

CATALOG
C24

EMI[®]

CONVEYORS &
AUTOMATION SYSTEMS



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.



*How-to Video:
Replace a Belt*



*How-to Video:
Flip Motor Position*



Model DDF

*Model DDC with optional
H-8 hopper.*

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.

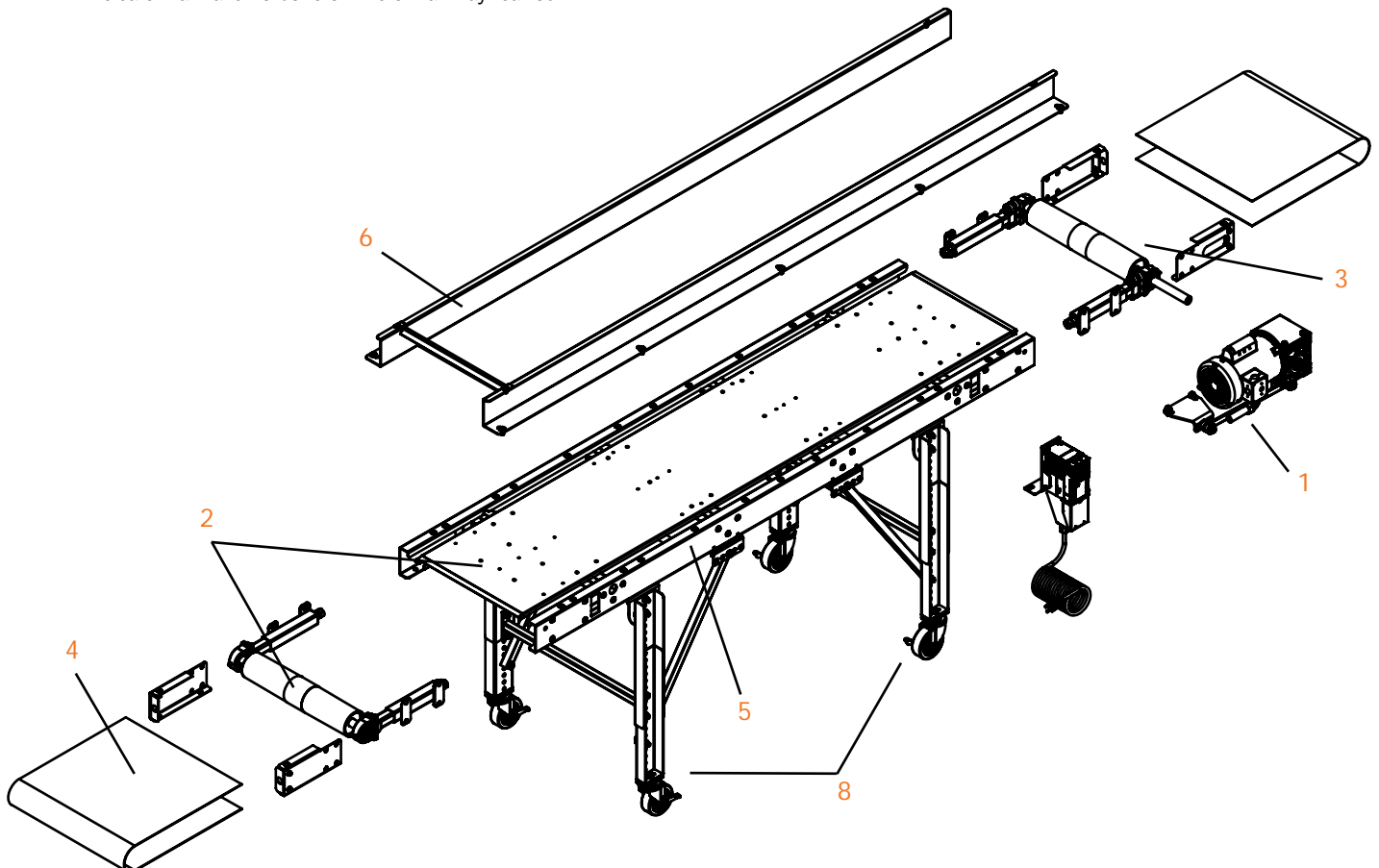
Leg Sets and Castors: Black powder coated steel leg sets and castors are standard on all models.

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:** Drive Package: Includes a 1/3 hp 110V input AC (110V input with 230/60/3 output to motor) TEFC motor with a 4–40 FPM variable speed controller (2-20 FPM or 7-70 FPM are available at no charge). The gear reducer is sealed and permanently lubricated requiring no service. Power transmission is provided via direct drive configuration. 15' of SJ cord with a standard three-prong plug is pre-wired to the starter. Control wiring is contained in liquid-tight conduit and connectors. Merit Line conveyors 3'–40' long have 150 lb. maximum load.
- 2 **Belt Guidance:** True Track Belt Guidance System comes standard on 3'–30' long conveyors. Using a Double V-guide slot in the frame, 1/4" wall crowned pulleys, and bonded Double V-guide belting, "True Track" minimizes belt run off and reduces belt tracking maintenance.
- 3 **Pulleys:** To ensure long lived operation, 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

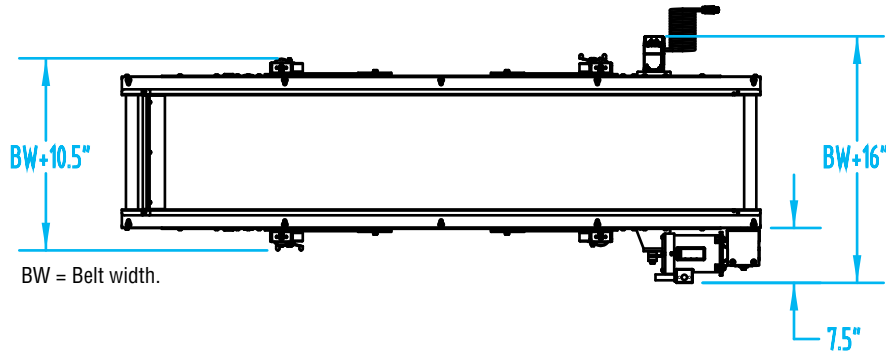
This lightweight, yet strong, aluminum conveyor has a multitude of uses: under press, along side the press, overhead and assembly station conveyors, etc. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg sets is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



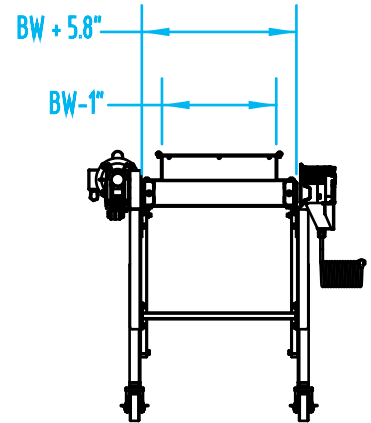
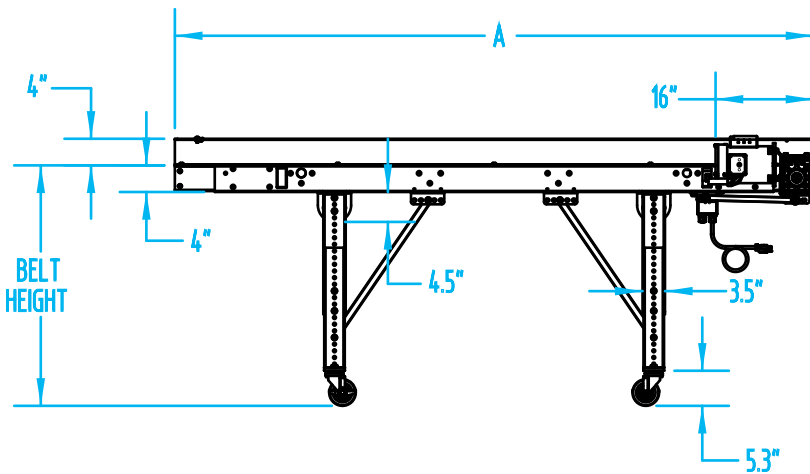
Click for 360° View!

Features

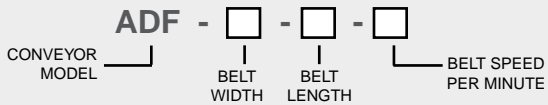
- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- No roller chain or sprockets.
- Sealed gear reducer.
- 1/8" anodized aluminum construction.
- 150 lb. maximum load.
- Double V-guided, FDA approved, white PVC belt.
- 4" tall side rails lapped over conveyor belt.
- 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.



How to Order:



Specify the conveyor Infeed and Discharge Belt Height. Download Conveyor Specifications Form [here](#).

Common Options

- Alternate fixed and variable speed ranges available.
- Alternate voltage electrical packages.
- Robotic and box fill controls.
- Reversing, for process control.
- Side rail extensions.
- Alternate motor locations, see page 177.
- Soft drop zone, to cushion part drop.
- Side belt guards for part containment.
- Angled nose over.
- Numerous belt options, see page 106.

Merit Line ADC 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

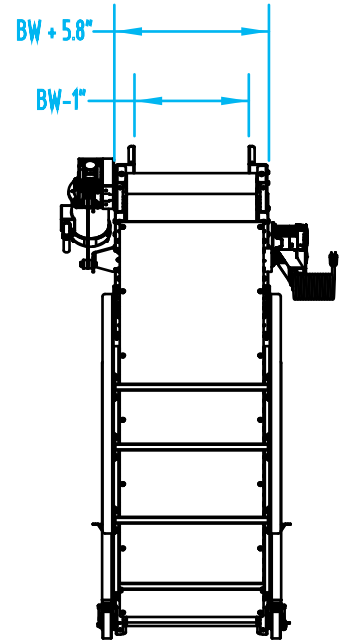
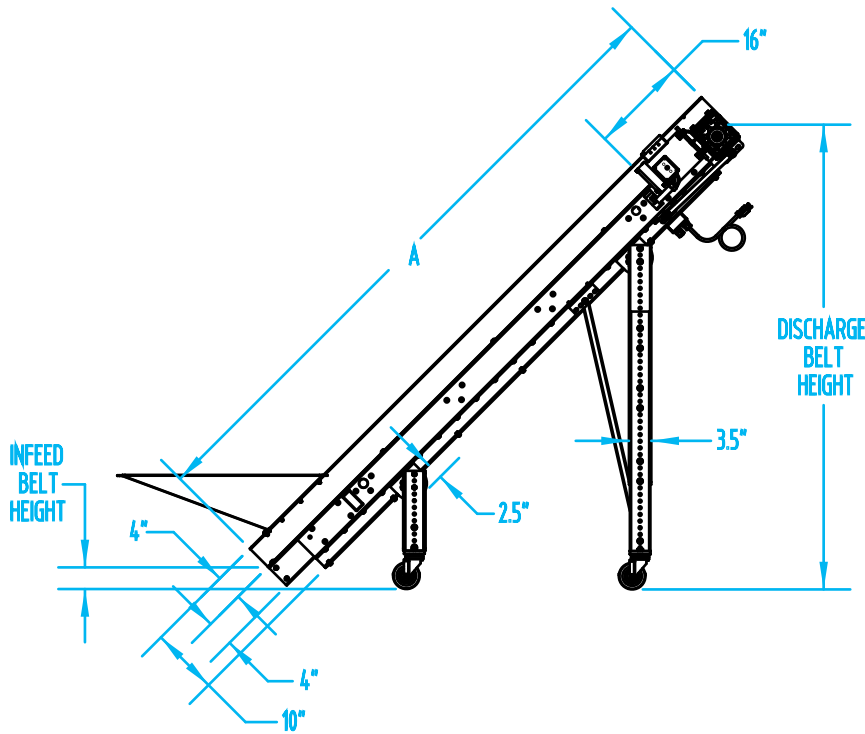
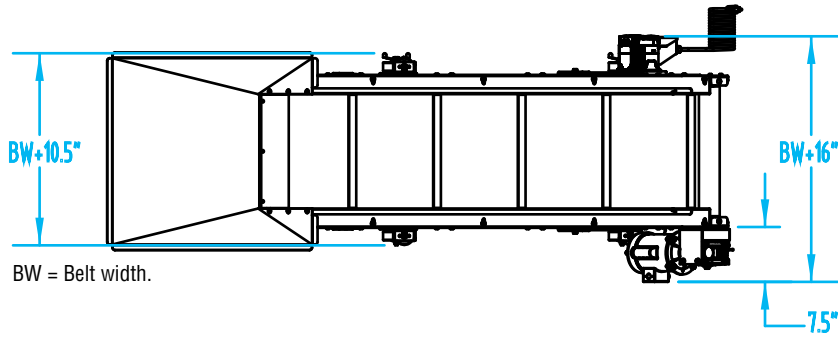
Strong, inclined conveyors move finished parts up to work stations or transfer them to, or from, flat belt conveyors for conveying to assembly or packing/shipping. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg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



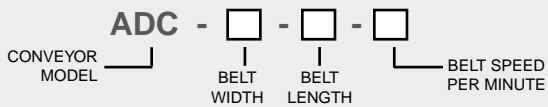
Click for 360° View!

Features

- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- No roller chain or sprockets.
- Sealed gear reducer.
- 150 lb. maximum load.
- Double V-guided, FDA approved, white PVC belt with 1½" tall flexible cleats on 18" centers.
- ⅜" anodized aluminum construction.
- 4" tall side rails, lapped over conveyor belt.
- Leg sets and swivel castors included.
- Infeed hoppers not 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:



Specify the conveyor Infeed and Discharge Belt Height. Download Conveyor Specifications Form here.

Common Options

- Infeed hoppers see page 174 for sizes and dimensions.
- Alternate fixed and variable speed ranges available.
- Alternate voltage electrical packages.
- 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.
- Numerous belt options, see page 106.

Merit Line ADK 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

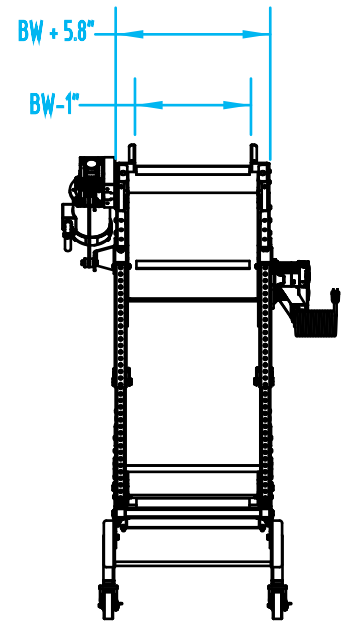
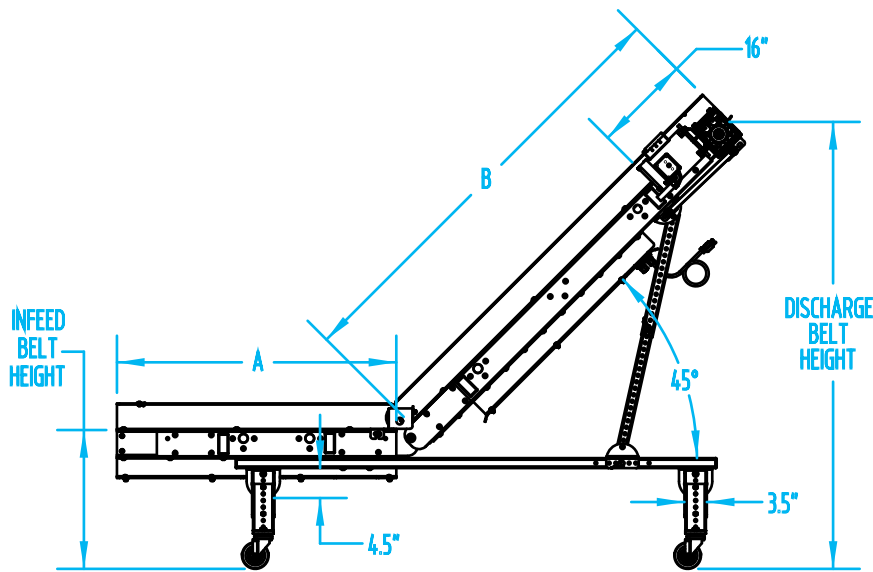
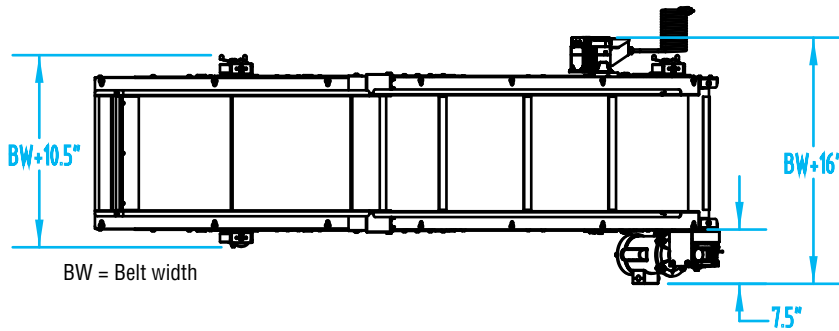
An adjustable angle of 20°–45°, makes this Adjustable Angle Conveyor perfect for under the press, along side the press or for moving parts to a trunkline, work station or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles 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.



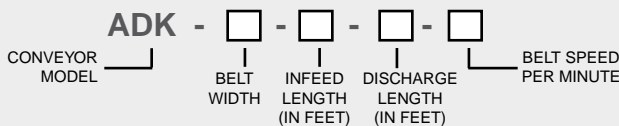
Click for 360° View!

Features

- Angle adjustment from 20° to 45°.
- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- No roller chain or sprockets.
- Sealed gear reducer.
- 50 lb. maximum load.
- 1/8" anodized aluminum sheet.
- Double V-guided, FDA approved, white PVC belt with 1½" tall flexible cleats on 18" centers.
- 4" tall 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:



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'. The "B" dimension incline length minimum is 2½'. Contact EMI if A + B exceeds 15'. Download Conveyor Specifications Form [here](#).

Common Options

- Alternate fixed and variable speed ranges available.
- Alternate voltage electrical packages.
- Robotic and box fill controls.
- Alternate cleat heights and spacing.
- Side rail extensions.
- Alternate motor locations, see page 177.
- Stainless steel discharge chutes.
- Soft drop zone, to cushion part drop.
- Side belt guards for part containment.
- Process control for reversing.
- Numerous belt options, see page 106.

DDZ Steel Frame | Cleated Belt Z Conveyor ADZ Aluminum Frame | Cleated Belt Z Conveyor

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

Standard Combined lengths: up to 15' at 1' increments

*Consult your EMI representative for other widths and lengths

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.

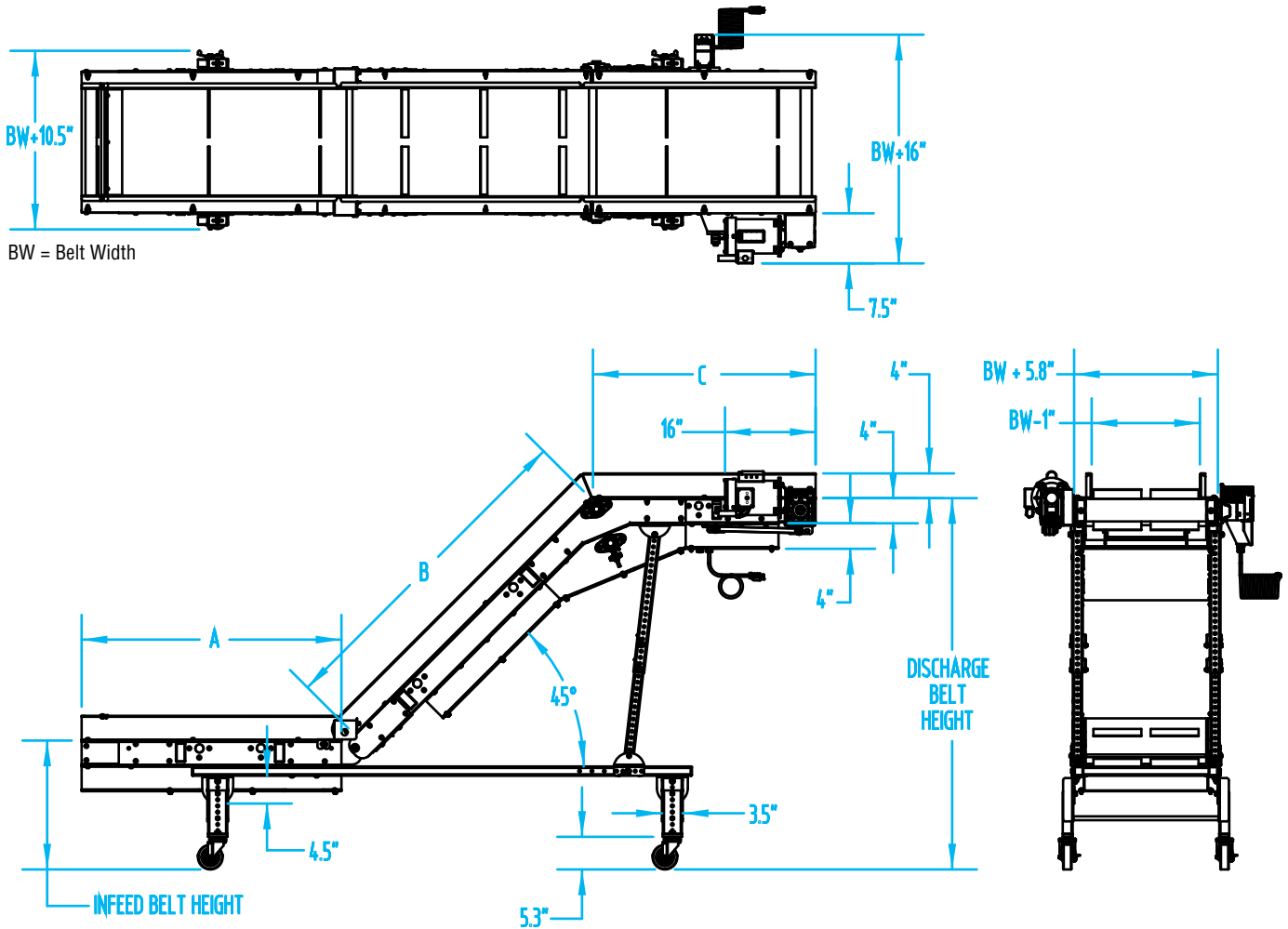
- ✓ **Direct Drive drive train requires less maintenance**
- ✓ **Double V-guided belt tracking extends belt life**



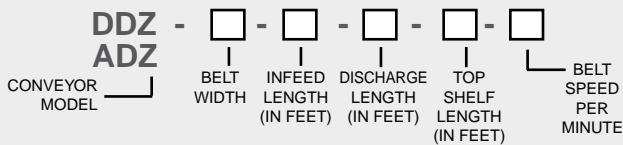
Click for 360° View!

Features

- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- 50 lb. maximum load.
- 12-gauge steel construction or 1/8" anodized aluminum.
- Double V-guided, FDA approved, white PVC belt with 1½" tall flexible cleats on 18" centers.
- 4" tall 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:



Minimum infeed "A" length is 2½ ft. Minimum incline "B" length is 2½ ft. Minimum top shelf "C" length is 3 ft. Contact EMI if A + B + C exceeds 15'.

Download Conveyor Specifications Form [here](#).

Common Options

- Alternate fixed and variable speed ranges available.
- Alternate voltage electrical packages.
- Robotic and box fill controls.
- Numerous belt options, see page 106.
- Soft drop zone, to cushion part drop.
- Side belt guards for part containment.
- Alternate motor locations, see page 177.

Merit Line DDF Steel 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

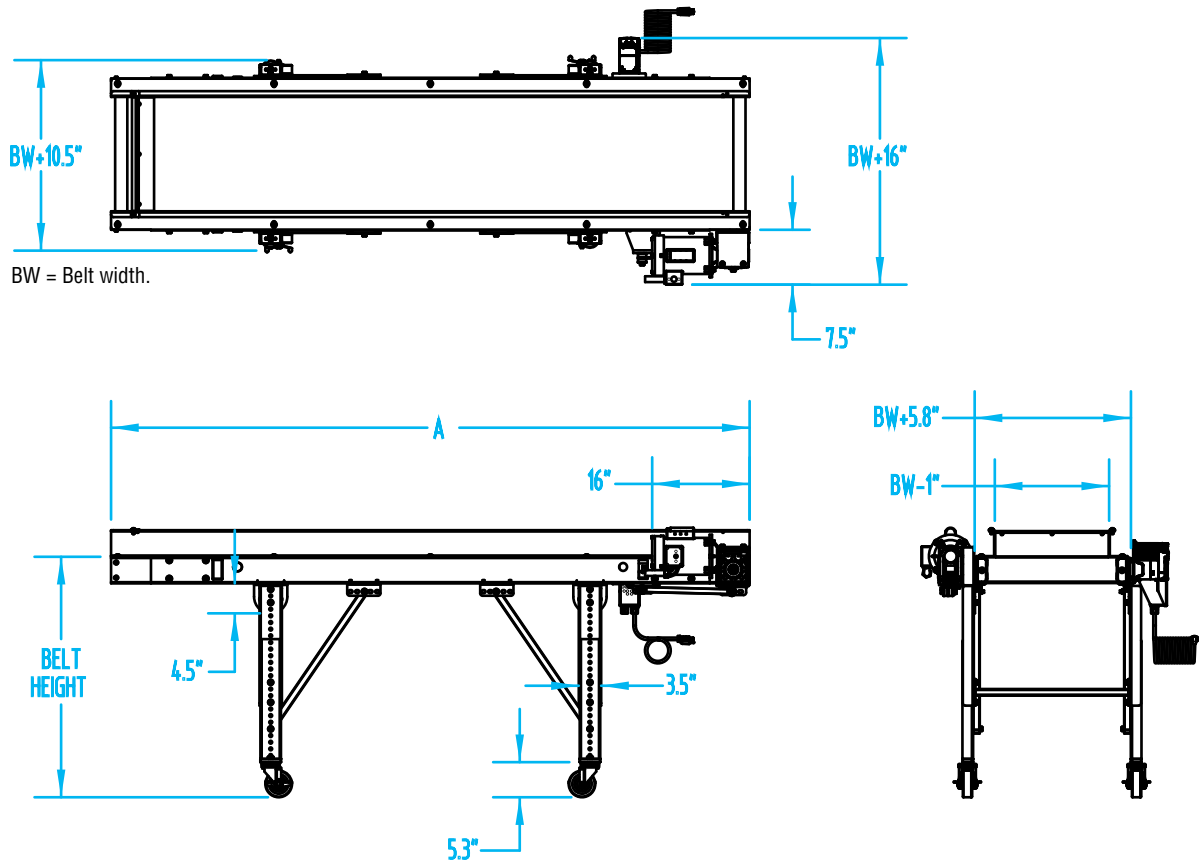
These strong conveyors have a multitude of uses: under press, along side the press, overhead and assembly station conveyors, etc. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length.



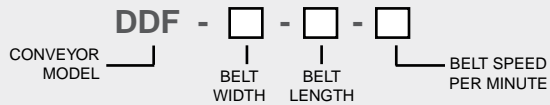
Click for 360° View!

Features

- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- 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" tall 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:



Specify the conveyor Infeed and Discharge Belt Height.
Horsepower charts are on page 170.
Download Conveyor Specifications Form [here](#).

Common Options

- Alternate fixed and variable speed ranges.
- Alternate voltage electrics.
- Robotic and box fill controls.
- Reversing for process control.
- Side rail extensions.
- Alternate motor locations, see page 177.
- Soft drop zone, to cushion part drop.
- Side belt guards for part containment.
- Angled nose over.
- Numerous belt options, see page 106.

Merit Line DDC Steel 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

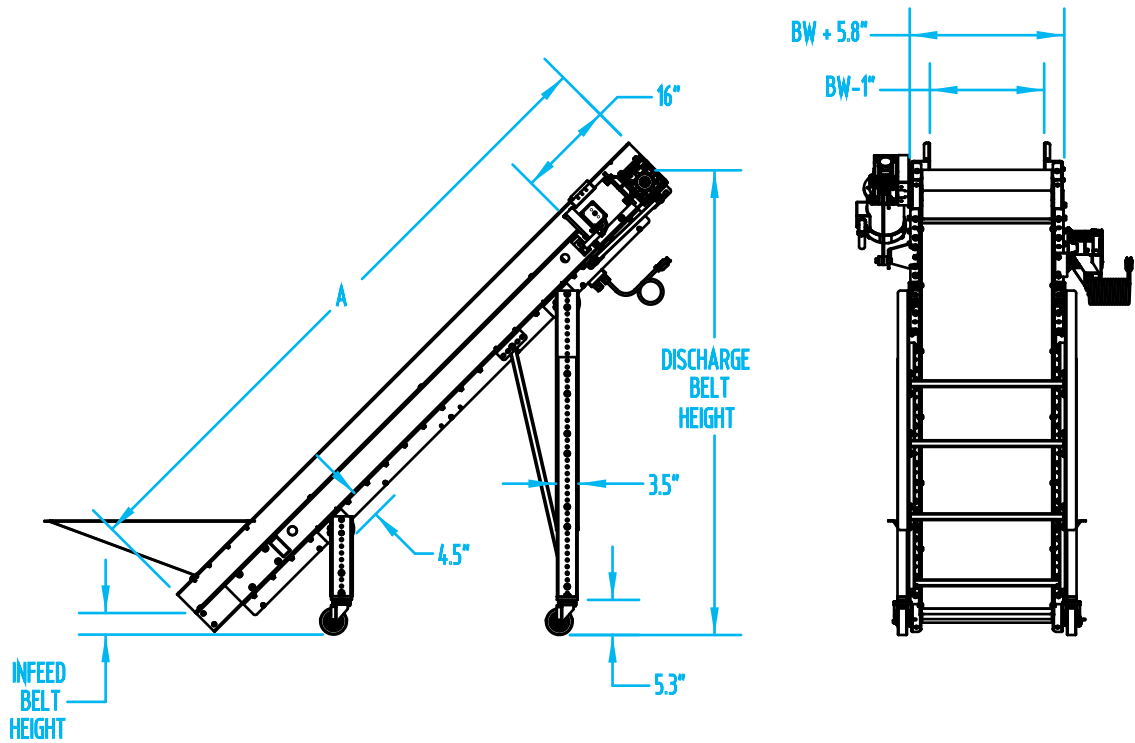
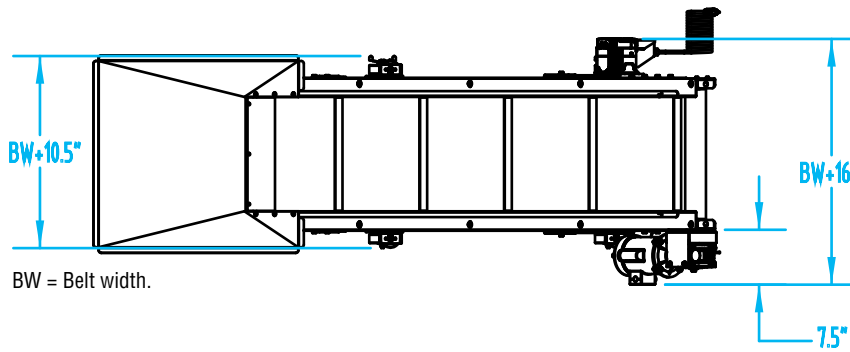
Strong, inclined conveyors move finished parts up to work stations or transfer them to, or from, flat belt conveyors for conveying to assembly or packing/shipping. A large selection of belt speeds are available. Drive horsepower will depend on selected speed and conveyor length. Also, the number of leg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



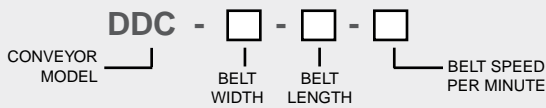
Click for 360° View!

Features

- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- No roller chain or sprockets.
- Sealed Gear reducer.
- 150 lbs. maximum load.
- Double V-guided, FDA approved, white PVC belt with 1½" tall flexible cleats on 18" centers.
- 12-gauge steel construction.
- 4" tall side rails, lapped over conveyor belt.
- Leg sets and swivel castors included.
- Hopper not included (H-8 hopper shown).
- 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:



Specify the conveyor Infeed and Discharge Belt Height.
 Horsepower charts are on page 170.
 Download Conveyor Specifications Form [here](#).

Common Options

- Infeed hoppers see page 174 for sizes and dimensions.
- Alternate fixed and variable speed ranges.
- Alternate voltage electrics.
- Robotic and box fill controls.
- Side belt guards for part containment.
- Nose overs.
- Numerous belt options, see page 106.
- Polycarbonate or deletion of bottom plate.
- Over-current sensing control for grinder feeding.
- Stainless steel discharge chute.
- Alternate motor locations, see page 177.

Merit Line DDK Steel 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

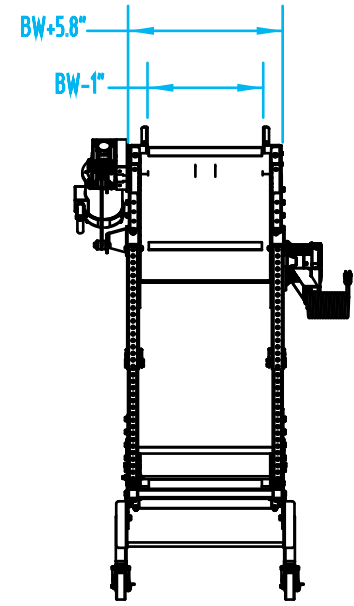
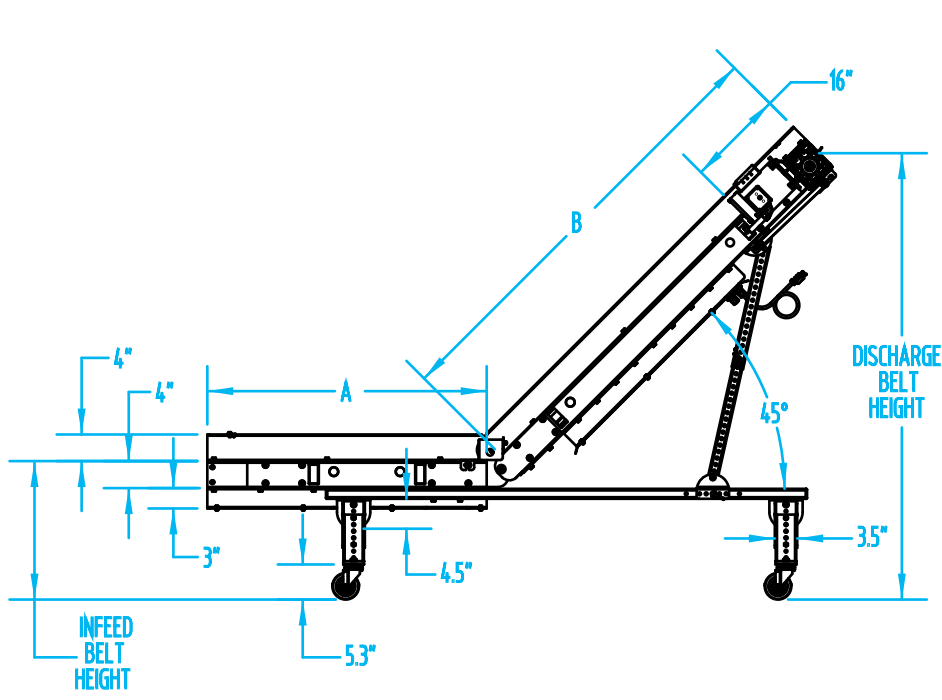
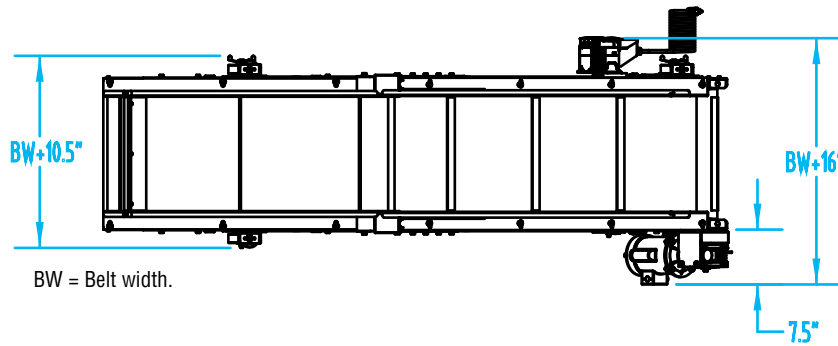
An adjustable angle of 20°–45°, makes this Adjustable Angle Conveyor perfect for under the press, along side the press or for moving parts to a trunkline, work station or automatic box filling system. Horizontal to inclined transition rollers eliminate pinch points and assure smooth part transfer. Angles 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.



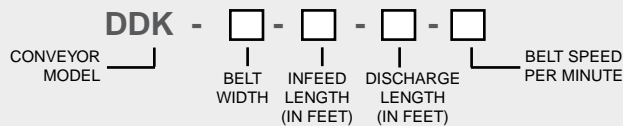
Click for 360° View!

Features

- Angle adjustment from 20°–45°.
- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- 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" tall cleats on 18" centers.
- 4" tall 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:



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'. The "B" dimension incline length minimum is 2½'. Contact EMI if A + B exceeds 15'.
 Download Conveyor Specifications Form [here](#).

Common Options

- Alternate fixed and variable speed ranges.
- Alternate voltage electrics.
- Robotic and box fill controls.
- Alternate cleat heights and spacing.
- Side rail extensions.
- Alternate motor locations, see page 177.
- Stainless steel discharge chutes.
- Soft drop zone, to cushion part drop.
- Side belt guards for part containment.
- Process control for reversing.
- Numerous belt options, see page 106.

ANO65 Aluminum Frame | 65° Nose-Over, Cleated Belt SNO65 Steel Frame | 65° Nose-Over, Cleated Belt

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

Standard Combined lengths: to 20' at 1' increments

*Consult your EMI representative for other widths and lengths

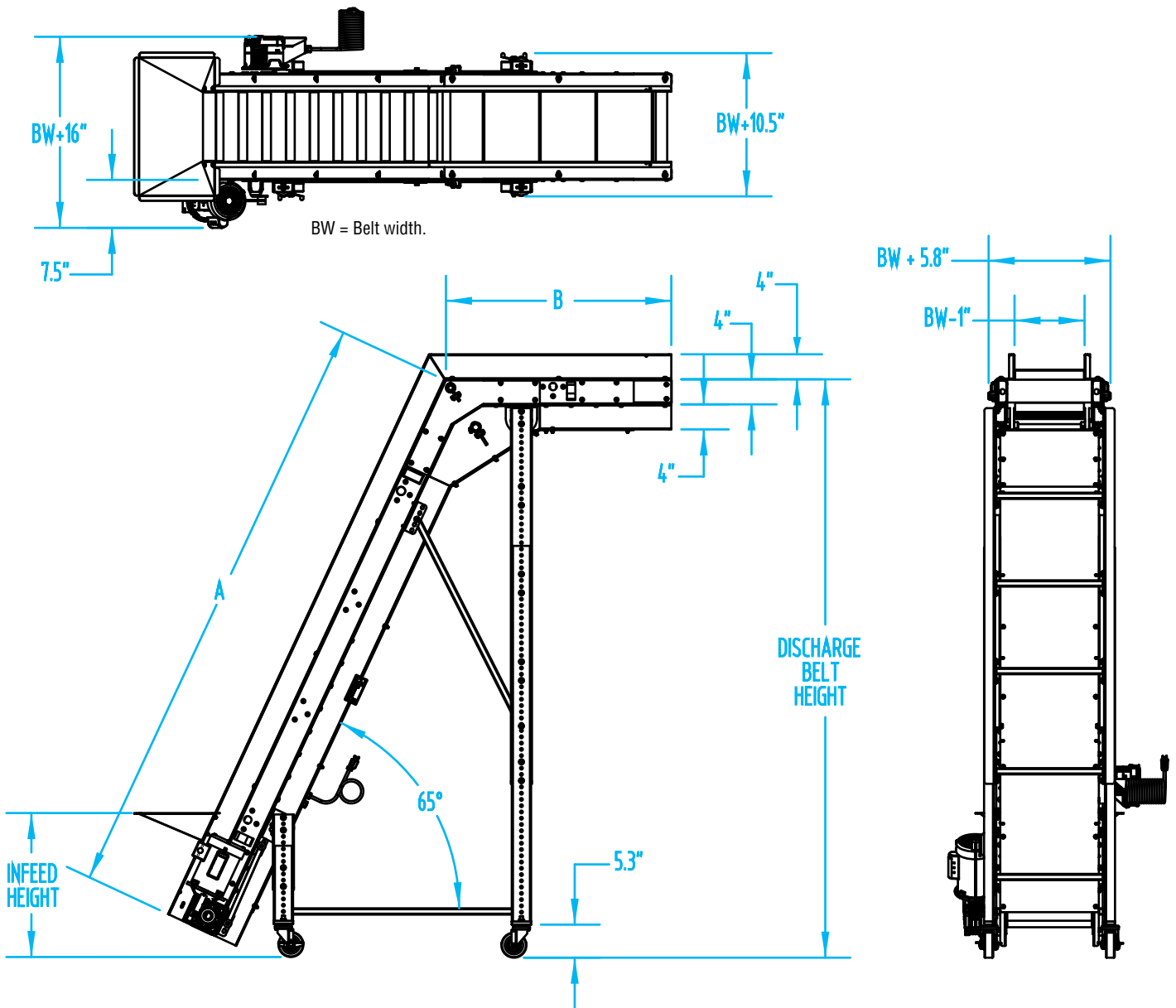
Perfect for feeding into vibratory bowls or cap liners, EMI's popular Direct Drive, 65° angle, nose-over conveyor is one of our standard products. An extensive choice of options—including alternate cleat spacing, and cleat height—offers customized solutions to meet a broad range of application needs.

Features

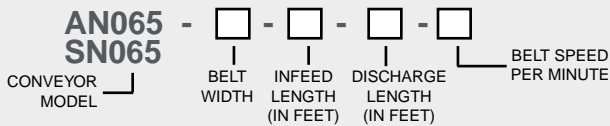
- Direct Drive configuration with 1/3 hp AC motor.
- 4–40 FPM variable speed drive.
- 50 lb. maximum load.
- 12-gauge steel construction or 1/8" anodized aluminum.
- Double V-guided belt with 1½" tall cleats on 9" centers.
- 4" tall side rails, lapped over conveyor belt.
- Infeed hopper. Different sizes and configurations available.
- Leg sets and swivel locking 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.



Click for 360° View!



How to Order:



Download Conveyor Specifications Form [here](#).

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

Common Options

- Alternate voltage electrics.
- Box fill controls.
- Numerous belt options, see page 106.
- Infeed hopper options.
- Side belt guards for part containment.
- Alternate motor locations, see page 177.