

3100 SERIES



- 1 Stainless steel bedplate offers excellent corrosion resistance
- 2 Belt types and materials to match application requirements
- 3 Low maintenance sealed-for-life bearings in both head and tail pulleys
- 4 Steel end pulley support system for added durability
- 5 High quality powder coat enamel finish on all painted surfaces
- 6 Unique belt tracking system is simple to set up and adjust
- 7 T-slots allow for convenient mounting of pre-engineered accessories
- 8 Precision extruded aluminum frame with durable clear coat anodized finish

3100 Series Conveyor

3100 Series General Specifications:

- Flat Belt End Drives, Cleated Belt End Drives and Center Drive models
- Sealed Bearings
- Widths up to 40" (1,016)
- Lengths up to 99' (30,175)
- 3" (76) diameter head and tail pulleys
- Loads up to 700 lbs. (318 Kg)
- **CE** Models available

Industries Served:

- Manufacturing
- Rubber and Plastics
- Chemical and Allied Products
- Instrumentation
- Electronics
- Medical Equipment
- OEM's and Integrators

Applications:

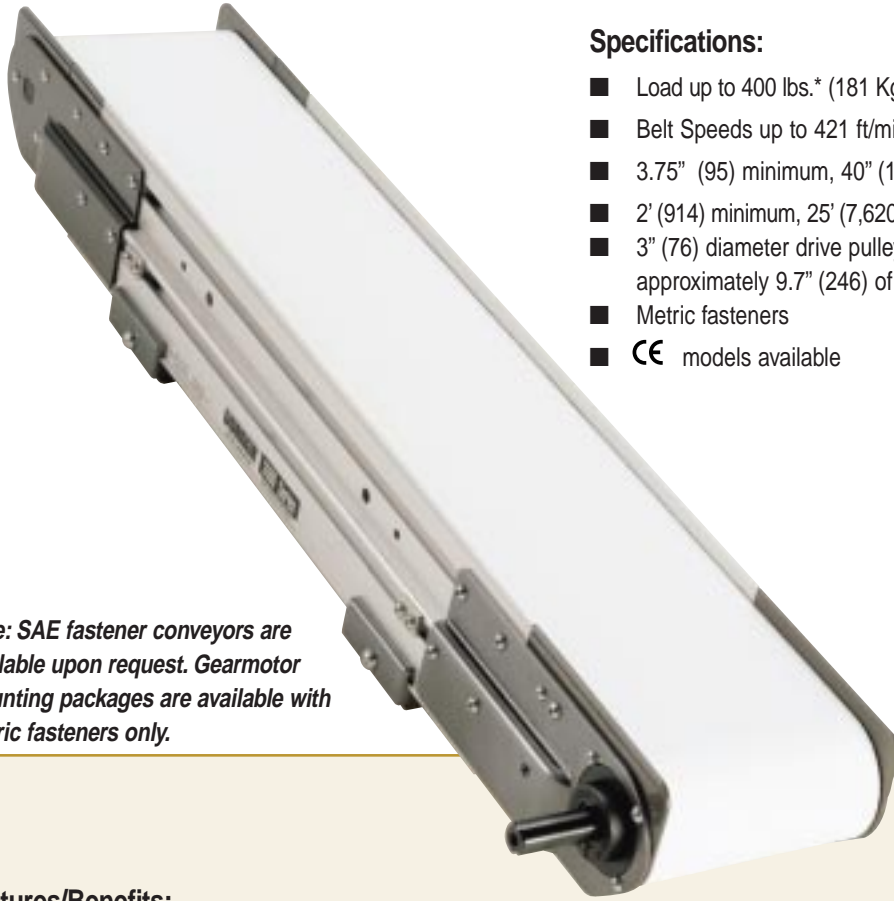
- Packaging
- Print/Labeling/Marking
- Automated and Manual Assembly
- Sortation
- Testing and Inspection
- Curing, Cooling, Heating & Cleaning

BEAT THE CLOCK



Thanks to Dorner's unique rack & pinion design, 3100 Series End Drive Conveyors help you beat the clock & reduce belt change down time to less than 5 Minutes!

3100 SERIES: *FLAT BELT END DRIVE*



Specifications:

- Load up to 400 lbs.* (181 Kg).
- Belt Speeds up to 421 ft/min. (128 M/min).
- 3.75" (95) minimum, 40" (1,016) maximum belt widths.
- 2' (914) minimum, 25' (7,620) maximum conveyor lengths.
- 3" (76) diameter drive pulley turns approximately 9.7" (246) of belt per revolution.
- Metric fasteners
- **CE** models available

Note: SAE fastener conveyors are available upon request. Gearmotor mounting packages are available with metric fasteners only.



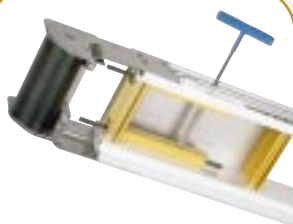
Optional Interface Tail Section
is available at non-driven end to assist in small part transfers.

Features/Benefits:

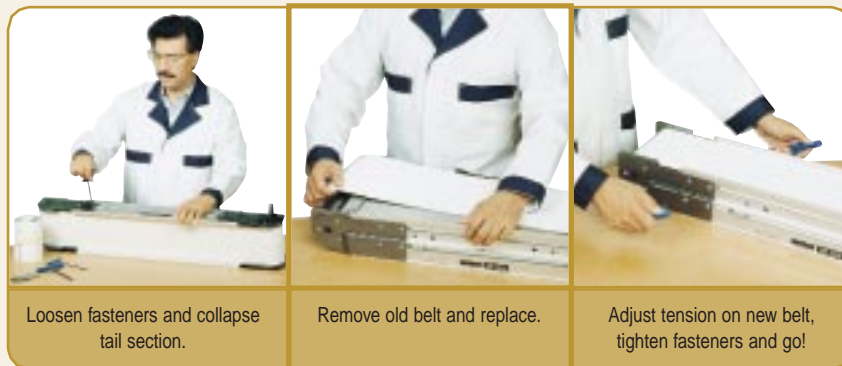
- Quick 5 minute belt change increases uptime.
- Rack and pinion design offers fast single point belt tensioning.
- Low maintenance sealed bearings.
- Adjustment cams provide precise belt tracking.
- High strength anodized aluminum alloy frame with clear coat finish.
- T-slots for easy mounting of pre-engineered accessories.

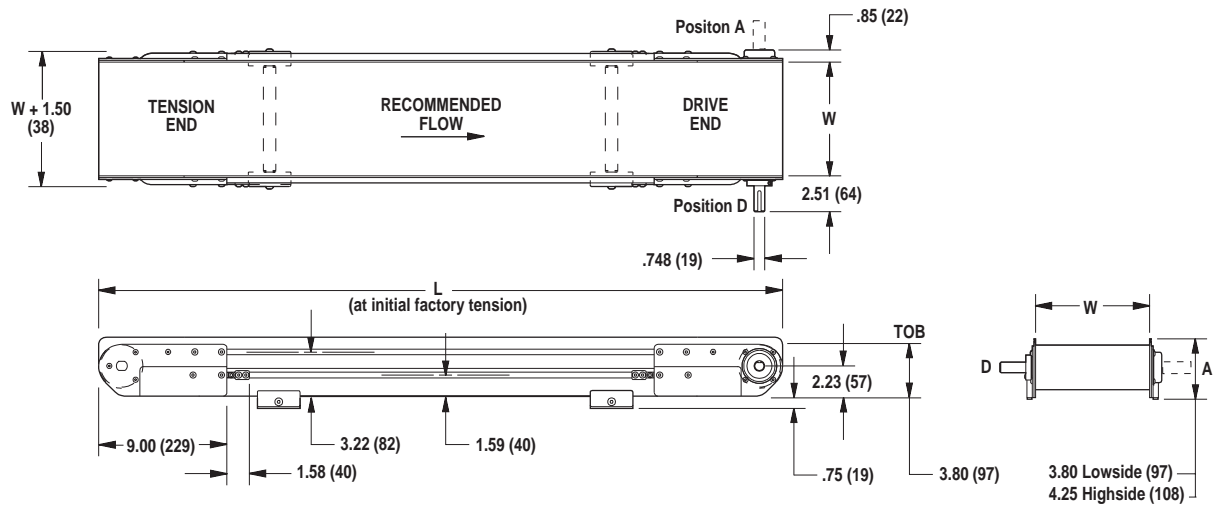
* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. See Performance Charts / Data section for details.

Change Belts in Less Than 5 Minutes!



Rack and Pinion
belt tensioning design allows the tail section to be easily slid back for quick belt removal.





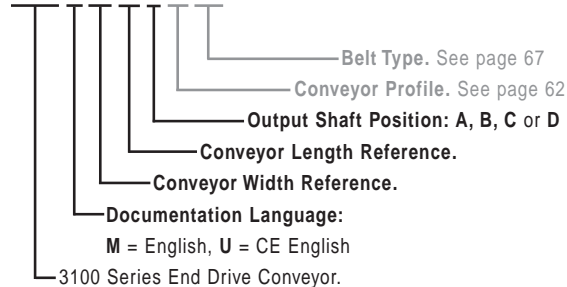
W = Conveyor Belt Width

STANDARD SIZES

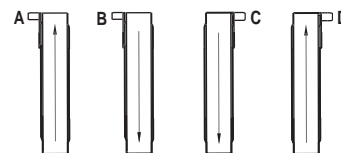
Conveyor Width Reference	04	06	08	10	12	18	24	30	36	40													
Conveyor Belt Width (W)	3.75" (95)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	24" (610)	30" (762)	36" (914)	40" (1,016)													
Conveyor Length Reference	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Conveyor Length (L)	3' (914)	4' (1,219)	5' (1,524)	6' (1,829)	7' (2,134)	8' (2,438)	9' (2,743)	10' (3,048)	11' (3,353)	12' (3,658)	13' (3,962)	14' (4,267)	15' (4,572)	16' (4,877)	17' (5,182)	18' (5,486)	19' (5,791)	20' (6,096)	21' (6,401)	22' (6,706)	23' (7,010)	24' (7,315)	25' (7,620)

ORDERING INFORMATION

3100 M 12 18 A 02 /02



Output Shaft Positions



Since belts are being pulled, positions A & D are preferred. Pushing belts (B & C) reduce conveyor load capacity by approximately 66%.

Example: 3100M1218A02/02

Description: 3100 End Drive Conveyor, 12" (305) wide x 18' (5,486) long with output shaft in position A, high side profile, general purpose belt and English documentation.

Note: Dimensions are represented in inches, feet, and (millimeters).

Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.

3100 SERIES: *FLAT BELT VERTICAL CENTER DRIVE*



Specifications:

- Loads up to 400 lbs.* (181).
- Belt Speeds up to 351 ft/min. (107 M/min).
- 3.75" (95) minimum, 40" (1,016) maximum belt widths.
- 4' (1,219) minimum, 50' (15,240) maximum conveyor lengths.
- 3" (76) diameter drive pulley turns approximately 9.7" (246) of belt per revolution.
- Metric fasteners.
- **CE** models available.
- Reversing vertical center drive belt direction reduces load capacity by 66%.



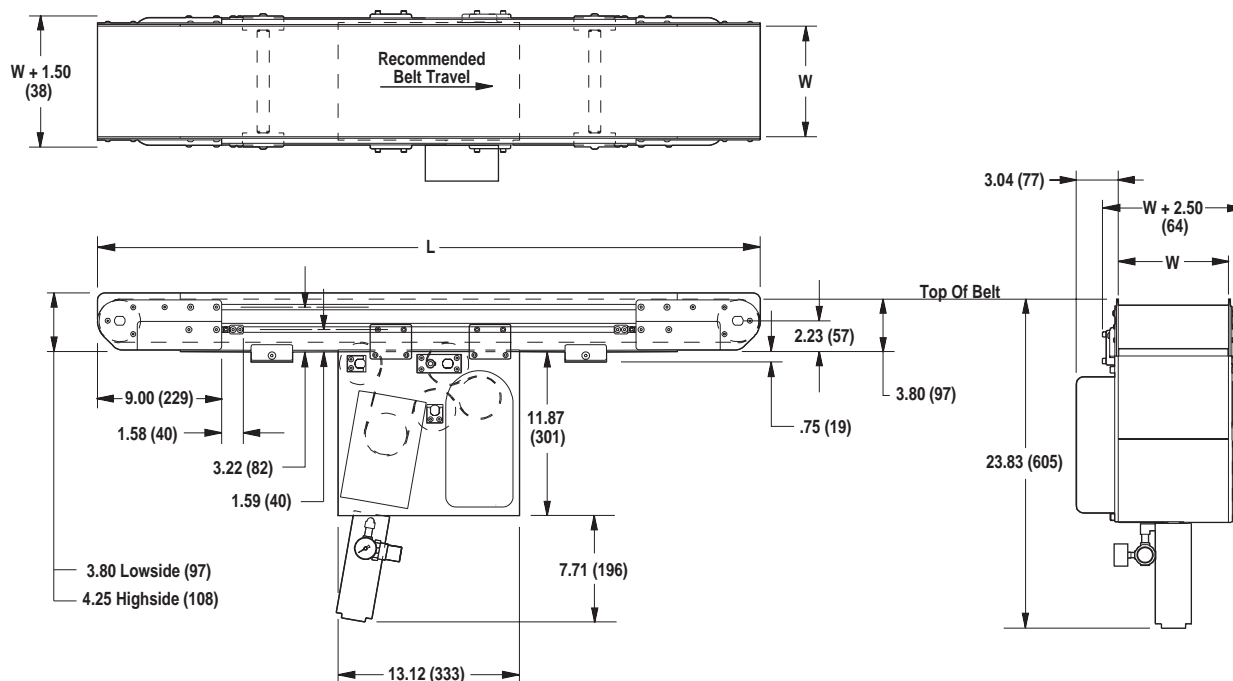
Optional Interface Tail Sections

is available at non-driven ends to assist in small part transfers.

Features/Benefits:

- Center Drive models free up conveyor ends for machine or operator interface.
- The Center Drive Module can be easily repositioned along conveyor length.
- Low maintenance sealed bearings.
- Pneumatic belt tensioner maintains uniform belt tension.
- High strength anodized aluminum alloy frame with clear coat finish.
- T-slots for easy mounting of pre-engineered accessories.
- Belt types and materials to match application requirements.
- Adjustment cams provide precise belt tracking.

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. See Performance Charts / Data section for details.



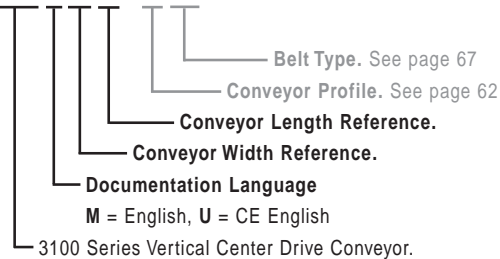
W = Conveyor Belt Width

STANDARD SIZES

Conveyor Width Reference	04	06	08	10	12	18	24	30	36	40
Conveyor Belt Width (W)	3.75" (95)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	24" (610)	30" (762)	36" (914)	40" (1,016)
Conveyor Length Reference	04 - 50 In 1' (305) increments									
Conveyor Length (L)	4' (1,219) Up to ... 50' (15,240)									

ORDERING INFORMATION

3110 M 12 18 - 02 /02



Example: 3110M1218-02/02

Description: 3100 Series Vertical Center Drive Conveyor, 12" (305) wide x 18' (5,486) long, high side profile, general purpose belt and English documentation.

Note: Dimensions are represented in inches, feet, and (millimeters).

Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.

3100 SERIES: *FLAT BELT HORIZONTAL CENTER DRIVE*

Specifications:

- Loads up to 700 lbs.* (318 Kg.)
- Belt Speeds up to 412 ft/min. (126 M/min).
- 6" (152) minimum, 40" (1,016) maximum belt widths.
- 6' (1,829) minimum, 99' (30,175) maximum conveyor length.
- 3" (76) diameter drive pulley turns approximately 9.7" (246) of belt per revolution.
- Metric fasteners
- **CE** models available



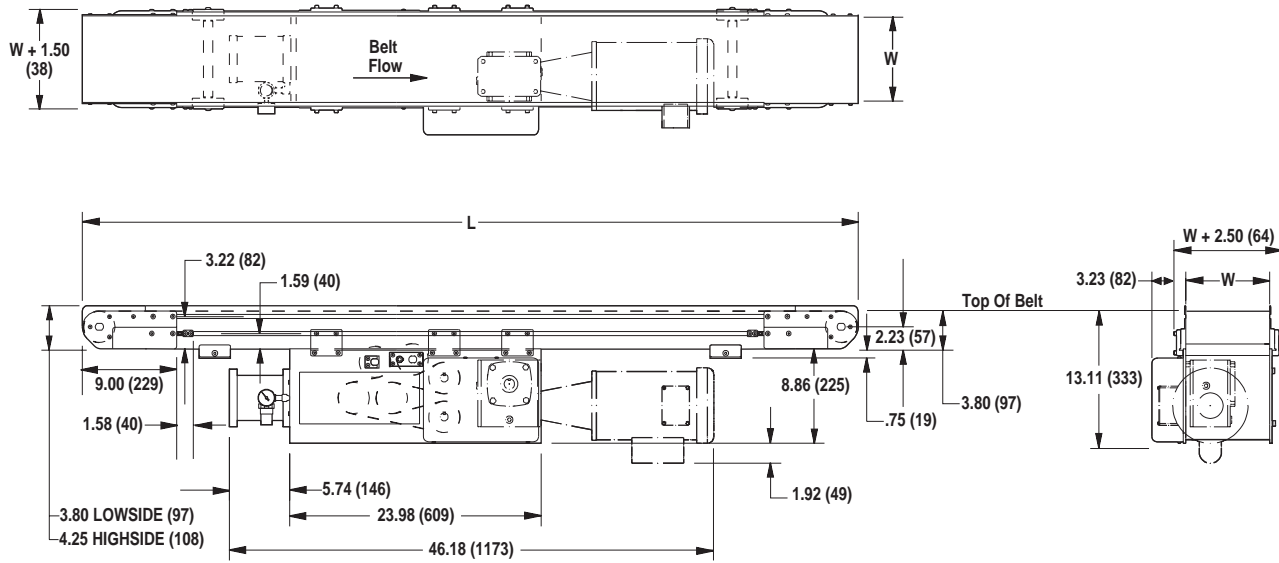
Optional Interface Tail Sections are available at both ends to assist in small part transfers.

Note: Horizontal Center Drives are not reversible

Features/Benefits:

- Center Drive models free up conveyor ends for machine or operator interface.
- The Center Drive Module can be easily repositioned.
- Low maintenance sealed bearings.
- Pneumatic belt tensioner maintains uniform belt tension.
- High strength anodized aluminum alloy frame with clear coat finish.
- T-slots for easy mounting of pre-engineered accessories.
- Belt types and material to match application requirements.
- Adjustment cams provide precise belt tracking.

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors
See Performance Charts / Data section for details..



W = Conveyor Belt Width

STANDARD SIZES

Conveyor Width Reference	06	08	10	12	18	24	30	36	40
Conveyor Belt Width (W)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	24" (610)	30" (762)	36" (914)	40" (1,016)
Conveyor Length Reference	06 - 99 In 1' (305) increments								
Conveyor Length (L)	6' (1,829)		Up to ...				6' (30,173)		

ORDERING INFORMATION

3130 M 12 18 - 02 /02

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3130 M 12 18 - 02 /02

Belt Type. See page 67

Conveyor Profile. See page 62

Conveyor Length Reference.

Conveyor Width Reference.

Documentation Language

M = English, U = CE English

3100 Series Horizontal Center Drive Conveyor.

Example: 3130M1218-02/02**Description:** 3100 Series Horizontal Center Drive Conveyor, 12" (305) wide x 18' (5,486) long, high side profile, general purpose belt and English documentation.

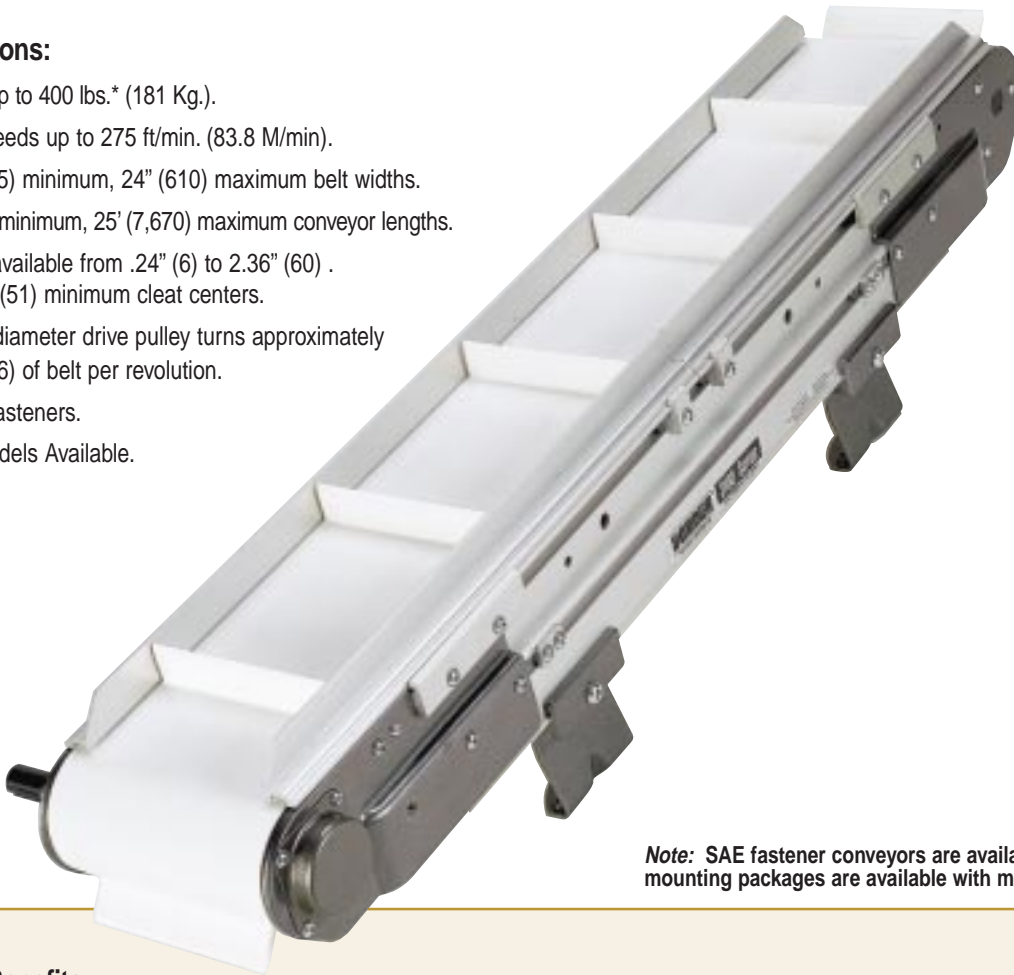
Note: Dimensions are represented in inches, feet, and (millimeters).

Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.

3100 SERIES: *CLEATED BELT END DRIVE*

Specifications:

- Loads up to 400 lbs.* (181 Kg.).
- Belt Speeds up to 275 ft/min. (83.8 M/min).
- 3.75" (95) minimum, 24" (610) maximum belt widths.
- 3' (915) minimum, 25' (7,670) maximum conveyor lengths.
- Cleats available from .24" (6) to 2.36" (60) . high. 2" (51) minimum cleat centers.
- 3" (76) diameter drive pulley turns approximately 9.7" (246) of belt per revolution.
- Metric fasteners.
- **CE** Models Available.



Note: SAE fastener conveyors are available upon request. Gearmotor mounting packages are available with metric fasteners only.

Features/Benefits:

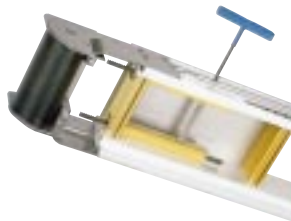
- Quick 5 minute belt change increases uptime.
- End Drive models with rack and pinion design offers fast single point belt tensioning.
- Adjustment cams provide precise belt tracking.
- High strength anodized aluminum alloy frame with clear coat finish.
- T-slots for easy mounting of pre-engineered accessories.
- Low maintenance sealed bearings.

* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors. See Performance Charts / Data section for details.



Sidewall Cleated Belts
are used for small
part handling.

Change Belts in Less Than 5 Minutes!



Rack and Pinion
belt tensioning design allows
the tail section to be easily slid
back for quick belt removal.



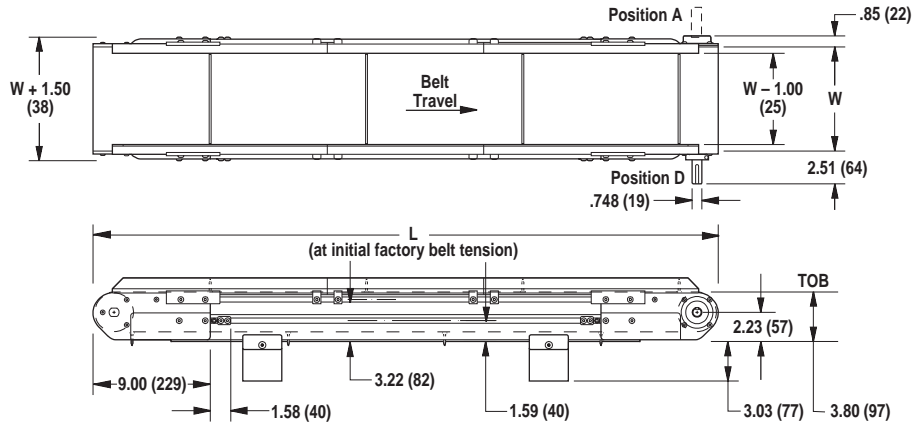
Loosen fasteners and collapse
tail section.



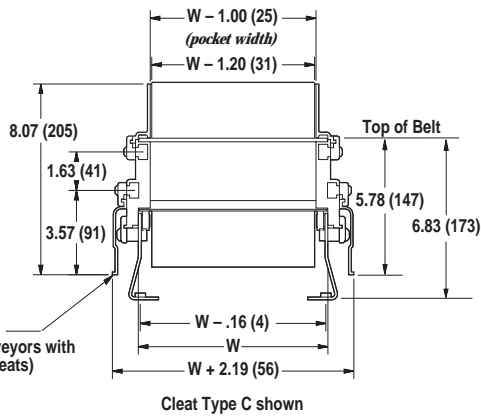
Remove old belt and replace.



Adjust tension on new belt,
tighten fasteners and go!

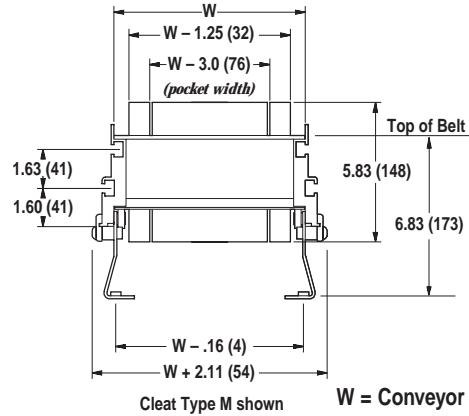


Standard Cleated Belt



Return Belt Skirts
(Included on Conveyors with
Type B, C, I & J Cleats)

Sidewall Cleated Belt
(available 6" (152) and wider)



W = Conveyor Belt Width

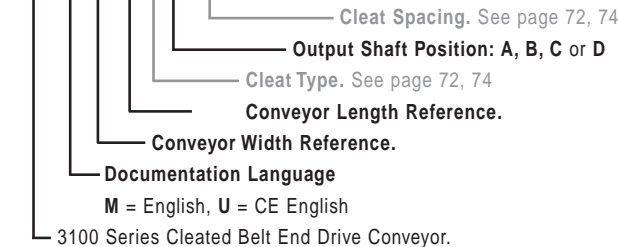
STANDARD SIZES

Conveyor Width Reference	04	06	08	10	12	18*	24*																
Conveyor Belt Width (W)	3.75" (95)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	24" (610)																
Conveyor Length Reference	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Conveyor Length (L)	3' (914)	4' (1,219)	5' (1,524)	6' (1,829)	7' (2,134)	8' (2,438)	9' (2,743)	10' (3,048)	11' (3,353)	12' (3,658)	13' (3,962)	14' (4,267)	15' (4,572)	16' (4,877)	17' (5,182)	18' (5,486)	19' (5,791)	20' (6,096)	21' (6,401)	22' (6,706)	23' (7,010)	24' (7,315)	25' (7,620)

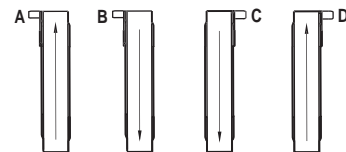
* 12' (3,658) maximum conveyor length due to belt weight

ORDERING INFORMATION

3140 M 12 18 C A 1209



Output Shaft Positions



Since belts are being pulled, positions A & D are preferred. Pushing belts (B & C) reduce conveyor load capacity by approximately 66%.

Example: 3140M1218CA1209

Description: 3100 Series Cleated Belt End Drive Conveyor, 12" (305) wide x 18' (5,486) long with output shaft in position A, type C cleats on 12.09" (307) centers and English documentation.

Note: Dimensions are represented in inches, feet, and (millimeters).

Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.