrial-use, low-maintenance, long-lasting conveyor is needed. Adjustable leg sets and easy-rolling castors provide extra versatility. Standard units are rated for a 50 lb. maximum load capacity.

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**Features**

- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- 12-gauge steel construction
- Double V-guided, FDA approved, white PVC belt
- 2’ high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
BW = Belt width.
- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors.
  Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.

How to Order:

- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Reversing for process control
- Angled nose over section
- Alternate motor locations, see page 161
- Soft drop zone, to cushion part drop
- Side rail extensions for part containment
- Black or rough-top belt

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Ask about QuickShip availability when ordering.
Trim Line incline, cleated belt conveyors are perfect for many uses including moving parts away from the press to a trunkline, box filling system or work station. Adjustable leg sets make height and angle adjustments simple. A wide choice of options allow Trim Line conveyors to be customized to suit many different types of applications. Standard units are rated for a 50 lb. maximum load capacity.

**Features**

- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- 12-gauge steel construction
- 2" high side rails, lapped over conveyor belt
- Double V-guided, FDA approved, white PVC belt with 1½" high cleats on 18" centers
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10' length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

CONVEYOR MODEL  STLC - [ ] - [ ] - [ ]

Specify the conveyor Infeed and Discharge Belt Height.
See Conveyor Specifications Form on page 160.

Common Options

- Infeed hopper, see page 159 for sizes and dimensions
- 230/60/1 or 220-440/60/3 electrics
- Alternate cleat spacing
- Polycarbonate rail covers
- Angled nose over
- Stainless steel discharge chute
- Robotic and box discharge chutes
- Weigh scale
- Alternate motor locations, see page 161

Ask about QuickShip availability when ordering.

BW = Belt width.

● Standard starter position (specify if other location).

★ Starter position for 8’ or shorter conveyors

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.
Trim Line
STLK Steel Frame | Adjustable Angle

Standard belt widths: 6", 9", 12", 18", 24"
Standard lengths: up to 15' at 1' increments
*Consult your EMI representative for other widths and lengths

An adjustable angle of 20°–45°, makes the Trim Line Adjustable Angle conveyor perfect for under the press, along side the press or for moving parts to a trunkline, work station or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles and leg sets are adjustable. A range of options allow Trim Line Conveyors to be customized to suit many applications.

Features
- Direct Drive ¼ hp 90V DC variable-speed drive package
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- 12-gauge steel construction
- Adjustable angle incline 20°–45°
- Double V-guided, FDA approved, white PVC belt with 1½" high cleats on 18" centers
- 4" high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15' power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ overall length ship fully assembled
- 3-Year Limited Warranty, see page 3

Shown with standard powder coated black steel leg sets and castors.
How to Order:

STLK - - - -
CONVEYOR MODEL BELT WIDTH INFEED LENGTH (IN FEET) DISCHARGE LENGTH (IN FEET) BELT SPEED PER MINUTE

See Conveyor Specifications Form on page 160.

For 6", 9", 12", and 18" belt width models, the motor is located at the discharge. For 24" wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2’, maximum is 7½’. The “B” dimension incline length minimum is 2’. Contact EMI if A + B exceeds 15’.

QuickShip

Common Options

- Discharge chute
- 230/60/1 or 220-440/60/3 electrics
- Side rail extensions for part containment
- Soft drop zone
- Reversing for process control
- Alternate motor locations, see page 161

Ask about QuickShip availability when ordering.
Merit Line
Aluminum or Steel Frame Conveyors

All EMI Merit Line conveyors are equipped with a Direct Drive Power Package. The direct drive system is easy to service and requires less maintenance than other conveyors. Hundreds of pre-engineered options allow them to be tailored to your particular need. The quick and easy adjusting leg sets give you the ability to use them in other applications. They are designed to meet your everyday conveying needs. Their sturdy construction makes them reliable and durable even under the most demanding applications. A 3-year warranty is included, see page 3.

Merit Line Features:

**Aluminum or Steel** ... it’s your choice. Choose aluminum for greater portability, steel 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.

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

**Semi-Modular Construction:** EMI belt conveyors are built in sections to allow future changes in belt length, if desired.
EMI Merit Line, Steel and Aluminum Frame Belt Conveyor Specifications

1. **Drive Package**: The Direct Drive package includes a C-faced, TEFC 1/3 hp motor. Motors through 1 hp are 110/60/1 voltage and come with a thermal protected toggle switch motor starter in a NEMA 1 enclosure. 15’ of SJ cord with a standard three-prong plug is pre-wired to the starter (other voltage and motor starters available). Control wiring is contained in liquid-tight conduit and connectors. Drive packages for conveyors 3’–30’ long have 150 lb. maximum load (drive packages for heavier loads are available).

   NOTE: If an optional variable-speed drive is purchased, we do not recommend running the motor at less than 1/3 of the overall output (speed), as this could result in lowering the life expectancy of the motor. If you are planning on running at less than 1/3 of the output, please consult an EMI Representative.

2. **Belt Guidance**: True Track Belt Guidance System comes standard on 3’–30’ long conveyors. Using a Double V-guide slot in the frame, ¼” 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, 3½” 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**: Our 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**: Choose from 1/8” anodized sheet aluminum for greater portability, or 12-gauge powder coated (light grey) steel for maximum stability. Both are built to withstand heavy-duty industrial wear.

6. **Rails**: To ensure molded pieces do not get pinched, damaged, or lost between the rail and belt, we place either 12-gauge stainless steel or 1/8” anodized aluminum 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 backpiece.

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 black powder coated steel leg sets and locking swivel castors are included as standard on all Merit Line conveyors. Belt height must be specified.
Merit Line
ADF Aluminum Frame | Flat Belt

Standard belt widths: 6”, 9”, 12”, 18”, 24”, 30”, 36”
Standard lengths: 3–30’ at 1’ increments

*Consult your EMI representative for other widths and lengths

This lightweight, yet strong, aluminum conveyor has a multitude of uses: under press, along side the press, overhead and assembly station conveyors, etc. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg sets is determined by the conveyor length.

Features

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- ¾” anodized aluminum sheet
- 150 lb. maximum load
- Double V-guided, FDA approved, white PVC belt
- 4” high side rails lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3

Shown with optional aluminum leg sets. Black powder coated steel leg sets are standard.
How to Order:

**ADF** -  -  -  -

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Common Options

- 40 or 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Reversing, for process control
- Side rail extensions
- Alternate motor locations, see page 161
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Angled nose over
- Black or rough-top belt

BW = Belt width.

- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9” wide conveyors.

Horsepower charts are on page 154
Strong, inclined conveyors move finished parts up to work stations or transfer them to, or from, flat belt conveyors for conveying to assembly or packing/shipping. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg sets depends on conveyor length.

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 150 lb. maximum load
- Double V-guided, FDA approved, white PVC belt with 1½” flexible cleats on 18” centers
- ⅝” anodized aluminum construction

- 4” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3

**Standard belt widths:** 6”, 9”, 12”, 18”, 24”, 30”, 36”

**Standard lengths:** 3–30’ at 1’ increments

*Consult your EMI representative for other widths and lengths*
How to Order:

- Infeed hoppers see page 158 for sizes and dimensions
- 40 and 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Side belt guards for part containment
- Nose overs
- Alternate cleat heights & spacing
- Polycarbonate or deletion of bottom plate
- Over-current sensing control for grinder feeding
- Stainless steel discharge chute
- Alternate motor locations, see page 161

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

QuickShip

Ask about QuickShip availability when ordering.

BW = Belt width.

- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors.

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.

Horsepower charts are on page 154
An adjustable angle of 20°–45°, makes this Adjustable Angle Conveyor perfect for under the press, along side the press or for moving parts to a trunkline, work station or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles and leg sets are easy to adjust. A wide choice of options allow these conveyors to be customized to suit many different types of applications.

**Features**

- Angle adjustment from 20° to 45°
- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- ⅛” anodized aluminum sheet
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 18” centers
- 4” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- All units ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

See Conveyor Specifications Form on page 160.

For 6", 9", 12", and 18" belt width models, the motor is located at the discharge. For 24" and 30" wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2½’, maximum is 7½’. The “B” dimension incline length minimum is 2½’. Contact EMI if A + B exceeds 15’.

Common Options

- 40 or 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Alternate cleat heights and spacing
- Side rail extensions
- Alternate motor locations, see page 161
- Stainless steel discharge chutes
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Process control for reversing
- Black or rough-top belt
This versatile conveyor can be used for a wide range of uses including under the press, along side the press or wherever a three-plane conveyor is needed. Nose-over makes it perfect for feeding into large containers or onto trunklines.

- Direct Drive drive train requires less maintenance
- Double V-guided belt tracking extends belt life

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- 50 lb. maximum load
- 12-gauge steel construction or 1/8” anodized aluminum
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 18” centers
- 4” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

DDZ - - - - -
ADZ

Conveyor Model

Belt Width

Infeed Length (in feet)

Discharge Length (in feet)

Top Shelf Length (in feet)

Belt Speed per Minute

See Conveyor Specifications Form on page 160.

Minimum infeed 'A' length is 2 1/2 ft. Minimum incline 'B' length is 2 1/2 ft. Minimum top shelf 'C' length is 3 ft. Contact EMI if A + B + C exceeds 15'.

Common Options

- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Alternate cleat heights and spacing
- Black or rough-top belt
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Alternate motor locations, see page 161

Drive location for 9", 12", and 18" models is mounted on discharge. 11" min. infeed belt height with standard legs and castors.
These strong conveyors have a multitude of uses: under press, alongside the press, overhead and assembly station conveyors, etc. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length.

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 150 lb. maximum load
- 12-gauge steel construction
- Double V-guided, FDA approved, white PVC belt
- 4” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

- 40, or 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Reversing for process control
- Side rail extensions.
- Alternate motor locations, see page 161
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Angled nose over
- Black or rough-top belt

Specify the conveyor Infeed and Discharge Belt Height.
See Conveyor Specifications Form on page 160.

Common Options

How to Order:

- DDF - □ - □ - □ - □
- BELT WIDTH
- BELT LENGTH
- BELT SPEED PER MINUTE

Specify the conveyor Infeed and Discharge Belt Height.
See Conveyor Specifications Form on page 160.

QUICKSHIP

Ask about QuickShip availability when ordering.

BW = Belt width.
- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.
Horsepower charts are on page 154
Strong, inclined conveyors move finished parts up to work stations or transfer them to, or from, flat belt conveyors for conveying to assembly or packing/shipping. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg sets depends on conveyor length.

**Merit Line**

**DDC Steel Frame | Cleated Belt**

**Standard belt widths:** 6", 9", 12", 18", 24", 30", 36"

**Standard lengths:** 3–20' at 1' increments

*Consult your EMI representative for other widths and lengths

Features

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed Gear reducer
- 150 lbs. maximum load
- Double V-guided, FDA approved, white PVC belt with 1½" flexible cleats on 18" centers
- 12-gauge steel construction
- 4" high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15' power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10' length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

- Infeed hoppers see page 158 for sizes and dimensions
- 40 and 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Side belt guards for part containment
- Nose overs
- Alternate cleat heights & spacing
- Polycarbonate or deletion of bottom plate
- Over-current sensing control for grinder feeding
- Stainless steel discharge chute
- Alternate motor locations, see page 161

Specify the conveyor Infeed and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Ask about QuickShip availability when ordering.
An adjustable angle of 20°–45°, makes this Adjustable Angle Conveyor perfect for under the press, along side the press or for moving parts to a trunkline, work station or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles and leg sets are easy to adjust. A wide choice of options allow these conveyors to be customized to suit many different types of applications.

**Features**

- Angle adjustment from 20°–45°
- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 50 lb. maximum load
- 12-gauge steel construction
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 18” centers
- 4” high side rails, lapped over conveyor belt
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- All units ship fully assembled
- 3-Year Limited Warranty, see page 3
• 40, or 80 FPM constant belt speed or variable speed
• 230/60/1 or 220-440/60/3 electrics
• Robotic and box fill controls
• Alternate cleat heights and spacing
• Side rail extensions
• Alternate motor locations, see page 161
• Stainless steel discharge chutes
• Soft drop zone, to cushion part drop
• Side belt guards for part containment
• Process control for reversing
• Black or rough-top belt

How to Order:

DDK - [ ] - [ ] - [ ] - [ ]

<table>
<thead>
<tr>
<th>CONVEYOR MODEL</th>
<th>BELT WIDTH</th>
<th>INFEED LENGTH (IN FEET)</th>
<th>DISCHARGE WIDTH (IN FEET)</th>
<th>BELT SPEED PER MINUTE</th>
</tr>
</thead>
</table>

See Conveyor Specifications Form on page 160.

For 6", 9", 12", and 18" belt width models, the motor is located at the discharge. For 24" and 30" wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2½”, maximum is 7½”. The “B” dimension incline length minimum is 2½”. Contact EMI if A + B exceeds 15”.

QuickShip

Ask about QuickShip availability when ordering.
Minimizing grease, oil, dirt and debris in a sanitary environment can be one of the biggest challenges for medical molders. EMI designed conveyors that offer a high-quality, economical solution for automating clean room facilities. These standard conveyors can be customized with several available options to better suit a molder’s specific needs.

Our clean conveyors’ sturdy construction makes them reliable and durable even under the most demanding applications. A 3-year warranty is included, see page 3.

**Clean Room Features:**

**Corrosion Resistant:** Aluminum framing and stainless steel guarding and legs resist corrosion and eliminate paint-chip contamination.

**USDA/FDA Approved Belting Material**

**Direct Drive Package:** Replaces leak-prone, chain-driven systems.

**Open-Construction Slide Bed:** With UHMW contact strips eliminates places where abrasive debris can collect.

**Sealed Bearings:** Reduces the possibility of lubricant leaks.

**Semi-Modular Construction:** EMI belt conveyors are built in sections to allow future changes in belt length, if desired.
EMI Clean Room, Aluminum Frame Belt Conveyor Specifications

1 Drive Package: The Direct Drive package includes a C-faced, TEFC 1/3 hp motor. Motors through 1 hp are 110/60/1 voltage and come with a thermal protected toggle switch motor starter in a NEMA 1 enclosure. 15’ of SJ cord with a standard three-prong plug is pre-wired to the starter (other voltage and motor starters available). Control wiring is contained in liquid tight conduit and connectors. Drive packages for conveyors 3’–30’ long have 150 lb. maximum load (drive packages for heavier loads are available).

NOTE: If an optional variable speed drive is purchased, we do not recommend running the motor at less than 1/3 of the overall output (speed), as this could result in lowering the life expectancy of the motor. If you are planning on running at less than 1/3 of the output, please consult an EMI Representative.

2 Belt Guidance: True Track Belt Guidance System comes standard on 3’–30’ long conveyors. Using a Double V-guide slot in the frame, ¼” 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, 3½” 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: Our 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: Choose from 1/8” anodized sheet aluminum for greater portability, or 12-gauge powder coated (light grey) steel for maximum stability. Both are built to withstand heavy-duty industrial wear.

6 Rails: To ensure molded pieces do not get pinched, damaged, or lost between the rail and belt, we place either 12-gauge stainless steel or 1/8” anodized aluminum 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 backpiece.

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 stainless steel leg sets and locking swivel castors are included as standard on all clean room conveyors. Belt height must be specified.
Clean Room Conveyor
ACRF Aluminum Frame | Flat Belt

Standard lengths: 3'–30' at 1' increments
*Consult your EMI representative for other widths and lengths

Custom Clean Room Automation Systems

Our ACR line of clean room friendly conveyors offers medical molders a high-quality, economical solution for automating their clean room facilities.

These standard and optional features can also be built into many of EMI’s standard conveyors and automation systems. We can custom design and build a complete clean room automation system including conveyors, cycle count and filling systems and end-of-arm tooling.

Features

- Aluminum framing and stainless steel guarding and legs resist corrosion and eliminate paint-chip contamination
- A USDA/FDA approved belting material
- An open-construction slide bed with UHMW contact strips eliminates places where abrasive debris can collect (a)
- Direct drive motor replaces chain driven systems that tend to leak
- Sealed bearings reduce the chance of lubricant leaks
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

ACRF  -  -  -  -  BELT SPEED PER MINUTE
CONVEYOR MODEL  BELT WIDTH  BELT LENGTH

Specify the conveyor Infeed Belt Height and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Common Options

- Stainless steel framing
- **Sealed belt edges to minimize dust from belt fraying**
- Non-fraying Intralox® plastic belting eliminates friction contamination and is fast and easy to clean
- Wash-down compliant electrics
- USDA/FDA approved Delrin® rail lining
- Maintenance-free, eco-friendly gearbox lubricated with food-grade grease to prevent leak contamination
- Deionizing blowers to eliminate static electricity and prevent particulates from sticking to parts
- Catch trays to prevent particulates from escaping into the environment

BW = Belt width.

- Standard starter position (specify if other location).
- * Starter position for 8’ or shorter conveyors

Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.
Horsepower charts are on page 154.
Clean Room Conveyor
ACRC  Aluminum Frame | Cleated Belt

**Standard belt widths:** 6”, 9”, 12”, 18”, 24”, 30”, 36”
**Standard lengths:** 3’–30’ at 1’ increments
*Consult your EMI representative for other widths and lengths

Custom Clean Room Automation Systems
These standard and optional features can be built into many of EMI’s other conveyors and automation systems. We can custom design and build a complete clean room automation system including conveyors, cycle count and filling systems, and end-of-arm tooling.

**Features**

- Aluminum framing and stainless steel guarding and legs resist corrosion and eliminate paint-chip contamination
- A USDA/FDA approved belting material
- An open-construction slide bed with UHMW contact strips eliminates places where abrasive debris can collect
- Direct-drive motor replaces chain-driven systems that tend to leak
- Sealed bearings reduce the chance of lubricant leaks
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
BW = Belt width.
- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors.
  Leg set #1 will be located under drive package for 3’–6’ long and 6’–9’ wide conveyors.
  Horsepower charts are on page 154

How to Order:

- Specify the conveyor Infeed Belt Height and Discharge Belt Height. See Conveyor Specifications Form on page 160.

Common Options

- Stainless steel framing
- **Sealed belt edges to minimize dust from belt fraying**
- Non-fraying Intralox® plastic belting eliminates friction contamination and is fast and easy to clean
- Wash-down compliant electrics
- USDA/FDA approved Delrin® rail lining
- Maintenance-free, eco-friendly gearbox lubricated with food-grade grease to prevent leak contamination
- Deionizing blowers to eliminate static electricity and prevent particulates from sticking to parts
- Catch trays to prevent particulates from escaping into the environment
Clean Room Conveyor
ACRK  Aluminum Frame  |  Adjustable Angle

Standard belt widths:  6", 9", 12", 18", 24", 30"
Standard lengths:  5’-15’ at 1’ increments
*Consult your EMI representative for other widths and lengths

Custom Clean Room Automation Systems
These standard and optional features can be built into many of EMI’s other conveyors and automation systems. We can custom design and build a complete clean room automation system including conveyors, cycle count and filling systems, and end-of-arm tooling.

Features

- Aluminum framing and stainless steel guarding and legs resist corrosion and eliminate paint-chip contamination
- A USDA/FDA approved belting material
- An open-construction slide bed with UHMW contact strips eliminates places where abrasive debris can collect
- Direct drive motor replaces chain-driven systems that tend to leak
- Sealed bearings reduce the chance of lubricant leaks
- 15’ power cord included and pre-wired ready-to-run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
For 6", 9", 12", and 18" belt width models, the motor is located at the discharge. For 24" and 30" wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2½’, maximum is 7½’. The “B” dimension incline length minimum is 2½’. Contact EMI if A + B exceeds 15’.

### How to Order:

**ACRK -**  
[ ] CONVEYOR MODEL  
[ ] BELT WIDTH  
[ ] “A” LENGTH  
[ ] “B” LENGTH  
[ ] BELT SPEED PER MINUTE

Specify the conveyor Infeed Belt Height and Discharge Belt Height. See Conveyor Specifications Form on page 160.

**Common Options**

- Stainless steel framing
- **Sealed belt edges to minimize dust from belt fraying**
- Non-fraying Intralox® plastic belting eliminates friction contamination and is fast and easy to clean
- Wash-down compliant electrics
- USDA/FDA approved Delrin® rail lining
- Maintenance-free, eco-friendly gearbox lubricated with food-grade grease to prevent leak contamination
- Deionizing blowers to eliminate static electricity and prevent particulates from sticking to parts
- Catch trays to prevent particulates from escaping into the environment
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.

**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.

**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: The Direct Drive package includes a C-faced, TEFC 1/3 hp motor. Motors through 1 hp are 110/60/1 voltage and come with a thermal protected toggle switch motor starter in a NEMA 1 enclosure. 15’ of SJ cord with a standard three-prong plug is pre-wired to the starter (other voltage and motor starters available). Control wiring is contained in liquid-tight conduit and connectors. Drive packages for conveyors 3’–30’ long have 150 lb. maximum load (drive packages for heavier loads are available).

NOTE: If an optional variable-speed drive is purchased, we do not recommend running the motor at less than 1/3 of the overall output (speed), as this could result in lowering the life expectancy of the motor. If you are planning on running at less than 1/3 of the output, please consult an EMI Representative.

2 Belt Guidance: True Track Belt Guidance System comes standard on 3’–30’ long conveyors. Using a Double V-guide slot in the frame, ¼” 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, 3½” 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 OSHA 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 stainless 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 backpiece.

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.
These strong conveyors have a multitude of uses: under press, along side the press, trunk line systems, overhead and assembly station conveyors, etc. Standard units are rated for a 150 lb. maximum load capacity, but higher capacities are available when needed. Selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length, see page 154. Modular construction allows field changes of lengths.

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 12-gauge steel construction
- Double V-guided, 3–30’ lengths, FDA approved, white PVC belt
- Leg sets and swivel castors included
- 4” high side rails, lapped over conveyor belt
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
How to Order:

- 40 & 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Side rail extensions
- Reversing, for process control
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Alternate motor locations, see page 161
- Black or rough-top belt
- Robotic and box-fill controls

Specify the conveyor Infeed and Discharge Belt Height.
For more lengths, see RMTL on page 70.
See Conveyor Specifications Form on page 160.

QuickShip availability when ordering.
These strong, inclined conveyors move finished parts up to work stations or transfer them to, or from, flat belt conveyors for assembly or packing/shipping. Optional accumulation hoppers can be added. A selection of leg stands are available to provide desired conveyor angles.

**Signature Line**

**RMC Steel Frame | Inclined, Cleated Belt**

**Standard belt widths:** 6", 9", 12"–72" in 6" increments

**Standard lengths:** 3–30' at 1' increments

*Consult your EMI representative for other widths and lengths

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 12-gauge steel construction
- Double V-guided, 3–30' lengths, FDA approved, white PVC belt with 1½" high flexible cleats on 18" centers
- Leg sets and swivel castors included
- 4" high side rails, lapped over conveyor belt
- 15' power cord included. Pre-wired, ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10' length are shipped fully assembled
- 3-Year Limited Warranty, see page 3

Shown with standard leg sets and castors.

*Optional Hopper*

Standard belt widths: 6", 9", 12"–72" in 6" increments

Standard lengths: 3–30' at 1' increments

*Consult your EMI representative for other widths and lengths
How to Order:

Specify the conveyor Infeed and Discharge Belt Height.
See Conveyor Specifications Form on page 160.

Common Options

- 40 & 80 FPM constant belt speed or variable speed
- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Alternate motor mounts, see page 161
- Side belt guards for part containment
- Nose overs
- Alternate cleat heights & spacing
- Polycarbonate or deletion of bottom plate
- Over-current sensing control for grinder feeding
- Infeed hoppers, see page 157 for sizes and dimensions
- Discharge chute
The adjustable angle (from 20°–45°) Kurv-King is built for under or along side press or for feeding trunkline conveyors and work station turntables. Exclusive horizontal to inclined transition eliminates pinch points and assures a smooth part transfer. Adjustments to the discharge section angle, can be made quickly and easily. Units with 4’ to 6’ discharge sections adjust from 20° to 45°.

**Features**

- Adjusts from 20°–45° (12°–45° for some models)
- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 12-gauge steel construction
- 50 lb. maximum load
- Double V-guided, FDA approved, white PVC belt with 1½" high flexible cleats on 18" centers
- 4" high side rails lapped over the conveyor belt with polycarbonate infeed flapper
- Bottom slide tray protects cleats
- Leg sets and swivel castors included
- 15’ power cord included. Pre-wired, ready to run (except on polyphase systems which require customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units ship fully assembled
- 3-Year Limited Warranty, see page 3

**Standard belt widths:** 6", 9", 12", 18", 24", 30"  
**Standard lengths:** 5–15’ at 1’ increments  
*Consult your EMI representative for other widths and lengths*
Infeed hoppers

Side belt guards or corrugated sidewall belt

40 & 80 FPM constant belt speed or variable speed

Soft drop zone

Part-runner separators

230/60/1 or 220/440/60/3 electrics

Alternate cleat heights

Infeed side rail extensions or higher rails for part containment

**How to Order:**

**Conveyor Model**

**Belt Width**

**Infeed Length (in Feet)**

**Discharge Length (in Feet)**

**Belt Speed per Minute**

See Conveyor Specifications Form on page 160.

For 6", 9", 12", and 18" belt width models, the motor is located at the discharge. For 24" and 30" wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2’, maximum is 7½’. The “B” dimension incline length minimum is 2’. Contact EMI if A + B exceeds 15’.

**Common Options**

- Infeed hoppers
- Side belt guards or corrugated sidewall belt
- 40 & 80 FPM constant belt speed or variable speed
- Soft drop zone
- Part-runner separators
- 230/60/1 or 220/440/60/3 electrics
- Alternate cleat heights
- Infeed side rail extensions or higher rails for part containment

Ask about QuickShip availability when ordering.
Signature Line
Kurv-King KK Steel Frame | One-Piece, Fixed Angle

Standard belt widths: 6", 9", 12", 18", 24", 30"
Standard Combined lengths: to 15' at 1' increments
*Consult your EMI representative for other widths and lengths

Versatile, fixed angle conveyors which are ideal for under press or along side press, or for feeding trunkline conveyors and turntable work stations. Exclusive horizontal to incline transition eliminates pinch points and assures smooth part transfer.

Features
- Available with 15°, 30° or 45° discharge angle
- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- No roller chain or sprockets
- Sealed gear reducer
- 12-gauge steel construction
- 50 lb. maximum load
- Double V-guided, FDA approved, white PVC belt with 1½" high flexible cleats on 18" centers
- 4" high side rails lapped over the conveyor belt with polycarbonate infeed flapper
- Bottom slide tray protects cleats
- 15' power cord included. Pre-wired, ready to run (except on polyphase systems which require customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units ship fully assembled
- Leg set with two 4" castors on discharge end included
- 3-Year Limited Warranty, see page 3

Standard black powder coated steel leg set and castors.
BW = Belt width.
- Standard starter position (specify if other location).
- Starter position for 8’ or shorter conveyors.
- Drive location for 24’ & 30’ models is mounted on infeed end.
- KK model is available in 15°, 30° and 45° fixed incline.

**How to Order:**

See Conveyor Specifications Form on page 160.

For 6’, 9’, 12’, and 18’ belt width models, the motor is located at the discharge. For 24’ and 30’ wide models, the motor is located at the infeed. The “A” dimension infeed length minimum is 2½’, maximum is 7½’. The “B” dimension incline length minimum is 2½’. Contact EMI if A + B exceeds 15’.

**Common Options**

- Infeed leg with castors for portability
- Side belt guards or corrugated sidewall belt
- 40 and 80 FPM constant belt speed or variable speed
- Part-runner separators
- Infeed side rail extensions or higher rails for part containment
- 230/60/1 or 220-440/60/3 electrics
- Alternate cleat heights

**Ask about QuickShip availability when ordering.**
Signature Line
RMTL | Flat Belt Trunkline

Standard belt widths: 12"–72" at 6" increments
Standard lengths: 51–250' at 1' increments
*Consult your EMI representative for other widths and lengths

EMI Trunkline Conveyors incorporate rugged cross-bracing and sturdy construction for long distance runs. The end-mounted drives assure reliable belt tracking. Conveyors 51' through 180' long incorporate a 6" diameter drive pulley mounted in a 7" thick frame section and can carry up to 250 lbs. Conveyors 181' through 250' long have an 8" diameter drive pulley mounted in a 9" thick frame section and can carry up to 300 lbs. These heavier drive sections allow the rest of the conveyor frame to be only 4" thick. Higher load capacity drives are available.

Features

- Direct Drive 1/3 hp–2 hp 110/60/1 C-faced drive package (not shown)
- No roller chain or sprockets
- Sealed gear reducer
- 12-gauge steel construction
- FDA approved, white PVC belt
- End-mounted drive ensures reliable belt tracking
- 4" high side rails, lapped over conveyor belt
- 15' power cord included. Pre-wired, ready to run (except polyphase systems which require some customer wiring)
- Control wiring in liquid-tight conduit and connectors
- 3-Year Limited Warranty, see page 3
BW = Belt width.

- Standard starter position (specify if other location).

NOTE: The "T" dimension thickness of frame section is 7" for 51' through 180' long conveyors, 9" for 181' through 250' long conveyors. Horsepower charts are on page 154.

How to Order:

Specify the conveyor Infeed Belt Height and Motor Starter Location. Standard Belt Speeds are 40 FPM & 80 FPM.

See Conveyor Specifications Form on page 160.

Common Options

- Variable belt speed
- 230/60/1 or 220-440/60/3 electrics
- Many more available
Perfect for feeding into vibratory bowls or cap liners, this 65° Nose-Over conveyor is one of our standard products. A wide choice of options, including alternate cleat spacing, cleat height and Intralox® belting allows the ANO65 Model to be customized to meet a wide range of application needs.

**Features**

- Direct Drive 1/3 hp 110/60/1 C-faced drive package (80 FPM uses 1/2 hp drive package)
- 50 lb. maximum load
- 12-gauge steel construction or 1/8” anodized aluminum
- Double V-guided, FDA approved, white PVC belt with 1½” high cleats on 9” centers
- 4” high side rails, lapped over conveyor belt
- Infeed hopper
- Leg sets and swivel castors included. Specify infeed and discharge belt heights.
- 15’ power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units ship fully assembled
- 3-Year Limited Warranty, see page 3
Steep Incline Conveyors

- 230/60/1 or 220-440/60/3 electrics
- Robotic and box fill controls
- Alternate cleat heights and spacing
- Black or rough-top belt
- Soft drop zone, to cushion part drop
- Side belt guards for part containment
- Alternate motor locations, see page 161

**How to Order:**

**AN065 SN065**

CONVEYOR MODEL  BELT WIDTH  INFEED LENGTH (IN FEET)  DISCHARGE LENGTH (IN FEET)  BELT SPEED PER MINUTE

See Conveyor Specifications Form on page 160.

Minimum infeed length is 3’.
Minimum discharge length is 3’.
**Both combined cannot exceed 20’**.

**Common Options**

- Standard starter position (specify if other location).
- A & B dimensions are in 1’ increments.
RMSC  Steel Frame | Inclined, Adjustable Angle, Scoop Cleated Belt Conveyor

Standard belt widths: 12", 18", 24"
Standard lengths: 7’ to 16’ at 1’ increments
*Consult your EMI representative for other widths and lengths

This specialty conveyor uses extra-deep scoop cleats and a cleat trap to lift small- to medium-sized parts at angles up to 75° at any of three belt speeds. Included is a stainless steel accumulation hopper, a stainless steel discharge shroud and chute and castored stand sized to the conveyor length for mobility and sturdiness. Ideal for conveying parts to secondary equipment such as cap lining or assembly machines. To assure proper design, send sample parts and runners to EMI for evaluation.

Features

- 1/3 hp 110/60/1 C-faced sprocket drive package (80 FPM uses 1/2 hp drive package)
- Sealed gear reducer
- 12-gauge steel construction
- Double V-guided, FDA approved, white Nitrile belt with 2¼” high bonded flexible cleats on 9” centers
- 4” high side rails, lapped over conveyor belt
- Adjustable angle (65°–75°), portable stand on locking castors included, as illustrated
- Stainless steel accumulation hopper, discharge shroud and chute included
- 15’ power cord included. Pre-wired, ready to run (except polyphase systems which require some customer wiring)
- Control wiring contained in liquid-tight conduit and connectors
- Units up to 10’ length ship fully assembled
- 3-Year Limited Warranty, see page 3
Steep Incline Conveyors

Variable speed
• 230/60/1 or 220-440/60/3 electrics
• Special hoppers
• Start/Stop controls

How to Order:

RMSC   -    -    -    -    -    -
CONVEYOR MODEL  BELT WIDTH  BELT LENGTH  BELT SPEED PER MINUTE

Specify the conveyor Discharge Belt Height.
See Conveyor Specifications Form on page 160.

<table>
<thead>
<tr>
<th>Standard Hopper Size</th>
<th>12' Belt Width</th>
<th>18' Belt Width</th>
<th>24' Belt Width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7½' cu. ft.</td>
<td>8½' cu. ft.</td>
<td>9¼' cu. ft.</td>
</tr>
</tbody>
</table>

BW = Belt width.
W dimension is belt width +14.5' on 10' and shorter conveyors.
W dimension is 48' on 11' and longer conveyors.
L dimension is 42' min. & 54' max. for 7' thru 10' conveyors.
L dimension is 61' min. for 11' thru 16' conveyors.
**Belt Turns**

**Turntables**

**BT | Belt Turn Conveyors**

Belt Turns are most often used to connect one conveyor, box filling station, or carousel to another. Belt Turns are an excellent choice when parts need to maintain their original orientation on the belt (as in many robotic applications) or if the parts could be damaged by being dropped from one conveyor to another.

**Common Belt Turn Applications:**

- Robotic box-packing
- Protect cosmetically delicate parts
- Prevent tall parts from tipping
- Incorporate multiple belt turns

**Features**

- 1/3 hp 110V AC motor
- Load capacity 40 lbs. per linear foot
- 20, 40 or 80 FPM belt speed (specify)
- 12-gauge steel construction
- 15' power cord included. Pre-wired ready to run (except polyphase systems which require some customer wiring)
- 2-ply rubber modified vinyl belting
- Multiple inside and outside radiuses available
- Call for a list of available options

Drive location is on the discharge end.

RO - Right Outside
RI - Right Inside
LO - Left Outside
LI - Left Inside

Specify inside radius and belt width.

*Cascading flat belt conveyors with belt turn, and receiving cart.*
An oval recirculating station is created by utilizing (2) 180° belt turns and (2) straight conveyors.

By butting a conveyor to this 180° belt turn, parts can be moved through a complete change of direction without being dropped.

Custom covers can be used to protect parts in areas where contamination could occur, or to prevent access in critical areas.
Conveyor to Conveyor Part Transfer

Low-Cost Belt Turn Alternative
This configuration is a low cost alternative to powered belt turns. It consists of two flat belt conveyors with curved side rails and a transition plate. The parts cascade through the turn. The two conveyors are joined together assuring alignment and rigidity.

Adjustable guide rail
SST Transition plate with turning post
Motor mounted under the belt turn

180° turn with (3) straight frame conveyors.
Pivoting section creates a pass-through for personnel or other traffic.
A nosebar option allows parts as small as 1.5" in diameter to be transferred smoothly between conveyors.

A nosebar is a small diameter pulley installed under the belt at the end of a conveyor. The smaller diameter reduces the gap at the end of the conveyor that is typical of larger diameter pulleys and allows small parts to transfer from the conveyor with more stability. This option can be added to any EMI conveyor model.

See page 114 for more information on EMI’s Pivoting Part Diverter
**Turntables**

**TT | Workstation Turntables**

These variable-speed turntables are available in five diameters and heights from 28”–34”. Ideal end-of-belt work station for accumulating, sorting, finishing or packing molded parts. The rotating table and 6” side rails are lined with FDA approved white PVC belting material to protect your parts (shown to the right). Drive motor is behind protective metal guard. Standard castors allow moving the turntables anywhere they’re needed in the plant.

**Features**

- 12-gauge steel construction
- 1/3 hp, 110/60/1 DC variable-speed drive
- Shipped with electrical components completely installed and wired
- Control wiring is contained in liquid-tight conduit and connectors
- Castors, to ensure ease of movement

**Common Options**

- Stationary outer ring: only table surface rotates
- Stainless steel construction
- Tapered stainless steel cones for part distribution

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**Turntable Revolutions**

- 3’ and 4’ diameter = 6½ Revolutions per minute.
- 5’ and 6’ diameter = 5 Revolutions per minute.
- 7½’ diameter = 4½ Revolutions per minute.
- 9’ diameter = 3 Revolutions per minute.

Note: Outside diameter of turntable travel rate (maximum).
EXAMPLE: 4’ Diameter Turntable: 4’ Diameter x 3.14 = 12.56 Foot Circumference. 12.56 Circumference x 6.75 Revolutions per minute = 84.78 Feet of Travel Per Minute.
Diverter funnels parts towards the center of the turntable.

2-Station system allows robotic part distribution to multiple operators who package containers on gravity roller accumulation racks. Turntables provide flexibility for operators to work at variable pace.
Packing & Inspection Tables

Parts Inspection Table
This free-standing stainless steel top, pained steel frame table includes a galvanized roller, LED light fixture, and two shelves. Inspection tables are used to provide a flexible way to inspect or assemble parts. They have an adjustable height and overhead lighting that guarantees a proper part inspection. A discharge chute, rollers, shelves and more can be added and built to your specifications.

Features
- 12-gauge steel construction
- Telescoping legs range from 7” to 68” height with swivel locking castors
- Stainless steel top

Common Options
- Adjustable shelves or drawers
- Integrated conveyors
- Side rails
- Discharge chute
- Overhead lighting
This system separates parts and runners, depositing parts for inspection and manual package by an operator.

Production from (3) separate lines can be brought to a central point for packing or secondary operations.

Linear Work Table
Three robots drop parts into the polycarbonate cages. Lined work tables can be added to almost any EMI conveyor system.
**Roller Conveyors**

**GR | Unpowered Gravity Roller Conveyor**

**Standard roller widths:** 6", 9", 12", 18", 24", 30", 36"

**Standard lengths:** 3’–20’

Cost-effective Gravity Rollers can be used for many different purposes including:

- As transfer sections between belt conveyors or live roller conveyors
- For storing empty or filled containers
- For transferring empty containers to workstations or full containers to shipping

### Features

- Frame assembly: 12-gauge powder coated steel construction
- Choose roller centers of 3’, 4.5’ and 6’
- 1.9” diameter, 16-gauge carrier rollers

### Common Options

- Side rails: 1½” x 3” high
- 12-gauge steel leg sets and castors
- Box stop
- Bracket to attach to another conveyor
- Call for more options
The LPGR low-profile conveyor is a lightweight version of our GR Roller Conveyor. Featuring a 2.5" wide 12-gauge steel frame and 1.38" diameter rollers, the LPGR Model is sturdy enough for a wide range of plastics processing uses.

**Features**
- Frame assembly: 12-gauge powder coated steel construction
- Choose roller centers of 3", 4.5" and 6"
- 1.38" diameter, 16-gauge carrier rollers

**Common Options**
- Side rails: 1" x 3" high
- 12-gauge steel leg sets
- Box stop
- Call for more options

**How to Order:**
Choose roller centers: 3", 4.5" or 6"
See Conveyor Specifications Form on page 160.
Roller Conveyors
CDLR | Chain or Belt Driven Live Roller Conveyor

Standard lengths: 3'–20'

EMI “Live” Chain Driven Roller Conveyors provide a positive drive for handling heavier loads. Normally used to provide flow control of molded part containers. Ruggedly constructed of 12-gauge steel, these custom-engineered conveyors are available in many widths to fit the containers used in your molding operation.

While not quite as heavy-duty as the CDLR model conveyor, EMI’s Belt Driven Roller Conveyors are sturdy enough to handle large totes and containers. By adjusting the tension rollers under the belt, the BDLR Conveyor can be adjusted to provide varying amounts of accumulation pressure.

**Features**
- 1/3 hp 110V AC motor. 110/60/1 C-faced drive package
- Choose speed: 20, 30, or 40 FPM
- 12-gauge steel construction
- 1.9” or 2.5” diameter x 16-gauge steel rollers, 250 lb. roller capacity
- Roller centers of 3”, 4½”, and 6”, depending on roller diameter size
- 15’ power cord included. Pre-wired ready-to-run (except polyphase systems which require some customer wiring)
- 3-Year Limited Warranty

**Common Options**
- Alternate motor locations, see page 161
- “Pop-up” transfer stations
- Box stops
- Side rails
- 230/60/1 or 220-440/60/3 electrics
Model CDLR19 Chain Driven Live Roller
1.9” diameter roller centers.

BW = Belt width.

Model CDLR25 Chain Driven Live Roller
2.5” diameter roller centers.

BW = Belt width.

How to Order:

CDLR - BDLR - 
CONVEYOR MODEL ROLLER WIDTH (IN FEET) ROLLER CENTERS (IN INCHES) SPEED PER MINUTE

See Conveyor Specifications Form on page 160.

Standard Speeds: 20, 30, or 40 FPM

Note: Shown with guard removed.
**Roller Conveyors**

**Pallet and Container Handling**

**Common Options**

- Tilt tables / gaylord dumpers
- Sweep arms
- Pop-up box stops
- Pop-up chain transfers
- Ball transfers
- Weigh scales
- Powered turntables
- Fork lift pockets
- Walk through lift gates

**Container Handling Solutions**

EMI offers a wide choice of heavy-duty roller conveyors and container handling products for moving large or heavy parts, boxes, containers, totes or pallets. In addition to our standard products, we also develop custom solutions to suit the needs of your specific work environment.

*Powered rotary turntables have powered rollers for positive 90° container transfer.*

*Lift station capability allows ergonomic presentation of large containers for easy operator access.*
Pop-up chain transfer

Chain driven rollers with heavy-duty leg sets

Belt transfers

Pop-up box stops

Powered turntable

Gravity roller with box stop

Pop-up box stops

Roller Conveyors

Ball transfer table

Pop-up chain transfer

Scissor lift in up position
**Separators**

**ATS | Rotating Drum Separator**

ATS separators are a versatile, functional, and economic means of part/runner separation. The design of the ATS separator takes into consideration all variable factors that affect separation such as cycle time, speed, gap and process angle, isolates them, and makes them definable by the operator.

### Features

- Standard variable speed drive to fine tune and optimize the product flow and separation
- Ten separation gaps
- Spiral design slows down parts and eliminates parts from sliding through drum
- A single point roller adjustment
- Height & angle adjustments require no tools
- A wide, durable industrial steel base

### Common Options

- 90° Infeed chute
- Stainless steel rollers

We will test your parts and runners on our equipment and contact you with our recommendations.
See "Part-Runner Separation Evaluation:" on page 93

Model ATS
Cycle time: Can affect separation because if too many parts and runners are in the process at one time, they can interfere with each other and prevent proper separation. The ATS has a special metering section at the beginning of the drum to ensure all parts and runners flow through the process without interference and utilize the separation drum’s entire length. Because of this metering section, the separation process is continuous and consistent.

Angle: Most separation devices utilize gravity as part of their means of parts separation. The degree of angle that the parts and runners cascade through the process can greatly influence proper separation. To help benefit from the use of gravity, the ATS separator has an adjustment that can change the angle of decline further ensuring maximum separation.

Features:
- ATS Separator
- S-79 Reversing package
- SST chute and hopper
- Aluminum extension rails and corrwall covers

Single Point Adjustment
ATS Separator features a single-point roller adjustment that allows the gaps between all 10 rollers to be spaced and set by a single control screw.
Part / Runner Separation

A versatile part/runner separator normally positioned at the end of an under press conveyor. The unit incorporates interchangeable pins (pull out and reposition to achieve the best separation rate), a double "True-Track" belt guidance system, an enclosed protected drive, and a stainless steel infeed chute. This part/runner separator is available (as an option) for conveyor attachment.

Features

- 18" Belt Width
- 40 FPM Belt Speed Standard
- Heavy-duty "Industrial Use" construction
- Interchangeable 2¼" long pins, available in shorter lengths as required.
- Pins are available blunt or tapered. Both styles are available in HDPE. Tapered pins are also available in nylon.
- 16-gauge stainless steel adjustable position infeed chute
- Double True-Track belt guidance system
- 12-gauge adjustable height support stand
- EMI Separators are shipped completely assembled, simply position the legs and they’re ready to run.
- 3-Year Limited Warranty, see page 3

Common Options

- 60 FPM constant belt speed
- 0–100 FPM variable belt speed
- Spare pin belts
- Extended separator head, in 12" increments
- Alternate pin styles & materials

How to Order:

Specify one of the following options for your belt conveyor/separator combination:

Option F-1, 60 FPM Constant Belt Speed
Option F-2, 40 FPM Constant Belt Speed
Option F-3, 0-100 FPM Variable Belt Speed
Option F-6, Extended Length Separator Head, in 12" increments. Specify desired extension length.
Stand-Alone

Features:
- Deionizing bar
- Containment hood
- EA-PLC Controller for bad shot reversing
- Polycarbonate covers and extension rails

Connected to a Flat Belt Conveyor

Part-Runner Separation Evaluation:

**What we need:**

1. **Sample Parts and Runners**
   Send us three complete “shots”. Be sure the runners are typical of the runners that the separator must work on. If you run a fast cycle and the runners “curl up”, send us those runners.

2. **The Cycle Time**
   In seconds.

3. **Conveyor Style**
   Your preference of conveyor style, such as flat belt or cleated belt.

4. **Press Dimensions**
   Fill out the appropriate press dimensional data form, located on pages 162–163.

Send samples to: EMI Corp. 28300 Euclid Ave, Wickliffe OH 44092 (Be sure to include your name, phone and company name.)
**Separators**

**STN / STN-LK | Rotating Drum Separator**

**Model STN-LK - Great for caps and closures!**

The STN-LK drum separator sorts dissimilar sized parts a different way. This popular design has tubes welded to the outside of each hole. It is an excellent choice for applications with sprue/runner systems that tend to slip through simple round holes and pivot, wedging them into the hole. The tubes prevent the sprues and runners from pivoting, allowing them to easily pass through the system. The drum has specific diameter holes throughout its length that are sized to allow smaller parts through the holes and everything else passes down to the end of the process.

**Model STN - LK** (larger drum diameter)
- Length: 48"
- Width: 27.6"
- Height: 39.3"

**Model STNP - LK** (smaller drum diameter)
- Length: 48"
- Width: 19.6"
- Height: 39.3"

*Individual drums are removable, allowing one base to serve multiple drums.*
Features:

- STN-LK Part separator
- Portable table to catch runners
- SST extension rails and corrwall cover
- Adjustable work table with overhead light and discharge chute

In some applications, sprues and runners tend to settle to the bottom of the drum, preventing the round parts from passing through the holes. This drum has small pegs attached to the inside of the drum to pick up and tumble sprues and runners that settle on the bottom.

EMI Part/Runner Separators mechanically separate sub-gated parts (not attached to a runner) and are not intended to be used to break parts away from a runner.

Each separator is intended to be used in conjunction with or attached to an EMI belt conveyor. A typical application places the belt conveyor under the press and mold to catch the shot, then move the parts and runners out of the press and separate them into two different containers or onto additional conveyors.
Standard Belting

**Standard EMI Conveyor White PVC**

Our standard white PVC belt is an excellent general purpose belt. It’s constructed using two plies of mono filament/multifilament fabric with a FDA/USDA approved PVC cover. Its stretch resistance characteristics are far superior versus woven style materials.

- Anti-static
- Non-marking
- Contact temperature range: 5°–210°F
- For handling plastic parts requiring FDA/USDA approval.

**Standard EA Conveyor Blue Polyurethane Belting**

Constructed of 2 ply polyester fabric with monofilament weft for lateral rigidity. It has an easy to clean top surface and features excellent resistance to greases and oils. Readily available in standard blue color or green.

- Various cleat sizes and heights
- Anti-static
- Non-marking
- Contact temperature range: -22°–175°F
- For handling plastic parts requiring FDA/USDA approval.

Note: This belt can be used on models other than the EA line: Dimensions vary slightly.
Specialty Belting

Black PVC Belting
- Standard belt or with a longitudinal ridge
- Anti-static
- Non-marking
- Contact temperature range: 5°–210°F
- Industrial grade, not FDA
- Cleated versions available

Gray PVC Belt
- "Sticky" top, good for incline conveying
- Non-marking
- Contact temperature range: 5°–210°F
- Industrial grade, not FDA
- Cleated versions available

Rough-top Solid Woven Polyester Fabric
This rough-textured, non-skid surface enables some parts and boxes to be conveyed on incline or decline.
- Available in tan, white, and black
- Flexible, yet stretch and moisture resistant.
- Non-marking
- Contact temperature range: -40°–250°F
- Industrial grade, not FDA

See page 139 for part cooling belting options
Specialty Belting

Open Fiberglass High-Temp. Mesh Belt
Teflon® coated fiberglass material is very resistant and durable to high temperatures. Its open mesh construction allows for air movement through the belt.

- For handling plastic parts requiring FDA/USDA approval.
- Contact temperature up to 550°F

3-ply Heavy-duty, High-Temperature Polyester Belt
This belt is popular with high temperature applications. The corrugated side wall is made of foamed PU.

- 3-ply makes it very impact resistant
- Temperature range: -22°–194°F
- Short temperature range: -22°–356°F
- Industrial grade, not FDA

3-ply High-Temperature Butyl Belt
Designed for extreme temperatures this belt is recommended for both high-heat and cooling applications.

- Non-marking
- For handling plastic parts requiring FDA/USDA approval.
- Contact temperature range: -50°–300°F
- Cleated versions available

See page 139 for part cooling belting options
**White Polyurethane Belt**
- Anti-static
- Non-marking
- Contact temperature range: -22°–175°F
- For handling plastic parts requiring FDA/USDA approval.
- Cleated versions available

**Green Polyurethane Belt**
- Anti-static
- Non-marking
- Contact temperature range: -30°–175°F
- For handling plastic parts requiring FDA/USDA approval.
- Cleated versions available

**Gray PVC Ridged Belt**
- Anti-static
- Non-marking
- Contact temperature range: 5°–210°F
- Industrial grade, not FDA

**Blue PVC Ridged Belt**
- Anti-static
- Non-marking
- Contact temperature range: 5°–230°F
- For handling plastic parts requiring FDA/USDA approval.
- For many incline applications this ridged texture belt grips parts and can be used in the place of a cleated belt.
Common Conveyor Options

T-Style Leg Stand
T-Style leg stands are practical on short length conveyors where two conventional leg sets would make the conveyor overly unstable for the application. They also provide a good way to cantilever the infeed section for easy maneuverability of a conveyor over the base of a press.

Quick Adjustment Rack
The EAK and EAZ conveyors have an optional angle adjustment rack which allows you to change the conveyor angle with no tools.

*Ask for this option on quotations if desired.

Other Frame and Leg Options:
- Frame extensions can retrofit existing conveyor
- Quick adjust telescoping leg supports
- Anodized aluminum and 12-gauge steel supports
- Rigid, swivel, locking, or low profile castors

Floor brackets to bolt legs to floor  Levelling pads  Floor positioning pins  Frame mounted castors
**Deionization - Static Elimination**

EMI can add a static neutralizer to your belt conveyors through which parts flow on their way to other conveyors, work stations or downstream equipment. This option minimizes dust and dirt attraction to parts, and also reduces parts clinging to each other or metal surfaces they touch.

Dust contamination can present major problems for the molded plastics industry. The removal of dust can be substantially improved by the use of this part ionization control system.

**Robot Enclosure Cages**

EMI can custom design the perfect enclosure for your Conveyor or Automation system.

Robotic enclosures provide two important benefits - they protect operators from the robot arm, and they help to protect the robot from being damaged by other equipment.

*See more examples on pages 105 & 111.*

**Soft Drop Zone**

We offer two styles of soft drop zones. On the left, a soft drop zone cut out of the slider bed, under the belt. This helps cushion part drop, and also minimizes part damage and noise. Specify length and width dimensions. Price: $150.

On the right is a soft drop zone pad which can be installed to minimize part recoil. This option also reduces part damage and noise.

*Ask for this option on quotations if desired.*
Robot Interface Options

EA-PLC Compact PLC Indexing Control System:
EMI's Compact PLC Indexing Control (EA-PLC) is a 110/60/1, NEMA 1 electrical control system designed to index a conveyor when a signal is given by the robot. The customer must wire from the robot into the EMI control enclosure a set of contacts to signal whenever the conveyor is required to move.

- Compact NEMA 1 enclosure with LCD display and soft touch function keys for user setup.
- Eliminates large enclosures normally associated with many indexing packages.
- Ideal for robot indexing, box filling, and process control tie-in applications.
- Indexing, reversing, and 6-70FPM variable speed functions.
- Continuous run mode
- Accepts momentary or maintained signals for indexing and reversing.
- Easily adjustable digital timers.
- English and Spanish language.
- $795 option

- Compact PLC Indexing Control Systems are available on our other conveyor models, contact EMI for pricing.

EA-ID Space Saver: Motor and Drive Mounted within the Conveyor Frame:
Available on EA model conveyors, the motor and drive can be mounted within the conveyor frame. This reduces the conveyor width by 7¾" compared to the standard EA motor and drive mounting.

Additional EA Space Saver information on pages 9–10
S-44 Indexing Control System:

EMI’s Indexing Option (S-44) is a 110/60/1, NEMA 1 electrical control system which indexes a conveyor when a momentary signal is given by the robot. The customer must wire from the robot into the EMI control enclosure a set of normally open contacts which close momentarily whenever the conveyor is required to move. This system includes:

- Available on all EMI conveyor models
- A NEMA 1 control system enclosure
- A time delay relay (1 second to 100 hours standard, custom times available), manual push start, or photo eye to index
- A terminal block used to wire in any of the options listed
- A signal plug with a receptacle used by the customer to supply a set of normally closed contacts from the robot

Adding T-77 DC Variable Speed:
(If conveyor does not come equipped as standard)

- Allows you to have more parts on the belt to minimize operator time and increase part cooling time
- Provides a “soft” start/stop. Some parts, due to their shape and/or center of gravity, fall over when a constant speed drive starts. EMI’s DC and AC variable speed drive starts and stops gradually which prevents this.

Other Common Options:

- Reversing for bad shot rejection can be easily added
- Manual foot petal override
- Clutch in lieu of variable speed

Additional Comments about Indexing:

Accuracy of indexing repeatability — Indexing controls use time delay relays and/or variable speed drives for ±1/2” repeatability; An optional clutch for ±1/4” repeatability or a brake clutch for ±1/8” repeatability; Special options for even closer indexing are available.

Single-phase, AC motors are not designed to be turned on/off more than once every three minutes. Doing so will cause premature motor failure. For Indexing Conveyors, use one of the following three alternatives:

1. Specify either 230 v. or 460 v., three-phase motors
2. Use a clutch to eliminate turning off the motor
3. Specify EMI’s variable-speed drive (recommended)

Note: Constant belt speeds are available in 110/60/1, 220/60/1, 230-460/60/3 AC and variable belt speeds are available in 110/60/1, 220/60/1 DC, or 110/60/1 or 230/60/1 in, 230/60/3 out. 1/3 hp—1/2 hp. 460/60/3 input, 460/60/3 output.
Robot Interface Options

Index / Reverse Combination Drive Option  T-99-VS

- 110/60/1 NEMA 1 Emerson M400 variable frequency drive with 230/60/3 AC output to motor. 230/60/3 motor included.
- Option T-99-VS: Starting at $615.
- 230/60/3 and 460/60/3 input options available.

Advantages:
- Smaller footprint on conveyor with no extra enclosures or excessive hardware as needed with S-44 indexing and S-76 reversing options.
- The drive and motor are the only electrical components so there are fewer electrical components to stock or replace.
- An economical choice versus other indexing / reversing options.

Notes:
- Low end speed will result in loss or torque with high weight loads.
- Drive can be pre-configured for any combination of indexing and reversing options. It is necessary to inform EMI of the desired pre-configuration.
- Indexing and reversing can be controlled by either a momentary or maintained normally open dry contact or 24VDC signal.
- Indexing and reversing times are adjustable on the drive via parameter change.

Common Electrical Options: [available on all EMI conveyors]

- Emergency Stop
- Foot Pedal
- Reset & Reverse Buttons
- Safety Switch
- AC Motor Speed Control
- Many Types of Photo Eyes
- 3-tier Signal Lights
- Single Signal Light
Robot Arm Guarding

Custom Robot Arm Enclosures

Protecting workers and equipment is easy:
- Send us an email with a hand sketch, photo, or detailed outline.
- You’ll receive a 3D drawing like the examples on this page.
- Most enclosures come fully assembled.

Electrical interlock switch on door to prevent robot motion during access to enclosed areas.

Optional floor positioning pins available.
Large Part Conveyors

Large Part Transfer
EMI offers a number of conveyors, specifically developed to convey long parts. The conveyors shown on this page are just a few of the many styles we offer.

Bumper Facia Conveyor
This conveyor was designed to move automobile bumper facias that have been robotically placed. The system is adjustable to accommodate different sized bumpers.

How it Works:
Automobile bumpers are placed onto two separate, but attached, conveyors. Special raised edge belting supports the molded bumpers. The space between the two conveyors is easily adjusted.
Versatile Conveyors with Adjustable Widths
As applications change, so does the width of these conveyors. Designed for auto bumpers, it includes a foot pedal & emergency stop.

Irregular Part Transfer
Irregular parts are successfully handled and transported between operations with this robot interface conveyor.
Parts Containment

**Side Belt Guards**

Sidewall Belting with cover rails keeps small parts & scrap on the belt.

Adding EMI’s corrugated sidewall belting to your conveyor will keep small parts from hanging up on the side rails or jamming between the side rails and the belt. The cover rails keep parts from getting behind the belt.

Side belt guards provide a low-cost method of preventing parts or scrap from being trapped under side rails. **Note:** Due to friction this option may require a larger motor for the conveyor. Call for more information. Side belt guards are not available for Trim Line conveyors. As an alternate, consider Brush Rail Guards.

Enclosures Keep Contaminants Out

Ensure parts are contained with side rails, polycarbonate windows and covers while cooling them.

*More enclosure applications on pages 105&111.*
Hinged or Folding Side Rails

When under-press space is limited, or when there are under-press obstructions, hinged or folding side rails can be added to the conveyor. Rails simply fold in, out of the way, while the conveyor is positioned, then fold out when it’s in place.

This allows a narrower, more maneuverable conveyor to be used, yet still provides a wide parts receiving area. Rail heights are customized to fit your application. Folding side rails are also an excellent way to protect the conveyor belt when molds are frequently changed.
Conveyor Enclosures

We can custom design an enclosure for your EMI conveyor

- Keep molded parts clean
- Protect people from moving equipment
- Protect equipment from people
- Often used where robots place parts on conveyors
- Also used with box filling systems and multi-level systems
- Can be made of clear polycarbonate or steel
- Can be hinged, bolted on, or attached with Velcro®
- Can be interfaced with safety options like alarm lights or lockouts
This belt turn application has a polycarbonate enclosure. Indexing control options have been added along with signal lights, emergency stop, and sensors to detect parts presence.

This custom enclosure does double duty—it shields workers from robot operation, and it protects the infeed section of a granulator. An enclosure such as this can be an excellent and economical way to enhance worker safety.

When planning your conveyor application consider the enclosure as an important part of a safe operation. Access to the belt can be controlled with hinged, sliding, or vertical rise doors with safety interlock switch.
Specialty Hoppers

No matter what your application needs are, EMI can design the perfect hopper for your conveyor.

Side Feed, Under-Press Hopper
Low-cost, side feed, under press hopper eliminates the need for an under-press conveyor.

For many applications, a side mounted infeed hopper can be an inexpensive alternative to an under-press conveyor.

The angle of descent necessary to allow parts to move freely will vary depending upon the size and shape of the part being molded. In most cases however, it must be at least 23°.

Vibrators, air blowers, or Teflon® lining can be used to help assure that parts move consistently. The addition of low profile, side mounted castors allows it to be rolled easily under the press.

Under-press Conveyor Hoppers Assure Parts Containment

A hopper mounted on an under-press conveyor is an excellent way of assuring that parts leaving the mold end up where they should. An under press hopper will also help to contain parts in the event the conveyor stops while the molding machine continues to run. Use a polycarbonate cover on hoppers to keep contaminants out!

See page 157–159 for more information on how to order Accumulation Hoppers
A soft lining on the inside walls of this hopper assists in preventing cosmetically delicate parts from being scratched as they are fed into the hopper.

Extra-large hoppers such as these are an excellent way to assure complete part containment when feeding parts into bowl feeders, grinders, etc.

Extra-large hoppers may need legs to help support their weight and prevent the conveyor from tipping over. The legs on this hopper have castors to allow it to be easily moved when the conveyor is moved.

Options:
- Powder coated Steel, Stainless Steel, or Carbon Steel
- Low-Profile
- With pivoting flapper
- Adjustable
- With soft lining
Pivot Style Parts Diverting

Parts Diverters save sorting and inspection time by automatically getting rid of bad parts. Economical, stand-alone or conveyor-mounted units, can be placed under the drop zone of the press or outside the press. Various voltage coils are available to fit your requirements. The diverter operates on a signal from the customer’s process control.

Features

- 12-gauge steel construction
- 110-volt solenoid valve, air cylinder, air regulator
- Chute tapers 6” or less nominal width
- Two polycarbonate guards for part containment

Part Diverters can be added as an option to any EMI flat belt conveyor!

They can also be added to existing conveyors or supplied as separate units.
Gate Style Automatic parts diverters keep parts filling continuously with only minimal operator input.

How it Works:

- A part count is entered into the counter, and the system is started.
- An air cylinder pushes the first diverter into the open position, and parts are diverted into the first container.
- When the count is met, the feed conveyor stops, allowing all of the counted parts to empty into the container.
- The first diverter closes and the next one opens.
- The feed conveyor starts again, bringing the next part count.
- The operation continues until all containers have been filled.

Features

- The two sides of each diverter become the side rails of the conveyor when the diverter is closed.
- Diverters are lined with low-friction UHMW to help keep parts flowing smoothly and prevent cosmetic damage.
- Parts continue to be counted when the feed conveyor is stopped, allowing the system to continue without interruption.

Polycarbonate enclosures and custom chutes contain parts.
Lane Style Parts Diverting

Benefits of this type of system:
Cavity separation / Quality control
Separate conveyor lanes isolate mold cavities. If one section of the mold fails, only parts from that cavity need to be discarded.

Chutes extend robot range, Increase robot speed
Chutes can be used to move parts beyond the normal range of a robot. They can also increase the speed of a robot by allowing it to release all four parts at once, without having to rotate the end-of-arm tooling.

Lane Dividers Segregate Parts
Lane dividers can be added to almost any EMI conveyor to segregate different parts and keep them apart during the conveying process. They are an excellent choice for segregating different parts from family molds or for conveying parts and runners to different processes or containers.

Great Choice!
✓ Family Molds
✓ Keeping parts and runners separate
EMI conveyors and automation systems are designed utilizing 3-D CAD solid-model engineering coupled with 40 years of experience providing quality, custom automation solutions for the plastics molding industry. Whether you need a single automation cell or a lights out, plant-wide system EMI will design and build an automation system that meets your requirements and exceeds your expectations.

EMI's Trunk Line Conveyors are built for plant-wide systems and incorporate rugged cross-bracing and sturdy construction for long distance runs. The end-mounted drives assure reliable belt tracking.

Our custom conveyor lines, matched with the many options listed in this brochure, create an application built to exceed your expectations.
Cycle Count Box Filling

A Cycle Count Box Filling System is the most economical method to automatically bulk pack small parts into shipping or storage containers. Cycle count systems are cost effective and easy to implement—simply enter the number of shots to be filled into each container. Cycle count systems can be as basic as the straight inline configuration shown here or they can be incorporated into larger systems such as multi-level systems shown on pages 124–125.

Typical In-Line Configuration

The empty box holding conveyor can be either cleated or non-cleated. A cleated belt box holding conveyor provides easy, preset spacing for boxes. Indexing various box sizes is simple with cleated belt conveyors which use a simple, no maintenance cleat position switch to control the indexing of boxes into the filling position.

If the molded parts are flat and don’t roll the parts feeding conveyor can be a flat belt. If the parts roll a cleated belt conveyor is recommended.

The full box holding conveyor can be a low cost gravity roller conveyor (shown) or a powered roller or powered belt conveyor to pull filled boxes away and convey them to downstream box taping or palletizing stations.

Flat belt conveyors use photo eyes to index boxes into the filling position. While a flat belt has a lower cost than a cleated belt, when used in a box filling application, this configuration requires attention to photo eye positioning especially when changing box sizes.

Common Options

- Delete cycle counter (when molding machine is equipped with one)
- "No empty box" alarm and "Alarm Condition" indicator signals no container in next fill station and separate light indicates situation hasn’t been corrected
- Strobe lights for either, or both, alarms

- Under the press indexing
- Inspection cycle (includes under-press indexing)
- Process control tie-in
- 230/60/1 or 220-440/60/3 electrics

EMI’s Cycle Count Controls

The NEMA 1 enclosure includes a 0-999999 adjustable cycle counter with push button input, liquid crystal display, and timer. A cleat-sensing limit switch, mounted on the empty box holding conveyor, ensures correct box positioning. Also included: on/off switch, manual reset button, time delay relays and a receptacle with plug, to accept the customer supplied signal.
Cycle Count Box Filling

This versatile box filling unit fills two boxes, yet occupies minimal floor space. The two adjustable ambient air fans cool parts before they enter the SPD pivoting part diverter.

Easy set up

- The control unit is interfaced with the molding machine to receive a cycle count signal.
- The feeding conveyor is plugged into the control unit.
- The number of cycles needed to fill each box is entered and the counter is set.
- When the set number of cycles has been filled, a left/right diverter automatically flips to fill the next box.
- When a full box is replaced, the operator pushes a reset button. If the first box is not replaced, the conveyor stops.

An operator places empty boxes side by side on to the top conveyor. Next, a robot drops 4 left-handed parts and 4 right-handed parts in the appropriate box. Parts fill each box, and a signal activates a cylinder to angle the gravity downward to dispense the full box onto the gravity feed roller conveyor.
Weigh Scale Box Filling

A Weigh Scale Box Filling Conveyor System is the most precise method to bulk pack small parts into shipping or storage containers. This automated system, sized to meet your container and floor space requirements, includes selected EMI under-press and beside-press conveyors, one with a weigh scale and photo-eye, plus a customized control system.

Automatic Box Filling Systems reduce labor costs by minimizing both the amount of time and number of people required to handle bulk-packed, molded parts.

A basic EMI Weigh Scale control system, like the ones shown on this page, typically allows one operator to handle the production from eight to ten machines. Large, multi-level systems can provide even greater savings.

EMI’s Weigh Scale Controls

The NEMA 1 enclosure includes a weigh scale push button control and display for the platform. A cleat-sensing limit switch, mounted on the empty box holding conveyor, ensures positive container movement. A photo-eye assures correct positioning. Also included: on/off switch, manual reset button, programmable control and interfacing relay. A recommended option is the “no empty box” alarm, with Alarm Condition indicator.

Typical In-Line Configurations:

Common Options:

- “No Empty Box Alarm” and “Alarm Condition” Indicator signals no container in next fill station
- Weigh scale, two-speed cut-off for multi-cavity molds
- Variable-speed drive and two weigh set points provide a ‘creep’ speed near fill weight to trickle in parts until shut off at fill weight
- Floating beam load cell

- “Full Box” alarm signals there is no more room on the conveyor for filled boxes
- Strobe lights for full box & empty box alarms
- Under the press indexing
- Inspection cycle (includes under press indexing)
- Process control tie-in
- 230/60/1 or 220-240/60/3 electrics
Simple Installation:

Once the under press and beside press conveyors are positioned, the system can be plugged in. Conveyors, weigh scale and photo-eye are pre-wired into the control system. The under press conveyor plugs into the control system. The operator then simply enters the desired weight or piece count into the scale control.

Automating for Productivity

Weigh Scale automation systems can be designed to specifically meet a wide range of application needs. The systems shown on this page were custom engineered to provide excellent labor saving benefits. EMI will engineer a system to meet your specific needs.
Batch-Mode, Weigh Scale Box Filling

Accuracy to within 0.5 grams
EMI’s batch mode, Weigh Scale Hopper was specifically developed to provide maximum, part counting accuracy. Depending upon the size of the load cell selected, Weigh Scale Hoppers are capable of detecting part weight as small as 0.5 grams.

Accurate - Because the Weigh Scale Hopper weighs in small batches, it can achieve a much greater level of accuracy than traditional platform style weigh systems that must weigh the container, the weigh scale platform and the total number of parts. The Weigh Scale Hopper can achieve accuracy to within 0.5 grams - however, the final degree of accuracy will depend upon a number of application factors, including the size of the parts, number of parts on the final cleat, feeding conveyor speed, etc.

Fast - The Weigh Scale Hopper does not have to stop filling while a new box is moved into the fill position.

Flexible - The Weigh Scale Hopper can be used with almost any box or bag filling system. It can also be used with existing cycle count systems - simply slide it into place and the system becomes a weigh scale system.

Space Saving - The Weigh Scale Hopper does not require a separate fill position.

Economical - The Weigh Scale Hopper costs less than traditional weigh scale systems.
Batch-Mode, Weigh Scale Box Filling

Weigh Scale Hopper Box Filling System

How it Works:

- By sampling a given number of parts in the hopper, a part weight and batch weight is determined.
- The number of parts required for a full container is entered into the control system.
- The feeding conveyor fills the weigh hopper until the batch weight is reached.
- The feeding conveyor stops momentarily while the weigh hopper dumps the batch into the container.
- Batches are filled into the container until the final batch is being filled. The controller then determines how many more parts have to be filled to meet the final weight. As the final parts are being filled, the controller slows the feeding conveyor to allow the parts to slowly dribble in.
- The hopper dumps the last batch, zeros itself out and immediately begins filling again.
- The container indexes and a new container takes its place.

Exceptional Versatility!

Weigh Scale Hoppers can be used with almost any type of container filling system – including, Inline, automated turntables, bag filling, box filling, multi-level storage systems, etc.
Box Filling Configurations

Over/Under Automation Cells
Multi-level box filling systems are custom designed to maximize the amount of time they can run unattended by storing a lot of boxes on multiple conveyors. Naturally multi-level systems also make excellent utilization of floor space.

Over/Under System

Common Options
Options allow EMI automated box filling systems to be individually configured to meet almost any application need. A few of the most common options include:

Method of Filling Parts
- Cycle count
- Weigh scale
- Weigh scale hopper
- Robot

Conveyor Construction
- Steel
- Aluminum

Conveyor Belt
- Flat belt
- Cleated belt
- Gravity roller
- Live roller

Elevator Platform
- Round belt conveyor
- Belt conveyor
- Roller tilt conveyor

See box filling specification sheet on page 163
Over/Under System with Weigh Scale

Fill Position Options:

- Empty boxes are placed onto the bottom conveyor. They are positioned onto the elevator platform by an indexing conveyor with a photo-eye (or a cleat switch). The elevator lowers them and moves them into the fill position, where they are filled by an under-press conveyor.
- This fill position is similar to position #1, except the under-press conveyor fills boxes through an opening in the safety cage. This option maximizes full box storage.
- Empty boxes can be placed on the bottom conveyor and be filled by a robot. The filled box is indexed onto the elevator and raised to the top storage conveyor.
Box Filling Configurations

Side-By-Side Systems

Side-by-Side box-filling systems are an economical way to increase the number of boxes that can fit into a limited space. They are suitable for use with almost any type of fill system including cycle count, weigh scale hopper, robot, etc.

Sweep Arms

Sweep Arms can be used for many different types of applications. They are an excellent way to transfer full or empty boxes from one conveyor to another, or to accurately position boxes for robotic filling. A wide range of styles and sizes are available.

Weigh scale hopper

Sweep arm

Indexing empty box conveyor

Filled container storage conveyor

Advantage!
All full and empty box handling is done from one end of the system

Photo eyes can be mounted to any EMI conveyor with brackets, without frame modifications.

This basic sweep arm application transfers boxes from an indexing flat belt conveyor to a roller storage conveyor.
Side-by-Side Systems with Weigh Scale

How it Works:

- The empty box will be conveyed/indexed onto the scale and positioned by the photo-eye/sweep arm.
- The scale will weigh the empty box and deduct the “tare weight” zeroing the meter.
- The part conveyor will run continuously until the preset weight has been conveyed into the container.
- When the correct weight is met, the control system will momentarily stop the part conveyor.
- The scale conveyor and sweep arm are then activated to exit the full box, which will run until the photo-eye positions a new empty box on the platform.
Box Filling Configurations

90° Box Filling Automation Systems

This common L-shaped system with a 90-degree turn maintains box/pallet orientation and was designed for limited floor space. Our 90 degree box transfers effectively address the common problems associated with traditional right angle systems and tight curve conveyors: inaccurately positioned packages and sensor failures that cause jams, line slowdowns, and downtime.

This 90° box fill system has an indexing control package that assures boxes are in the correct fill position. Boxes move to a weigh scale before a sweep arm moves filled boxes to the roller storage conveyor. A two signal alarm lets the operator know when empty boxes need to be replenished and when there is no more room for full boxes.

90° Box fill systems are ideal solution

- Ensures accurate product orientation and product positioning
- Can be used for box / tote filling by weight or count
- Eliminates sensors and controls plus associated maintenance time and costs
- Creates a compact system layout
- Is a low-cost alternative to a 90° belt turn
Large Container Box Filling

EMI can design and manufacture custom systems to meet your large container or tote filling requirements. From single station to multiple station filling EMI has the know-how to design a system to meet your requirements.
Box Filling Configurations

Available Diameter Sizes: 3', 4', 5', 6', and 7'

The Indexing Carousel is a versatile, cost-effective way to automatically fill parts into boxes or bags. Compact round shape in five diameters (3', 4', 5', 6' and 7') is great for areas that are often too small for a traditional inline system such as the space at the end of the molding machine.

The Automatic Turntable operates on a count signal from the molding machine, a robot or a weigh hopper (see page 122) and can be programmed to fill many different sizes and shapes of boxes or bags.

Weigh Scale Hopper Bag Filling

Need to fill a lot of bags quickly and accurately? Combine a Weigh Scale Hopper, which can weigh to within 0.5 grams, and an Indexing Carousel.

How it Works:

- Parts are brought from under the press to a feeding conveyor, which feeds them into the Weigh Scale Hopper.
- When the Weigh Scale Hopper reaches the programmed weight, it momentarily stops the feeding conveyor and drops the parts into the 1st bag.
- As soon as the parts drop, the hopper closes and the feeding conveyor restarts.
- When the correct weight is reached, the weigh hopper stops the feeding conveyor and drops the parts into the 2nd bag.
- As soon as the parts drop, the hopper closes and the feeding conveyor restarts.
- The carousel unit then indexes, placing two more bags into the fill position.

See box filling specification sheet on page 163
Double the Capacity!

A second-level platform can double the capacity of a carousel style box or bag filling system—without using any more floor space than a single-level system.
Box Filling Configurations

Tote Dispensers
Tote Dispensers can be mounted to almost any model EMI indexing conveyor to provide an efficient, space-saving, part filling system.

Tote dispensers are available to suit a wide range of tote configurations, including wire reinforced rim totes, totes with attached lids, stack-only containers or tray containers.

Note: Some tote models may require special adaptations to fit the containers you’re using. Please send us the manufacturer’s name and container size, or send a sample, to assure that the dispenser is designed to fit your specifications. EMI can also recommend a tote manufacturer if required.

Part Filling Options:
- Machine cycle count
- Weigh scale
- Weigh scale hopper
- Robot

A Tote Dispenser and an indexing belt conveyor provide an ideal automation system for handling small molded parts.
Automated tote dispenser systems are configured to meet individual application needs. This system can hold up to 20 wire-reinforced rimmed totes, and uses a cycle count to fill parts into the totes. If greater accuracy is desired, the same system could also be used with a Weigh Scale Hopper, see page 122.
Air Cooling Conveyors

EMI can add a custom cooling enclosure to almost any EMI conveyor. Cooling units can also be retrofitted in the field on existing EMI conveyors. An excellent choice for thick-walled or blow molded parts, post-mold cooling can cut cycle times by quickly cooling hot parts, stabilizing them, and preventing them from deforming.

Air cooling conveyor choices:
- Ambient air - A lower cost alternative to chilled air, use when only minimal cooling is required. Blowers can be variable or fixed speed.
- Chilled air - Excellent choice when parts need to be more thoroughly cooled. Standard chilled air cooling units include a blower and coils mounted in an enclosure over the conveyor belt. Chilled water is provided by the customer’s chiller or tower.
- Self-Contained - If you need to air cool parts but do not have a central chilled water supply or a solution requiring minimal setup is preferred, we can integrate a self-contained cooling unit into your automation system.

Cooling conveyor options:
- Variable-speed drive or indexing control, allows the pass-through time to be adjusted to provide maximum cooling
- HEPA clean air filter is available for clean room applications
- Digital thermometer/thermostat can be mounted to regulate temperature (for self-contained part cooling units only).

Ambient air cooling fans
Chilled air cooling
Adjustable ambient air fans with HEPA air filters
Ambient air compact blowers
Cooling conveyors can be configured to fit almost any conveying application. This application shows space-saving stacked cooling conveyors plus box filling. A robot places parts on the upper conveyor. The conveyor indexes and transfers parts to the lower conveyor. The lower conveyor is equipped with more fans for more cooling.

Air Flow From Below Provides Maximum Part Cooling!

When thick-walled parts need to be cooled, getting air to both the top and bottom surfaces can often be difficult. This application solves the problem by mounting chilled air coolers on both the top and bottom of the conveyor, a wire mesh belt allows air to pass through to the parts.

Chilled air blowers under the belt blow air into and around the part. To provide even greater time in the cooling chamber, an indexing cycle is sequenced to allow the parts enough time to properly cool.
Air Cooling Conveyors

Self Contained Part Cooling

If you need to air cool parts but do not have central chilled water supply conveniently available, or a solution requiring minimal setup is preferred, we can integrate a self-contained cooling unit into your automation system.

Our engineers will assess your cooling needs and integrate the proper size cooler—13,200 Btu/h (440 CFM), 18,000 Btu/h (530 CFM), or 24,000 Btu/h (708 CFM)—into your system. With the addition of cooling tunnels or perforated side rails, cooled air can be placed precisely where it’s needed to reduce cycle time or allow extra parts cooling while on the conveyor for quicker handling of parts. These rugged units provide dependable cooling even in the harshest molding environments and cool parts just as good if not better than centralized systems. Powerful performance doesn’t mean they are complicated to set up and use. All of our self-contained cooling units require little or no installation, bringing instant cooling to your parts processing application. Just plug it in and turn it on!
As with all of EMI’s custom engineered solutions, our engineers will work with you to find the best solution for your cooling application. Cooling units can be mounted either below or next to the conveyor for your convenience and can be integrated into a system that utilizes many different styles of conveyors - steel or aluminum, flat or inclined, etc.
Air Cooling Conveyors

Chilled Air Blowing Conveyors

Side rail, air channels direct air flow over parts

Enclosed air channels on either side of this conveyor double as side rails. Chilled air from a central chiller (or ambient air) is blown into the channels. Perforations allow the air to flow into a polycarbonate enclosed cooling chamber.

Static Elimination

Does static electricity attract dirt to your parts?

EMI can add a static neutralizer to your belt conveyors through which parts flow on their way to other conveyors, work stations or packaging. This option minimizes dust and dirt attraction to parts, and also reduces parts clinging to each other or metal surfaces they touch.
Belting for Parts Cooling

Enhance Air Circulation Underneath Parts

**Plastic Mesh Belting**

Plastic conveyor belting (which requires nylon wear strips and a sprocket drive) is easily installed on EMI conveyors. Typical applications include robotic installations and cooling tunnels. Nylon wear strips also promote air circulation underneath the belt. Plastic belting, although more expensive can pay for itself in the long run. If a problem or wear on the belt occurs simply replace a section of the belt.

**Flat Wire and Chain Belting**

Ideal for moving high-temperature molded parts and providing air cooling as they move. Most any EMI flat or inclined conveyor can include the flat wire belting option. (Which requires nylon wear strips.) The sprocket drive assures smooth movement. Flat wire belting can be either carbon or stainless steel.

**Teflon® Coated Fiberglass Mesh**

Teflon coated fabric combines the easy release and heat resistance of PTFE with the strength and dimensional stability of fiberglass. Teflon coated fabric is ideally suited for a variety of demanding industrial applications. This option has a max. temperature of 550°F, is non-toxic, odorless, tasteless, and is FDA compliant for use in food processing, packaging, and handling. Made from nonwoven fiberglass cloth that has been coated with Teflon provides exceptional durability and extremely low elongation.

**Polyurethane Round Belt**

Round belt conveyors are recommended for injection molders running thick-wall parts or large parts which could be damaged if dropped hot onto a flat belt conveyor. By minimizing the surface contacts with the belt, parts are protected from surface mars and can cool faster. Blow molders often find these conveyors ideal for warm parts which must be gently handled until cool.

*See page 153 for more round belt applications.*

**Intralox® Belting**

Intralox belting is an excellent alternative to PVC belt. These modular plastic belts come in dozens of plastic "grid" or "mesh" surfaces. These interlocked belt surfaces allow for air circulation or water spray between the part and belt. Due to Intralox’s unique belting and positive sprocket drive and tracking system, these belts are known to last longer than PVC belts. With Intralox belting there is no mistracking or slippage.
Water Cooling Conveyors

Part Cooling As You Convey Thick-Walled Parts
EMI will provide a customized, flat-to-incline conveyor and water holding tank that creates a cool-off period for thick-wall parts before they are transferred to another conveyor or work station. A wide selection of widths and lengths are available to fit your processing requirements.

Features

- 12-gauge, #304 stainless steel construction
- V-guided, FDA approved, white PVC belt with 1½" flexible cleats on 18" centers
- Stainless steel belt lacing
- Side rails lapped over conveyor belt
- Sealed stainless steel bearings in cast stainless steel housings
- 15’ power cord with ground fault interrupter plug
- Pre-wired, ready to run
- Control wiring contained in liquid-tight conduit and connectors
- 110/60/1 C-Faced Direct Drive package
- Units under 10’ length shipped fully assembled
- Water holding tank may include optional cooling coils

This submersible conveyor has been customized with a containment hopper and mobile floor stand for portability within the plant.

Stainless steel drip pan channels water back to tank
Perforated chute promotes drainage

www.EMIcorp.com
Water Cooling Conveyors

Variable speed with enclosure and ground fault plug

Polycarbonate enclosed cooling chamber and splash guard

Stainless steel tank with containment rails and swivel castors

SST drip pan channels water back to tank

Intralox belt with 2-inch black rubber cleats

Wash-down duty motor

Water bath with air blow off to help dry parts
Hybrid Cooling/ Drying Conveyors

Water Spray Cooling

This wash tank conveyor is used to spray parts with a water solution as they move along the stainless steel wire mesh belt instead of immersing them. The solution collected in the tank is drained away and may be re-used. The system features four spray nozzles fed by a flexible tubing from a manifold system. The ambient air fan blows droplets off parts but does not completely dry them. Complete drying of parts cannot be guaranteed.

Water Bath with Air Knife

This wash tank conveyor is complete with an air knife mounted to an adjustable bracket which dries parts before they hit the chute. The chute has holes that drain to the catch tray below. A stainless steel water tank with hydronic cooling coils is mounted below the conveyor for minimal footprint. Complete drying of parts cannot be guaranteed.
Hybrid Cooling/ Drying Conveyors

Air Knife Drying Application

Air Knife systems are designed to blow-off all surface liquids/moisture and clean plastic parts. This application uses four air knife spraying stations, a polycarbonate cover, stainless steel bottom tray, and 90° flat side rails. Vinyl curtails can be added for containment. Complete drying of parts cannot be guaranteed.

Water Spray Cooling

This cooling application features 3 spray nozzles and a drip pan with drain. An infeed hopper assists in parts dropping to the conveyor where side rails, and containment rails keep parts secure.
Aperture Style Metal Detector

Highest Levels of Accuracy

An aperture style metal detection system is a highly effective means of protecting almost any type of machinery that may be damaged by metal parts or pieces. An aperture style system provides superior metal detection for both ferrous and non-ferrous metal, and will detect metal either on or above the conveyor belt.

Control features include self-monitoring electronics, noise suppression and temperature compensation. All basic adjustments are made at the front panel.

When metal is detected, the unit will stop the conveyor and signal an operator to remove the metal and reset the system. If automatic quality control is desired, the system can be combined with a parts diverter or reject chute to remove the suspect material.

The exceptional degree of accuracy provided by an aperture style system makes it an excellent choice when extremely accurate metal detection is essential.

Sensitivity Chart - Aperture Style Detector
Flat Bed Style Metal Detector

Cost-Efficient Metal Detection
Best for applications with metal either on or close to the conveyor belt.

The EMI flat bed, metal detection system is an excellent choice when tramp metal (both ferrous and non-ferrous) is free to fall either onto or close to the conveyor belt. The sensitivity of this type of system is greatest near the surface of the belt, and gradually decreases as the distance from the belt surface increases. Cost is considerably LESS than an aperture style system.

The system consists of three parts, a compact coil design flat bed detector which is installed directly beneath the conveyor belt, and a NEMA 4 enclosure which houses simple to use, single-board electronic controls. Sensitivity of the system can be easily adjusted to meet the needs of varying applications.

When metal is detected, the unit will stop the conveyor and signal an operator to remove the metal and reset the system. If automatic quality control is desired, the system can be combined with a parts diverter or reject chute to remove the suspect material.

Sensitivity
These graphs represents the test results on both styles of metal detectors mounted on an EMI conveyors. The graph indicates the detection capabilities of the detector based on the size of the metal part and the height of the aperture opening.

The test was performed with ferrous, non-ferrous and stainless steel to represent the wide range of metals that can be detected.
Specialty Applications

Grinder Feeding Conveyors

Nose-Over Conveyors are frequently used for feeding grinders, because they assure that all of the scrap fully enters the feed hopper. Most molders consider this to be the safest way to feed scrap into large grinders.

Metal Detecting conveyors are ideal for feeding granulators when tramp metal or inserts may be mixed in with the scrap. Depending upon the control system, detection of metal either stops the conveyor until it is reset, or reverses the belt until the scrap is removed. The conveyor’s non-metallic center section is made of fiberglass, and reinforced with trusses to support the metal detector’s weight.

See pages 144–145 for more information about EMI Metal Detecting Conveyors.

Metal Detectors Protect Grinders

Nose-over assures that scrap is fed completely into the grinder infeed hopper.

Extra-large infeed accumulation hopper assures scrap is fully contained.

When possible, EMI suggests infeed end motor location to avoid exposing drive components to fly-back.

Typical information required to mount a metal detector on an EMI conveyor:

- What are the dimensions of the largest part or the most material you will feed to a grinder?
- How large is the metal you wish to detect? (i.e. pliers, inserts, staples etc.)
- Is the detected metal transported to a container or will it be taken off by hand?
- EMI may also mount different manufacturers’ metal detectors, please call for assistance.
No matter what your application needs are, EMI can design the perfect hopper for your conveyor.

Extra-large hoppers sometimes need legs to help support their weight and prevent the conveyor from tipping over. The legs on this hopper have castors to allow it to be easily moved when the conveyor is moved.

Extra-large hoppers such as this, are an excellent way to assure complete part containment when feeding parts into bowl feeders, grinders, etc.

A soft lining on the inside walls of this hopper assists in preventing cosmetically delicate parts from being scratched as they are fed into the hopper.

Use a polycarbonate cover on hoppers to keep contaminants OUT!
Elevated Part Transfer

Perfect for feeding into vibratory bowls or cap liners, this 65° Nose-Over conveyor is one of our standard products. A wide choice of options, including alternate cleat spacing, cleat height and Intralox® belting allows the ANO65 Model to be customized to meet a wide range of application needs. See page 72 for more information.

A Part Relay Station uses an elevator to lower parts. This vertical conveyor system includes an ATL conveyor with steel enclosure and foot switch.

This tall part transfer conveyor has wide leg sets for stability.

This Part Elevator application has precise box positioning options, a weigh scale with sweep arm and indexing rails.
Elevated Part Transfer

Mechanical Lift Table
This easy-to-adjust versatile belt conveyor application runs as a box fill at lower position, and then is raised to run as an indexing operator feeding conveyor. This particular lift raises from 24” to 40”.

Make use of overhead space. EMI can provide elevated conveyor systems.
Precise Box Positioning

Box Clamps and Pin Stops
Robotic Box Filling Conveyors can be configured to provide precise positioning for robotic filling. They can also be designed to be adjustable as future needs change.

Adjustable Indexing Side Rails
This robotic application was designed to meet two specific box-filling configurations. It can also be easily adjusted to accommodate other box sizes and configurations.
Minimizing grease, oil, dirt and debris in a sanitary environment can be one of the biggest challenges for medical molders. EMI designed conveyors that offer a high-quality, economical solution for automating clean room facilities. These standard conveyors can be customized with several available options to better suit a molder’s specific needs. Our clean conveyors’ sturdy construction makes them reliable and durable even under the most demanding applications.

For more information see pages 52–59

Common Clean Room Options:

- Stainless steel framing.
- Sealed belt edges to minimize dust from belt fraying.
- Non-fraying Intralox® plastic belting eliminates friction contamination and is fast and easy to clean.
- Wash-down compliant electrics.
- USDA/FDA approved Delrin® rail lining.
- Maintenance-free, eco-friendly gearbox lubricated with food-grade grease to prevent leak contamination.
- Deionizing blowers to eliminate static electricity and prevent particulates from sticking to parts.
- Catch trays to prevent particulates from escaping into the environment.
- Sealed bearings reduce the possibility of lubricant leaks.
- Sealed pulley for easy tear-down and cleaning.

White PVC belt with sealed edges and 8” side rails.

Photo-eyes are used to trigger the door and to stop parts.
Extrusion Take-Away Conveyors

EMI offers a wide choice of Extrusion Take-Away Conveyors. Standard options allow each conveyor to be customized to meet your specific application needs.

A narrow infeed area and footprint, allow this Extrusion Take-Away Conveyor to get as close as possible to the extrusion cutter.

If you need to cool an extrusion or part quickly, a water spray can sometimes be the perfect choice. See applications on page 143 that spray a fine mist of water down onto hot extrusions as they pass underneath. Water drains off through a wire mesh belt, into a stainless steel pan below. To allow the extrusions to be packed immediately, two air knives blow off residual water. Complete drying of parts cannot be guaranteed.

Air nozzles adjust to different size extrusions

This Extrusion Conveyor uses air pressure to move cut extrusions off of the conveyor into a catch tray on the side. Adjustable air hoses allow each air nozzle to be easily moved, depending upon the length of the extrusions. Air pressure can also be adjusted to accommodate varying weights.
Round Belt Conveyors are recommended for injection molders running thick-wall parts or large parts which could be damaged when dropped hot onto a flat belt conveyor. By minimizing the surface contacts with the belt, parts are protected from surface mars and can cool faster. Blow molders also find these conveyors ideal for parts which must be gently handled until cool.

Round belting is polyurethane and is supported by grooved plastic supports on the conveyor slide tray. The suspended belting "gives" when parts are placed on it, providing a soft drop.

The adjustable spacing feature of the Round Belt Conveyors allows adapting them to a variety of part configurations and provides part-cooling air circulation underneath conveyed parts.

Round Belt Conveyors allow the belting to be adjusted to hold various part sizes, while providing access between the belts for "pop-up" assembly devices, closing fixtures, stops or other aids. There is a wide variety of round belts available.

Combine Multiple Round Belts!
Conveyors and Automation Systems

Horsepower Determination Chart

For EA, RM, DDF, and ADF Flat Belt Conveyors 3’ thru 50’ Long and EAC, RMC, DDC, and ADC Cleated Belt Conveyors 3’ thru 30’ Long.

### 20FPM Belt Speed

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Conveyor Belt Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3’–9’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>20’–23’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>24’–27’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>28’–32’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>33’–40’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>41’–45’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>46’–49’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>50’</td>
<td>3 ½” Diameter Drive Pulley; 150# Maximum Load</td>
</tr>
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### 40FPM Belt Speed

<table>
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<tbody>
<tr>
<td>3’–9’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>20’–23’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>24’–27’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>28’–32’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>33’–40’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>41’–45’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>46’–49’</td>
<td>1/3 HP</td>
</tr>
<tr>
<td>50’</td>
<td>3 ½” Diameter Drive Pulley; 150# Maximum Load</td>
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### 80FPM Belt Speed

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<td>20’–23’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
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<tr>
<td>24’–27’</td>
<td>6’ 9’ 12’ 18’ 24’ 30’ 36’ 42’ 48’</td>
</tr>
<tr>
<td>28’–32’</td>
<td>1/2 HP</td>
</tr>
<tr>
<td>33’–40’</td>
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<tr>
<td>41’–45’</td>
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<td>1/2 HP</td>
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<tr>
<td>50’</td>
<td>3 ½” Diameter Drive Pulley; 150# Maximum Load</td>
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For RMTL Trunkline Conveyors 51’ thru 250’ Long.

### 40FPM Belt Speed

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<thead>
<tr>
<th>Conveyor Length</th>
<th>Conveyor Belt Width</th>
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<tbody>
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<tr>
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<tr>
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<tr>
<td>75’–78’</td>
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<td>90’–93’</td>
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<td>94’–104’</td>
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<tr>
<td>105’–124’</td>
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</tr>
<tr>
<td>125’–126’</td>
<td>1 HP</td>
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<td>159’–179’</td>
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<tr>
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### 80FPM Belt Speed

<table>
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<tr>
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<td>60’–69’</td>
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<td>70’–81’</td>
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<td>82’–83’</td>
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<td>84’–85’</td>
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<tr>
<td>86’–98’</td>
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<tr>
<td>105’–114’</td>
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<tr>
<td>115’–137’</td>
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<tr>
<td>138’–139’</td>
<td>3/4 HP</td>
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<tr>
<td>140’–172’</td>
<td>1 ½ HP</td>
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<tr>
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Note: Drives for heavier conveyor loads are readily available, consult EMI for details.
# Leg Location Charts

Leg dimensions measured from Tail to Drive.

## Models EAF and EAC

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</tr>
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</tr>
<tr>
<td>16'</td>
<td>3</td>
<td>108'</td>
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</tr>
<tr>
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<td>3</td>
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</tr>
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## Models STL and STLC

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## Models RM and RMC

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<td>-</td>
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## Models DDF and DDC

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<th>Number of Leg Sets</th>
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<th>Leg #4</th>
</tr>
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<tbody>
<tr>
<td>3'-10'</td>
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<tr>
<td>11'-12'</td>
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<td>23'-24'</td>
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<td>25'-26'</td>
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<td>240'</td>
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<td>126'</td>
<td>246'</td>
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<td>29'-30'</td>
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<td>49'-50'</td>
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### Elevation & Floor Space Formulas for All Incline Conveyors

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<th>Angle of Incline (A) (Dimensions In Inches)</th>
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<td>B</td>
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**Known:**

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<th>F</th>
<th>C</th>
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<td>SQRT (H² + F²)</td>
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</tr>
<tr>
<td>H, C</td>
<td>(H/C) ATAN</td>
<td>SQRT (C² - H²)</td>
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</tr>
<tr>
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EMI offers a complete line of Standard Accumulation Hoppers. EMI accumulation hoppers are available in a wide selection of capacities, sized to fit belt conveyor widths from 6" through 48". To assure the correct selection, a sufficient sample of molded parts should be provided to EMI for evaluation. Accumulation hoppers can be supplied in stainless steel or carbon steel (painted on the outside only). Custom hoppers can also be provided.

Accumulation Hopper Selection:
Based on the belt width and angle of the conveyor selected, part size and flowability, determine the amount of inventory required in the hopper, (which can be moved away before the hopper is filled). Samples and discussions with EMI sales people can help in determining the proper hopper model.

See next page for sizes and dimensions.

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<th>Accumulation Hopper Capacities (cubic feet)</th>
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NOTE: For Style 'A' hoppers only. Call 216-535-4848 for more hopper capacities.
Accumulation Hoppers – for Extruded Aluminum (EA), Signature and Merit Line Conveyors

### 4" FRAME CONVEYORS

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Accumulation Hoppers – for Trim Line Conveyors

2½” FRAME TRIM LINE CONVEYORS

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### DIMENSIONS FOR 40° HOPPER

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### DIMENSIONS FOR 45° HOPPER

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Conveyor Specifications Form

Name / Company:__________________________________________
Email: ___________________________________________________
Address: _________________________________________________

A. Describe Basic Application:

What are you Conveying?: ________________________________
Dimensions: __________________________ (L x W x H)
Cavitation: ____________________________________________
Cycle Time: ____________________________________________
Runner / Sprue Subgated: Yes [ ] No [ ]
Dimensions: __________________________ (L x W x H)
Part Temperature: _________________________________
What are you Conveying from: ____________________________
(what is its height?): _________________________________
What are you Conveying to: ______________________________
(what is its height?): _________________________________

B. Specialty Applications: (Parts Cooling; Parts Diverters; Box Filling, Cycle Count, Weigh scale; Robotic Conveyors; Part/Runner Separation; etc.)

C. Basic Conveyor Information:

Model: _________________________________________________
Belt Width: ____________________________________________
Length / Length "A": _________________________________
Length "B" (for 2 plane conveyors): ______________________
Angle (for fixed angle conveyors): ______________________
Maximum Belt Speed (FPM): [ ] 20 [ ] 40 [ ] 80 [ ] Other:
Infeed Belt Height: _________________
Discharge Belt Height: _________________________________
Castors: [ ] Swivel [ ] Rigid [ ] Low Profile
Side Rail Height: [ ] 2" [ ] 4" [ ] 8" [ ] 12" [ ] Other:
Side Rail Construction: [ ] Painted [ ] Stainless [ ] Aluminum
Side Rail Angle: [ ] 90° [ ] 60° [ ] 45° [ ] Other: _________________________________
Extension Rails: [ ] Clamp-on [ ] Bolt-on
Extension Rail: Height, Angle, Length, Location:
Belt Lining: ____________________________________________

D. Parts Containment & Handling:

Infeed Hopper Size (see page 158):
Material: [ ] Stainless [ ] Painted Steel [ ] Aluminum
Maximum Height, floor to top of Hopper: ____________________________
Soft Drop Zone (see page 101): ____________________________ (start point from infeed, & length)
Discharge Chute: [ ] Stainless [ ] Carbon/mylar [ ] Teflon
Parts Diverter (specify type, see page 114):
Other: _______________________________________________
Conveyor Specifications Form

E. Electrical:
- Variable Speed: [ ] No [ ] Yes, Desired speed range: ____________________________
- Motor Voltage: _________________________
- Alternate HP (see page 154): _________________________
- Magnetic Starter: (manual is standard)
- Controls Location: [ ] locate using motor M-? position
- Motor Location: [ ] Standard [ ] Alternate

F. Motor Locations:
All Direct Drive Conveyors: M-1-M-4 and M-7-M-10 locations.
Note: Under frame motor positions require chain/sprocket style drive (for an additional cost).

G. Robot Interface Options:
S-44 / T-99 / EA-PLC (see pages 102–104):
- Signal Voltage: _________________________
- Choose: [ ] Momentary [ ] Maintained
- DC Variable Speed (see page 103): _________________________
- Manual Over-ride: _________________________ to clear belt
- Over-ride Lockout: _________________________ robot lock-out of over-ride
- Foot Pedal Switch: _________________________ for over-ride
- Photo-eye: _________________________ for part detection in drop zone
- Reversing: _________________________ upon bad part signal
- Part Relay Station: _________________________ (please specify infeed height & discharge height)

H. Nose-Over:
- Conveyor Style: [ ] Two Plane [ ] Flat [ ] Cleated Belt
- Angle: _________________________
- Choose: [ ] Fixed Angle [ ] Adjustable Angle
- Specify Belt Direction

I. Belting:
- Alternate Cleat Height: [ ] ½" [ ] 1" [ ] 1½" [ ] 2" [ ] 3" [ ] Other: _________________________
- Alternate Cleat Centers: _________________________
- Cleat Indent: _________________________ (per side)
- Other: [ ] Water [ ] High Temp. [ ] Teflón [ ] Other: _________________________
- Alternate Color: [ ] White [ ] Black [ ] Blue [ ] Other: _________________________

J. Other: _________________________
Machine Dimensions Form

Machine#: ____________________________
Make/Size: ____________________________
Machine Base: [ ] Open  [ ] Covered

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</tr>
</tbody>
</table>

Company: ____________________________
Name: ____________________________
Telephone: ____________________________
Email: ____________________________
Date: ________  [ ] Quote  [ ] Order  Quote # ____________
Box Filling Specifications Form


B. Box Information:

Box Conveyors: __________ number of empty boxes
________________ number of filled boxes
Box Size: __________ length
________________ width
________________ height (with flaps up)
Travel Direction __________ (convey boxes length or width-wise)

C. Part Information: (send 1 complete “shot” of parts / runners to EMI: 28300 Euclid Ave, Wickliffe, Ohio 44092)

Part Name: __________
(For Cycle Count): __________ number of shots in each box
(For Weigh Scale): __________ filled weight of each box
Cycle Time: __________ fastest cycle time anticipated
Mold Cavitation: __________ (parts per cycle)
Part Size: __________ length
________________ width
________________ height
Part Weight: __________

D. Controls Information:

Type of System: __________ cycle count, or weigh scale?
Common Options: __________ no empty box alarm?
________________ full box alarm?
________________ under-the-press indexing?
________________ process control / bad shot reject?
________________ n-th shot inspection cycle?
Other: __________
Other: __________
Weigh-Scale Only: __________ filling conveyor 2-speed cut-off?
________________ cycle count back-up?

E. Mechanical Configuration:

Feeding Conveyor: __________ (model KKI, RMC, RM, TL, etc.)
Is part / runner separation required? __________
Filled Box Conveyor: __________ (model)
Empty Box Conveyor: __________ (model, gravity roller, etc.)
Specify Type of Configuration: __________ (Single Station, Double Station, Dual Station,
In-Line System, Over/Under, Tote Dispenser, etc.)

Name / Company: ________________________________________________
Email: __________________________
EMI – Order Terms and Conditions

Acceptance: Sales by EMI Corp. (“EMI”) are expressly limited to these Terms and Conditions. All orders must be approved by EMI’s Credit Department. Any purchase order, acknowledgement or other communication submitted by the Customer which contains additional or contrary terms and conditions of sale are rejected.

Prices: Quoted prices are effective for 30 days from date of quotation; thereafter, prices are subject to change without notice. Prices listed in EMI’s catalogs are current at time of publication and are subject to change without notice. Unless otherwise indicated, quantity discounts are offered only for like units ordered at the same time, on a single purchase order, for shipment per our standard delivery schedule. Any local, state or federal tax levied on the sale will be added to the purchase price and paid by the Customer. Any portion of the price not paid when due will bear interest from the due date at the rate of 12% per annum or at the next lowest annual percentage rate as is permissible under any applicable usury law.

Terms: Subject to credit approval.
For orders [and multiple purchase orders constituting a project] less than $20,000: Net 30 Days.
For orders [and multiple purchase orders constituting a project] over $20,000: 30% down with order, 70% net 30 days.

Shipment Schedule: All shipping dates are approximate. Shipment shown is based on available inventory, and engineering and production schedules at time of quotation. A better estimate of lead-times will be given at time of order placement. EMI will not be liable for any damage, loss or expenses arising out of delays in shipment or other nonperformance of this transaction caused by or imposed by (a) strikes, fires, disasters, riots, acts of God, (b) acts of Customer, (c) shortages of labor, fuel power, materials, supplies, transportation or manufacturing facilities, (d) government action, (e) subcontractor delay or (f) any other cause or condition beyond EMI’s reasonable control. Additionally, EMI assumes NO responsibility for delivery performance of carriers, whether selected by Customer or EMI.

Shipment: F.O.B. EMI facility, Jackson Center OH, or EMI facility, Wickliffe, OH. Packages weighing less than 75lbs. are shipped Freight Pre-Paid via UPS and added to the invoice unless otherwise specified. Shipments weighing over 75lbs. are shipped Freight Collect via truck common carrier unless otherwise specified. All claims of shortages, defects or rejections must be made by the Customer in writing within 15 days after receipt of the shipment. Claims of damage must be made to the carrier in accordance with its procedures.

Notes:
(1) Shipments more than 75lbs. are generally fully crated and/or skid mounted — dependent upon size and quantity.
(2) In cases of truck shipments over 75lbs. Customer should specify a freight carrier with whom Customer has an established account. Failure to specify a carrier can: (A) Result in shipment delays, or (B) Require payment to freight company before equipment can be unloaded at Customer’s dock.
(3) EMI assumes no responsibility for shipments delayed or those received “Driver Collect” due to a trucking company not being specified by Customer.
(4) Truck shipments shipped Freight Prepaid and charged back will be invoiced to Customer on a separate Freight Invoice plus a 10% handling fee with terms of net 15 days.

Cancellation: Orders may not be cancelled without EMI’s prior written consent.

Installation: Unless otherwise indicated, Customer is solely responsible for safe installation of the equipment. In all cases, Customer remains responsible for proper maintenance and guarding in accordance with applicable OSHA, federal, state, local, and other applicable regulations. SERIOUS BODILY INJURY OR PROPERTY DAMAGE MAY RESULT FROM IMPROPER USE, GUARDING, OR MAINTENANCE OF EMI PRODUCTS OR PRODUCTS RESOLD BY EMI.

Limited Warranty:
Conveyor Products: Conveyors (other than belting), motors, gear reducers and other drive components are guaranteed for three years from the date of shipment to be free from defects in material and workmanship when maintained in accordance with EMI manuals and operated under the conditions for which they were designed. Belting is guaranteed for 90 days under the same conditions.
EOAT Products: EMI, Gimatic, and Senvex EOAT products are guaranteed for 1 year from the date of shipment to be free from defects in material and workmanship when maintained in accordance with their respective product manuals and operated under the conditions for which they were designed. Wear items such as, but not limited to; vacuum cups, nipper blades, air hand expanders and inflators are not warranted.
EMI – Order Terms and Conditions (page 2)

Injection Molding Supply Products: EMI manufactured accessory products for injection machines are guaranteed for 1 year from the date of shipment to be free from defects in material and workmanship when maintained in accordance with their respective product manuals and operated under the conditions for which they were designed. Wear and consumable items such as, but not limited to; non-return valves, nozzles, gate cutters, mold spray, oil sorbent, oil filters, etc. are not warranted.

Third party equipment or components are not warranted except where specified, but any third party warranties are, to the extent permitted, passed through to the Customer. Damage, due to abuse, accident, misuse, modification, improper installation or maintenance, or improper electrical or mechanical applications are not covered by the Limited Warranty.

Furthermore, this Limited Warranty shall be void and of no effect whatsoever in the event the equipment is not used in accordance with and/or for the purpose provided, or if damages by reason of abnormal weather conditions, acts of God, falling objects, explosions, fire, riots, civil commotion, external forces, faulty or inadequate installation, acts of war, radiation, harmful fumes or foreign substances in the atmosphere, floods or use in structures not in accordance with accepted engineering standards.

Any claim for breach of the Limited Warranty must be made and presented to EMI in writing within a period of thirty (30) days following the discovery of the alleged defect, failing which the foregoing Limited Warranty shall be void and of no effect whatsoever. Alleged defective products shall be returned to EMI for inspection. Customer must receive written authorization from EMI before returning any products and Customer shall ship the products to EMI freight pre-paid at Customer’s expense. Authorization to return products is for purposes of inspection and shall not constitute acceptance of a product defect. Returned products must be suitably crated or packaged by the Customer to prevent damage. EMI will inspect the returned products for defect. If inspection reveals a defect, Customer’s sole recourse for breach of warranty is the repair or replacement of defective products or the return of purchase price, at EMI’s sole discretion. Repaired or replaced products are returned to the customer at no charge. If inspection reveals no defect, EMI will return the product to the Customer at the Customer’s expense.

EMI MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT OR THE USE OF THE EQUIPMENT OR THE PERFORMANCE OF THE EQUIPMENT. EMI SPECIFICALLY MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. EMI NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT, ANY WARRANTY NOT SPECIFICALLY PROVIDED HEREIN.

Limitation of Liability: EMI’s liability under this transaction will not exceed the purchase price. EMI IS NOT LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES ARISING OUT OF OR RELATING DIRECTLY OR INDIRECTLY TO THIS TRANSACTION OR AS A RESULT OF THE SALE OF PRODUCTS OR EQUIPMENT, A BREACH OF THE WARRANTY PROVIDED HEREIN OR ANY USE OR MISUSE OF THE PRODUCTS OR EQUIPMENT.

Indemnification: Customer agrees to indemnify and hold EMI harmless and defend EMI from and against all liability and expense based upon bodily injury, property damage or economic loss, arising, directly or indirectly, from the production, sale, re-sale, transportation, storage or the use of products sold by the Customer, except as caused by the sole negligence of the EMI.

Returns: There are no re-stocking charges if the product is a normally stocked item returned in the same condition and with original packaging as it was shipped from EMI. Built to order, customized, and non-standard EMI products may be returned, and are subject to a re-stocking charge. Altered EMI products changed by the Customer may or may not qualify for return. If return is approved, there may be a re-working or re-stocking charge. A material return number (RMA®) must be obtained before any returned items will be accepted by EMI. All returns must be freight pre-paid, and suitably crated by the customer to prevent damage.

Law: This transaction is governed and construed in accordance with the laws of the State of Ohio (exclusive of any conflict of laws provisions) and the Customer consents and submits to the jurisdiction of any state court located in Shelby County, Ohio. If any provision of these Terms and Conditions is deemed to be held invalid, illegal, unenforceable, or inoperative, the balance of these Terms and Conditions will remain in full force and effect as if such revision had not been included.

(rev. 9/11/2017)
Customer Credit Application  (page 1)

Company Name: ____________________________

Trade Name: ____________________________

Address: ____________________________

City: __________________ St: ______ Zip: ______

Is this address: ______ Bill to ______ Ship to ______ Both ______

Billing Address (If different than above):

Address: ____________________________

City: __________________ St: ______ Zip: ______

Owner/Officer: ____________________________

Address: ____________________________

Owner/Officer: ____________________________

Address: ____________________________

Telephone: ____________________________

Email: ____________________________

Year Started Business: ____________________________

Number of Employees: ____________________________

Business Ownership:

☐ Corporation ☐ Partnership ☐ Sole Partnership

Accounts Payable Contact:

Email: ____________________________

Tel: ____________________________

Title: ____________________________

Tel: ____________________________

Title: ____________________________

Tel: ____________________________

Business Emphasis:

Primary Market: ____________________________

Primary geographical marketing area: ____________________________

What major manufacturers do you purchase from directly? ____________________________

Under what payment terms?

Please list names of your purchasing people:

Tel: ____________________________ Ext. __________ Email: ____________________________

Tel: ____________________________ Ext. __________ Email: ____________________________

Tel: ____________________________ Ext. __________ Email: ____________________________

Anticipated purchases in the next 12 months:

☐ Up to $7,500

☐ $7,500 – $15,000

☐ $15,000 – $25,000

☐ $25,000 & over

Comments or other information about your company:

__________________________________________
Customer Credit Application (page 2)

Billing Information:

Purchase Order or I.D. required for purchase?: Yes No If Yes, explain:

State Sales Tax applicable?: Yes No If No, attach a signed Sales Tax Exemption Form

Bank Reference:

Bank: Account #: 

City: St: 

Trade References: (Must be current vendors)

Name: Address: City: St: Zip: Email: Phone: Fax: 

Name: Address: City: St: Zip: Email: Phone: Fax: 

Name: Address: City: St: Zip: Email: Phone: Fax: 

Trade References should be small businesses you are currently on NET terms with. Large corporations will not share trade information. Providing references that will not share information will only delay your application.

Credit Terms: Please Read Carefully and Sign

THE ABOVE INFORMATION IS FOR THE PURPOSE OF OBTAINING CREDIT AND IS WARRANTED TO BE TRUE. FALSE OR MISLEADING INFORMATION WILL CAUSE REVOCAION OF ANY EXTENSION OF CREDIT.

I HEREBY AUTHORIZE EMI CORP. OR ANY CREDIT BUREAU EMPLOYED BY THEM TO INVESTIGATE THE REFERENCES HEREIN LISTED OR STATEMENTS OR OTHER DATA OBTAINED FROM ANY OTHER PERSON PERTAINING TO MY CREDIT RESPONSIBILITY AND TO SUPPLY FURTHER INFORMATION IF REQUESTED.

I UNDERSTAND AND AGREE TO PAY ALL CHARGES BY THE 30TH DAY FOLLOWING THE DATE OF INVOICE AND THAT PAYMENT TERMS ARE NOT BASED ON RECEIVING A STATEMENT.

I WILLINGLY AGREE TO PAY THE HIGHEST INTEREST RATE ALLOWED BY LAW (NEVER TO EXCEED THE USURY IN ANY STATE) AS WELL AS ANY AND ALL COSTS OF COLLECTION, LEGAL AND OTHERWISE, ON ANY INVOICES AFTER 30 DAYS FROM INVOICE DATE. I FURTHER AGREE, THAT ANY DISPUTES WILL BE PUT IN WRITING WITHIN 10 DAYS OF RECEIPT OF GOODS. I ALSO AGREE THAT ANY DISPUTES OR LITIGATION THAT MAY ARISE SHALL BE INTERPRETED BY THE LAWS OF THE STATE OF OHIO WITHOUT REFERENCE TO CHOICE OF LAW PROVISIONS.

Company Name Trade Name

I/WE DO HEREBY ASSUME PERSONAL RESPONSIBILITY, COLLECTIVELY AND INDIVIDUALLY, FOR THE DEBTS OF THE APPLICATION HEREIN.

Authorized Customer Signature Title
EMI's Online Interactive Catalogs

EMI's Conveyor and Automation Systems, End-of-Arm Tooling, and Injection Molding Supplies Catalogs can be found at: www.EMIcorp.com

Request catalogs by mail | View catalogs online | Download for offline reference
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Fax: 216-535-4823
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