



COBOT READY CONVEYORS

**QUICK DEPLOYMENT WITH URCAP AND MODBUS
COMMUNICATION VIA ETHERNET CABLE**



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.



With every Cobot Conveyor:

- EMI URCap allows for easy programming and use when integrated with your UR Robot.
- Two photo-eyes (1 at infeed and 1 at 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.

Choose Either Internal or External Drive:

Internal Drive Package: (Extruded Aluminum 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: 70ft per minute*
- 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, see page 4
- 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 feet per minute
- Variable frequency drive as compared to EA-ID

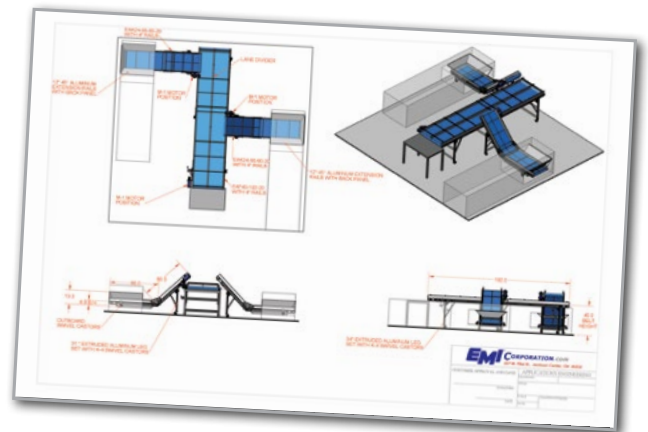
Cobot Ready Conveyors



An EA model conveyor with standard internal drive is shown in the application above.

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. Revisions are made until you approve of the design. EMI personnel are available for plant visits for the run off, and to make any final adjustments.



EMI's Heavy duty conveyors are made from 12 gauge steel and have a 150lb payload capacity.

Standard with a 1/3 hp AC motor and direct drive with chain drive as an option.

White PVC standard belt is FDA approved. This non-marking, anti-static belt has a contact temperature range of 5°–210°F.



Cobot Ready Conveyors

EMI's conveyors are built to withstand heavy-duty industrial use!

Extruded Aluminum Line

- Lengths to 33'
- Widths to 60"
- ✓ Low profile external drives
- ✓ Automatic spring-loaded belt tensioning
- ✓ 3 styles of power transmission: belt, direct, and chain drive



Trim Line

Aluminum (ATL) or Steel (STL) Frame Conveyors

- Lengths to 20'
- Widths to 24"



Merit Line

Aluminum (AD) or Steel (DD) Frame Conveyors

- Lengths to 30'
- Widths to 36"
- Clean Room Models



Signature Line

Heavy-Duty Steel Frame Belt Conveyors

- Lengths to 180'
- Widths to 72"



Cobot Ready Conveyor Pricing

	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)	EAF-18-10-20 \$4,061	EAF-18-10-20 \$4,265	STL / ATL-18-10-20 \$4,092	ADF-18-10-20 \$4,556	ACRF-18-10-20 \$4,802	RM-18-10-20 \$4,977
				DDF-18-10-20 \$4,736		

EMI conveyors are guaranteed for 3 years See EMI website for more information.

Cobot Ready Conveyors

T-99-Cobot Controller Package:

- Can be added to any EMI conveyor with an external drive.
- Ideal for robot indexing, box filling, and process control tie-in applications.
- Indexing, reversing, and 20-80FPM depending on what is selected for FPM.
- Continuous run mode.
- Accepts momentary or maintained signals for indexing and reversing.
- Easily adjustable digital timers.

Note: 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 keypad function.

Everything but the cobot!

Our Conveyor - Your Cobot - Our Cobot Stand - Our End Effector

EMI's Cobot Ready Conveyors are designed to be integrated with your Universal Robot to provide continuous part transfer and are ideal for pick and place, machine tending, and packaging applications.



Cobot Ready Conveyors

URCap Features:

- MODBUS communication via Ethernet Cable
- Simple UR pendant interface
- Variable speed control
- Directional control
- Detect workpiece presence
- User Manual



Electrical Features:

If you're considering automating your process with a conveyor indexing program, EMI's control packages, combined with an EMI conveyor, can provide a wide range of automation benefits.

Implementing a box packing, stacking, or indexing system can increase productivity and decrease down-time.



• MODBUS communication via Ethernet (EA-PLC-UR Electrical Package shown)



• Touch screen display

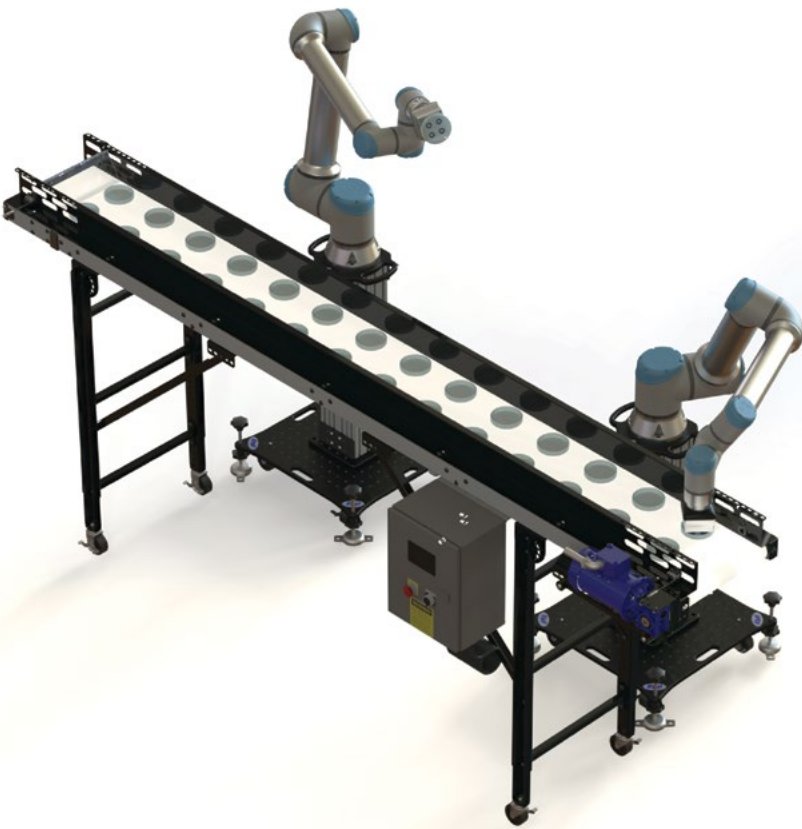


• Digital and Ethernet connections for internal and external drive.

Cobot Ready Conveyors

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:

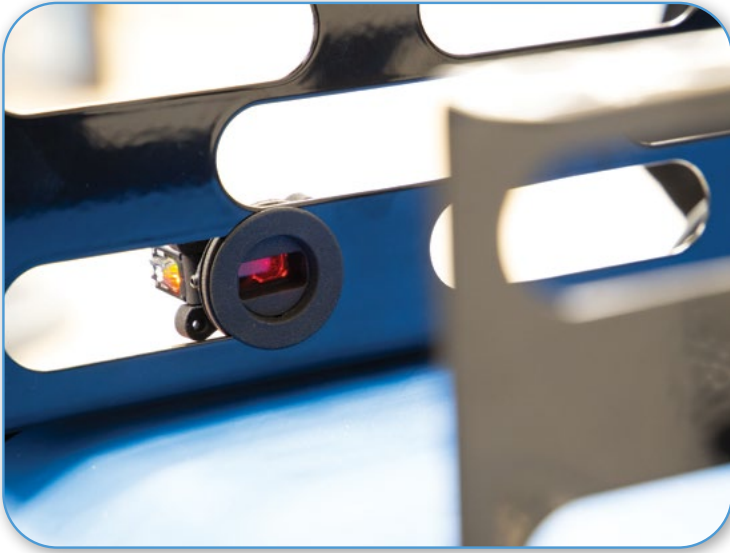
- Machine tending
- Injection molding
- Material handling
- Pick and place
- Box filling



Cobot Ready Conveyors

Object Detection Features:

- Adjustable photo eye placement within the side rails.
- We offer many types of photo eyes for different applications depending on the size and color of the part you are detecting.



EMI's Cobot Ready Conveyors include a direct MODBUS connection. This makes it truly plug and play - no wiring needed!

Cobot Ready Conveyor Specifications Form

*All fields are required

Application Information

Manufacturer of cobot: _____

What are you conveying? _____

Part dimensions (L x W x H) _____

How many parts: _____

How often: _____

Part temperature: _____

Weight (of part): _____

How are parts being placed on cobot conveyor? _____
(What is the height?) _____

What are you conveying to? _____
(What is the height?) _____

How are the parts being removed from the cobot conveyor? _____

Conveyor Information

Model: _____

Belt width: _____

Length: _____

Belt height (from floor): _____

Drive: Internal External (recommended for over 50lbs weight)

Castors: Swivel Rigid Low profile

Optional: Floor mounting brackets Leveling bolts (if castors are not selected)

Side rails: Aluminum (standard) Painted steel Stainless steel

Side rail height: 2" 4"(standard) 8" 12"

Side rail angle: 90 degree (standard) 60 degree 45 degree

Electrical Information

Communication type: Ethernet/MODBUS (standard if using UR) Direct I/O

Photo-eyes: Two photo-eyes (standard location is at the infeed end & discharge end of conveyor)

Other location, please specify: _____

Company Name: _____ Contact: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

An Interactive version of this form is available at: www.EMInc.com – Submit form to: Cobots@EMInc.com

Industrial Cobot Stands

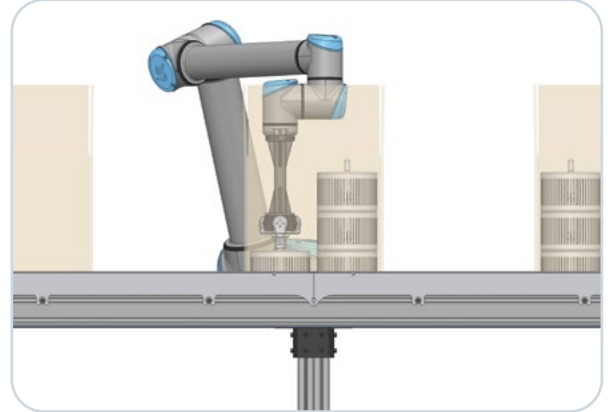
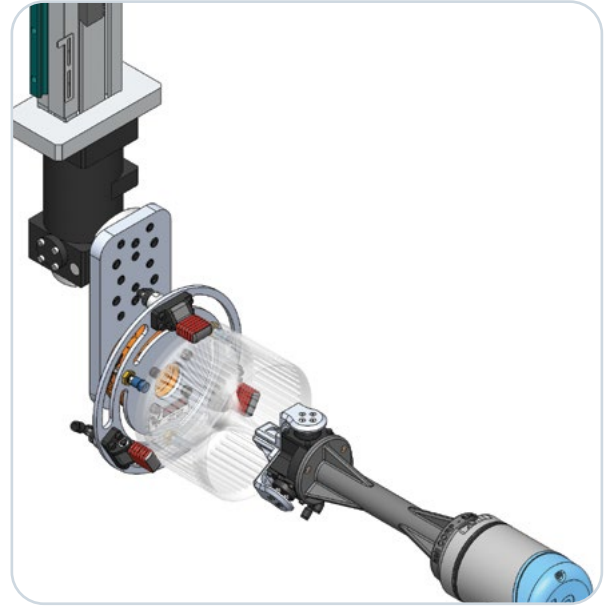
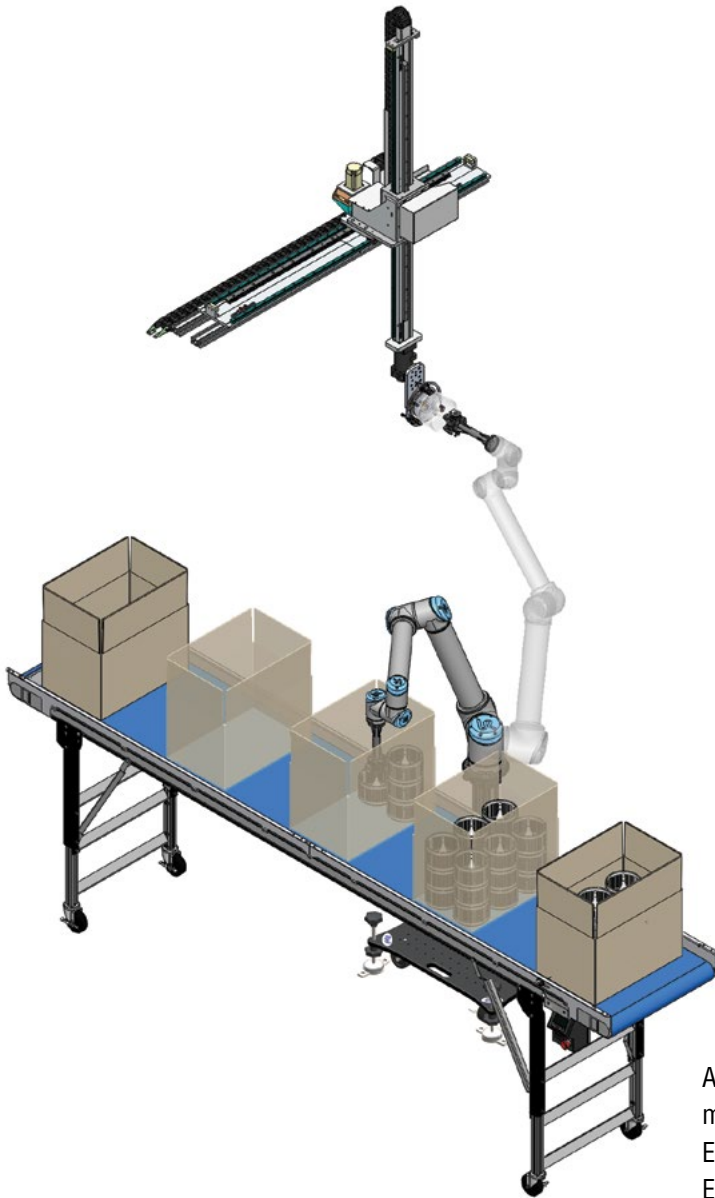
Combine a cobot stand with your cobot conveyor!

EMI's Cobot Pedestals extend the reach of a cobot arm. These heavy-duty cobot stands are perfect to an industrial environment where redeployment and adjustability may be required.

EMI offers a complete line of cobot end effectors



Custom End Effectors for Cobots



Above, EMI's End-of-Arm Tool removes the part from the injection mold, hands it off to the Cobot end effector customized by our Engineers, and delivers the workpiece to a Cobot-Ready Conveyor. EMI helped automate this real world application in a customer facility.





Are you ready to get started on your next conveyor order? Put our expertise to work for you!
Getting started is easy. If you have a concept in mind just fill out and submit the datasheet on page 8 or contact us to have an EMI sales engineer discuss your application.



Manufacturing & Administrative Offices

Sales@EMlcorp.com • Phone: 937-596-5511
801 West Pike Street, Jackson Center, Ohio 45334



Sales & Design Engineering

Sales@EMlcorp.com • Phone: 216-535-4848
28300 Euclid Ave. Wickliffe, Ohio 44092



EMI Mexico

Ventas@EMlcorp.com • Teléfono: +52 (442) 349-7646
Parque Industrial Querétaro
Santa Rosa de Jáuregui, Querétaro 76220