



CONVEYORS & AUTOMATION SYSTEMS

**Steel & Aluminum Frame Conveyors
Box Filling, Cooling & Robotic Conveying Systems**



EMI's Conveyors & Automation Systems are built to withstand heavy-duty industrial use!

Shop for Conveyor Replacement Parts Online!

Visit our website for common replacement parts and contact us if you need additional assistance.

Trim Line

Aluminum (ATL) or Steel (STL) Frame Conveyors

- Lengths to 20'
- Widths to 24"
- Direct drive 1/4hp motor
- 4–40 FPM AC variable speed
- Flat and Incline Cleated Belt models
- Horizontal to Incline Adjustable Angle models
- Standard white PVC belting

• [More info Here!](#)



Merit Line

Aluminum (AD) or Steel (DD) Frame Conveyors

- Lengths to 30'
- Widths to 36"
- Direct drive 1/3hp motor
- 4–40 FPM AC variable speed
- Flat and Incline Cleated Belt models
- Horizontal to Incline Adjustable Angle models
- Standard white PVC belting

• [More info Here!](#)



Signature Line

Heavy-Duty Steel (RM) Frame Belt Conveyors

- Lengths to 180'
- Widths to 96"
- Direct drive 1/3hp motor
- 4–40 FPM AC variable speed
- Flat and Incline Cleated Belt models
- Horizontal to Incline Adjustable Angle and Fixed Angle models
- Standard white PVC belting

• [More info Here!](#)



Extruded Aluminum Line

- Lengths to 40'
 - Widths to 60"
 - Direct Drive 1/3hp motor
 - 4–40 FPM AC variable speed
 - Flat and Incline Cleated Belt models
 - Horizontal to Incline, Horizontal to Decline, Z-Belt models
 - Standard blue PU belting
 - [More info Here!](#)
- ✓ **Low profile external drives**
 - ✓ **Automatic spring-loaded belt tensioning**
 - ✓ **3 styles of power transmission: direct drive (standard), timing belt, and chain drive**



MODEL SERIES		EA Extruded Aluminum	STL / ATL Trim Line	AD / DD Merit Line	ACRF Clean Room	RM (RMTL) Signature Line
SPECIFICATIONS	Price for standard Flat Belt Conveyor (18" wide by 10' long)	EAF-18-10-40 \$3,454	STL / ATL-18-10-40 \$3,261	ADF-18-10-40 \$3,779 DDF-18-10-40 \$3,981	ACRF-18-10-40 (base price) \$4,054	RM-18-10-40 \$4,250
	Flat Belt Length (Max.)	40'	20'	30'	30'	180'
	Flat Belt Width (Max.)	60"	24"	36"	36"	96"
	Overall Frame Width (Legs outside of frame)	+ 9"	+ 7½"	+ 8⅞"	+ 8⅞"	+ 9½"
	Overall Frame Width (Legs underneath frame)	+ 5"	+ 3½"	+ 5¾"	+ 5¾"	+ 6½"
	Frame Thickness	3.4"	2½"	4"	4"	4" (9")
	Construction	Anodized Extruded Aluminum	12 gauge Steel or 1/8" Aluminum sheet Semi-Modular	12 gauge Steel or 1/8" Aluminum sheet Semi-Modular	12 gauge Steel or 1/8" Aluminum sheet Semi-Modular	12 gauge Steel Modular
	Drive Method	Direct Drive	Direct Drive	Direct Drive	Direct Drive	Direct Drive
	Motor / Gear Reducer	1/3 hp TEFC Motor, Gear Reducer	1/4 hp TEFC Motor, Gear Reducer	1/3 hp TEFC Motor, Gear Reducer	1/3 hp TEFC Motor, Gear Reducer	1/3 hp TEFC Motor, Gear Reducer
	Pulley Diameter	3.4"	2⅜"	3½"	3½"	3½" (8")
Standard Motor	AC	AC	AC	AC	AC	
Warranty	3 years	3 years	3 years	3 years	3 years	
Cleated Belt Incline Models Available	EAC	STLC, ATLC	ADC, DDC	ACRC	RMC	
Horizontal to Incline Models Available	EAK, EAR, EAZ	STLK, ATLK	ADK, DDK	ACRK	KKI, KK, CAR, RCR	
Under Press Usage (Typical). Call for applications over 2,000 Tons.	Up to 1,000 Ton	Up to 500 Ton	Up to 1,000 Ton	Up to 1,000 Ton	Up to 2,000 Ton +	

Pricing effective 12/01/2021

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. See our website or catalog for more information.

Z Belt Conveyors

Steel or Aluminum Frame

This versatile conveyor has a wide range of uses including under the press, along side the press or wherever a three-plane conveyor is needed. The nose-over makes it perfect for feeding into large containers or onto trunklines.

- ✓ Available in combined lengths up to 15'
- ✓ Direct Drive requires less maintenance
- ✓ Double V-guided belt tracking extends belt life

• [More info Here!](#)



Steep Incline Conveyors

Steel or Aluminum Frame | 65° Nose-Over

Perfect for feeding into vibratory bowls or cap liners, EMI's popular Direct Drive, 65° angle, nose-over conveyor is one of our standard products. An extensive choice of options—including alternate cleat spacing, and cleat height—offers customized solutions to meet a broad range of application needs.

• [More info Here!](#)



Horizontal to Incline Conveyors

Steel or Aluminum Frame | Adjustable Angle

The adjustable angle (from 20°–45°) Kurv-King shown to the right, is built for under or along side press use or for feeding trunkline conveyors and work station turntables. A horizontal to inclined transition eliminates pinch points and assures a smooth part transfer. The extruded aluminum frame EAK model's angle can be adjusted from 0–60°.

• [More info Here!](#)



Roller Conveyors

Pallet and Container Handling

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 including tilt tables, pop-up box stops, ball transfers and lift gates to suit the needs of your specific work environment.

• [More info Here!](#)



Robot Interface Options

T-99 Index/ Reverse Combination Drive Option:

This is our most popular indexing option. Available on all model conveyors, 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.

- Upgrade to a 230/60/3 AC motor and 15' customer interface cord included.
- Smaller footprint on conveyor with no extra enclosures or excessive hardware as needed with other 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.



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 an Extruded Aluminum frame conveyor when a signal is given by the robot.

- Compact NEMA 1 enclosure with LCD display and soft touch function keys for user setup.
- Accepts momentary or maintained signals, user programmed.
- Includes 6-70FPM variable speed.
- Reversing mode.
- Easily adjustable digital timers.
- Continuous run mode.
- For internal drive EA models only.
- [More information about our Robot Interface Options Here!](#)



EMI can custom design the perfect conveyor mounted enclosure for your automation system.

Safety enclosures protect operators from moving parts. Enclosures made from Lexan™ or expanded wire mesh caging can be utilized to include elevators, box filling stations or pass along conveyors, and robots.



Standard Belting



Standard EMI Conveyor White PVC (Trim, Merit & Signature Lines)

Our standard white PVC belt is an excellent general purpose belt. It's constructed using 2-ply 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 Blue Polyurethane Belting (Extruded Aluminum Line)

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.

Alternative Belting Options

Our standard PVC and Polyurethane belting is available in many colors and styles that include ridges, corrugated side walls, and cleats. In addition to our standard belting we offer many specialty options listed below. [Click here for more information and additional belting options.](#)

High Temperature Polyester Belt

Constructed from 3-ply woven fabric and polyester layers. Maximum temperature rating of 356° F. Not FDA/USDA approved. Provides the best combination of toughness and heat resistance among our woven belts.



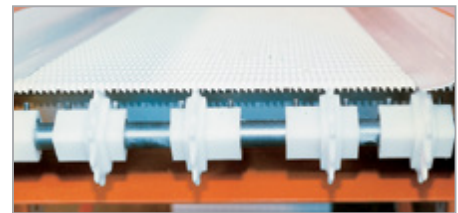
High Temperature Butyl Belt

This 3-ply belting option is designed for extreme temperatures and is recommended for both high-heat and cooling applications. It's non-marking and has FDA/USDA approval for applications handling plastic parts.



Plastic Mesh Belting

Plastic mesh belting is used widely in part cooling applications. The interlocked belt surfaces allow for air circulation or water spray between the part and belt. Nylon wear strips replace the steel slide tray and promote air circulation underneath.



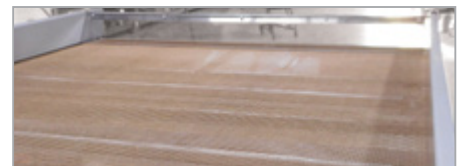
Modular Plastic Belting

Intralox® belting is an excellent alternative to PVC. Due to Intralox's unique belting and positive sprocket drive and tracking system, these belts are known to last longer than PVC belts. Commonly used in longer conveyors with transitions because of its sprocket drive.



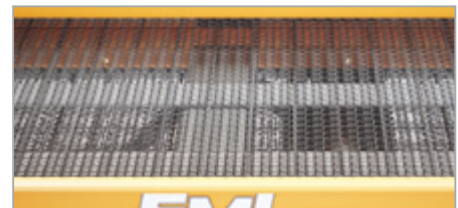
Teflon® Coated Fiberglass Mesh

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.



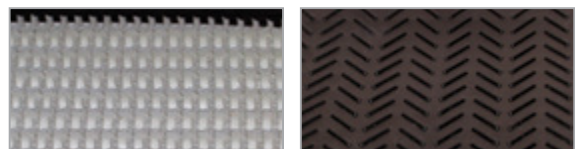
Flat Wire and Chain Belt

Flat wire belting is 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.



Rough Top Belt

A rough top belt creates friction between the belt and the parts being conveyed. This may not be suitable for all applications due to the increased difficulty of maintaining the cleanliness of the belt.



Cobot Ready Conveyors

EMI has developed a conveyor package to easily integrate with your Collaborative Robot.

Our Internal drive EA conveyors are Certified by Universal Robots. With EMI's URCap development, any Universal Robot can easily control the conveyor's speed and direction.

Set-up is easy, simply connect the included Ethernet cable to your UR Robot's control panel and install the URCap.

- [More info Here!](#)



With every Cobot Conveyor:

- Two photo-eyes (at infeed and discharge ends of the conveyor).
- Variable Speed, Internal Motor Drive Package (EA-ID Package) or External Drive. (See below)
- Compact touch screen speed control allows for independent control, if necessary.
- 4" x 90° 12ga. Steel powder coated side rails with multiple photo eye mounting positions.
- Adjustable leg sets with 4" swivel, locking castors.
- EMI URCap allows for easy programming and use when integrated with your UR. Using a Doosan, Kuka, Fanuc, or other Collaborative Robot? Contact us to discuss!

Choose Either Internal or External Drive:

Internal Drive Package:

(EA Model Conveyors Only)

- MODBUS communication via Ethernet (EA-PLC-UR Electrical Package)
- Single V-guide polyurethane belting
- Power: 110V/ 5amp
- Maximum load: 50lbs
- Maximum belt speed: 70FPM*
- Belt widths: 4"-60" at 2" increments
- Belt lengths: starting at 4ft

*Belt speed may vary based on overall length and width

External Drive Package:

- Steel or aluminum frame
- MODBUS communication via Ethernet (T-99 Electrical Package)
- Power: 110V/ 5 amp
- Maximum load: varies by conveyor model
- Belt widths: varies by conveyor model
- Belt lengths: starting at 4ft
- Speed: 20, 40 or 80 FPM
- Variable frequency drive as compared to EA-ID

Easily automate tasks to increase productivity!

Whether you are automating your process using multiple cobot assisted conveyors or multiple collaborative robots, EMI can help develop an ideal solution.

Suitable Applications:

- Machine tending
- Injection molding
- Material handling
- Pick and place
- Box filling



EMI Cobot Stands for industrial cobots in-stock, contact us today!



[Click to watch our Cobot Stand video.](#)

Decades of constant improvement and custom conveying applications make EMI Conveyor systems the standard in the plastics industry.

Manufactured in our Ohio facility, EMI conveyors are designed to your specifications, crafted by experienced assemblers and are made to last in industrial environments while offering advanced features to manufacturers.

Cobot Ready Conveyors

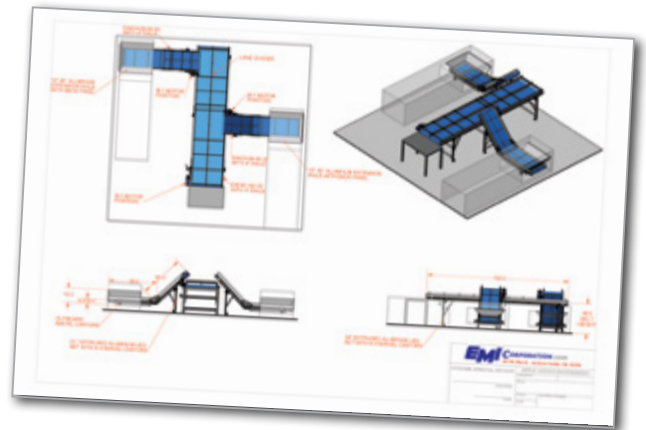


Everything but the cobot!

Your Cobot – Our Conveyor – Our Cobot Stand – Our EOAT

EMI Custom Engineers to your Application

With over 50 years experience providing quality, custom automation solutions, our customer service representatives will work with you to identify how you are using the conveyor before we start building. Because of this, all conveyors are made per order, and every effort will be made to streamline this process to meet your time line. 3D CAD drawings with quotes provide a visual of your conveyor and peripheral equipment.



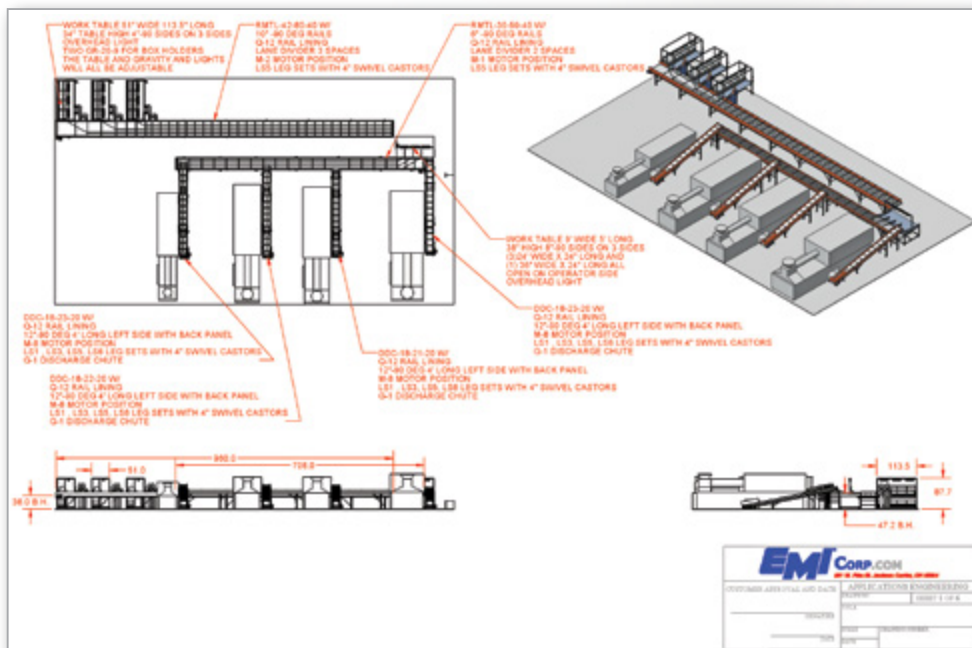
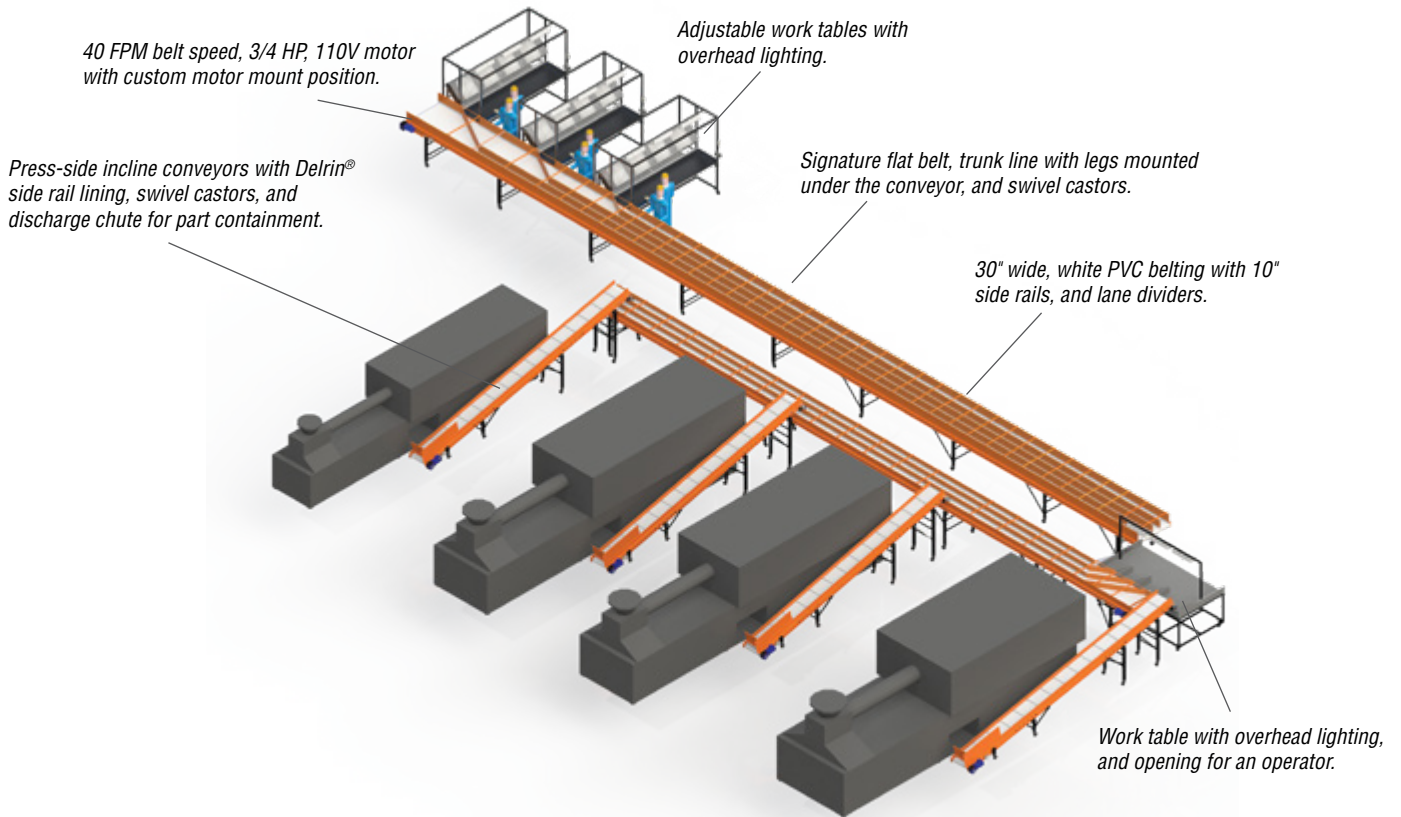
[Click here to download the Cobot Ready Conveyor Order Form](#)

	Extruded Aluminum	Extruded Aluminum	Trim Line	Merit Line	Clean Room	Signature Line
Electrical Package	Internal Drive with EA-PLC-UR Package	External Drive with T-99 Cobot Controller Package				
Price for standard Cobot Ready Flat Belt Conveyor (18" wide by 10' long) <i>Other sizes available</i>	EAF-18-10-40 \$4,721	EAF-18-10-40 \$4,814	STL / ATL-18-10-40 \$4,621	ADF-18-10-40 \$5,139 DDF-18-10-40 \$5,341	ACRF-18-10-40 \$5,414	RM-18-10-40 \$5,610

Pricing effective 12/01/2021

Plant-Wide Conveyor Systems

EMI conveyors and automation systems are designed utilizing 3D CAD solid-model engineering coupled with our experience providing quality, custom automation solutions. These drawings not only feature your custom EMI system, but also other items—molding machines, work tables, etc.—to help you visualize your system from every angle making it easy to understand how it will work and interact with other equipment within your facility. 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.



Automated Box Filling Configurations

Save space with these versatile, cost-efficient box-filling systems!

Batch-Mode Weigh Scale Hopper

Accuracy to within 0.5 grams

EMI's Batch-Mode Weigh Scale Hopper was specifically developed to provide maximum part counting accuracy. Cycle count systems can come up short due to bad shots or machine interruptions, but the weigh scale hopper fills large containers with the same levels of accuracy as small containers.

Pair with our compact rotary tables in five diameters (3', 4', 5', 6' and 7'): great for areas that are often too small for a traditional inline system.



Side-By-Side Box Fill 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 are an excellent way to transfer full or empty boxes from one conveyor to another, or to accurately position boxes for robotic filling.



Click for a 360° View!

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. Simply supply us with how many empty, and how many full boxes are required.



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.



Part and Box Diverting

Conveyor Mounted Parts Diverters

By eliminating the need to manually inspect and remove bad parts, diverters are an excellent way to help reduce labor costs. Stand-Alone Parts diverters are placed under the drop zone of the press. Conveyor mounted units are used to divert parts to another conveyor or direction.



Click for a 360° View!



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. Parts can be placed by a robot onto the correct lane or diverted to the correct lane using either a diverter or a part / runner separator.



Robotic Box Filling

Automatic Box and Container Filling

EMI can design and manufacture custom systems to meet your box filling requirements. Choose a standalone station or conveyor mounted. EMI has the expertise to deliver a system to meet your requirements, reducing your labor costs by minimizing the amount of time and the number of people it takes to package your molded parts.



Click for a 360° View!



EMI's indexing controls make it easy to interface with your robot.

These can be set up to work with almost any application, from large container filling to extremely accurate small part filling.



Click for a 360° View!

Cooling Conveyors

Chilled Water Cooling Conveyor

Chilled water cooling is our most popular option and has the highest success rate among customers. This can be used for blow molded, thicker walled parts or any application where faster cooling is required. With EMI's standard variable speed, our conveyors can run as slowly as you need for proper cooling.



Ambient Air Cooling Conveyor

Blowing ambient air over warm parts can be a relatively inexpensive way to help cool warm parts on their way to packing or assembly operations. We have two styles of ambient air blowers: squirrel cage fans or adjustable fans. By choosing optional open grid belting, blowers can be positioned both above and below the parts.



Parts Deionization

EMI can add a parts deionization option to your belt conveyors. This option minimizes dust and dirt attraction to parts, and also reduces parts clinging to each other or surfaces they touch.

Self Contained Air Cooling Conveyor

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



Water Spray Cooling / Air Knife Drying

If you need to cool an extrusion or part quickly, this can be the perfect choice. A fine mist is sprayed onto hot extrusions, water drains off through the belt, into a stainless steel pan below. To allow the extrusions to be packed immediately, air knives blow off residual water. (100% dryness can not be promised)

Water Cooling Conveyor Automatic Part Cooling As You Convey Thick-Walled Parts

EMI will provide a customized, flat-to-incline conveyor and water holding tank to provide a "soft" landing and 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 cooling requirements.



- [More info on Cooling Conveyors Here!](#)

Part / Runner Separation



Pin/Finger Separators are often a versatile and cost effective way to separate parts from runners. The pins can be pulled out and reconfigured to suit varying application needs.

Rotating and Perforated Drum 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.



Click for a 360° View!

Free Part / Runner Separation Test!

Send us five complete shots of exact parts/runners.
EMI Corp. 28300 Euclid Ave. Wickliffe OH 44092

- [More info on Part / Runner Separation Here!](#)

Bumper Fascia Conveyor

EMI offers a number of conveyors, specifically developed to convey long parts. The conveyor here was designed to move automobile bumper fascias. This versatile system is adjustable to accommodate different sized bumpers.



Irregular Part Transfer

Irregular parts are successfully handled and transported between operations with this robot interface conveyor. Let EMI's Engineering creativity solve your part handling issues.



Click for a 360° View!

Grinder Feeding

Common Grinder Feeding Options:

- An extra large infeed accumulation hopper to insure that the scrap is fully contained.
- A large nose-over section assures all scrap is fed into the grinder infeed hopper.
- A metal detector to protect expensive grinders from being damaged by tramp metal or inserts being mixed into the scrap.
- Custom chutes, and extension rails that ensure all scrap enters the grinder.
- Change “Infeed Drive” location to remove motor and gearbox from the grinder feed throat area.



Metal Detection

EMI offers both aperture-style and flat bed-style metal detection. Both systems provide superior metal detection for both ferrous and non-ferrous metal.

Highest levels of Accuracy –

The exceptional degree of accuracy provided by an aperture style metal detection system makes it an excellent choice when extremely accurate metal detection is essential. Aperture-style systems can be used in almost any type of application.

Cost Effective Metal Detection –

Flat bed metal detection is best suited for applications with metal either on or close to the conveyor belt.



Tote Dispensing Conveyors

When parts need to be filled into totes for future use, or when moving to a different area for secondary operations, an automated, tote dispensing, part filling system can be an excellent, labor saving investment. Tote dispensers are available to suit a wide range of tote configurations, including totes with wire reinforced rims, totes with attached lids, stack-only containers or tray containers.

Part Filling Options:

- Machine count
- Weigh scale
- Weigh scale hopper
- Robot



Click for a 360° View!

Stacking and Destacking

We offer stacking and destacking options to meet the challenges when it comes to product stacking within the line. Our conveyors can place products into the stack orientation needed without jeopardizing the product.



Click for a 360° View!

Elevated Part Transfer

This part elevator application has precise box positioning options, a weigh scale with sweep arm and indexing rails. A part relay station uses an elevator to lower parts. This vertical conveyor system can include a roller or belt conveyor with steel enclosure.



Clean Room Applications

Minimizing grease, oil, dirt and debris in a sanitary environment can be one of the biggest challenges for medical molders. Our high-quality, economical clean room conveyors were developed for automating those types of facilities. These standard conveyors can be customized with several available options to better suit a molder's specific needs.

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

USDA/FDA Approved Belting Material

Direct Drive: Replaces leak-prone, chain-driven drive packages.

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

Sealed Bearings: Reduces the possibility of lubricant leaks.

Part Cooling: Ambient air cooling with HEPA air filter.

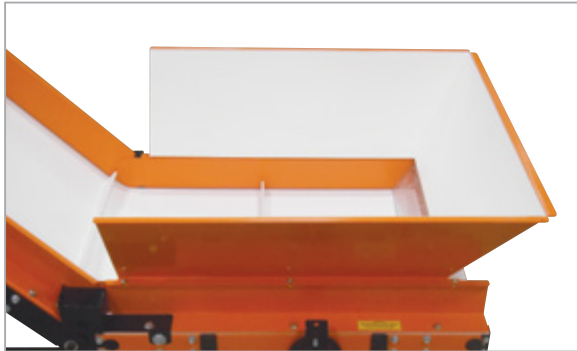


• [More info on Clean Room Conveyors Here!](#)

Part Containment

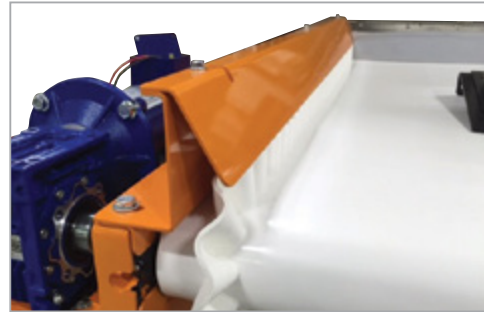
Standard Hoppers

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.



Soft Lined 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. They also promote noise reduction.



Sidewall Belting

Corrugated sidewall belting keeps 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 wall. This is a common option for grinder feeding conveyor systems.



Hinged Extension Rails

Hinged extension rails keep parts contained. Conveyors come standard with swivel castors, but leg stands (shown to the right) are also available.



Under-the-Press Hoppers

This under-the-press model has a custom part diverter with hopper, side rails, and top plate to keep parts contained. There is also a Lexan® gate at the discharge end.

HOW-TO Conveyor Videos from EMI

We hope these videos can act as a guide and help you maintain your EMI Conveyor System. They are complete with step-by-step instructions that you to pause and rewind in case you need time to review.

Visit and subscribe to EMI's YouTube channel to watch the latest videos!

www.youtube.com/EMICorpVideo

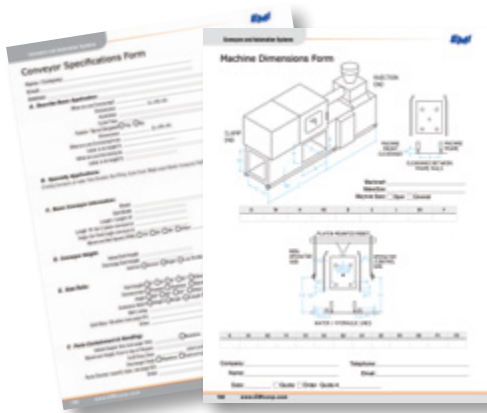




Are you ready to get started on your next conveyor order?

Put our expertise to work for you!

Contact our Sales Department to get the belt moving!



Conveyor Order Forms are online and can be submitted by email.

Maintenance manuals, installation instructions, exploded views with parts lists and more can be found on our website.

[Click here!](#)



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