

BELT CONVEYORS

Low Profile Conveyors *(pages 2-5)*

- ◆ Designed for below die applications
- ◆ 3/8" from bottom of tray to top of belt

CD Conveyors *(pages 6-7)*

- ◆ Bottom drive, customizable conveyor
- ◆ Greater capacity than the low profile conveyor
- ◆ Maximum belt width of 18.6"

DMC Conveyors *(pages 8-11)*

- ◆ Pax's most customizable and robust conveyor
- ◆ Belt widths from 12" to 72"



Low Profile Conveyors

U.S. Patents 5,904,240 and 6,186,318

Engineered specifically for under-die part and scrap removal, the Pax Low Profile Conveyor was developed in our own stamping facility to withstand harsh stamping environments.

Key Features

Extreme Low Profile

- ◆ Just 3/8" from the bottom of the conveyor to the top of the belt
- ◆ Requires 2"–2.5" height clearance for installation
 - 2" for flush mount; 2-1/2" for standard mount
- ◆ Only 1.25" from press bolster to top of conveyor sides

Protected Belt Edges

- ◆ Tray design helps prevent scrap from getting beneath the belt
- ◆ Extends belt life and reduces maintenance

Stopped Belt Sensor (Optional)

- ◆ Monitors belt movement
- ◆ Integrates with press controls to stop operation if the belt stops

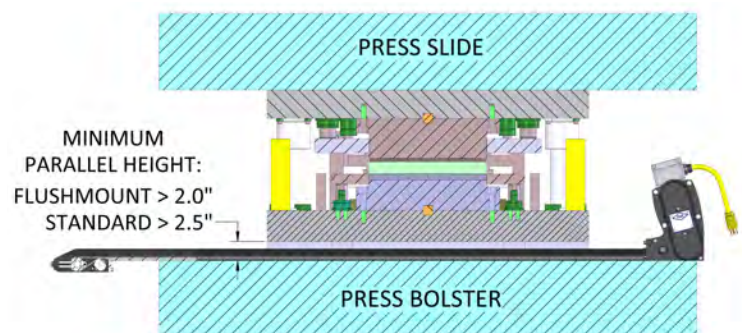
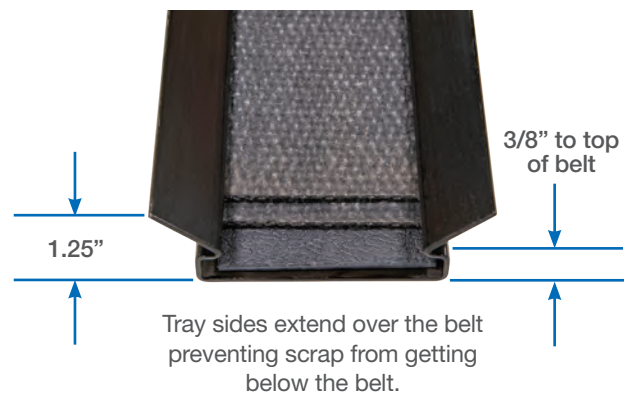
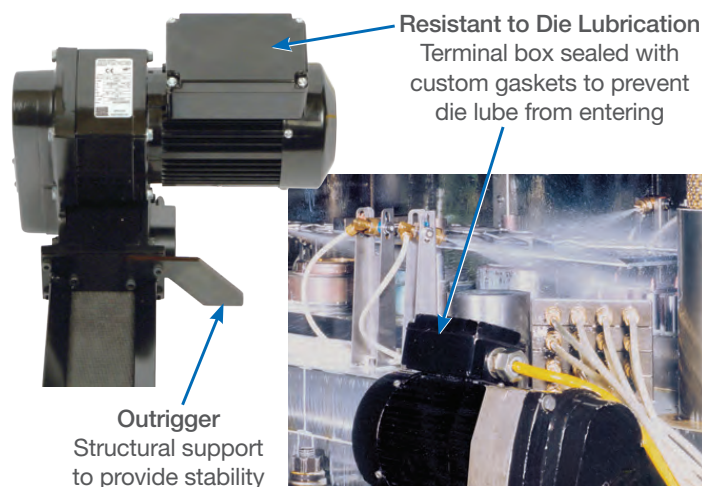
Resistant to Die Lubricants

- ◆ Motor is sealed to prevent die lubrication from entering
- ◆ Conveyor can be washed down between uses

SPECIFICATIONS

- ◆ Fixed Speed Options – 27, 32, 37, 43, 51, 55, 65, 75, 87, or 103 FPM
- ◆ Optional Variable Speed – 10.5% to 135% of fixed speed
- ◆ Maximum Weight on Conveyor – < 20 lbs
 - To detect material jams, the conveyor is designed to stop when the weight exceeds 20 lbs

4" Wide Conveyor with Outrigger

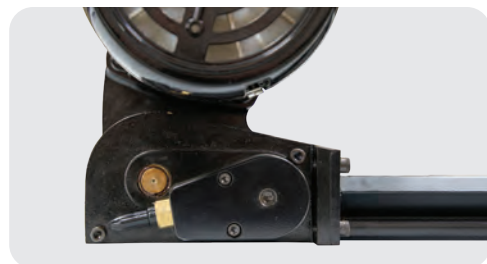


Conveyor Sitting on Press Bolster
2-1/2" of height is needed to install a conveyor with the standard tension, and 2" is required for a flush mount tension end.

Popular Options

Stopped Belt Sensor

- ◆ Integrates with the press die protection circuit to stop the press if the belt stops
- ◆ Helps minimize damage to both the conveyor and press die due to material jams
- ◆ Available in magnetic or DC proximity styles for all drive types
- ◆ Available in NPN and PNP styles for extended top drive and inverted drive conveyors



Stopped Belt Sensor

Self-Adjusting Belt Wiper

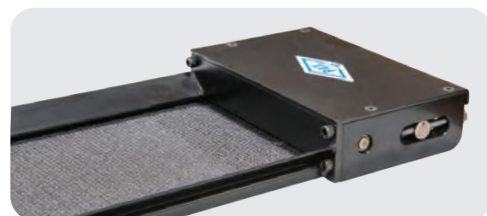
- ◆ Greatly reduces the chance of small slugs entering between the belt and tray
- ◆ Helps prevent premature belt wear



Self-Adjusting Belt Wiper

Flush Mount Tension End

- ◆ Allows the conveyor tension end to rest directly on the bolster
- ◆ Requires that the belt direction moves toward the motor
- ◆ Not available for conveyors with standard top drive configuration



Flush Mount Tension End

Alternate Belt Types

- ◆ Standard belts are made of rugged woven polyester PVC, joined with stainless-steel lacing and pin. Belts can be changed in less than 5 minutes.
- ◆ Seamless belts and specialty belts are available. Contact Pax for details.
 - The most popular option is a 2-ply monofilament belt – typically lasts 3-4 times longer than standard belts

Custom Conveyor Lengths

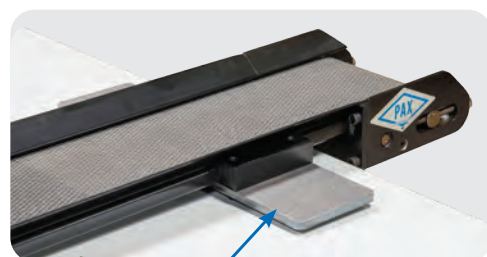
- ◆ Standard lengths include: 48", 60", 72", 84", 96" (refer to charts on page 5)
- ◆ Custom lengths are available from 36" to 120"

Side Rail Extensions

- ◆ Clamp-on tray extensions that increase the side height of the conveyor

Toe Clamps

- ◆ 3" long clamps designed to attach anywhere along the lower conveyor tray
- ◆ Each clamp includes two 1/4" tapped holes for mounting:
 - Mounting plate – uses 1/4" bolts installed from below the plate
 - Direct to steel surface – uses 3/16" bolts passed through the clamp and into tapped holes in the surface



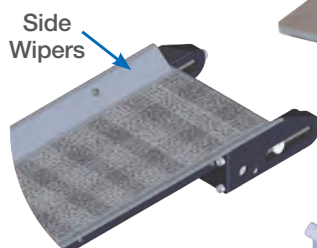
Toe Clamps
(500-5638-0)

U-Shaped Trays

- ◆ Custom trays that do not extend over the belt

Side Wipers

- ◆ Custom steel wipers help prevent scrap from getting beneath the belt
- ◆ Wipers are set to ~0.015" clearance from belt surface
- ◆ Requires a U-shaped tray and endless belt option



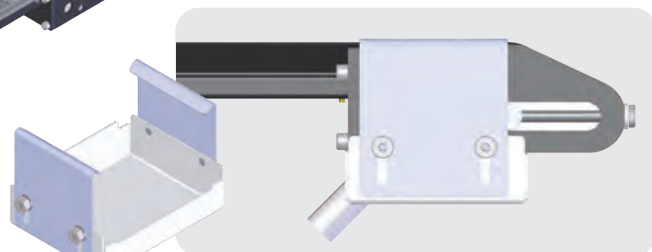
Side Wipers

Adjustable Support Stands

- ◆ Provides stable, customizable conveyor support

Lube Collection Pans

- ◆ Attaches to the exit end of the conveyor to capture excess lubrication
- ◆ Includes a drain port for directing captured lube



Lube Collection Pan

Low Profile Conveyors

U.S. Patents 5,904,240 and 6,186,318

Model Number Nomenclature

Model Number Example:

A 04 04 – S L 043 I T S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Drive Type

*A = Top Drive
B = Inverted Drive, Towards Motor
C = Inverted Drive, Away From Motor
D = Special
G = Extended Top Drive, Towards Motor
H = Extended Top Drive, Away From Motor
I = Flushmount Extended
J = Flushmount Inverted

**Standard Configuration*

Note: Left and right hand is denoted from motor end while facing conveyor.

② Width (in):

04 = 4" 10 = 10"
05 = 5" 12 = 12"
06 = 6" 14 = 14"
07 = 7" 16 = 14"
08 = 8" 18 = 18"
09 = 9" 20 = 20"

③ Length (ft):

03 = 3' 07 = 7'
04 = 4' 08 = 8'
05 = 5' 09 = 9'
06 = 6' 10 = 10'

④ Stopped Belt Sensor

*N = No Sensor
S = Mag Sensor
P = Prox (2 Wire)

⑤ Drive Hand

*L = Left Hand
R = Right Hand

⑥ Belt Speed (ft/min)

30:1	15:1
027 = 27	055 = 55
032 = 32	065 = 65
037 = 37	075 = 75
*043 = 43	087 = 87
051 = 51	103 = 103

⑦ Motor

*I = 30:1, 120 VAC
J = 15:1, 120 VAC
K = 30:1, 240, VAC 3 PH
L = 15:1, 240 VAC, 3 PH
M = 30:1, 480 VAC, 3 PH
N = 15:1, 480 VAC, 3 PH
O = Variable Speed, 120 VAC
P = Variable Speed, 240 VAC, 3 PH
Q = Variable Speed, 480 VAC, 3 PH

Note: Variable speed is 10.5% to 135% of fixed speed

⑧ Belt Material

*T = Polyethylene w/ PVC, Tuffy, Laced
U = CU210, Polyurethane, Laced
V = CU210, Polyurethane, Endless

⑨ Tray

*S = Standard
U = U-Shaped

Drive Types



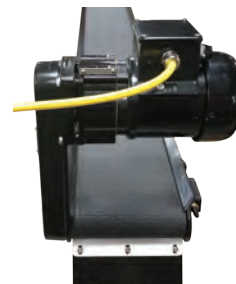
Top Drive

- ◆ Motor sits directly on press bolster
- ◆ Often positioned within existing guarding
- ◆ Material must be conveyed away from the motor



Inverted Drive

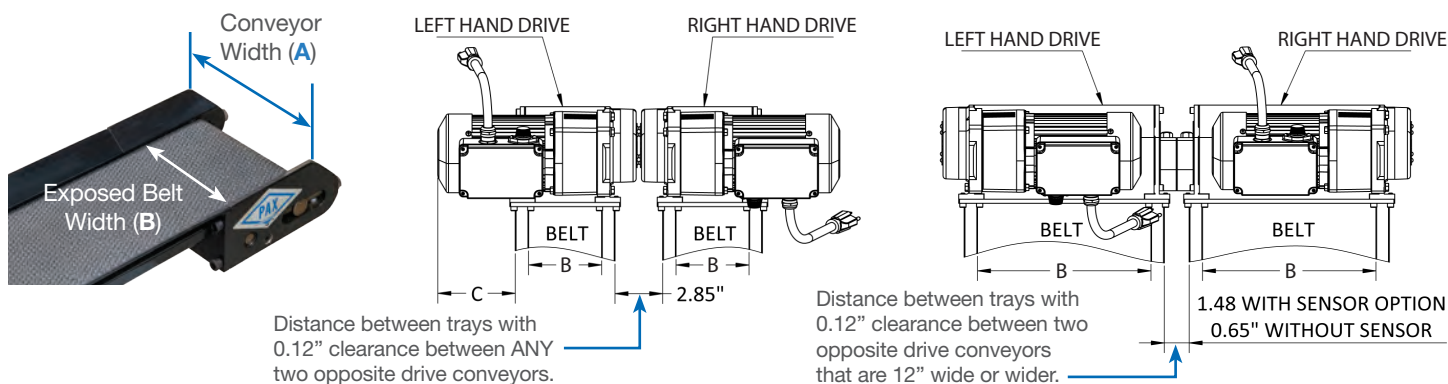
- ◆ Motor hangs below conveyor tray
- ◆ Material can be conveyed towards or away from the motor



Extended Top Drive

- ◆ Motor mounted above conveyor tray
- ◆ Material can be conveyed towards (and under) or away from the motor

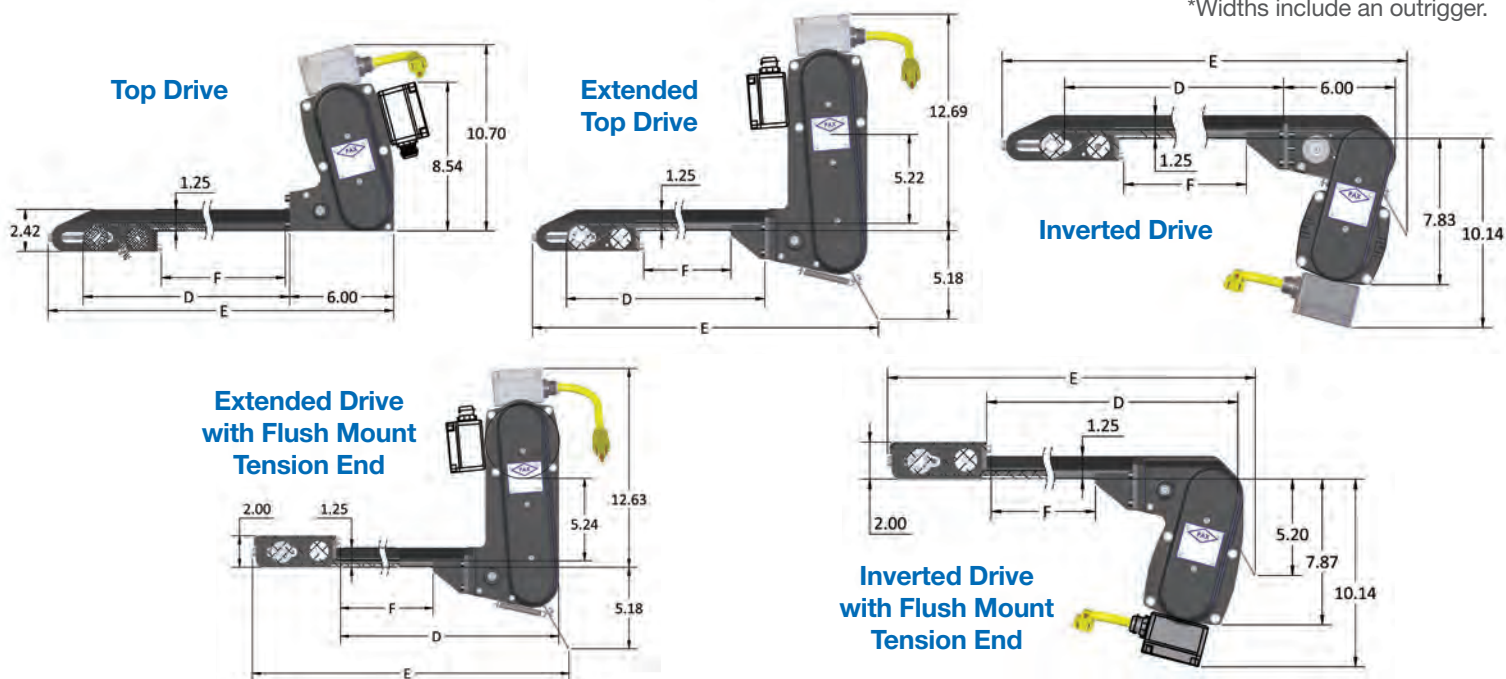
Standard Conveyor Dimensions



Low Profile Conveyors – Standard Widths

Nominal Width	4"*	5"*	6"	7"	8"	9"	10"	12"	14"	16"	18"	20"
Tray width (A)	3.95"	4.95"	5.95"	6.95"	7.95"	8.95"	9.95"	11.95"	13.95"	15.95"	17.95"	19.95"
Belt Width (B)	2.35"	3.35"	4.35"	5.35"	6.35"	7.35"	8.35"	10.35"	12.35"	14.35"	16.35"	18.35"
Distance Motor Extends Beyond Tray (C)	6.63"	5.63"	4.63"	3.63"	2.63"	1.63"	0.63"	—	—	—	—	—

*Widths include an outrigger.



Low Profile Conveyors – Standard Lengths

Nominal Length	Top Drive			Extended Top Drive			Inverted Drive			Extended Drive (Flush Mount)			Inverted Drive (Flush Mount)		
	D	E	F	D	E	F	D	E	F	D	E	F	D	E	F
4'	48"	56"	43.2"	48"	56.7"	41.5"	48"	56.7"	41.5"	49.5"	55.8"	43.2"	49.5"	55.7"	41.5"
5'	60"	68"	55.2"	60"	68.7"	53.5"	60"	68.7"	53.5"	61.5"	67.8"	55.2"	61.5"	67.7"	53.5"
6'	72"	80"	67.2"	72"	80.7"	65.5"	72"	80.7"	65.5"	73.5"	79.8"	67.2"	73.5"	79.7"	65.5"
7'	84"	92"	79.2"	84"	92.7"	77.5"	84"	92.7"	77.5"	85.5"	91.8"	79.2"	85.5"	91.7"	77.5"
8'	96"	104"	91.2"	96"	104.7"	89.5"	96"	104.7"	89.5"	97.5"	103.8"	91.2"	97.5"	103.7"	89.5"

CD Conveyors

The Pax CD Conveyor was engineered for applications requiring a bottom drive, fully customizable conveyor solution.

Key Features

Customizable

- ◆ Conveyor length is built to order
- ◆ Motor can be located anywhere along the bottom of the conveyor (position is fixed once installed)
- ◆ Wide range of standard and custom options available

Precision Belt Tracking

- ◆ Standard tracking adjusted via the belt tensioner (located below conveyor)
- ◆ Fine tracking adjustments at all four corners of the conveyor
 - Ideal for reversing applications or precision tuning requirements

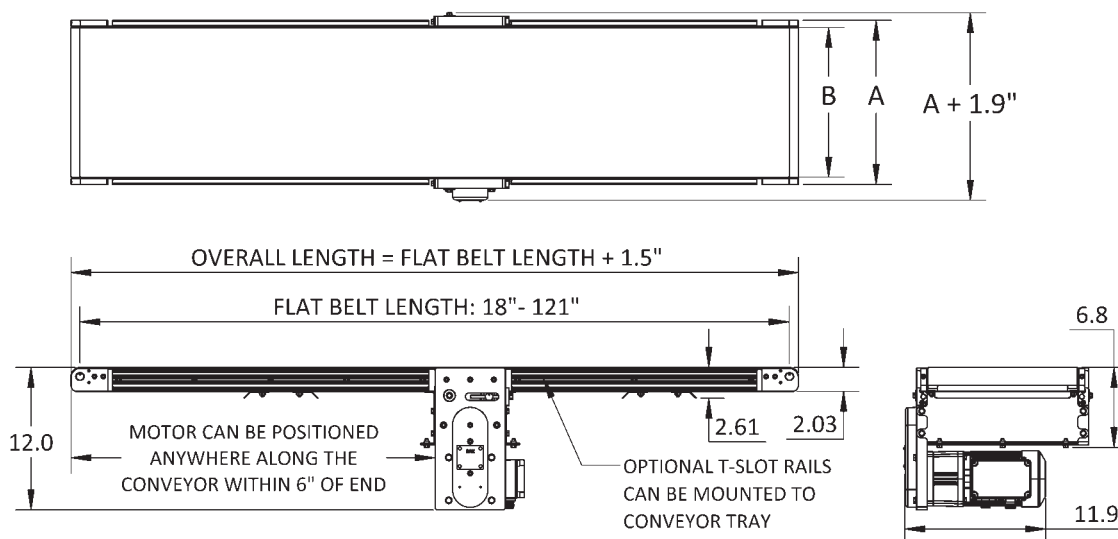
Reversing Option

- ◆ Typically used to divert parts to different bins



SPECIFICATIONS & DIMENSIONS

- ◆ Fixed Speed – 27, 32, 37, 43, 51, 55, 65, 75, 87, or 103 FPM (feet per minute)
- ◆ Variable Speed – Standard: 10.5% to 135% of fixed speed | High Speed: up to 200 FPM
- ◆ Voltage – Standard: 115 V, Single Phase, 60 Hz | Optional: 240 & 480V, 3-phase, 60 Hz
- ◆ Belt Material – 2-Ply Monofilament Urethane (*Contact Pax for alternate materials.*)
- ◆ Standard Lengths – 24" to 120" (*Contact Pax for custom lengths.*)



CD Conveyors – Standard Widths												
Nominal Width	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"	18"	20"
Tray Width (A)	3.95"	4.95"	5.95"	6.95"	7.95"	8.95"	9.95"	11.95"	13.95"	15.95"	17.95"	19.95"
Belt Width (B)	2.6"	3.6"	4.6"	5.6"	6.6"	7.6"	8.6"	10.6"	12.6"	14.6"	16.6"	18.6"

Popular Options

Adjustable, Pivoting Supports (Legs)

- ◆ Enables adjustment of conveyor height and angle
- ◆ Base of each support: 24" W x 8" D
- ◆ Available with casters or floor-mount design

Adjustable, Pivoting Support Stand with Casters

- ◆ Enables adjustment of conveyor height and angle
- ◆ Can be centered or offset for cantilevered setups

Adjustable Center Stand

- ◆ Typically used with reversing conveyors
- ◆ Stand mounts to conveyor on both sides of a centrally located motor
- ◆ Allows both ends of conveyor to cantilever
- ◆ Supports part bin placement at both ends

Custom Mounting Arrangements

- ◆ To mount to existing supports or structures, conveyors can be provided with:
 - Extruded aluminum side rails
 - Tapped holes (clinch nuts) on sides
 - Custom brackets and supports as required

Side Rails

- ◆ Straight, vertical, or angled configurations
- ◆ Distance between rails can be equal to the tray width or designed to extend inward to cover belt edges

Side Wipers

- ◆ Custom steel wipers help prevent scrap from getting beneath the belt
- ◆ Wipers are set to ~0.015" clearance from belt surface
- ◆ Requires the use of an endless belt option

Self-Adjusting Belt Wiper

- ◆ Reduces chance of small slugs adhering to the belt

Magnetic Hold Down

- ◆ Magnets embedded in the wear strip beneath the belt help keep moving parts secured

Removable, Adjustable Parts Divider

- ◆ Maintains separation between parts from different lanes of a 2-out die
- ◆ Position is adjustable along the conveyor width
- ◆ Easily removable

High Speed Arrangement

- ◆ Larger bearing arrangement is used to obtain higher speeds
- ◆ Contact Pax for detailed specifications



Conveyor with Side Rails that Extend over Belt Edges and Adjustable, Pivoting Supports (legs)



Conveyor with Side Rails that Extend over Belt Edges and Adjustable, Pivoting Support Stand with Casters



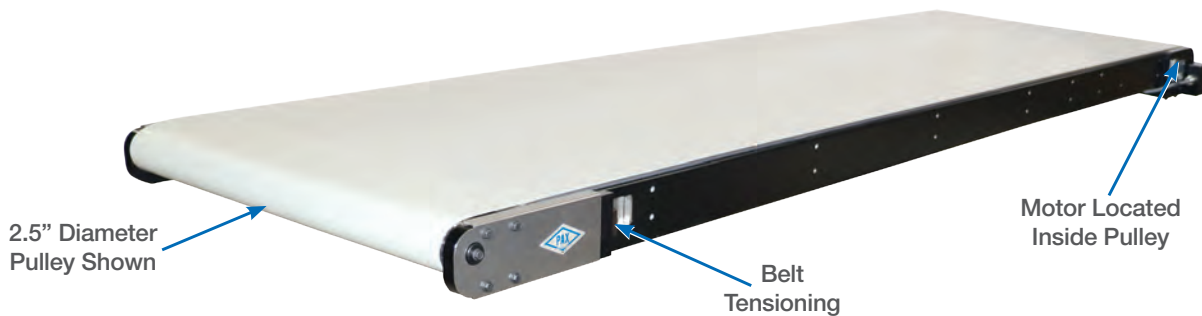
Conveyor with Adjustable Center Stand



Conveyor with Extruded Aluminum Side Rails

DMC Conveyors

The Pax DMC Conveyor provides a customized, compact solution for reliable parts conveyance.



Key Features

Compact, Low-Profile Design

- ◆ Standard tray height is less than 3.7"
- ◆ No external motor (motor is located inside the drive pulley)

Unique Configurations to Resolve Stamping Challenges

- ◆ Numerous automation and mounting arrangements are available to support a wide range of stamping applications.
- ◆ Refer to the following pages for configuration examples.

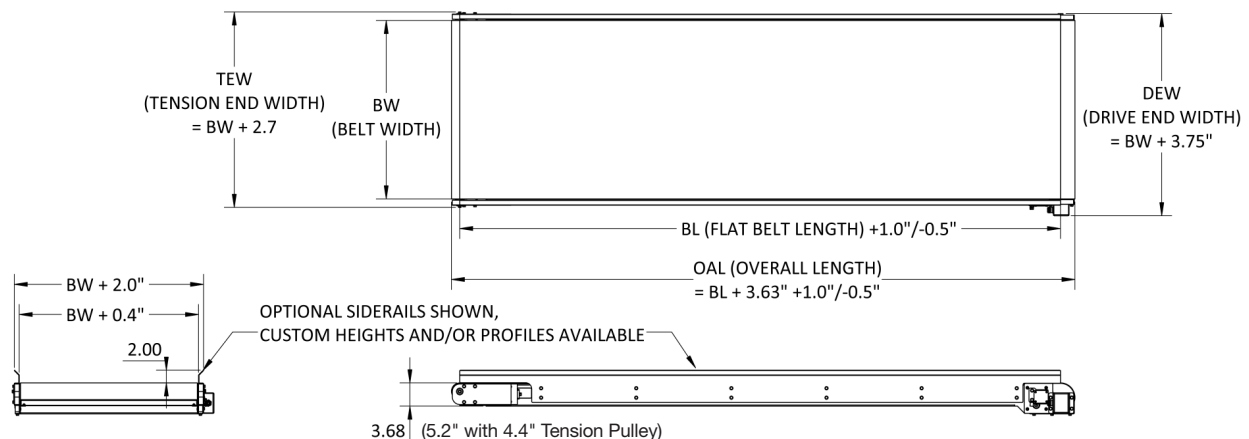
Customizable

- ◆ Conveyor length, width, capacity, and speed are made to order
- ◆ Conveyor design (frame) can be modified to meet the requirements of most applications

SPECIFICATIONS

- ◆ Standard Speed Range – 35 to 80 FPM, Alternate ranges available (Maximum available speed > 220 FPM)
- ◆ Standard Voltage – 115 V, Single Phase, 60 Hz (Options available for 240 & 480V, 3-phase, 60 Hz)
- ◆ Belt Material – 2-Ply Monofilament, Urethane Belt (Contact Pax for alternative offerings.)
- ◆ Belt Width ("B") – 12" to 72"
- ◆ Belt Length ("A") – Maximum standard length is 20' (Contact Pax for greater lengths.)

Dimensions – Standard DMC Conveyor with a 2.5" Diameter Tension Pulley



Popular Options

Side Rails

- ◆ Straight, vertical or angled configurations
- ◆ Distance between rails can be equal to the tray width or designed to extend inward to cover belt edges

Side Wipers

- ◆ Custom steel wipers help prevent scrap from getting beneath the belt
- ◆ Wipers are set to ~0.015" clearance from belt surface
- ◆ Requires the use of an endless belt option

Removable, Adjustable Parts Divider

- ◆ Maintains separation between parts from different lanes of a 2-out die
- ◆ Position is adjustable along the conveyor width
- ◆ Easily removable

Chutes

- ◆ Part exit chutes can be designed as required
- ◆ Chute diverters can direct parts to multiple dunnage areas

High-Speed Diverters

- ◆ Vertical, swing-up diverters provide a much faster response than standard horizontally pivoting diverters
- ◆ Ideal for applications that require part ejection, part sorting, or part counting

Magnetic Hold Down

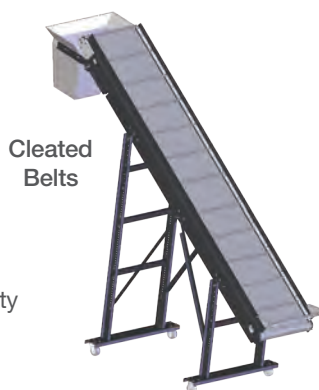
- ◆ Magnets embedded in the wear strip beneath the belt help keep moving parts secured

Cleated Belts

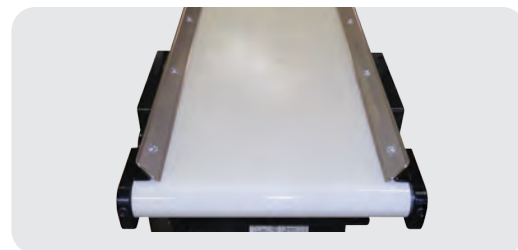
- ◆ Ideal for moving parts up steep inclines

Stopped Belt Sensor

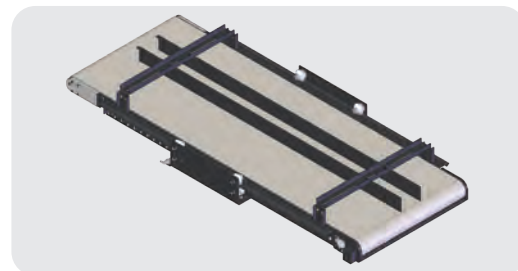
- ◆ Utilizes a 24V DC, normally open, NPN-style proximity sensor to monitor belt movement
- ◆ Includes a 3-meter, 4-pin micro DC cord set for connection to the press die protection system
- ◆ This option increases the width of the motor end
- ◆ Not available on two-pulley designs with a 4.4" diameter tension end pulley



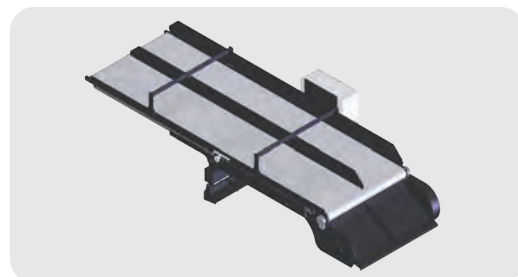
Cleated Belts



Side Wipers



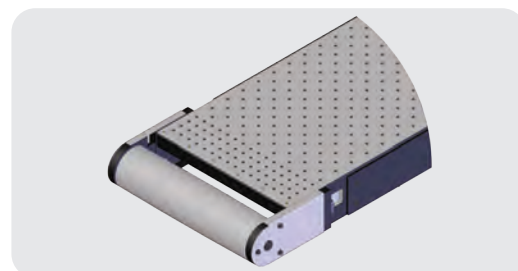
Parts Divider



Exit Chute



Conveyor with Multiple, High-Speed, Vertical Diverters



Magnetic Hold Down

Synchronous Permanent Magnet (SPM) Motorized Pulley

- ◆ Delivers higher speeds with full torque across the entire speed range
- ◆ Capability to repetitively start and stop as required
- ◆ SPM motors can be utilized with Servo Drives

DMC Conveyors

Popular Mounting Configurations

Conveyor with UHMW Support Rails

- ◆ Mounted to the bottom of the conveyor to reduce the force required to slide the conveyor across the press bolster

Conveyor with Adjustable Support Legs

- ◆ Standard, adjustable height legs and support stands are available as required

Cantilevered Conveyor Arrangement (Counterweighted Stand)

- ◆ Wheeled, counterweighted stand allows the conveyor to extend into the press without additional support.
- ◆ Height is manually adjusted using a hydraulic jack

Conveyor with Powered Horizontal Positioning, Vertical Lift, and Tilt Options

- ◆ Available with stationary or wheeled stands equipped with electromechanical actuators to enable horizontal movement, vertical lift, and tilt adjustment
- ◆ Configurations can include any combination of these functions



Conveyor with Adjustable Support Legs



Cantilevered Conveyor

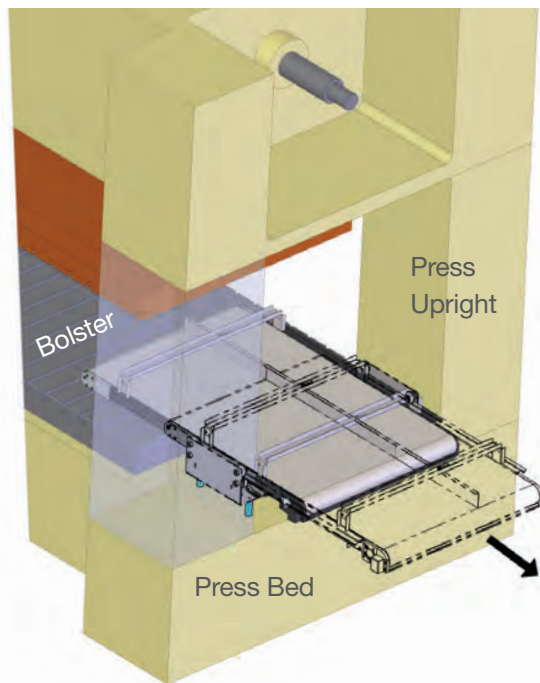


Conveyor with Horizontal Positioning and Tilt Options



Conveyor with Powered Height and Tilt Adjustment
3' wide x 14' long with 45° of tilt & 20" of height adjustment

Popular Mounting Configurations



Upright Mounted Conveyor with Horizontal Positioning

- ◆ Mounts directly within the press upright instead of using a floor stand
- ◆ Manual actuation or electromechanical actuators move the conveyor in and out of the die area as required

Custom Mounting Arrangements

- ◆ Designed to integrate with existing customer structures and supports. Options include:
 - Extruded aluminum rails mounted to conveyor sides
 - Tapped holes (clinch nuts) on conveyor sides
 - Custom brackets and supports as required
 - Telescoping Arrangements



Telescoping, Dual Conveyor Arrangements



72" wide x 121" to 170" long



Full System Integration

Additional Pax Pressroom Products

DESIGNED FOR STAMPERS BY STAMPERS

Electric Shaker Conveyors



Press Mounted Conveyors



Press Mounted Conveyors



Floor or Below Floor Conveyors

Press Doors

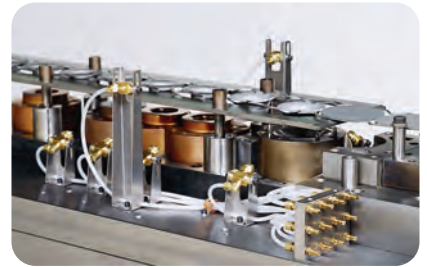


Vertically Sliding Doors

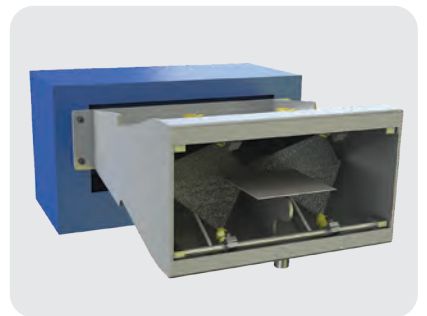


Swing-Out Acoustical Doors

Lube Systems



In-Die Spray Lubrication



Spray Cabinets



Roller Coaters



PAX PRODUCTS, INC

Pax Products Inc. delivers advanced pressroom solutions engineered for efficiency, safety, and reliability in modern metal stamping operations. From precision lubrication systems to press door safety barriers and conveyors for parts and scrap, our equipment helps manufacturers worldwide—and our sister company, Pax Machine Works—run smarter, faster, and more productively. Innovation, performance, and durability are built into every system we make.