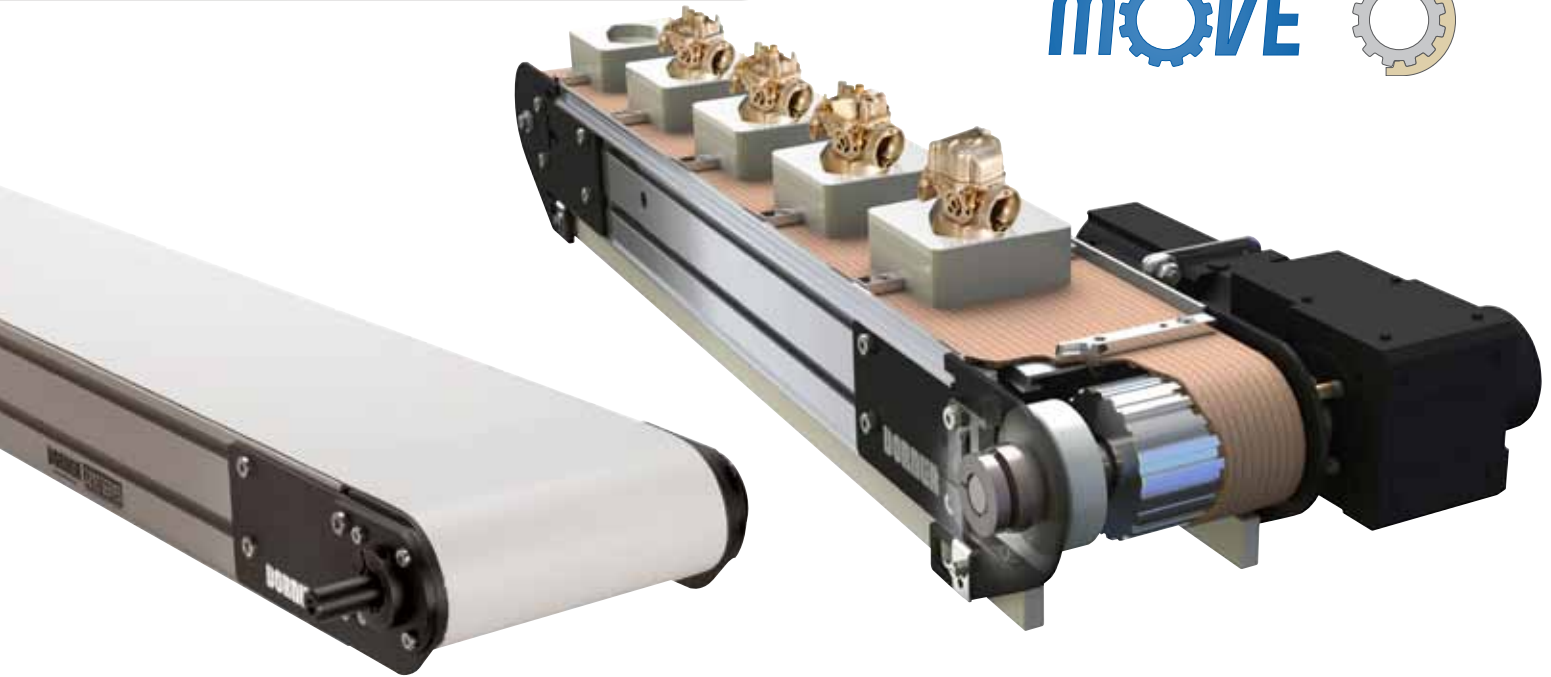
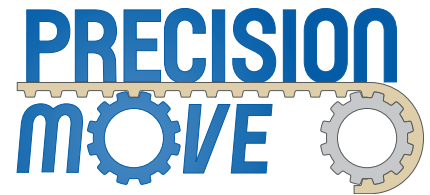


# 3200 SERIES

HEAVY DUTY BELT CONVEYORS  
EXTRUDED ALUMINUM



## General Specifications:

- iDrive, Flat Belt End Drive, Cleated Belt End Drive, and Center Drive models
- Precision Move Flat, Fixtured and Cleated Belt End Drive models
- Z-Frame Flat Belt End Drive, Flat Belt Center Drive, Cleated Belt End Drive, and Sidewall Cleated Belt End Drive models
- 3" (76 mm) diameter head and tail pulleys
- Widths: 3.75" (95 mm) to 48" (1,219 mm)
- Lengths: 3' (914 mm) to 99' (30,175 mm)
- Loads up to 1,000 lbs (455 kg)
- Sealed Bearings
- CE models available

## Applications:

- Part Transfers
- Part Accumulation
- Precision Part Movement
- Part Incline / Decline Routing (Z-Frame)
- Part Handling and Positioning
- Automated and Manual Assembly



**V-Guided  
Belt Tracking**



**Wide  
Widths**



**Rack and Pinion  
Belt Tensioning**



**Adjustable  
Angles**

3200 SERIES	3200 iDRIVE	84
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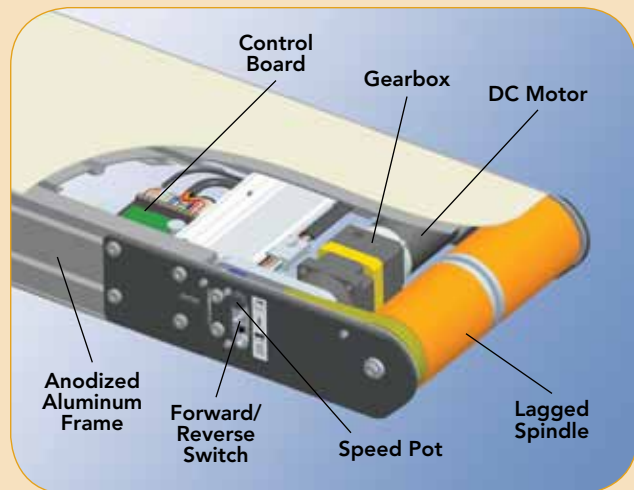


## Specifications:

- Belt Widths: 6" (152 mm) to 24" (610 mm)
- Conveyor Lengths: 3' (914 mm) to 12' (3,658 mm)
- Belt Speeds: Variable Speed, (3) Speed Options
  - 15 to 80 ft/min (4.6 to 24.4 m/min)
  - 21 to 133 ft/min (6.4 to 40.5 m/min)
  - 27 to 171 ft/min (8.2 to 52.1 m/min)
- Conveyor Load Capacity (non-accumulated, distributed load):
  - 15 to 80 ft/min – Up to 120 lbs (54.4 kg)
  - 21 to 133 ft/min – Up to 69 lbs (31.3 kg)
  - 27 to 171 ft/min – Up to 52 lbs (23.6 kg)
- Indexing Capable: Up to 30 indexes per minute
- Duty Cycle: Continuous rated
- Adjustable acceleration and deceleration parameters
- iDrive Control Models:
  - Integrated Forward/ Off / Reverse Switch, Variable Speed Pot, and 115V 1 Ph Input Power Supply
  - Integrated Forward/ Off / Reverse Switch, and Variable Speed Pot (DC power supply by others)
  - Flying leads for remote speed and direction (DC power supply by others)

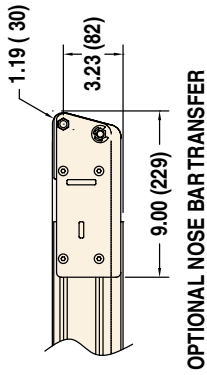
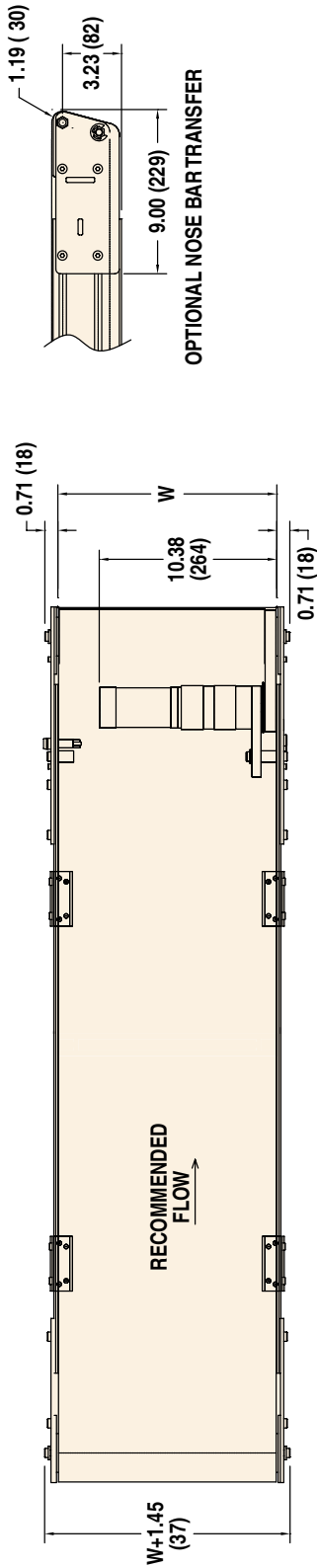
## Features & Benefits:

- Internally mounted gearmotor and control for space savings and tight work spaces
- Reduced integration time required to mount and wire the total conveyor package
- Ideal combination of conveyor and gearmotor sizing for small parts handling
- Indexing, variable speed and reversing for maximum application flexibility
- Control switches integrated into the conveyor
- V-guided belts for maintenance free belt tracking
- Maintenance free sealed bearings
- Grease filled sealed for life planetary gear boxes
- Maintenance free brushless DC Motor

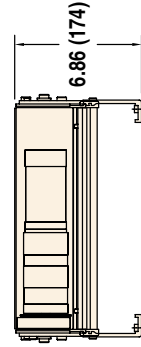
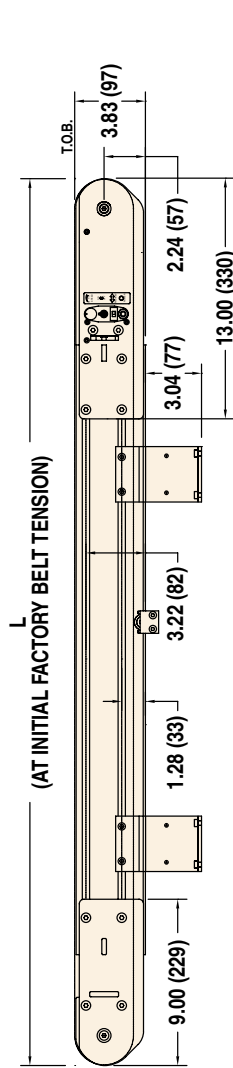
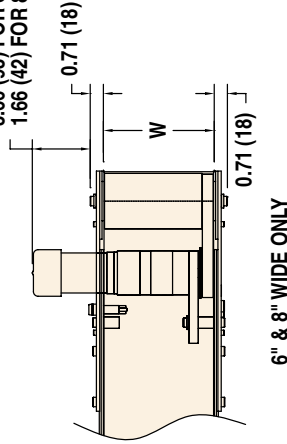


*For support stands and accessories, see pages 128-138.*

**For ordering information, see page 139**



3.66 (93) FOR 6" WIDE CONVEYOR  
1.66 (42) FOR 8" WIDE CONVEYOR

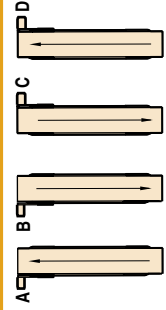


W = Conveyor Belt Width Dim = in (mm)

**STANDARD SIZES**

<b>Conveyor Width Reference</b>	06	08	10	02 increments up to ...	24
<b>Conveyor Belt Width (W)</b>	6" (152mm)	8" (203mm)	10" (254mm)	2" (51mm) increments up to ...	24" (610mm)
<b>Conveyor Length Reference</b>	0300	0001 increments up to ...		1200	
<b>Conveyor Length (L)</b>	3' (914mm)	0.12" (3mm) increments up to ...		12' (3,660mm)	

**Drive Shaft Position**



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

# 3200 SERIES: FLAT BELT END DRIVE



## Specifications:

- Loads up to 400 lbs\* (181 kg)
- Belt speeds up to 600 ft/min (183 m/min)
- Belt widths: 3.75" (95 mm) to 48" (1,219 mm)
- Conveyor lengths: 3' (914 mm) to 40' (12,192 mm)
- 1.62" (41 mm) of belt take-up on conveyors up to 20' long
- 3.24" (82 mm) of belt take-up on conveyors over 20' long
- 3" (76mm) diameter drive pulley turns approximately 9.7" (246 mm) of belt per revolution
- **CE** models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Quick five-minute belt change
- Rack and pinion belt tensioning for fast, accurate single point belt tensioning
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications
- Belt take-up indicator allows for quick reading of remaining belt life
- Strong, box-like construction resists damaging frame twist
- Stand mounting brackets and return belt rollers are easily re-positioned along the frame
- Two T-Slots on each side for easy mounting of pre-engineered accessories



**OPTIONAL:  
Nose Bar Tail**

Includes sealed bearings, 1" (25 mm) diameter rollers and is available at both ends for small part transfers.



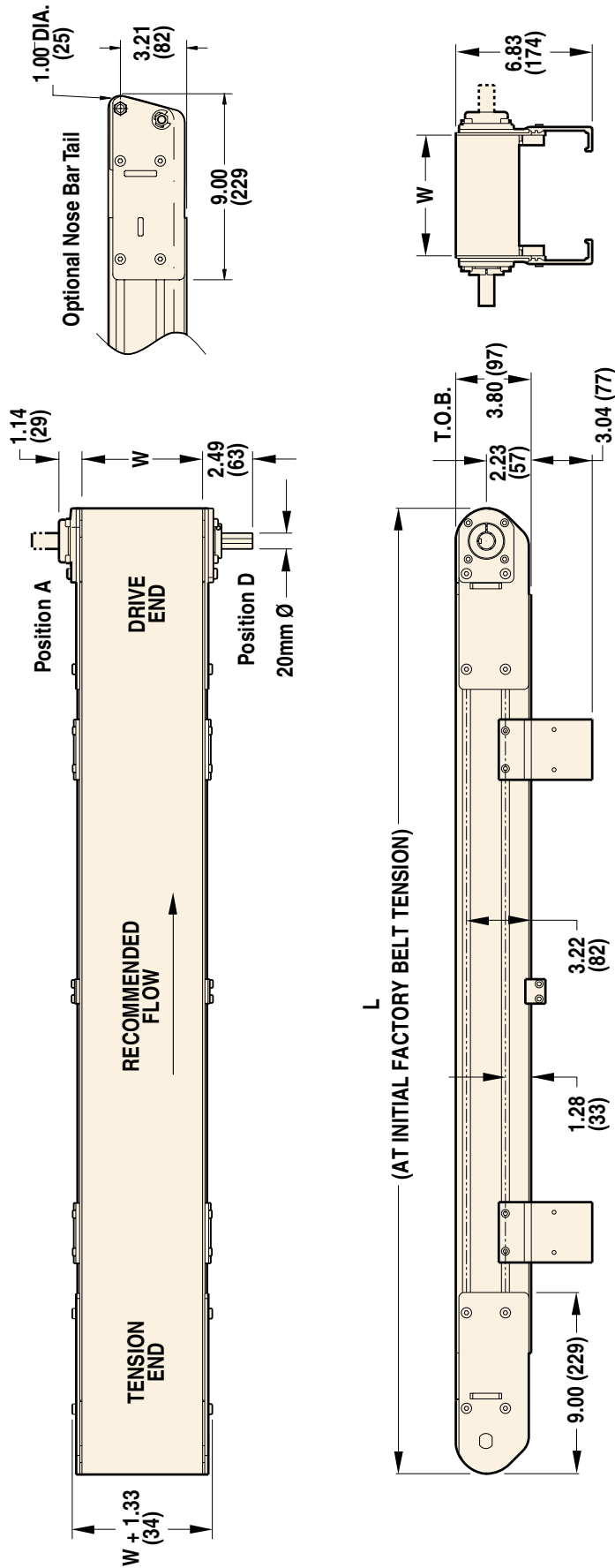
**STANDARD FEATURE:  
Rack and Pinion**

Allows the tail section to be easily slid back for quick belt removal.

*Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.*

**For ordering information, see page 139**

**3200 SERIES: FLAT BELT END DRIVE**

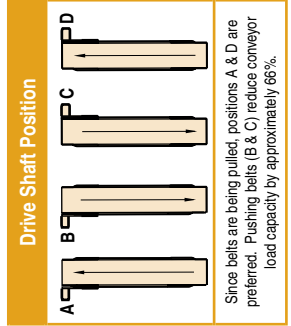


W = Conveyor Belt Width Dim = in (mm)

STANDARD SIZES			
<b>Conveyor Width Reference</b>	04	06	48
<b>Conveyor Belt Width (W)</b>	3.75" (95mm)	6" (152mm)	48" (1,219mm)
<b>Conveyor Length Reference</b>	0300		4000
<b>Conveyor Length (L)</b>	3' (914mm)		40' (12,192mm)

NOTE: Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.

NOTE: Conveyors wider than 40" require v-guide belt tracking.



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

# 3200 SERIES: FLAT BELT CENTER DRIVE



## Specifications:

- Loads up to 1,000 lbs\* (455 kg)
- Belt Speeds up to 600 ft/min (183 m/min)
- Belt widths: 3.75" (95 mm) to 48" (1,219 mm)
- Conveyor lengths: 4' (1,219 mm) to 99' (30,175 mm)
- 16" (406 mm) of belt take-up
- 6" (152 mm) diameter drive pulley turns approximately 18.8" (479 mm) of belt per revolution
- **CE** models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Quick five-minute belt change
- Center Drive Module frees up both ends of conveyor for operator and machine interface
- The Center Drive Module can be easily repositioned along the length of the conveyor
- Maintenance free pneumatic belt tensioner maintains uniform belt tension (Manual spring tension available)
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications
- Non V-guided belts use our patented belt tracking cams, offering you the widest belt selection possible
- Strong, box-like construction resists damaging frame twists
- 16" of belt take-up extends conveyor belt life
- Stand mounting brackets and return belt rollers are easily re-positioned along the frame
- Special length conveyors in 0.12" (3 mm) increments at standard price and delivery
- Two T-Slots on each side for easy mounting of pre-engineered accessories



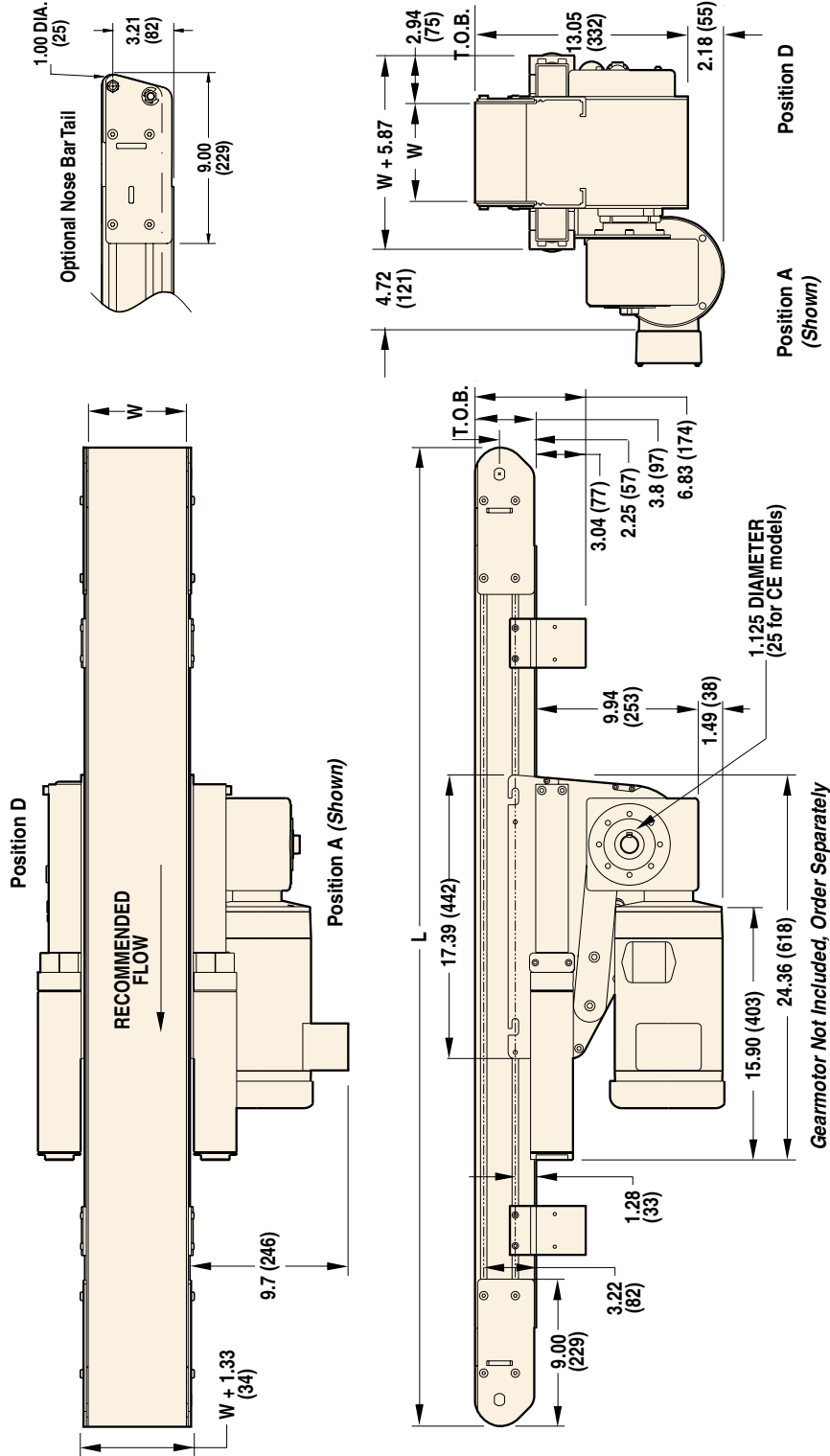
**OPTIONAL:  
Nose Bar Tail**

Includes sealed bearings, 1" (25 mm) diameter rollers and is available at both ends for small part transfers.

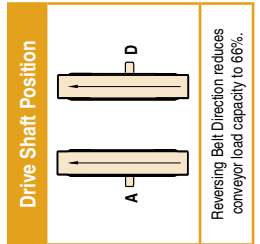
*Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.*

**For ordering information, see page 139**

**3200 SERIES: FLAT BELT CENTER DRIVE**



W = Conveyor Belt Width Dim = in (mm)



STANDARD SIZES			
Conveyor Width Reference	04 06	02 increments up to...	48
Conveyor Belt Width (W)	3.75" (95mm)	6" (152mm) increments up to...	48" (1,219mm)
Conveyor Length Reference	0400	0001 increments up to...	9900
Conveyor Length (L)	4' (1,219mm)	0.12" (3mm) increments up to...	99' (30,175mm)

NOTE: Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.  
NOTE: Conveyors wider than 40" require v-guide belt tracking.

For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.  
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



# 3200 SERIES: CLEATED BELT END DRIVE



## Specifications:

- Loads up to 400 lbs\* (181 kg)
- Belt speeds up to 600 ft/min (183 m/min)
- Belt widths: 3.75" (95 mm) to 24" (610 mm)
- Conveyor lengths: 3' (914 mm) to 40' (12,192 mm)
- Cleats available from 0.24" (6 mm) to 2.36" (60 mm) high
- 2" (51 mm) minimum cleat spacing
- 1.62" (41 mm) of belt take-up on conveyors up to 20' long
- 3.24" (82 mm) of belt take-up on conveyors over 20' long
- 3" (76 mm) diameter drive pulley turns approximately 9.7" (246 mm) of belt per revolution
- **CE** models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Quick five-minute belt change
- Rack and pinion belt tensioning for fast, accurate single point belt tensioning
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications
- V-guided belts eliminate belt tracking
- Strong, box-like construction resists damaging frame twist
- Stand mounting brackets and return belt rollers are easily re-positioned along the frame
- Special length conveyors in 0.12" (3 mm) increments at standard price and delivery
- Two T-Slots on each side for easy mounting of pre-engineered accessories



**OPTIONAL:**  
Sidewall Cleated Belt

Used for small part handling. Available in 6" (152 mm) and wider belt widths.

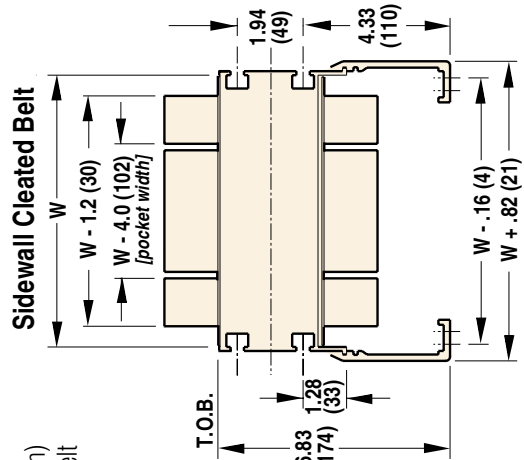
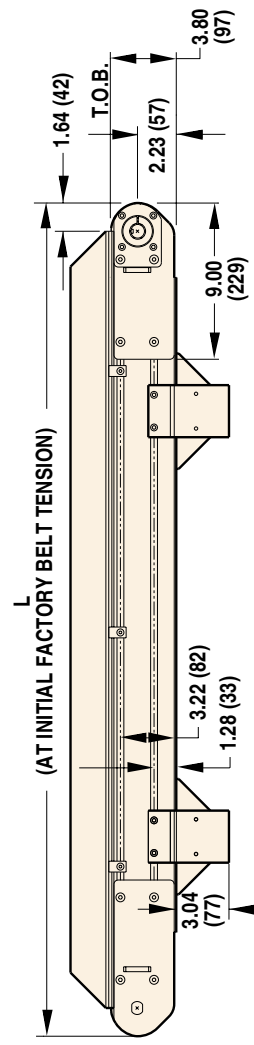
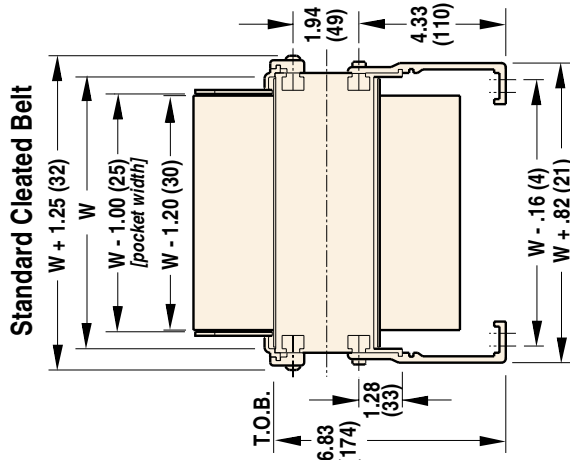
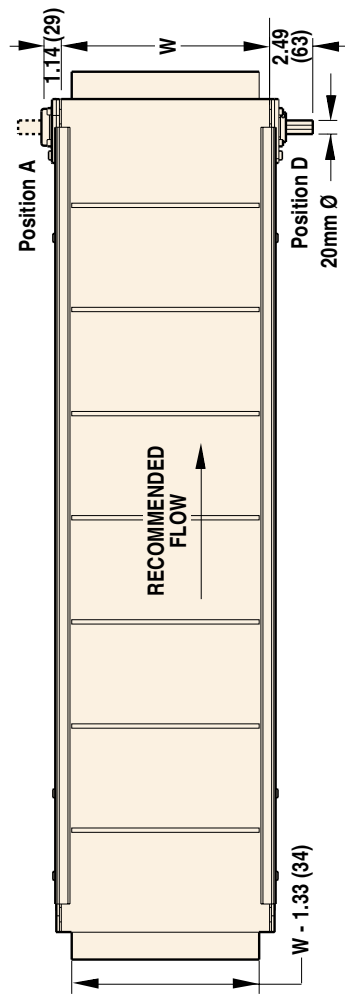


**STANDARD FEATURE:**  
Rack and Pinion

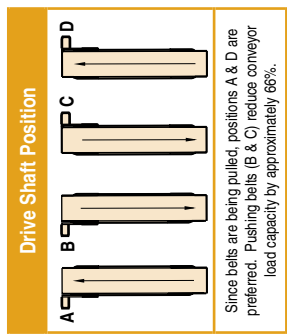
Allows the tail section to be easily slid back for quick belt removal.

Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.

**For ordering information, see page 140**



**W** = Conveyor Belt Width **Dim** = in (mm)  
**Note:** 6" min width for Sidewall Cleated Belt



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

STANDARD SIZES			
Conveyor Width Reference	04 06	02 increments up to...	24
Conveyor Belt Width (W)	3.75" (95mm)	6" (152mm) increments up to...	24" (1,219mm)
Conveyor Length Reference	0300	0001 increments up to...	4000
Conveyor Length (L)	3' (914mm)	0.12" (3mm) increments up to...	40' (6,102mm)

**NOTE:** Conveyor longer than 12' (3,658mm) will be constructed using a multiple piece frame. Consult factory for locations.

# 3200 SERIES: Z-FRAME FLAT BELT END DRIVE



## Specifications:

- Loads up to 400 lbs\* (181 kg)
- Belt speeds to 600 ft/min (183 m/min)
- Belt widths: 3.75" (95 mm) to 48" (1,219 mm)
- Conveyor lengths: 4' (1,219 mm) to 40' (12,192 mm)
- Adjustable angle, 0° to 35°
- 1.62" (41 mm) of belt take-up on conveyors up to 20' long
- 3.24" (82 mm) of belt take-up on conveyors over 20' long
- 3" (76 mm) diameter drive pulley turns approximately 9.7" (246 mm) of belt per revolution
- CE models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Nose-over and walk-thru configurations
- Quick five-minute belt change
- Adjustable angle frames conform to applications
- Rack and pinion belt tensioning for fast, accurate single point belt tensioning
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications
- Strong, box-like construction resists damaging frame twist
- Stand mounting brackets and return belt rollers are easily re-positioned along the frame
- Two T-Slots on each side for easy mounting of pre-engineered accessories



**OPTIONAL:  
Nose Bar Tail**

Includes sealed bearings, 1" (25 mm) diameter rollers and is available at both ends for small part transfers.

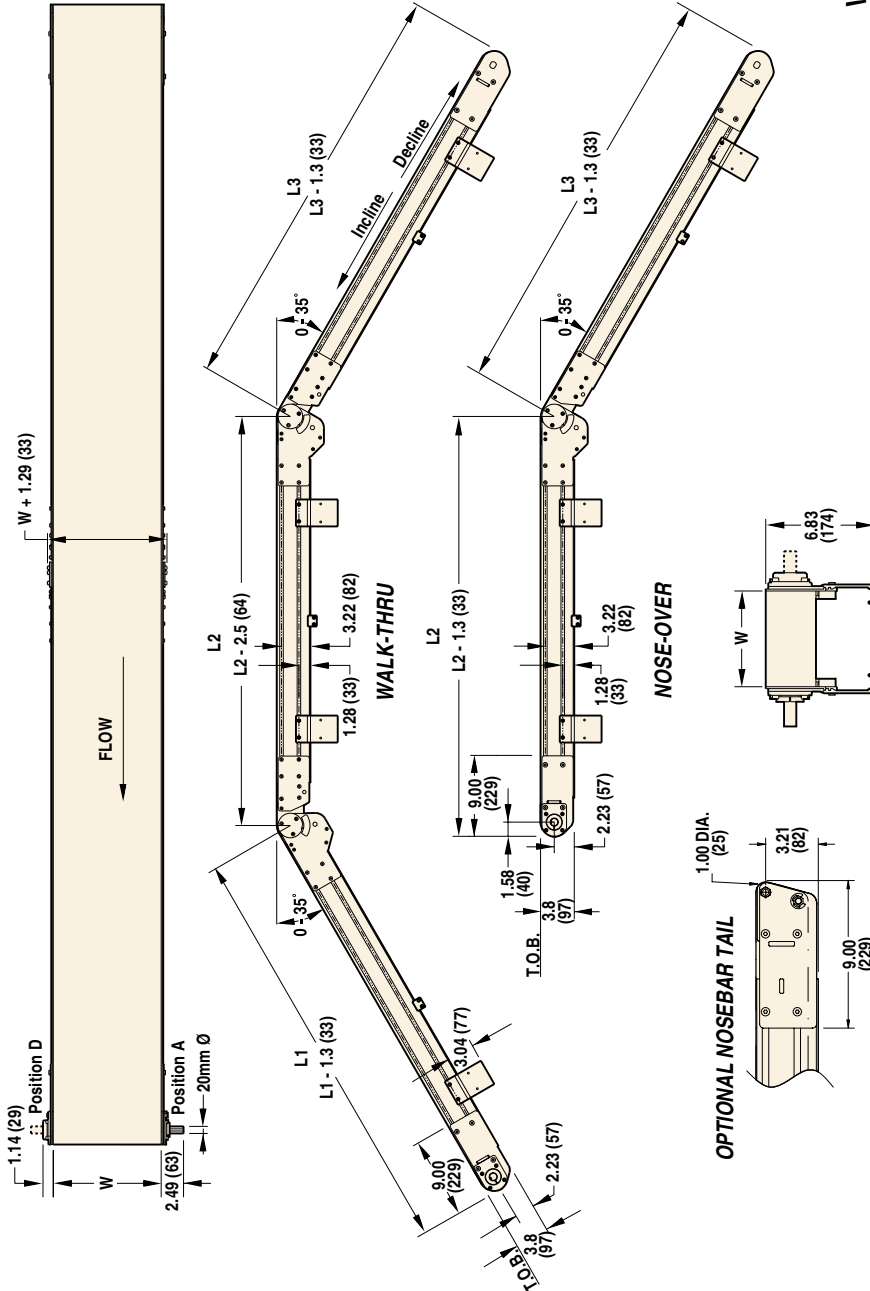


**STANDARD FEATURE:  
Adjustable Angles**

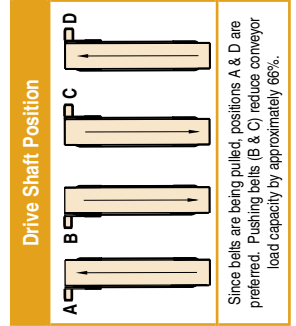
*Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.*

**For ordering information, see page 140**

**3200 SERIES: Z-FRAME FLAT BELT END DRIVE**



**W** = Conveyor Belt Width **Dim** = in (mm)  
**Note:** Belt Direction is not reversible



STANDARD SIZES			
Conveyor Width Reference	04	06	02 increments up to... 48
Conveyor Belt Width (W)	3.75" (95mm)	6" (152mm)	2" (51mm) increments up to... 48" (1,219mm)
Conveyor Length Reference	0200	2' (610mm)	0001 increments up to... 3800
Conveyor Length (L)			0.12" (3mm) increments up to... 38' (11,582mm)
<b>L1 + L2 + L3 = Maximum 40' (12,192mm) long conveyor</b>			

**NOTE:** Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.  
**NOTE:** Conveyors wider than 40" require v-guide belt tracking.

For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.  
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

# 3200 SERIES: Z-FRAME FLAT BELT CENTER DRIVE



## Specifications:

- Loads up to 1,000 lbs\* (455 kg)
- Belt speeds to 600 ft/min (183 m/min)
- Belt widths: 3.75" (95 mm) to 48" (1,219 mm)
- Conveyor lengths: 6' (1,829 mm) to 99' (30,175 mm)
- Adjustable angle, 0° to 35°
- Drive module requires a 4' (1,219 mm) minimum section
- 6" (152 mm) diameter drive pulley turns approximately 18.8" (479 mm) of belt per revolution
- Belt direction is not reversible
- CE models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Nose-over and walk-thru configurations
- Low maintenance sealed bearings
- Center drives free up ends for machine and operator interface
- Center drive module can be easily repositioned along section length
- High strength anodized aluminum frame with clear coat finish
- Two T-Slots on each side for easy mounting of pre-engineered accessories
- Belt types and materials to match application requirements
- Adjustable angle frames conform to applications
- Adjustment cams provide precise belt tracking for non V-guided belts
- Pneumatic belt tensioner maintains uniform belt tension



**OPTIONAL:  
Nose Bar Tail**

Includes sealed bearings, 1" (25 mm) diameter rollers and is available at both ends for small part transfers.

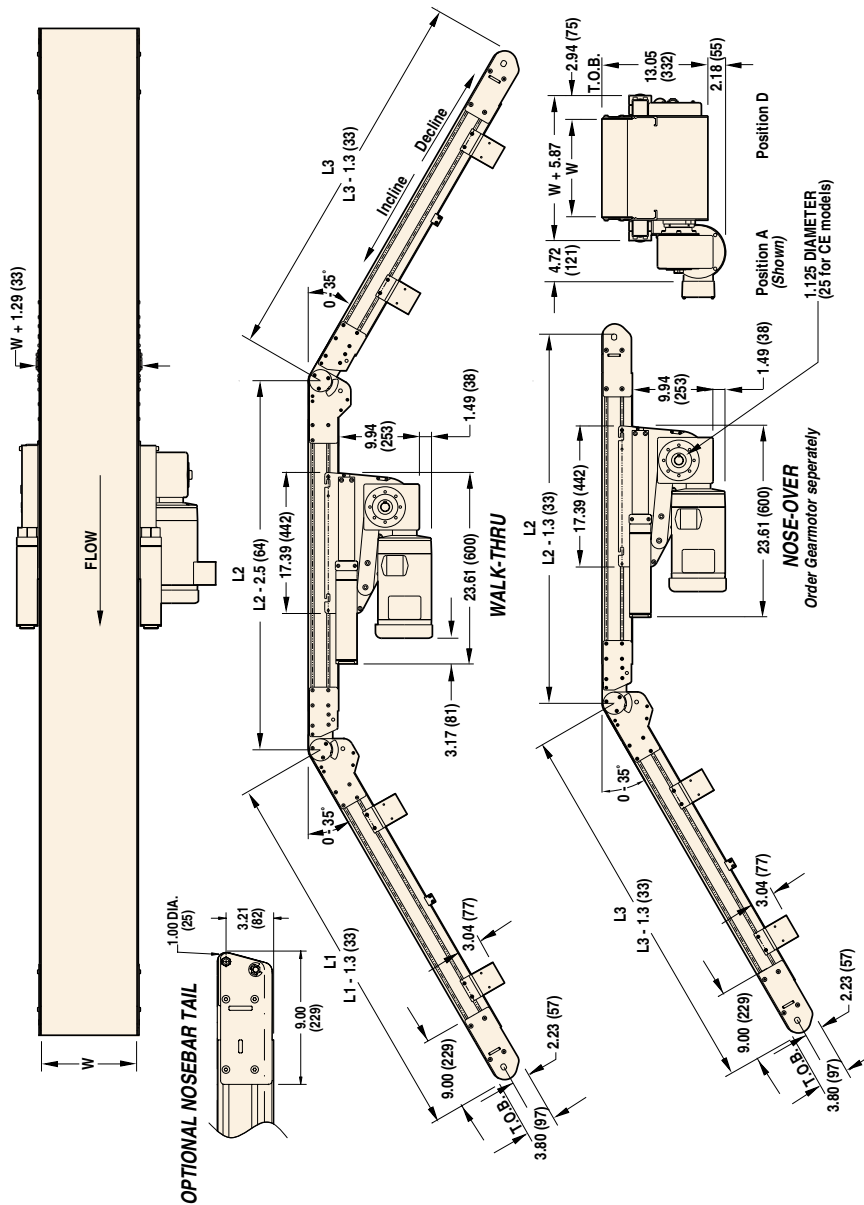


**STANDARD FEATURE:  
Adjustable Angles**

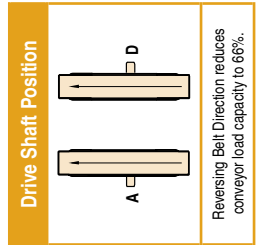
*Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.*

**For ordering information, see page 141**

**3200 SERIES: Z-FRAME FLAT BELT CENTER DRIVE**



W = Conveyor Belt Width Dim = in (mm)  
**Note:** Belt direction is not reversible



STANDARD SIZES				
<b>Conveyor Width Reference</b>	04	06	02 increments up to ...	48
<b>Conveyor Belt Width (W)</b>	3.75" (95mm)	6" (152mm)	2" (51mm) increments up to ...	48" (1,219mm)
<b>Conveyor Length Reference</b>	0200		0001 increments up to ...	9700
<b>Conveyor Length (L)</b>	2' (610mm)		0.12" (3mm) increments up to ...	97' (29,566mm)
<b>L1 + L2 + L3 = Maximum 99' (30,175mm) long conveyor</b>				

**NOTE:** Center drive module requires a 4" (1,219 mm) minimum section.  
**NOTE:** Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.  
**NOTE:** Conveyors wider than 40" require v-guide belt tracking.

For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.  
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

# 3200 SERIES: Z-FRAME SIDEWALL CLEATED BELT END DRIVE



## Specifications:

- Loads up to 100 lbs\* (45 kg)
- Belt speeds up to 275 ft/min (83.8 m/min)
- Belt widths: 8" (203 mm) to 24" (610 mm)
- Conveyor lengths: 4' (1,219 mm) to 25' (7,620 mm)
- Adjustable angle, 25° to 60°
- Available with 20 mm, 30 mm and 40 mm cleat and sidewall heights
- 1.62" (41 mm) of belt take-up
- 3" (76 mm) diameter drive pulley turns approximately 9.7" (246 mm) of belt per revolution
- CE models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

- Z-Frame, nose-over and horizontal-to-incline configurations
- Low maintenance sealed bearings
- Rack and pinion belt design offers single point belt tensioning
- High strength anodized aluminum frame with clear coat finish
- Two T-Slots on each side for easy mounting of pre-engineered accessories
- V-guided belts eliminate tracking adjustments
- Quick belt change increases uptime



**STANDARD FEATURE:**  
Adjustable Angles



**STANDARD FEATURE:**  
Small Parts Handling

### STANDARD SIZES

<b>Conveyor Width Reference</b>	08	02 increments up to...	24
<b>Conveyor Belt Width (W)</b>	8" (203mm)	2" (51mm) increments up to...	24" (610mm)
<b>Pocket Width</b>	3" (76mm)	2" (51mm) increments up to...	19" (482mm)
<b>Conveyor Length Reference</b>	0200	0001 increments up to...	1300
<b>Section Length (L)</b>	2' (610mm)	0.12" (3mm) increments up to...	13' (3,962mm)
<b>L1 + L2 + L3 = Maximum 25' (7,620mm) long conveyor</b>			

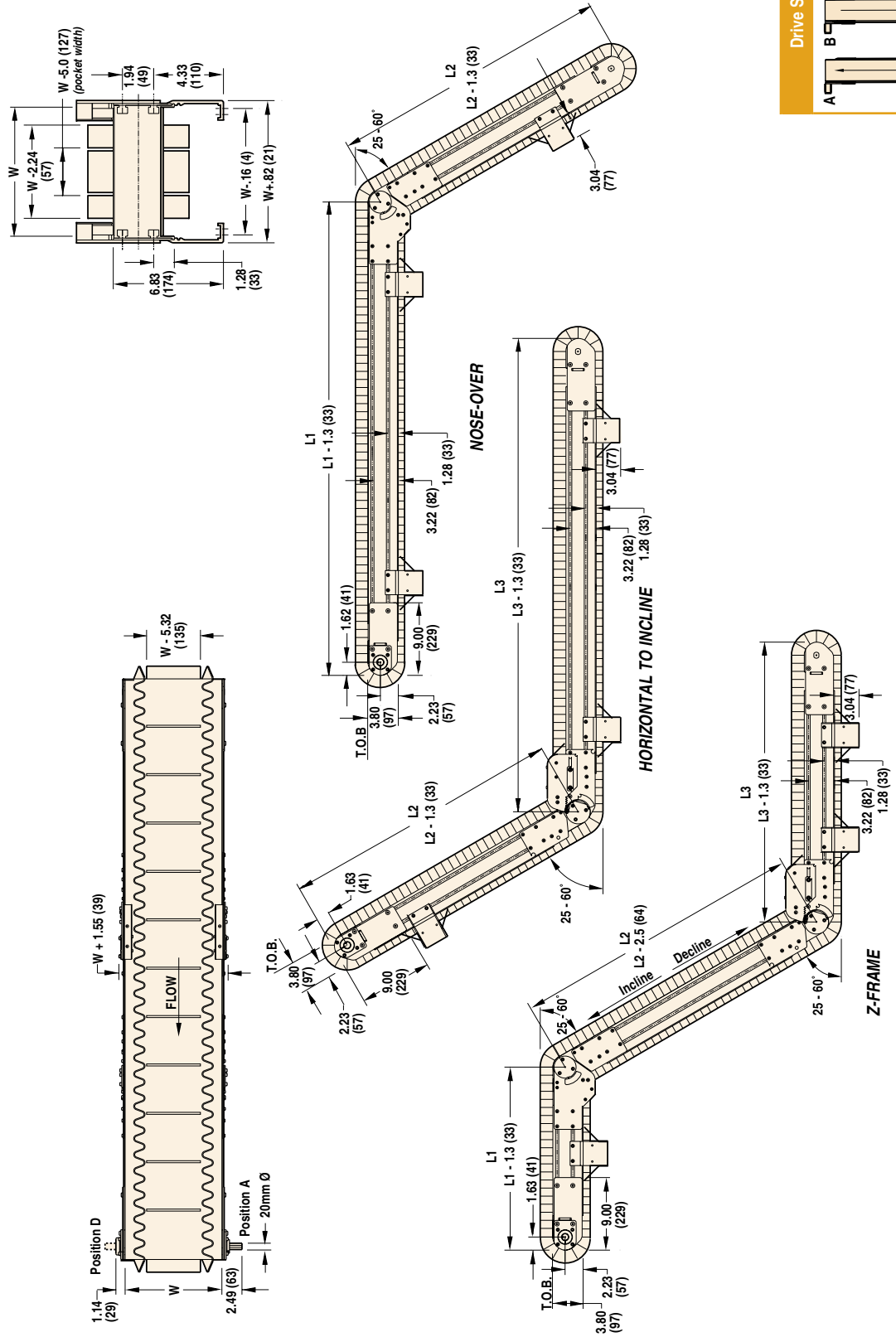
**NOTE:** Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.

Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.

**For ordering information, see page 141**



**3200 SERIES: Z-FRAME SIDEWALL CLEATED BELT END DRIVE**



**W** = Conveyor Belt Width **Dim** = in (mm) **Note:** Belt direction is not reversible  
**Note:** 35° to 60° for 18" (457 mm) to 24" (610 mm) wide conveyors

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

For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.  
 Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.



# 3200 SERIES: Z-FRAME STANDARD CLEATED BELT END DRIVE



## Specifications:

- Loads capacity up to 100 lbs\* (45 kg)
- Belt speeds up to 275 ft/min (83.8 m/min)
- Belt widths: 8" (203 mm) to 24" (610 mm)
- Conveyor lengths: 4' (1,219 mm) to 25' (7,620 mm)
- Adjustable angle, 25° to 60°
- Cleats available from 0.24" (6 mm) to 2.36" (60 mm) high
- 1.62" (41 mm) of belt take-up
- 3" (76 mm) diameter drive pulley turns approximately 9.7" (246 mm) of belt per revolution
- **CE** models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

## Features & Benefits:

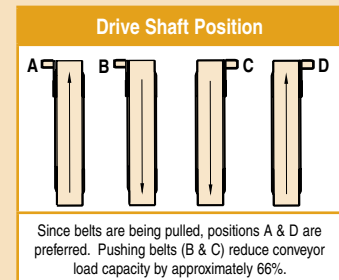
- Z-Frame, nose-over and horizontal-to-incline configurations
- Rack and pinion offers single point belt tensioning
- Low maintenance sealed bearings
- High strength anodized aluminum frame with clear coat finish
- Two T-Slots on each side for easy mounting of pre-engineered accessories
- V-guided belts eliminate tracking adjustments
- Adjustable angle frames conform to applications
- Quick belt change increases uptime



**STANDARD FEATURE:**  
Adjustable Angles

STANDARD SIZES			
<b>Conveyor Width Reference</b>	08	02 increments up to...	24
<b>Conveyor Belt Width (W)</b>	8" (203mm)	2" (51mm) increments up to...	24" (610mm)
<b>Pocket Width</b>	6" (152mm)	2" (51mm) increments up to...	22" (559mm)
<b>Conveyor Length Reference</b>	0200	0001 increments up to...	1300
<b>Section Length (L)</b>	2' (610mm)	0.12" (3mm) increments up to...	13' (3,962mm)
<b>L1 + L2 + L3 = Maximum 25' (7,620mm) long conveyor</b>			

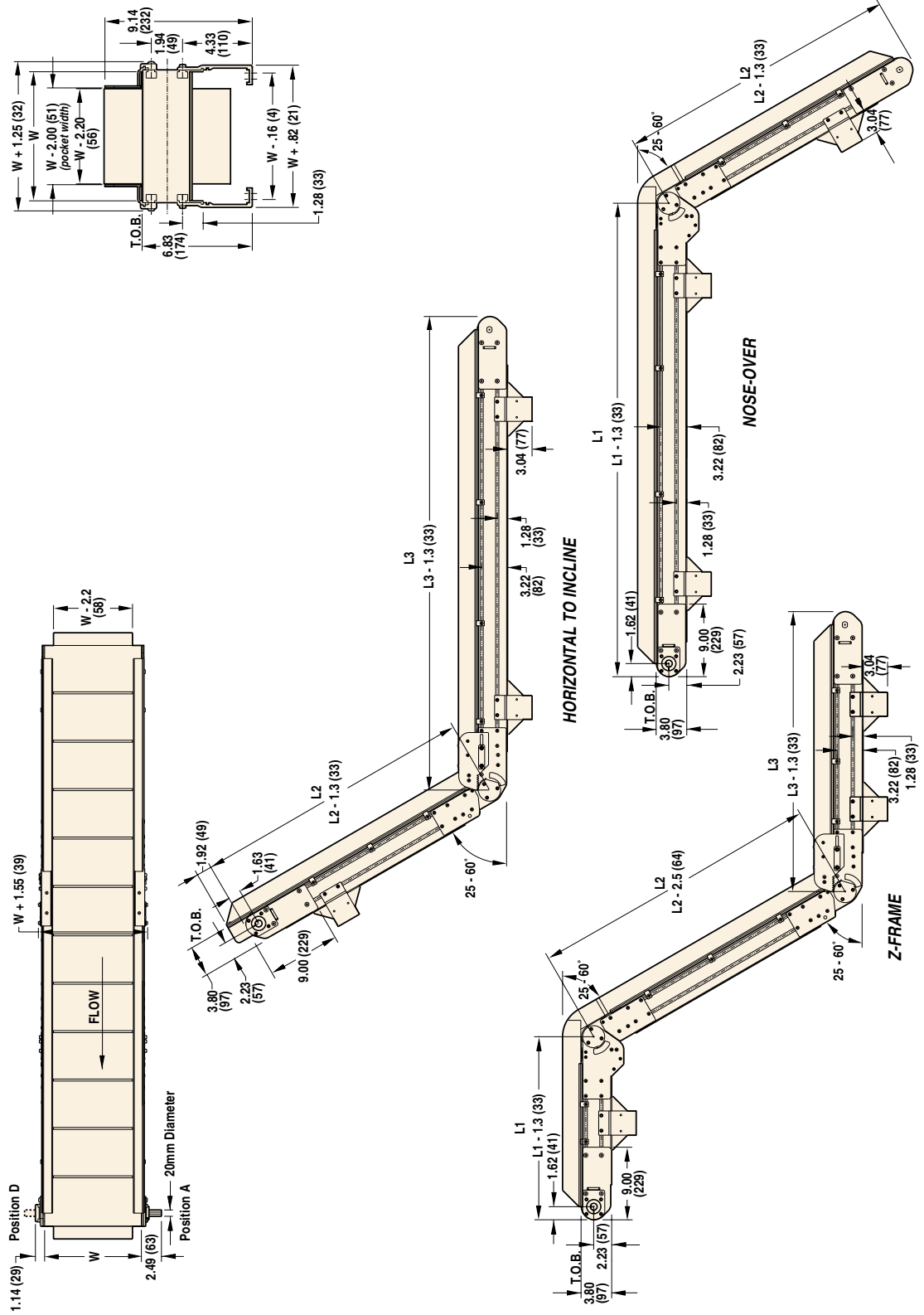
**NOTE:** Conveyor longer than 12' (3,658 mm) will be constructed using a multiple piece frame. Consult factory for locations.



Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.

**For ordering information, see page 142**

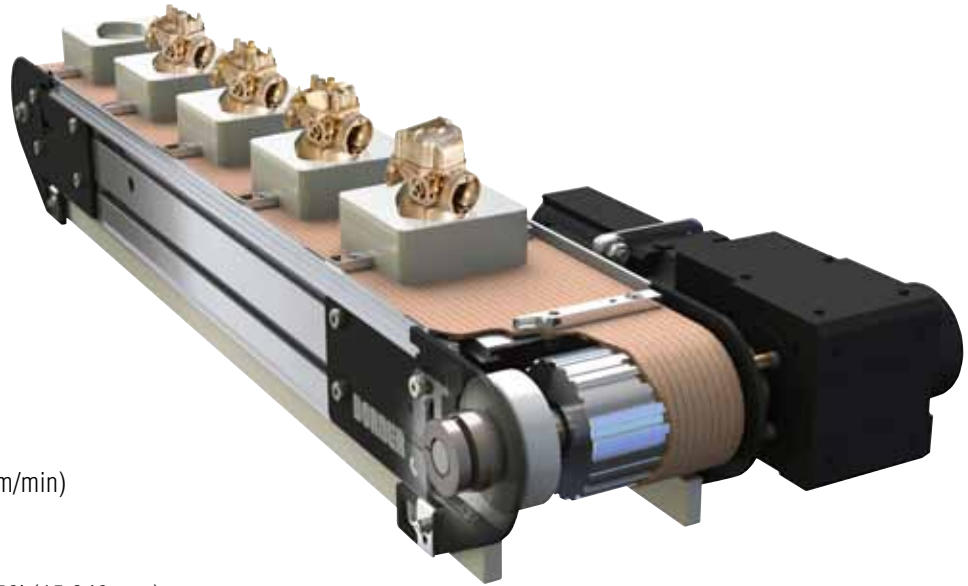
**3200 SERIES: Z-FRAME STANDARD CLEATED BELT END DRIVE**



For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.  
 Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.

W = Conveyor Belt Width Dim = in (mm) **Note:** Belt direction is not reversible  
**Note:** 35° to 60° for 18" (457mm) to 24" (610mm) wide conveyors

# 3200 PRECISION MOVE: FLAT, FIXTURED & CLEATED BELT END DRIVE



## Specifications:

- Loads up to 750 lbs\* (340 kg)
- Belt speeds up to 517 ft/min (158 m/min)
- Belt widths: 4" (95 mm) to 18" (457 mm) in 2" increments
- Conveyor lengths: 2' (610 mm) to 50' (15,240 mm)
- 21 tooth H (1/2") pitch profile timing belt (10 mm Metric pitch available)
- 3.3" (84 mm) pitch diameter drive and idler pulleys turn approximately 10.5" (267 mm) of belt per revolution
- Optional M5 belt inserts, accuracy of spacing in length  $\pm 0.005$ "
- Optional pallet mounting bars, 5/16" x 1/2" plated steel
- Conveyor mechanical accuracy  $\pm 0.01$ "
- Conveyor package w/ servo motor index accuracy  $\pm 0.02$ "
- 100 Indexes per minute rated

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

### Pallet / Fixture Mounting System



3 Flexible Options: M5 inserts, pallet mounting bars, or direct pallet mounting (see pg 102-103)

## Features & Benefits:

- High load capacity urethane belting with kevlar cords (True Timing Belt)
- No capacity drop when pushing belt
- All widths feature a single belt for increased mounting flexibility
- Positive drive no slip belting and side guides provide worry free belt tracking
- Use optional cleats to create pockets for controlled part flow
- Minimum pallet mounting bar is spacing 1" in length
- T-slots make mounting accessories simple with no drilling or special tools
- Compatible with standard drive packages
- Available with servo motor and mounts for increased accuracy of index
- Servo package includes fully integrated solution with intuitive PC interface
- Sealed ball bearings



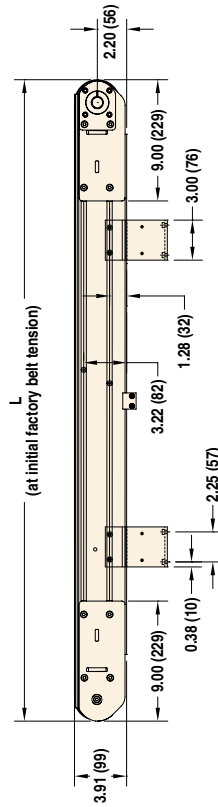
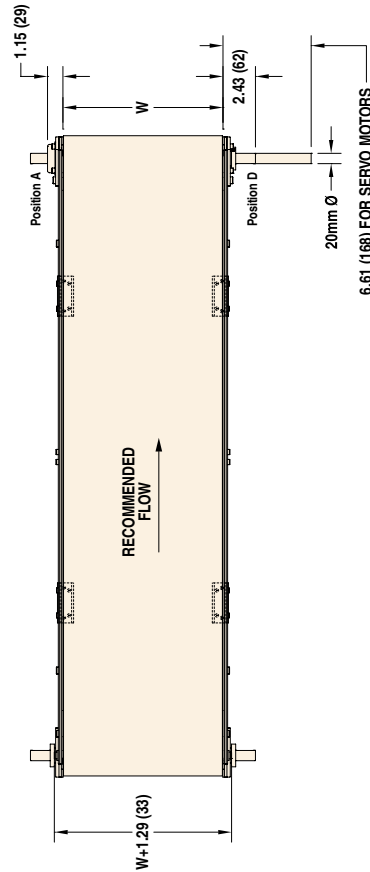
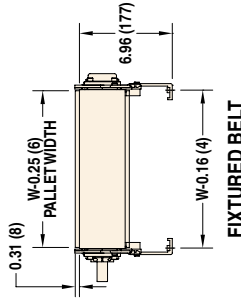
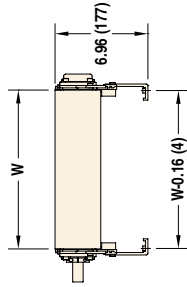
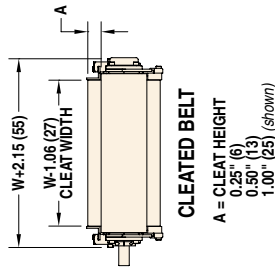
OPTIONAL:  
3 Cleat Heights Available

(1/4", 1/2" or 1")

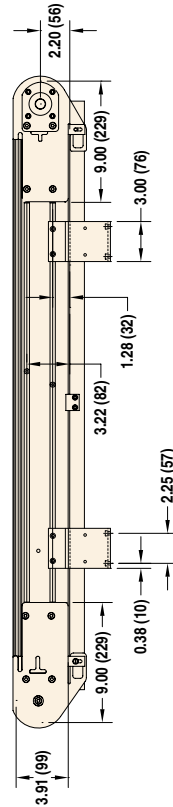
Order gearmotor mounting packages and gearmotors separately, see pages 111-127.  
For support stands and accessories, see pages 128-138.

For ordering information, see page 142

**3200 PRECISION MOVE: FLAT, FIXTURED & CLEATED BELT END DRIVE**



**FLAT AND CLEATED BELT**



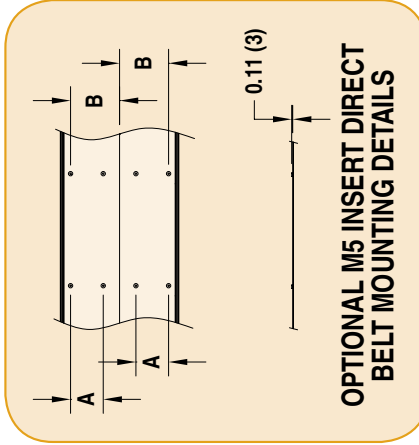
**FIXTURED BELT**

W = Conveyor Belt Width Dim = in (mm)

**STANDARD SIZES**

Conveyor Width Reference	04	06	02 increments up to...	18
Conveyor Belt Width (W)	3.75" (95mm)	6.0" (152mm)	2" (51mm) increments up to...	18.0" (457mm)
Conveyor Length Reference	0300	0001 increments up to...	5000	
Conveyor Length (L)	2' (610mm)	0.1" (2.54mm) increments up to...	50' (15.240mm)	

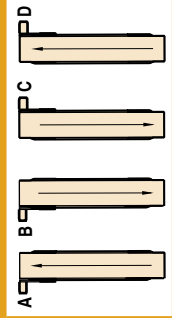
**NOTE:** Actual conveyor length may need to be adjusted to match belt pitch.



**Optional Direct Belt Mounting**

Width (WW)	Belt Width	'A' Dim.	'B' Dim.
04	3.700	N/A	1.125
06	5.940	N/A	2.250
08	7.910	N/A	3.250
10	9.910	N/A	4.250
12	11.910	3.500	5.250
14	13.910	4.167	6.250
16	15.910	4.833	7.250
18	17.910	5.500	8.250

**DRIVE SHAFT POSITION**

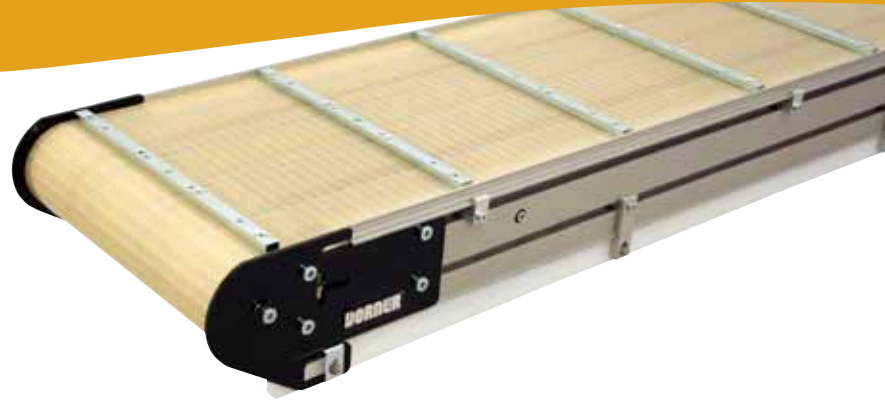
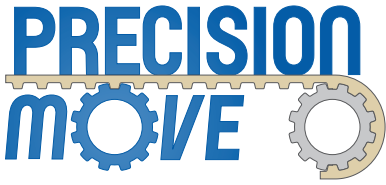


All positions available with no loss in carrying capacity.

For more information, go to [www.dorner.com](http://www.dorner.com). Call 800.397.8664 or 262.367.7600.

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

# 3200 PRECISION MOVE: FIXTURED PALLET DETAILS



## Fixture Mounting Bar

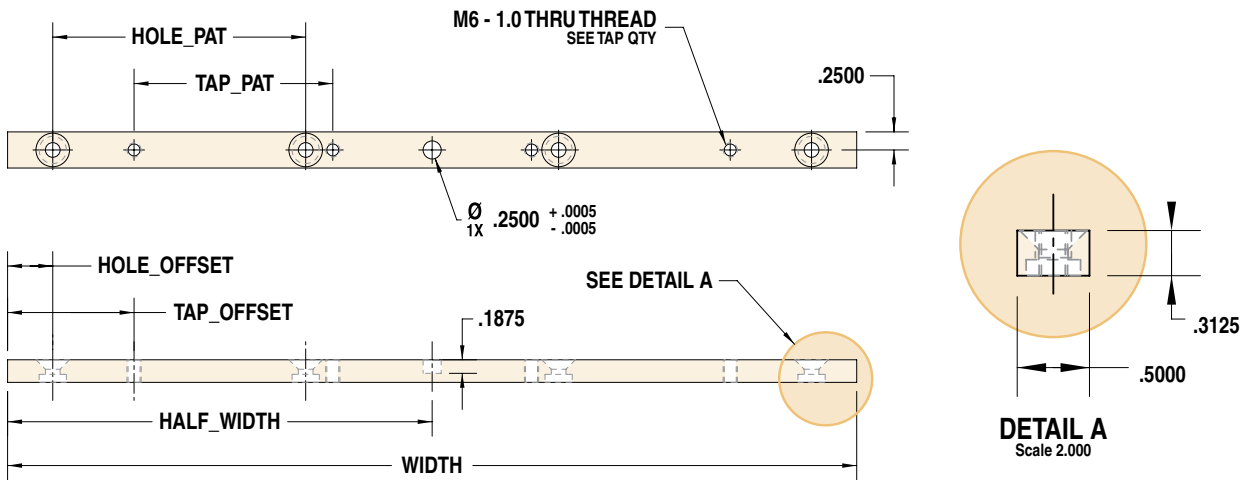
### Features:

- Provides an accurate mounting bar for pallet attachment
- M6 taps located along the bar length
- Provided assembled to conveyor belt
- Plated steel bar

### Belt Fixture Specs:

- Minimum spacing = 2.0" (51)
- Spacing accuracy of belt fixtures =  $\pm 0.005$ "
- Size and tolerance of belt fixture:
  - Width = 0.500" +0.001 / -0.004"
  - Height = 0.312" +0.001 / -0.004"

Fixture Mounting Bar								
Width (WW)	Belt Width	Hole Offset	Bar Width	Hole Qty	Hole Pattern	Tap Offset	Tap Qty	Tap Pattern
04	3.700	0.625	3.500	2	2.250	1.000	2	1.500
06	5.940	0.625	5.750	2	4.500	1.250	2	3.250
08	7.910	0.625	7.750	2	6.500	1.250	2	5.250
10	9.910	0.625	9.750	2	8.500	1.250	2	7.250
12	11.910	0.625	11.750	4	3.500	1.750	4	2.750
14	13.910	0.625	13.750	4	4.167	1.750	4	3.417
16	15.910	0.625	15.750	4	4.833	1.750	4	4.083
18	17.910	0.625	17.750	4	5.500	1.750	4	4.750



## Fixture Guides – Adjustable Width Tolerance

### Features:

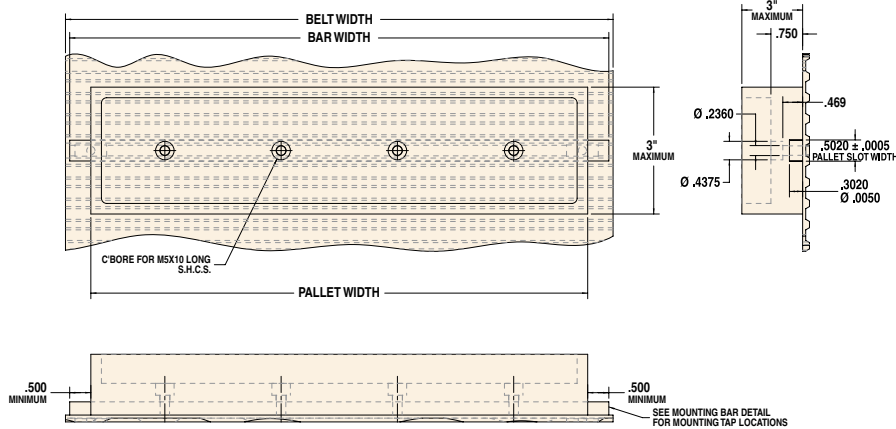
- UHMW Guides for placement in areas requiring the tightest width tolerances
- 12" long, sold in pairs
- Provides a side to side accuracy of up to  $\pm 0.010$ "



Part Number	Description
350226	Pair of Precision Move fixture guides

## Pallet Mount Recommendations

### Mounting to Fixture Mounting Bar



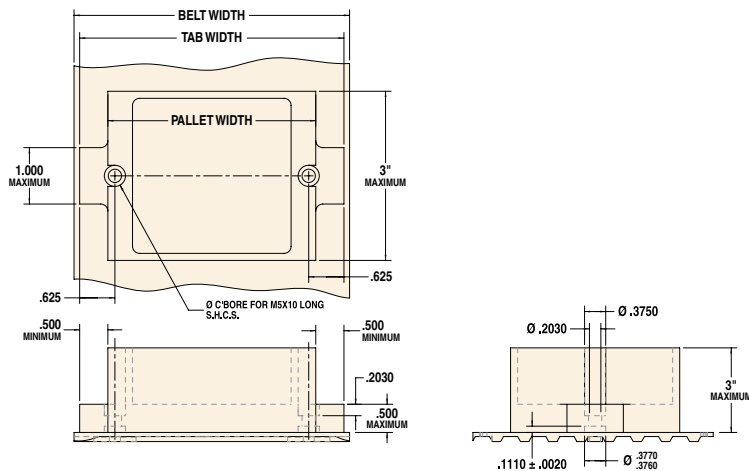
### Pallet Specs:

- Maximum width of pallet = 3"
- Maximum height of pallet = 3"
- Maximum weight of empty pallet = 1.0 lb per belt insert
- Maximum speed of pallet around end roller = 270 ft/min

### Mounting to Fixture Mounting Bar

Conveyor Width	Belt Width	Bar Width
4"	3.700	3.500
6"	5.940	5.750
8"	7.910	7.750
10"	9.910	9.750
12"	11.910	11.750
14"	13.910	13.750
16"	15.910	15.750
18"	17.910	17.750

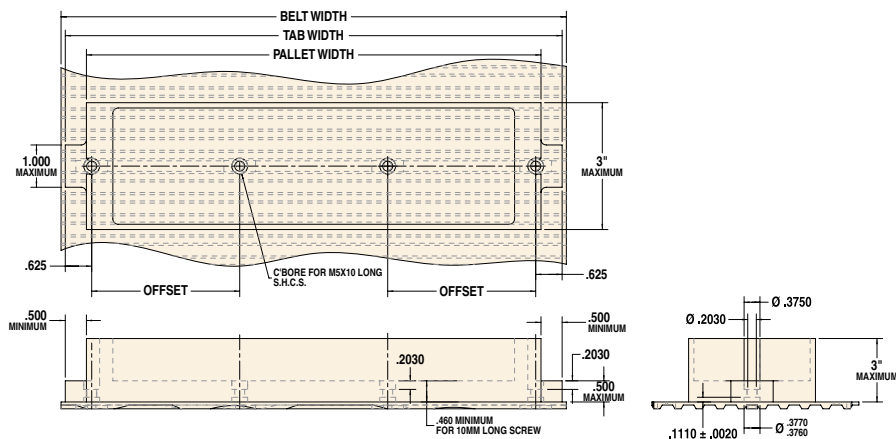
### Mounting Directly to the Belt (4-10 inch wide)



### Mounting Directly to the Belt (4-10 inch wide)

Conveyor Width	Belt Width	Tab Width
4"	3.700	3.500
6"	5.940	5.750
8"	7.910	7.750
10"	9.910	9.750

### Mounting Directly to the Belt (12-18 inch wide)



### Mounting Directly to the Belt (12-18 inch wide)

Conveyor Width	Belt Width	Tab Width	Offset
12"	11.910	11.750	3.500
14"	13.910	13.750	4.167
16"	15.910	15.750	4.833
18"	17.910	17.750	5.500

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



## Precision Move Servo Gearmotor



### Features:

- Indexes per minute rating = 100 per minute
- Conveyor/Drive Package Index accuracy =  $\pm 0.020$ "
- Side mount with hollow shaft servo reducer
- Max belt speed = 270 ft/min

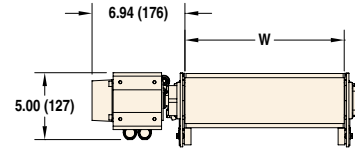
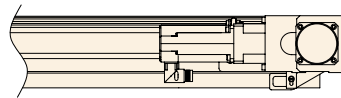
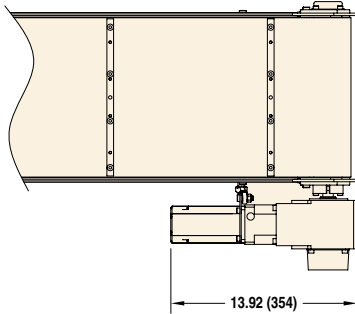
### Motor:

- Kollmorgen AKM Series Motor
- Brushless DC Servomotor with encoder
- 80 mm Frame
- 1.02 kW
- Up to 640 VDC input
- Up to 2.62 amps
- Quick disconnect power and communication fittings
- UL, CE, RoHS Compliant

### Gearbox:

- 90 Degree Helical Bevel Reducer
- 8:1 Ratio
- 97% efficient
- 16 arc-minute backlash
- 20,000 hr rated
- 20 mm shrink fit hollow bore

Part Number	Controller Voltage	Max Belt Speed (Ft/min)	Min Belt Speed (Ft/min)	Torque (in-lb)	RPM
32M008HR2B1KW	115V input	164	10	130	187
	230V input	273	10	130	312



See pages 312-314 for Servo Gearmotor Controller

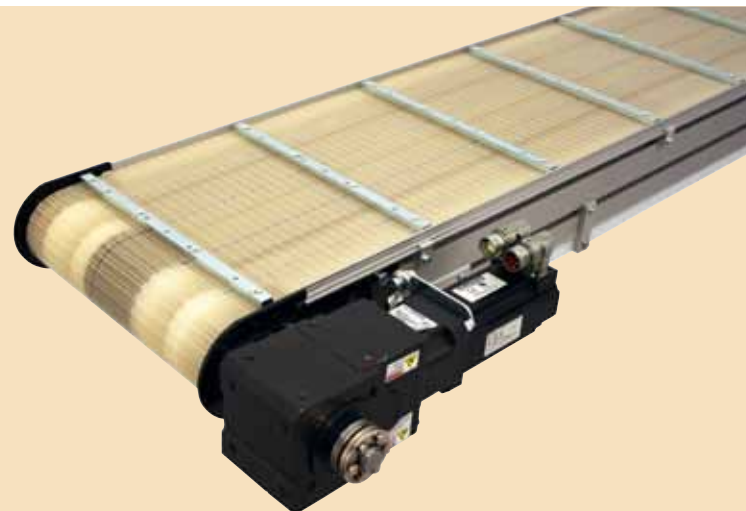
## Precision Move Servo Side Mount Package

### Features:

- Direct mount side drive eliminating couplings and backlash issues
- Mounts with a zero-backlash shaft clamp system
- Includes shaft guarding and anti-rotation brackets

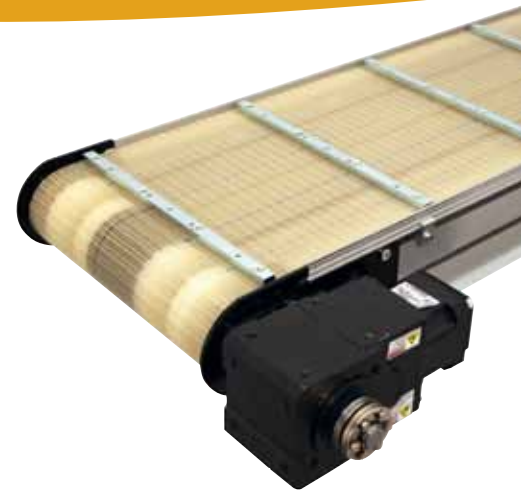
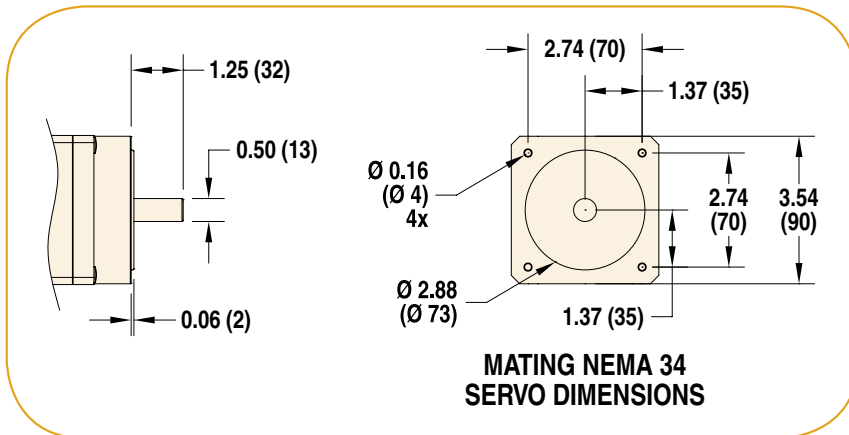
Description	Motor / Gearhead	Part Number
Side Mount	Servo Gearmotor	32MSHR(A)
Side Mount	Nema 34 Gearhead	32MSHR(A)N34

\*A = Mount position (A, D)



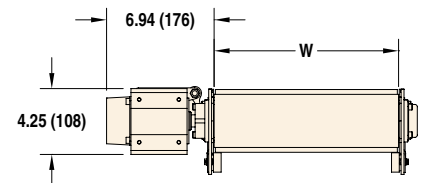
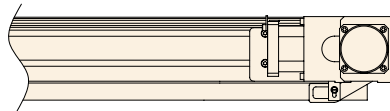
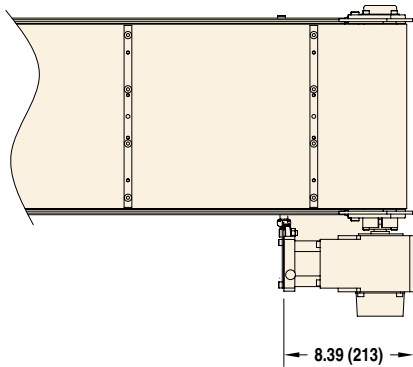
## Precision Move Servo Gearhead Only

Part Number	Conveyor Speed Multiply Factor
	32M008HRN34



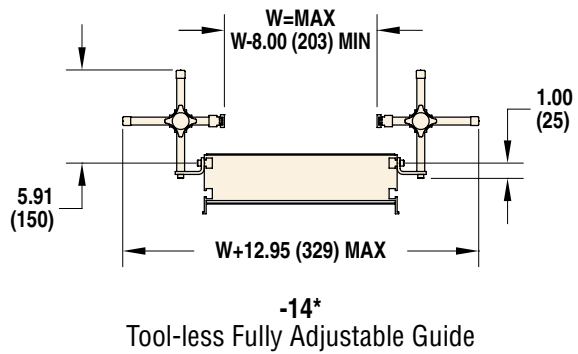
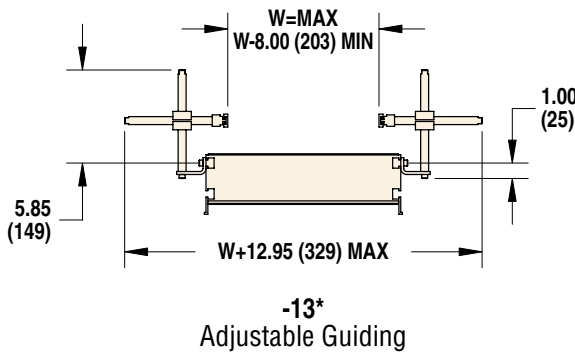
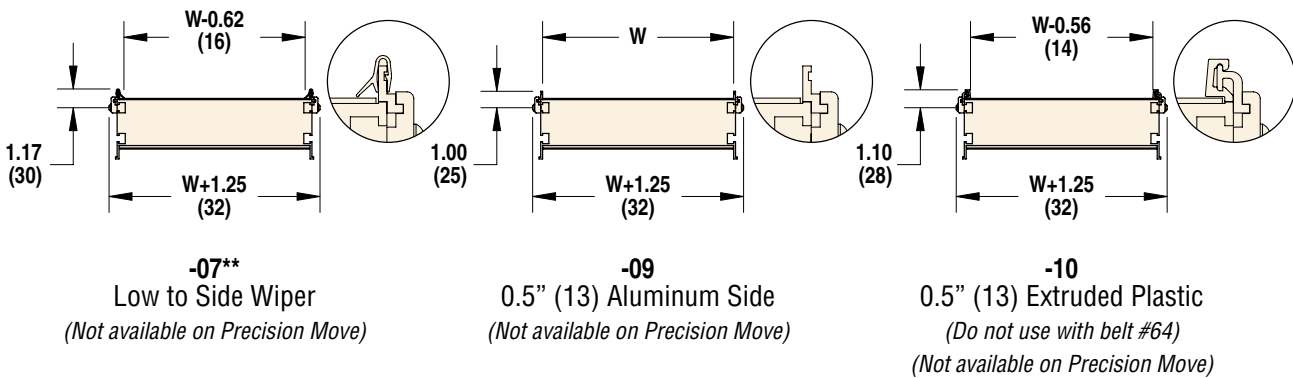
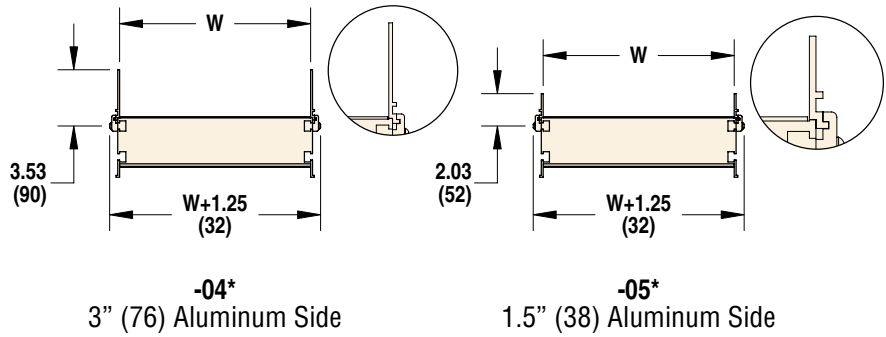
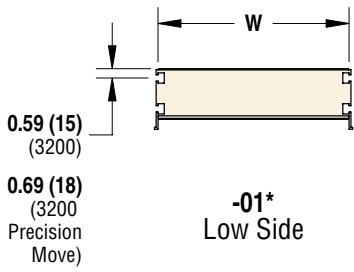
### Features:

- Standard Nema 34 input mounting dimensions
- 90° Helical Bevel Reducer
- 8:1 ratio
- 97% efficient
- 16 arc-minute backlash
- 20,000 hr rate





# 3200 SERIES: PROFILES



\* Z-Frame compatible profiles  
 \*\* Do not use with High Friction Belts  
 W = Conveyor Belt Width  
 Dim = in (mm)

# 3200 SERIES: STANDARD BELTING



## Standard Belt Selection Guide

Standard belt material is stocked at Dorner, then cut & spliced at the factory for fast conveyor shipment.

Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper	Belt Specifications	Thickness	Surface Material	Carcass Material	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Anti-Static	Static Conductive	Chemical Resistance	Special Characteristics or Applications
01	A1	1A	FDA Accumulation	0.067" (1.7)	Urethane	Polyester	212°F (100°C)	Low	x	x		Good	Packaging, clean room and inspection
02	A2	2A	General Purpose	0.071" (1.8)	Urethane	Polyester	212°F (100°C)	Med	x	x		Good	Most versatile belt offering
03	A3	3A	FDA High Friction	0.067" (1.7)	Urethane	Polyester	212°F (100°C)	High	x	x		Good	Packaging, clean room and inspection
05	A5	5A	Accumulation	0.047" (1.2)	Urethane	Polyester	212°F (100°C)	V-Low	x	x		Good	Accumulation of products
06	A6	6A	Electrically Conductive	0.063" (1.6)	Urethane	Polyester	176°F (80°C)	Low		x	x	Good	Electronics Handling
08	A8	8A	High Friction	0.083" (2.1)	PVC	Polyester	158°F (70°C)	V-High		x		Poor	Conveys up to 35° inclines*

Dim = in (mm)

**Note:** See below for splice details. Plastic Clipper splice requires longer lead times. Clipper splice not available on Z-Frame Series Conveyors.

**Note:** Conveyors wider than 40" (1,016 mm) require V-Guide belt tracking

**Note:** Belts with V-guiding may have a slight high spot or rib on the top surface. This rib would run longitudinally along the center of the belt. Consult factory with applications for which this may cause interference.

\*Incline varies due to factors like dust, fluids and part material.

## BELT SPLICING



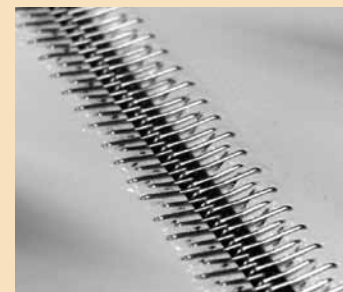
### Finger Splice

All belts are available with a standard Thermoformed finger splice. This splice makes the belt continuous and is virtually undetectable. Splice bonding methods vary by belt type. Consult factory for details.



### Plastic Clipper\*\*

An optional plastic clipper splice is available for quick removal of belts or when conveyors are installed in tight spaces.



### Metal Clipper\*\*

An optional metal clipper splice is also available for quick removal of belts or when conveyors are installed in tight spaces.

\*\* See belt charts for compatibility. Not for use with 3200 Series Nose Bar Transfer option. Plastic and Metal Clippers are slightly thicker than base belt. Contact factory for details.

# 3200 SERIES: SPECIALTY BELTING



## Specialty Belt Selection Guide

*Specialty belt material is not stocked at Dorner and needs to be custom ordered for your special conveyor needs.*

Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper	Belt Specifications	V-guided	Belt Thickness	Surface Material	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Chemical Resistance	Special Characteristics or Applications
18	B8	8B	Material Handling, High Friction	x	0.08 (2)	PVC	158°F (70°C)	High		Poor	Low cost alternative, general purpose, dark green colored
50			Heat Resistant		0.05 (1.3)	Silicone	356°F (180°C)	Low		Good	
51			Heat Resistant		0.04 (1.0)	Mesh	600°F (316°C)	n/a		V-Good	0.18" (5mm) square mesh, UV curing, airflow
53			Translucent, Nose Bar, Accumulation		0.02 (0.5)	Urethane	212°F (100°C)	V-Low	x	Good	Back lit inspection and very small product transfer
54	F4	4F	FDA Sealed Edge	x	0.06 (1.6)	Urethane	176°F (80°C)	Low	x	Good	Packaging, clean room and inspection
55	F5	5F	FDA Sealed Edge	x	0.06 (1.6)	Urethane	176°F (80°C)	High	x	Good	Packaging, clean room and inspection
56		6F	Cut Resistant	x	0.08 (2.1)	Urethane	212°F (100°C)	Med.		Good	Oily product release, metal stamping
57		7F	Cut Resistant*	x	0.10 (2.5)	Nitrile	176°F (80°C)	Med.		Poor	Felt-like, dry metal stamping, glass and ceramic
58		8F	Cut Resistant		0.06 (1.5)	Urethane	176°F (80°C)	Low		V-Good	Cross-linked surface, gold colored
59	F9	9F	Color Contrasting	x	0.06 (1.5)	PVC	158°F (70°C)	Med.		Poor	Black colored, hides overspray from ink jet
60	G0	0G	Color Contrasting	x	0.05 (1.3)	Urethane	212°F (100°C)	Low	x	Good	Green colored
61	G1	1G	Color Contrasting	x	0.05 (1.3)	Urethane	212°F (100°C)	Low	x	Good	Blue colored
63		3G	Electrically Conductive	x	0.05 (1.2)	Urethane	176°F (80°C)	Low		Good	Static conductive, electronics handling
64		4G	High Friction	x	0.17 (4.4)	PVC	194°F (90°C)	V-High		Poor	Dark Green colored, rough top surface, product cushioning, incline/decline apps
66		6G	Chemical Resistant	x	0.07 (1.7)	Polyester	212°F (100°C)	Med.	x	V-Good	Good cut resistance, metal stamping apps
67		7G	Low Friction Cleated (Do not use with Z-Frame)	x	0.06 (1.6)	Polyester	212°F (100°C)	n/a	x	Good	Excellent product release, consult factory for part number and how to specify low friction
68	G8		FDA Encased**	x	0.06 (1.5)	Urethane	176°F (80°C)	Low	x	Good	Urethane enclosed for added sanitary protection
69	G9		FDA Encased**	x	0.09 (2.2)	Urethane	212°F (100°C)	Med.	x	Good	Urethane enclosed for added sanitary protection

Dim = in (mm)

**Note:** Clipper Splices not available on Z-Frame Series Conveyors.

**Note:** Conveyors wider than 40" (1,016 mm) require V-Guide belt tracking

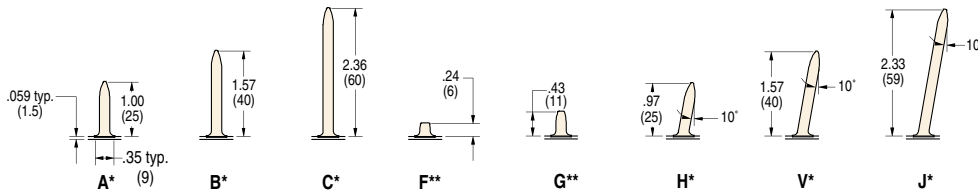
**Note:** Belts with V-guiding may have a slight high spot or rib on the top surface. This rib would run longitudinally along the center of the belt.

Consult factory with applications for which this may cause interference.

\* 12" (305 mm) wide conveyor maximum for non V-guided

\*\* Not available in 2" (51 mm) widths

# 3200 SERIES: CLEATED BELTING

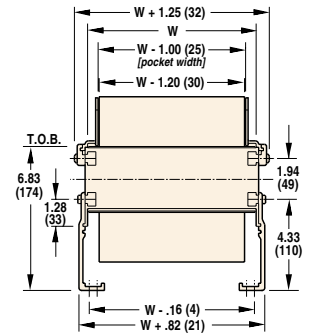


\* Maximum 20" (508 mm) cleat spacing for 18" and wider conveyors with lengths greater than 7' (2,134 mm)

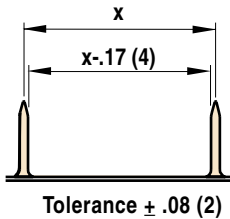
\*\* 18" and wider conveyors have a maximum length of 7' (2,134 mm)

**Base Belt Material:** 0.059" (1.5 mm) thick, high friction FDA approved urethane, 176°F (80°C) maximum part temperature. See Specialty Belt 67 for low friction base belt material.

**Note:** Minimum cleat spacing is approximately 2" (50 mm). Consult Factory.



## CLEAT SPACING



### Steps:

- 1) Refer to Formulas below
- 2) Use formula 1 to determine the approximate number of cleats required based upon the desired cleat spacing. Since a partial cleat cannot be used, round the number of cleats up or down
- 3) Use formula 2 to get the cleat space reference for the conveyor part number

### Formula 1

$$\text{Number of Cleats} = \frac{(\text{Conveyor Length in feet} \times 24) + 3.11}{\text{Desired cleat spacing in inches (x)}}$$

### Example

Using a 6' long conveyor and 6" cleat spacing

$$\text{Number of Cleats} = \frac{(6 \times 24) + 3.11}{6} = \frac{147}{6} = \mathbf{25 \text{ Cleats (rounded)}}$$

### Formula 2

$$\text{Cleat Space Reference (x)} = \frac{(\text{Conveyor Length in feet} \times 24) + 3.11}{\text{Number of Cleats from Formula 1}}$$

### Example

Using a 6' long conveyor and 24 cleats

$$\text{Cleat Spacing in inches (x)} = \frac{(6 \times 24) + 3.11}{24 \text{ cleats}} = \frac{147}{24} = \mathbf{6.13 \text{ or } 0613 \text{ Cleat Reference}}$$

## SIDEWALL CLEATED BELTING

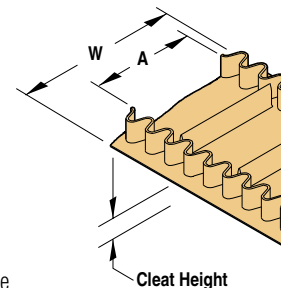
Sidewall Cleated Belts are used for small part handling.

### Sidewall Cleated Belt

Cleat Type	Cleated & Sidewall Height	Belt Thickness	Surface Material	Color	Maximum Part Temperature	FDA Approved	Chemical Resistance
S	30 mm	0.06 (1.5)	Urethane	White	212°F (100°C)	x	Good
T	40 mm	0.06 (1.5)	Urethane	White	212°F (100°C)	x	Good

Note: Minimum cleat spacing is approximately 2" (50 mm). Consult factory for special cleat information.

W = Conveyor Belt Width  
A = Pocket Width



=  $W - 4.0"$  (102 mm) for 3200

=  $W - 5.0"$  (127 mm) for Z-Frame

**Note:** 6" (152 mm) minimum width for 3200 conveyors and 8" (203 mm) minimum width for Z-Frame conveyors. 24" (610 mm) maximum conveyor width.

# 3200 PRECISION MOVE: BELTING

## PRECISION MOVE BELTING

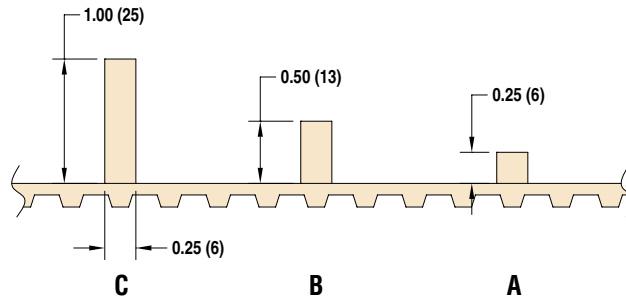
### Standard Belt Selection Guide

Standard belt material is stocked at Dorner, then cut and spliced at the factory for fast conveyor shipment.

Part Number Reference	Belt Specifications	Tooth Pitch	Thickness	Material	Top Surface	Color	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Chemical Resistance	Max Width	Cleat Heights
N	Flat Belt	H (0.5")	0.160 (4.1)	Urethane with Kevlar Cords	Smooth	Natural	160°F (71°C)	Med	No	Good	18 (457)	N/A
A, B, C	Cleated Belt	H (0.5")	0.160 (4.1)	Urethane with Kevlar Cords	Smooth	Natural	160°F (71°C)	N/A	No	Good	18 (457)	¼ (6), ½ (13), 1 (25)
H, F	Fixture Belt	H (0.5")	0.160 (4.1)	Urethane with Kevlar Cords and Steel Inserts	Smooth	Natural	160°F (71°C)	Med	No	Good	18 (457)	N/A

Dim = in (mm)

## PRECISION MOVE CLEATS



- Cleats must be located over the timing belt tooth
- Cleat spacing increments = 0.5"
- Minimum cleat spacing = 1.0"
- Cleat spacing accuracy
  - Spacing 1" to 9" =  $\pm 0.020$ "
  - Spacing 9.5" to 18" =  $\pm 0.025$ "
  - Spacing 18.5" to 27" =  $\pm 0.030$ "
- Cleat angle tolerance to base belt = perpendicular  $\pm 1^\circ$

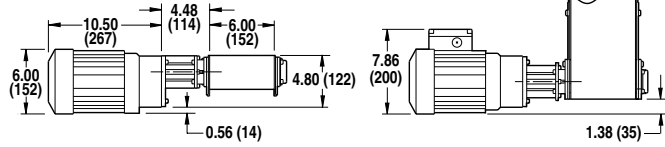
## GEARMOTOR MOUNTING PACKAGE & GEARMOTOR SELECTION STEPS

- Step 1:** Select a **Gearmotor Mounting Package**. For End drive conveyors, select a side, bottom or top drive mount (pages 112-113). If a Center Drive conveyor is being outfitted, refer to the Center Drive section on page 115. Be sure to note if it is for a **90°** or **Parallel Shaft Gearmotor**.
- Step 2:** Using **Belt Speed and Load** Requirements, determine the required **Gearmotor Type** (Light, Heavy or Standard) for your application using the chart below.
- Step 3:** Find the appropriate set of Belt Speed Charts (pages 114-115) for the Mounting Package you selected and choose between the **Fixed** or **Variable Speed** chart.
- Step 4:** Go down the first column of the Belt Speed Chart and locate the required **Belt Speed** for your application. If the desired belt speed is not listed, round up to the next higher speed.
- Step 5:** From the row containing your required **Belt Speed**, check to be sure that speed is available for the **Mount Package** you chose. (End Drive Only - Top, Bottom or Side)
- Step 6:** Use the Drive / Driven Pulley Kit combination to complete your Mounting Package Part Number
- Step 7:** Note the **RPM from Gearmotor**, it will be needed to select the correct Gearmotor from the Gearmotor Chart.
- Step 8:** Reference the **Gearmotor Chart #** to locate a compatible Gearmotor Chart on pages 116-127. Be sure to select a Gearmotor Chart to match your **Gearmotor Type** (Light, Standard or Heavy) and your **Mounting Package** while meeting your electrical requirements.  
(Red = Parallel Shaft or Blue = 90°)
- Step 9:** Using the **RPM from Gearmotor** (Step 6), locate the **Part Number** for your Gearmotor from the Gearmotor Table.

GEARMOTOR TYPE		Conveyor Load - Lbs (Kg)											
		10 (4.5)	25 (11.4)	50 (22.7)	75 (34.1)	100 (45.5)	150 (68.2)	200 (90.9)	400 (181.9)	550 (250)	700 (318.2)		
Belt Speed - Ft/min (m/min)	0-15 (0-4.6)												
	16-30 (4.9-9.1)												
	31-45 (9.5-13.7)												
	46-60 (14-18.3)												
	61-75 (18.6-22.9)												
	76-90 (23.2-27.4)												
	91-110 (27.7-33.5)												
	111-130 (33.8-39.6)												
	131-150 (39.9-45.7)												
	151-175 (46-53.4)												
	176-200 (53.7-61)												
	201-225 (61.3-68.6)												
	226-250 (68.9-76.2)												
	251-275 (76.5-83.8)												
	276-300 (84.1-91.4)												
	301-350 (91.7-106.7)												
351-400 (107-121.9)													
401-450 (122.2-137.1)													

# 3200 SERIES: GEARMOTOR MOUNTING PACKAGES

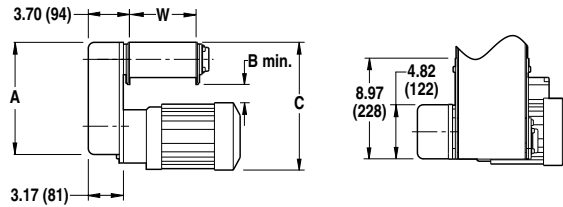
## Side Mount Package, Parallel Shaft Gearmotor



- Includes gearmotor mounting bracket, 3 jaw flexible coupling, coupling guard and mounting hardware

W = Conveyor Belt Width

## Bottom Mount Package, Parallel Shaft Gearmotor



A: Flat Belt = 10.00 (254)  
Cleated Belt = 12.69 (322)

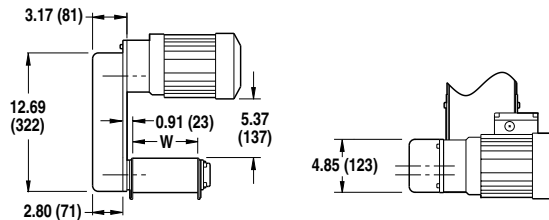
B: Flat Belt = 1.64 (42)  
Cleated Belt = 4.33 (110)

C: Flat Belt = 11.39 (289)  
Cleated Belt = 14.08 (357)

- Includes gearmotor mounting bracket, timing belt, pulleys, guard and mounting hardware
- Conveyor belt speed can be adjusted with optional ratio pulley kits

W = Conveyor Belt Width

## Top Mount Package, Parallel Shaft Gearmotor



- Includes gearmotor mounting bracket, timing belt, pulleys, guard and mounting hardware
- Conveyor belt speed can be adjusted with optional ratio pulley kits

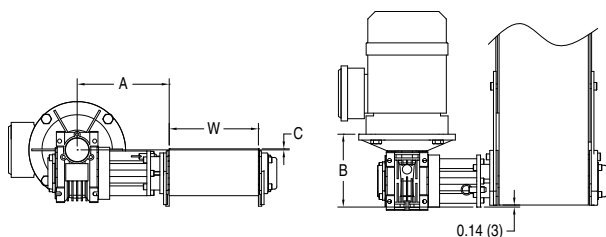
W = Conveyor Belt Width

Note: Conveyor and gearmotor are not included in the mounting package and must be ordered separately. Dimensions = in (mm)

For ordering information, see page 143

# 3200 SERIES: GEARMOTOR MOUNTING PACKAGES

## Side Mount Package, 90° Gearmotor

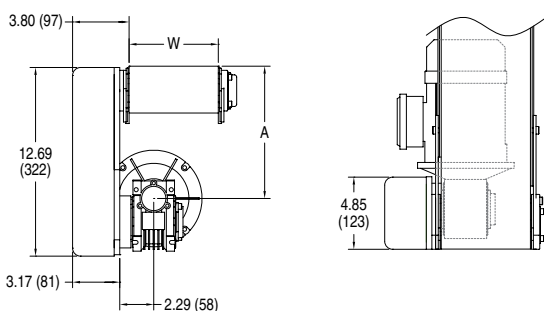


<b>A:</b> Standard Load = 5.26 (134)	<b>B:</b> Standard Load = 4.39 (111)	<b>C:</b> Standard Load = 0.46 (12)
Heavy Load = 6.18 (157)	Heavy Load = 4.90 (124)	Heavy Load = 0.07 (2)

- Includes gearmotor mounting bracket, 3-jaw flexible coupling, coupling guard and mounting hardware

W = Conveyor Belt Width

## Bottom Mount Package, 90° Gearmotor

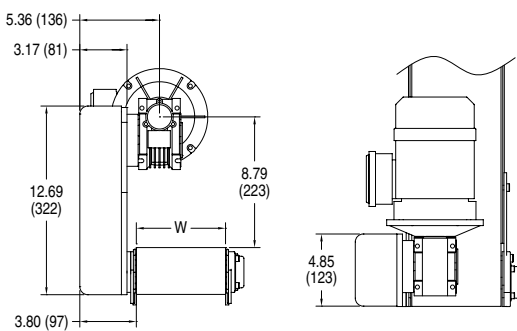


<b>A:</b> Flat Belt = 8.90 (226)
Cleated Belt = 10.47 (266)

- Includes gearmotor mounting bracket, timing belt, pulleys, guard and mounting hardware
- Conveyor belt speed can be adjusted with optional ratio pulley kits

W = Conveyor Belt Width

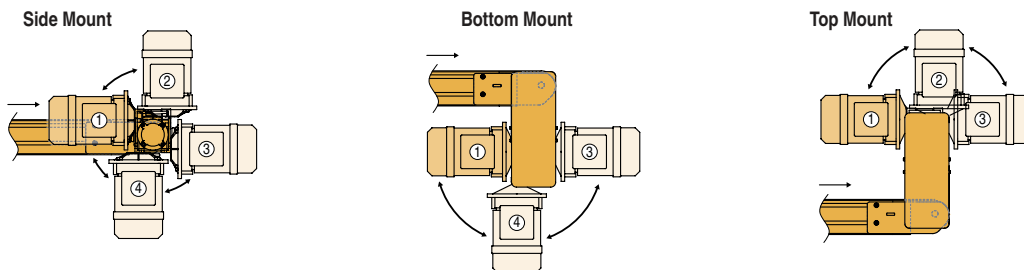
## Top Mount Package, 90° Gearmotor



- Includes gearmotor mounting bracket, timing belt, pulleys, guard and mounting hardware
- Conveyor belt speed can be adjusted with optional ratio pulley kits

W = Conveyor Belt Width

## 90° Gearmotor Location Options



Note: Conveyor and gearmotor are not included in the mounting package and must be ordered separately. Dimensions = in (mm)

For ordering information, see page 143



# 3200 SERIES: END DRIVE BELT SPEED CHARTS

Refer to the Gearmotor Selection Steps on page 111 for instructions on using the Belt Speed Charts.

Fixed Speed										
3200 Series		3200 Prec Move		RPM From Gearmotor	Mount Package		Pulley Kit		Gearmotor Chart	
Ft/min	m/min	Ft/min	m/min		Top & Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load
8	2.4	9	2.7	10	x	x	16	16		7
11	3.4	12	3.7	10	x		24	16		7
23	7.0	25	7.6	29	x	x	16	16	1	6, 7
34	10.4	37	11.3	43	x	x	16	16	1	6
37	11.3	40	12.2	47	x	x	16	16		21
46	14.0	50	15.3	58	x	x	16	16		7
52	15.9	57	17.4	43	x		24	16	1	6
69	21.0	75	22.9	86	x	x	16	16	1	6, 7
103	31.4	112	34.2	86	x		24	16	1	6, 7
107	33.0	117	36	134	x	x	16	16		21
137	41.8	150	45.8	173	x	x	16	16	1	6, 7
172	52.5	188	57.3	173	x		20	16	1	6, 7
206	62.8	225	68.6	173	x		24	16	1	6, 7
210	64.0	229	70	264	x	x	16	16		21
275	83.9	300	91.5	345	x	x	16	16		6, 7
343	104.6	375	114.4	345	x		20	16		6, 7
412	125.7	450	137.3	345	x		24	16		6, 7
<b>CE</b> Gearmotor RPM at 50 Hz.										
19	5.8	21	6.4	23*	x	x	16	16	2	8
28	8.5	31	9.5	35*	x	x	16	16	2	8
42	12.8	46	14.0	35*	x		24	16	2	8
56	17.1	61	18.6	70*	x	x	16	16	2	8
84	25.6	92	28.1	70*	x		24	16	2	8
111	33.9	121	36.9	140*	x	x	16	16	2	8
139	42.4	152	46.4	140*	x		20	16	2	8
167	50.9	182	55.5	140*	x		24	16	2	8
223	68.0	244	74.4	280*	x	x	16	16	2	8
279	85.1	305	93.0	280*	x		20	16	2	8
334	101.9	365	111.3	280*	x		24	16	2	8
382	116.5	417	127.2	280*	x		24	16	2	8

Note: Cleated Belts operate at maximum 280 ft/min (86 m/min)  
 Red = Parallel Shaft, Blue = 90°

Variable Speed												
3200 Series		3200 Prec Move		RPM From Gearmotor	Mount Package		Pulley Kit		Gearmotor Chart			
Ft/min	m/min	Ft/min	m/min		Top & Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load		
1.3 - 11	0.4 - 3.4	1.4 - 12	0.4 - 3.7	14	x	x	16	16		12		
2 - 17	0.6 - 5.2	2.2 - 18.6	0.7 - 5.7	14	x		24	16		12		
2.3 - 23	0.7 - 7	2.5 - 25.1	0.8 - 7.7	29	x	x	16	16	4	10, 13, 14		
3.4 - 34	1 - 10.4	3.7 - 37.1	1.1 - 11.3	43	x	x	16	16	4	10, 14		
4 - 33	1.2 - 10.1	4.4 - 36	1.3 - 11	42	x	x	16	16	3	9, 12		
4 - 37	1 - 11	4 - 40	1 - 12	47	x	x	16	16		22		
5 - 51	1.5 - 15.6	5.5 - 55.7	1.7 - 17	43	x		24	16	4	10, 14		
6 - 50	1.8 - 15.3	6.6 - 54.6	2 - 16.7	63	x	x	16	16	3	9		
7 - 68	2.1 - 20.7	7.6 - 74.3	2.3 - 22.6	86	x	x	16	16	4	10, 13, 14		
8 - 66	2.4 - 20.1	8.7 - 72.1	2.7 - 22	83	x	x	16	16		12		
9 - 75	3 - 23	10 - 82	3 - 25	63	x		24	16	3	9		
10 - 103	3 - 31	11 - 112	3 - 34	86	x		24	16	4	10, 13, 14		
11 - 107	3 - 33	12 - 117	4 - 36	134	x	x	16	16		22		
12 - 100	4 - 31	13 - 109	4 - 33	125	x	x	16	16	3	9, 12		
14 - 137	4 - 42	15 - 150	5 - 46	173	x	x	16	16	4	10, 13, 14		
18 - 150	5 - 46	20 - 164	6 - 50	125	x		24	16	3	9, 12		
21 - 206	6 - 63	23 - 225	7 - 69	173	x		24	16	4	10, 13, 14		
21 - 210	6 - 64	23 - 229	7 - 70	264	x	x	16	16		22		
24 - 200	7 - 61	26 - 218	8 - 67	250	x	x	16	16	3	9, 12		
27 - 275	8 - 84	29 - 300	9 - 92	345	x	x	16	16	4	10, 13, 14		
30 - 250	9 - 76	33 - 273	10 - 83	250	x		20	16	3	9, 12		
34 - 343	10 - 105	37 - 375	11 - 114	345	x		20	16	4	10, 13, 14		
36 - 300	11 - 92	39 - 328	12 - 100	250	x		24	16	3	9, 12		
41 - 412	13 - 126	45 - 450	14 - 137	345	x		24	16	4	10, 13, 14		
48 - 398	15 - 121	52 - 435	16 - 133	500	x	x	16	16		9		
<b>CE</b> RPM from 50 Hz. gearmotors. VFD drive at 63 max. Hz. output.												
9.3 - 23	2.8 - 7	10 - 25	3.1 - 7.7	23*	x	x	16	16	5	11		
13.9 - 35	4.2 - 10.7	15 - 38	4.6 - 11.7	35*	x	x	16	16	5	11		
20 - 53	6.1 - 16.2	22 - 58	6.7 - 17.7	35*	x		24	16	5	11		
28 - 70	8.5 - 21.4	31 - 76	9.3 - 23.3	70*	x	x	16	16	5	11		
42 - 105	12.8 - 32	46 - 115	14 - 35	70*	x		24	16	5	11		
55 - 140	17 - 43	60 - 153	18 - 47	140*	x	x	16	16	5	11		
69 - 176	21 - 54	75 - 192	23 - 59	140*	x		20	16	5	11		
84 - 210	26 - 64	92 - 229	28 - 70	140*	x		24	16	5	11		
111 - 280	34 - 85	121 - 306	37 - 93	280*	x	x	16	16		11		
139 - 351	42 - 107	152 - 383	46 - 117	280*	x		20	16		11		
167 - 421	51 - 128	182 - 460	56 - 140	280*	x		24	16		11		

# 3200 SERIES: CENTER DRIVE BELT SPEED CHARTS

## CENTER DRIVE PACKAGE SELECTION STEPS

- Step 1:** There is only one Mounting Package for 3200 & Z-Frame Center Drive Conveyors which uses a 90° Heavy Load gearmotor.
- Step 2:** Refer to the set of Belt Speed Charts to the right for Center Drive Mounting Package and choose between the **Fixed** or **Variable Speed** chart.
- Step 3:** Go down the first column of the Belt Speed Chart and locate the required **Belt Speed** for your application. If the desired belt speed is not listed, round up to the next higher speed.  
*(Dorner offers much more than just the belt speeds listed in the tables, contact the factory for complete details)*
- Step 4:** Note the **RPM from Gearmotor**, it will be needed to select the correct Gearmotor from the Gearmotor Chart.
- Step 5:** Reference the **Gearmotor Chart #** to locate a compatible Gearmotor Chart on pages 122-124. Be sure to select a Gearmotor that meets your electrical requirements.
- Step 6:** Using the **RPM from Gearmotor** (Step 4), locate the **Part Number** for your Gearmotor from the Gearmotor Table.

Fixed Speed			
Belt Speed		RPM From Gearmotor	Gearmotor Chart #
Ft/min	m/min		
21	6.4	13	<b>23</b>
28	8.4	17	<b>15</b>
35	10.5	22	<b>15</b>
46	14.0	29	<b>15</b>
55	16.8	35	<b>15</b>
61	18.0	38	<b>23</b>
69	21.0	43	<b>15</b>
92	28.0	58	<b>15</b>
110	33.7	70	<b>15</b>
138	42.1	86	<b>15</b>
170	52.0	106	<b>23</b>
184	56.1	115	<b>15</b>
276	84.1	173	<b>15</b>
321	98.0	201	<b>23</b>
368	112.2	230	<b>15</b>
<b>CE</b> Gearmotor RPM at 50 Hz.			
22	6.8	14*	<b>16</b>
50	15.2	31*	<b>16</b>
75	22.8	47*	<b>16</b>
149	45.5	93*	<b>16</b>
320	97.6	200*	<b>16</b>

Variable Speed			
Belt Speed		RPM From Gearmotor	Gearmotor Chart #
Ft/min	m/min		
2.8 - 28	0.8 - 8.4	17	<b>18, 19</b>
3.5 - 21	1 - 6.4	13	<b>24</b>
3.5 - 35	1.1 - 10.5	22	<b>18</b>
4 - 40	1.2 - 12.2	25	<b>17</b>
4.6 - 46	1.4 - 14.0	29	<b>18, 19</b>
5 - 50	1.5 - 15.2	31	<b>17</b>
5.5 - 55.2	1.7 - 16.8	35	<b>18</b>
6.7 - 66.7	2.0 - 20.3	42	<b>17</b>
6.9 - 69	2.1 - 21.0	43	<b>18, 19</b>
9.2 - 92	2.8 - 28.0	58	<b>18</b>
10 - 61	3 - 18	38	<b>24</b>
11 - 110.4	3.4 - 33.7	70	<b>18, 19</b>
13.8 - 138	4.2 - 42.1	86	<b>18, 19</b>
18.4 - 184	5.6 - 56.0	115	<b>18, 19</b>
27.6 - 276	8.4 - 84.1	173	<b>18</b>
28 - 170	9 - 52	106	<b>24</b>
53 - 321	16 - 98	201	<b>24</b>
36.8 - 368	11.2 - 112.2	230	<b>18</b>
<b>CE</b> RPM from 50 Hz. gearmotors, VFD drive at 63 max. Hz. output.			
2.2-22.4	0.7-6.8	14*	<b>20</b>

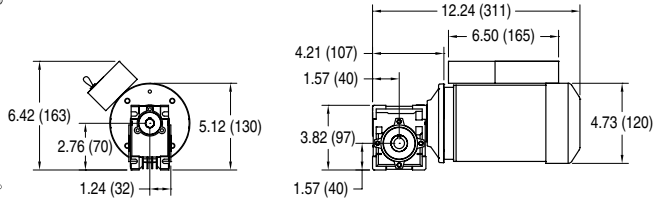
# 3200 SERIES: GEARMOTORS

## LIGHT LOAD, FIXED SPEED (For use on End Drive Conveyor Only)

**Chart 1** 90° (For use on side mount packages only)

- Sealed gearmotor
- NEMA 42 CZ C Face
- Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 208-230/460V 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 127

**eDrive®**



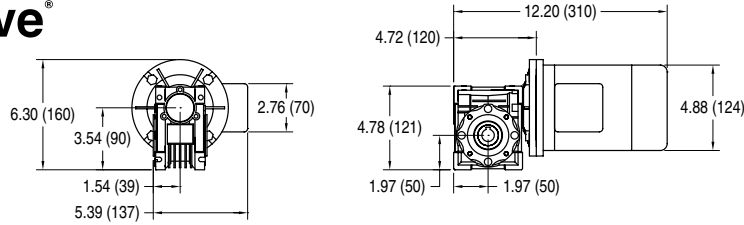
Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm	3 Phase Starter Chart
			Hp	kW	FLA	Hp	kW	FLA			
32M060EL4(vp)FN	29	L	0.25	0.19	5	0.25	0.19	1.2 / 0.6	226	25.5	L
32M040EL4(vp)FN	43	L	0.25	0.19	5	0.25	0.19	1.2 / 0.6	237	26.8	L
32M020EL4(vp)FN	86	L	0.25	0.19	5	0.25	0.19	1.2 / 0.6	142	16.0	L
32M010EL4(vp)FN	173	L	0.25	0.19	5	0.25	0.19	1.2 / 0.6	78	18.8	L

(vp) = Voltage and Phase 11 = 115V, 1 phase 23 = 208 - 230 / 460V, 3 phase

**Chart 2** CE 90° (For use on side mount packages only)

- Sealed gearmotor
- Totally enclosed, fan cooled
- IEC 63 B5 C Face
- IP 55 Protection Rating
- 50 Hz
- Order starter separately, see page 127

**eDrive®**



Part Number	RPM	Gearmotor Type	1Ph kW	1 Ph FLA	3Ph kW	3 Ph FLA	Nm	Starter Chart
62Z060ES4(vp)FN	23	L	0.18	1.6	0.18	1.4 / 0.8	26.4	I
62Z040ES4(vp)FN	35	L	0.18	1.6	0.18	1.4 / 0.8	28.9	I
62Z020ES4(vp)FN	70	L	0.18	1.6	0.18	1.4 / 0.8	19.4	I
62Z010ES4(vp)FN	140	L	0.18	1.6	0.18	1.4 / 0.8	10.7	I
62Z005ES4(vp)FN	280	L	0.18	1.6	0.18	1.4 / 0.8	5.6	I

(vp) = Voltage and Phase  
 21 = 230V, 1 phase  
 23 = 230V, 3 phase  
 43 = 400V, 3 phase

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA** = Full Load Amperes

**Note:** Z-Frame Conveyors are not reversible

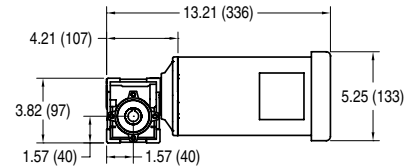
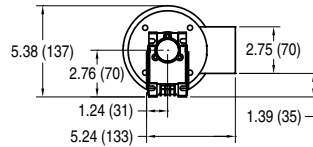
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

## LIGHT LOAD, VARIABLE SPEED (For use on End Drive Conveyor Only)

### Chart 3

90° (For use on side mount packages only)

- 130 Volts DC
- NEMA 42 CZ C Face
- Totally enclosed, fan cooled
- 300 - 2500 RPM motor
- Order controller separately, see page 125

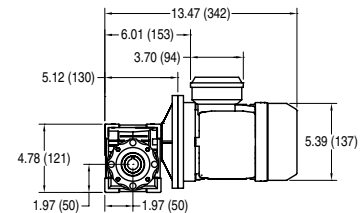
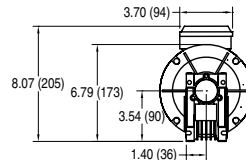


Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari-Speed Control Chart
22M060ESD3DEN	42	L	0.33	0.25	2.3	198	22.4	A
22M040ESD3DEN	63	L	0.33	0.25	2.3	163	18.4	A
22M020ESD3DEN	125	L	0.33	0.25	2.3	98	11.1	A
22M010ESD3DEN	250	L	0.33	0.25	2.3	54	6.1	A

### Chart 4

90° (For use on side mount packages only)

- Variable frequency drive, 6 - 60 Hz
- Sealed gearmotor
- NEMA 56C C Face
- Totally enclosed, fan cooled
- 230/460 Volts, 3 phase
- Order controller separately, see page 126



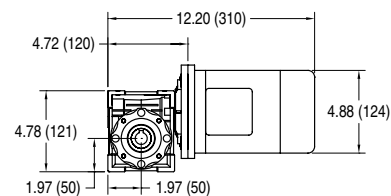
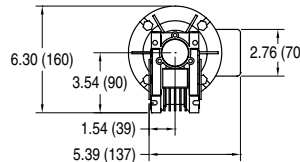
Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.*	Nm	Vari-Speed Control Chart
32M060EL423EN	29	K	0.5**	0.19	1.6 / 0.97	226	25.5	D and E
32M040EL423EN	43	K	0.5**	0.19	1.6 / 0.97	237	86.8	D and E
32M020EL423EN	86	K	0.5**	0.19	1.6 / 0.97	142	16.0	D and E
32M010EL423EN	173	K	0.5**	0.19	1.6 / 0.97	78	8.8	D and E
32M005EL423EN	345	K	0.5**	0.19	1.6 / 0.97	41	4.6	D and E

\* = At 60 Hz \*\* = Motor de-rated to 0.25 Hp for full torque throughout speed range.

### Chart 5

CE 90° (For use on side mount packages only)

- Variable frequency drive, 25 - 63 Hz
- Sealed gearmotor
- IEC 63 B5 C face
- IP 55 protection rating
- Totally enclosed, fan cooled
- 230/400 Volts, 3 phase
- Order controller separately, see page 125



Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm*	Vari-Speed Control Chart
62Z060ES423EN	23	L	0.18	1.4	26.4	B
62Z040ES423EN	35	L	0.18	1.4	28.9	B
62Z020ES423EN	70	L	0.18	1.4	19.4	B
62Z010ES423EN	140	L	0.18	1.4	10.7	B

\* = At 50 Hz

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA** = Full Load Amperes **Note:** Z-Frame Conveyors are not reversible  
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

# 3200 SERIES: GEARMOTORS

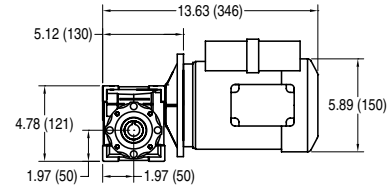
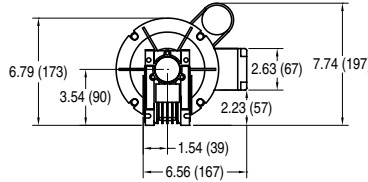
## STANDARD LOAD, FIXED SPEED (For use on End Drive Conveyor Only)

**Chart 6**

90°

- Sealed gearmotors
- NEMA 56 C face
- Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 208-230/460V 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 127

**eDrive®**



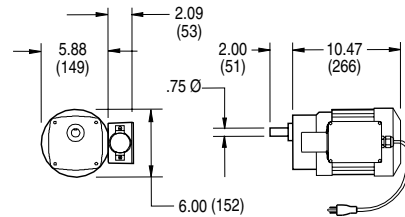
Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm	Vari-Speed Control Chart
			Hp	kW	FLA	Hp	kW	FLA			
32M060ES4(vp)FN	29	S	0.5	0.37	7.4	0.5	0.37	2.1-2 / 1.0	226	25.5	M
32M040ES4(vp)FN	43	S	0.5	0.37	7.4	0.5	0.37	2.1-2 / 1.0	247	27.9	M
32M020ES4(vp)FN	86	S	0.5	0.37	7.4	0.5	0.37	2.1-2 / 1.0	248	27.9	M
32M010ES4(vp)FN	173	S	0.5	0.37	7.4	0.5	0.37	2.1-2 / 1.0	156	17.6	M
32M005ES4(vp)FN	345	S	0.5	0.37	7.4	0.5	0.37	2.1-2 / 1.0	81	9.1	M

(vp) = Voltage and Phase 11 = 115V, 1 phase 23 = 208 - 230 / 460V, 3 phase

**Chart 7**

Parallel Shaft

- Sealed gearmotor
- Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 230V 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 127



Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm	Vari-Speed Control Chart
			Hp	kW	FLA	Hp	kW	FLA			
62M180PS4(vp)F(n)	10	S	0.08	0.06	1.2	.17	0.13	1.0	341	38.5	L
62M060PS4(vp)F(n)	29	S	0.17	0.13	1.9	.17	0.13	1.0	270	30.5	L
(x)2M030PS4(vp)F(n)	58	S	0.33	0.25	4	.38	0.28	1.9	250	28.3	M
(x)2M020PS4(vp)F(n)	86	S	0.33	0.25	4	.38	0.28	1.9	167	18.9	M
(x)2M010PS4(vp)F(n)	173	S	0.33	0.25	4	.38	0.28	1.9	108	12.2	M
(x)2M005PS4(vp)F(n)	345	S	0.33	0.25	4	.38	0.28	1.9	56	6.3	M

(vp) = Voltage and Phase 11 = 115V, 1 phase 23 = 208 - 230 / 460V, 3 phase (n) = Reversing Capability  
 N = No reversing switch R = With reversing switch (115V, 1 phase only) (x) = 3 for 1 phase, 6 for 3 phase

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

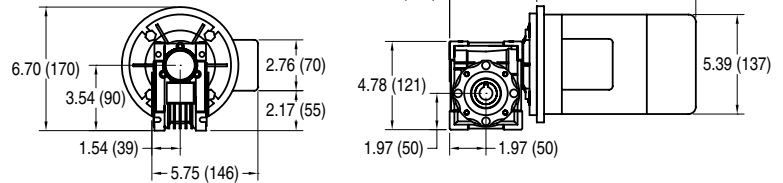
## STANDARD LOAD, FIXED SPEED (For use on End Drive Conveyor Only)

**Chart 8**

CE 90°

- Sealed gearmotor
- IEC 71 B5 C face for 0.37 kW Motor
- IEC 63 B5 C face for 0.18 kW Motor
- IP55 protection rating
- Order starter separately, see page 127
- Totally enclosed, fan cooled
- Non-reversible
- 50 Hz

**eDrive®**



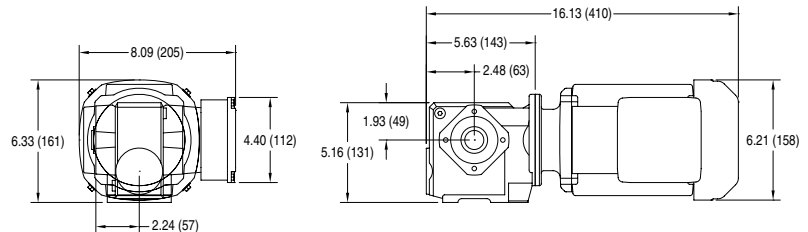
Part Number	RPM	Gearmotor Type	1Ph kW	1 Ph FLA	3 Ph kW	3 Ph FLA	Nm	Starter Chart
62Z060ES4(vp)FN	23	L	0.18	1.6	0.18	1.4 / 0.8	26.8	I
62Z040ES4(vp)FN	35	L	0.18	1.6	0.18	1.4 / 0.8	29.4	I
32Z020ES4(vp)FN	70	S	0.37	2.6	0.37	2.1 / 1.2	29.9	J
32Z010ES4(vp)FN	140	S	0.37	2.6	0.37	2.1 / 1.2	21.5	J
32Z005ES4(vp)FN	280	S	0.37	2.6	0.37	2.1 / 1.2	11.2	J

(vp) = Voltage and Phase 21 = 230V, 1 phase 23 = 230V / 460V, 3 phase 43 = 400V, 3 phase

**Chart 21**

90°

- SEW SA37 Gearmotor
- Bottom and side mount packages available
- 230 / 460 V 3 Phase
- VFD Compatible with constant torque from 10 to 60 Hz
- Sealed gear head, totally enclosed fan cooled motor



Part Number	RPM*	Gearmotor Type	Hp	kW	FLA	in-lbs	Nm	Starter Chart
32M038WS423EN	47	W	0.50	0.37	1.84 / 0.92	548	61.9	M
32M013WS423EN	134	W	0.75	0.56	2.50 / 1.25	327	37.0	M
32M007WS423EN	264	W	1.00	0.75	2.90 / 1.44	221	25.0	P

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** **Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

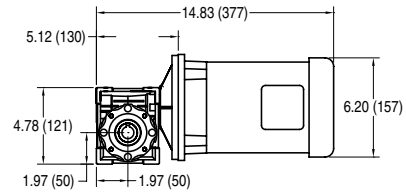
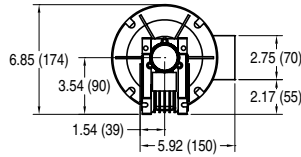
# 3200 SERIES: GEARMOTORS

## STANDARD LOAD, VARIABLE SPEED (For use on End Drive Conveyor Only)

**Chart 9**

90°

- 90V DC
- Sealed gearmotor
- NEMA 56 C Face
- Totally enclosed, fan cooled
- Order controller separately, see page 125

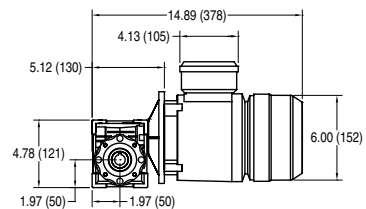
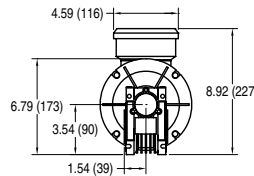


Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari-Speed Control Chart
32M060ESD9DEN	42	S	0.5	0.37	5.0	198	22.4	C
32M040ESD9DEN	63	S	0.5	0.37	5.0	215	24.3	C
32M020ESD9DEN	125	S	0.5	0.37	5.0	196	22.1	C
62M010EHD9DEN	250	S	0.75	0.5	7.5	108	12.2	C
62M005EHD9DEN	500	S	0.75	0.5	7.5	56	6.3	C

**Chart 10**

90°

- Variable frequency drive, 6 - 60 Hz
- Sealed gearmotor
- NEMA 56 C Face
- Totally enclosed, fan cooled
- 230/460 Volts, 3 Phase
- Order controller separately, see page 126



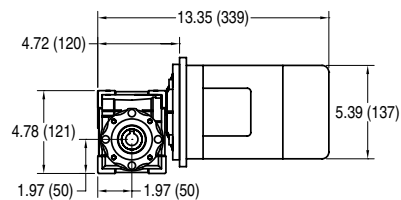
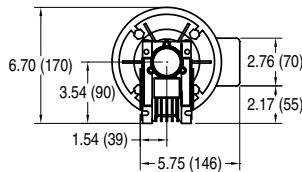
Part Number	RPM*	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari-Speed Control Chart
32M060ES423EN	29	S	0.75**	0.55	2.6 / 1.3	226	25.5	D and E
32M040ES423EN	43	S	0.75**	0.55	2.6 / 1.3	247	27.9	D and E
32M020ES423EN	86	S	0.75**	0.55	2.6 / 1.3	248	27.9	D and E
32M010ES423EN	173	S	0.75**	0.55	2.6 / 1.3	156	17.6	D and E
32M005ES423EN	345	S	0.75**	0.55	2.6 / 1.3	81	9.1	D and E

\* = At 60 Hz      \*\* = Motor is de-rated to 0.5 Hp (2.2 / 1.1 amp) for full torque throughout the speed range.

**Chart 11**

CE 90°

- Variable frequency drive, 25 - 63 Hz
- Sealed gearmotor
- IEC 63 B5 C face for 0.18 kW Motor
- IEC 71 B5 C face for 0.37 kW Motor
- IP 55 protection rating
- Totally enclosed, fan cooled
- 230/400 Volts, 3 Phase
- Order controller separately, see page 125



Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm*	Vari-Speed Control Chart
62Z060ES423EN	23	L	0.18	1.4 / 0.8	26.8	B
62Z040ES423EN	35	L	0.18	1.4 / 0.8	29.4	B
32Z020ES423EN	70	S	0.37	2.1 / 1.2	29.9	B
32Z010ES423EN	140	S	0.37	2.1 / 1.2	21.5	B
32Z005ES423EN	280	S	0.37	2.1 / 1.2	11.2	B

\* = At 50 Hz

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes      Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

## STANDARD LOAD, VARIABLE SPEED (For use on End Drive Conveyor Only)

**Chart 12** Parallel Shaft

- 130 Volts DC
- Sealed gearmotor
- Totally enclosed, non-ventilated
- 300 - 2500 RPM motor
- Order controller separately, see page 125

Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari-Speed Control Chart
62M180PSD3DEN	14	S	0.12	0.09	1.0	341	38.5	A
62M060PSD3DEN	42	S	0.25	0.19	1.8	270	30.5	A
62M030PSD3DEN	83	S	0.25	0.19	1.8	135	15.3	A
62M020PSD3DEN	125	S	0.25	0.19	1.8	90	10.2	A
62M010PSD3DEN	250	S	0.33	0.25	2.3	72	8.1	A

**Chart 13** Parallel Shaft

- Variable frequency drive, 10 to 60 Hz
- Sealed gearmotor
- Totally enclosed, fan cooled
- 230 Volts / 3 Phase, VFD duty
- Order controller separately, see page 126

Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari-Speed Control Chart
62M180PS423EN	10	S	0.17	0.13	1.0	341	38.5	D and E
62M060PS423EN	29	S	0.17	0.13	1.0	270	30.5	D and E
62M030PS423EN	58	S	0.38	0.28	1.9	250	28.3	D and E
62M020PS423EN	86	S	0.38	0.28	1.9	167	18.9	D and E
62M010PS423EN	173	S	0.38	0.28	1.9	115	13.0	D and E
62M005PS423EN	345	S	0.38	0.28	1.9	58	6.5	D and E

**Chart 22** 90°

- SEW SA37 Gearmotor
- Bottom and side mount packages available
- 230 / 460 V 3 Phase
- VFD Compatible with constant torque from 10 to 60 Hz
- Sealed gear head, totally enclosed fan cooled motor

Part Number	RPM*	Gearmotor Type	Hp	kW	FLA	in.-lbs	Nm	Vari-Speed Control Chart
32M038WS423EN	47	W	0.50	0.37	1.84 / 0.92	548	61.9	D and E
32M013WS423EN	134	W	0.75	0.56	2.50 / 1.25	327	37.0	D
32M007WS423EN	264	W	1.00	0.75	2.90 / 1.44	221	25.0	D

FLA = Full Load Amperes **Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)



# 3200 SERIES: GEARMOTORS

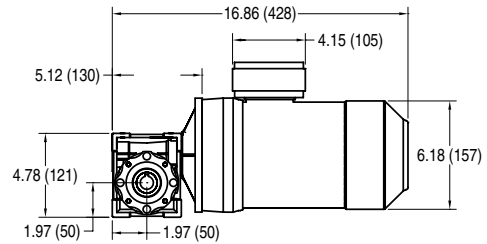
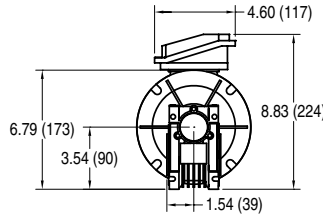
## HEAVY LOAD, FIXED SPEED

Chart 15

90°

- NEMA 56 C face for .5 & 1 Hp
- NEMA 145TC C face for 1.5 Hp
- NEMA 145TC C face for 2 Hp
- Totally enclosed, fan cooled
- 115V, 1 Phase includes switch, cord and overload protection
- 208 - 230/460 V, 3 Phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 127

eDrive®

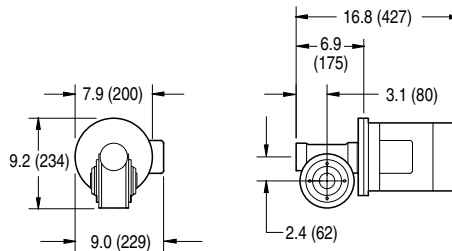


Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm	3 Phase Starter Chart
			Hp	kW	FLA	Hp	kW	FLA			
32M100EH4(vp)FN	17	H	0.5	0.37	8.0	0.5	0.37	2.0 / 1.0	913	103	M
32M080EH4(vp)FN	22	H	0.5	0.37	8.0	0.5	0.37	2.0 / 1.0	833	94	M
32M060EH4(vp)FN	29	H	0.5	0.37	8.0	0.5	0.37	2.0 / 1.0	679	76	M
32M050EH423FN	35	H	n/a	n/a	n/a	1.0	0.74	3.4 / 1.7	1205	136	P
32M040EH423FN	43	H	n/a	n/a	n/a	1.0	0.74	3.4 / 1.7	1023	115	P
32M030EH423FN	58	H	n/a	n/a	n/a	1.5	1.11	5.0 / 2.5	1216	137	Q
32M025EH423FN	70	H	n/a	n/a	n/a	1.5	1.11	5.0 / 2.5	1068	121	Q
32M020EH423FN	86	H	n/a	n/a	n/a	2.0	1.49	6.2 / 3.1	1183	134	Q
32M015EH423FN	115	H	n/a	n/a	n/a	2.0	1.49	6.2 / 3.1	909	103	Q
32M010EH423FN	173	H	n/a	n/a	n/a	2.0	1.49	6.2 / 3.1	636	72	Q
32M008EH423FN	230	H	n/a	n/a	n/a	2.0	1.49	6.2 / 3.1	482	54	Q

Chart 16

CE 90°

- Sealed gearmotor
- IEC 71 B5 C face for .37 KW
- IEC 80 B5 C face for .55 KW
- IEC 90 B5 C face for 1.1 KW
- IP55 protection rating
- Totally enclosed, fan cooled
- 50 Hz
- Order starter separately, see page 127



**CE Note:**

When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm	Starter Chart
32Z100HH4(vp)FN	14	H	0.37	2.1 / 1.2	113	J
32Z045HH4(vp)FN	31	H	0.55	2.6 / 1.5	110	R
32Z030HH4(vp)FN	47	H	0.55	2.6 / 1.5	81	R
32Z015HH4(vp)FN	93	H	1.10	4.7 / 2.7	92	K
32Z007HH4(vp)FN	200	H	1.10	4.7 / 2.7	46	K

(vp) = Voltage and Phase 23 = 230V, 3 phase 43 = 430V, 3 phase

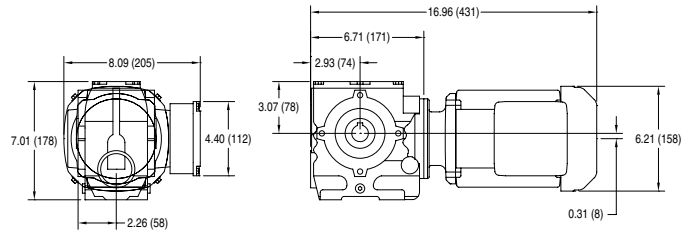
**FLA = Full Load Amperes** **Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

## HEAVY LOAD, FIXED SPEED

**Chart 23** 90°

- SEW SA47 Gearmotor
- Center mount packages only
- 230 / 460 V 3 Phase
- VFD Compatible with constant torque from 10 to 60 Hz
- Sealed gear head, totally enclosed fan cooled motor
- Belt speeds available = 22 to 319 ft/min



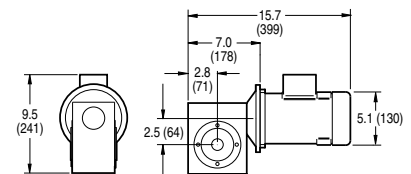
Part Number	RPM*	Gearmotor Type	Hp	kW	FLA	in.-lbs	Nm	Starter Chart
32M128WH423EN*	13	W	0.33	0.25	1.14 / 0.57	991	112.0	L
32M044WH423EN*	38	W	0.75	0.56	2.50 / 1.25	973	109.9	M
32M016WH423EN*	106	W	1.50	1.12	4.50 / 2.25	787	88.9	Q
32M008WH423EN*	201	W	2.00	1.49	5.70 / 2.85	575	65.0	Q

\* 20 day lead time required

## HEAVY LOAD, VARIABLE SPEED

**Chart 17** 90°

- 90 VDC
- Sealed gearmotor
- NEMA 56C C face
- Totally enclosed, fan cooled
- 2500 RPM motor
- Order controller separately, see page 125

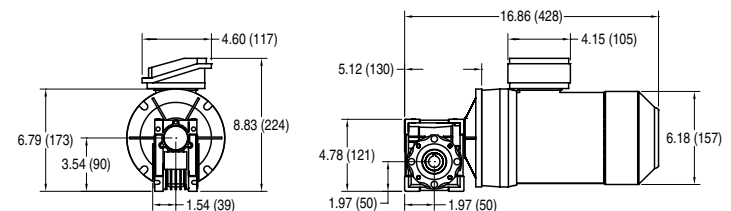


Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari-Speed Control Chart
32M100HHD9DEN	25	H	0.5	0.37	5.0	630	71	C
32M080HHD9DEN	31	H	0.5	0.37	5.0	574	65	C
32M060HHD9DEN	42	H	0.5	0.37	5.0	468	53	C
32M050HHD9DEN	50	H	0.75	0.50	7.5	624	70	C
32M040HHD9DEN	63	H	0.75	0.50	7.5	529	60	C

**Chart 18** 90°

- Variable frequency drive, 15 - 60 Hz
- NEMA 56 C face for .5 Hp + 1 Hp
- NEMA 145TC C face for 1.5 + 2 Hp
- Totally enclosed, fan cooled
- 230/460 Volts, 3 phase
- Order controller separately, see page 126

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Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.*	Nm*	Vari-Speed Control Chart
32M100HH423EN	17	H	0.5	0.37	1.6 / 0.8	913	103	D or E
32M080HH423EN	22	H	0.5	0.37	1.6 / 0.8	833	94	D or E
32M060HH423EN	29	H	0.5	0.37	1.6 / 0.8	679	76	D or E
32M050HH423EN	35	H	1.0	0.74	3.2 / 1.6	1205	136	D
32M040HH423EN	43	H	1.0	0.74	3.2 / 1.6	1023	115	D
32M030HH423EN	58	H	1.5	1.11	4.2 / 2.1	1216	137	D
32M025HH423EN	70	H	1.5	1.11	4.2 / 2.1	1068	121	D
32M020HH423EN	86	H	2.0	1.49	5.0 / 2.5	1183	134	D
32M015HH423EN	115	H	2.0	1.49	5.0 / 2.5	909	103	D
32M010HH423EN	173	H	2.0	1.49	5.0 / 2.5	636	72	D
32M008HH423EN	230	H	2.0	1.49	5.0 / 2.5	482	54	D

\* = At 60 Hz

**FLA** = Full Load Amperes **Note:** Z-Frame Conveyors are not reversible

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

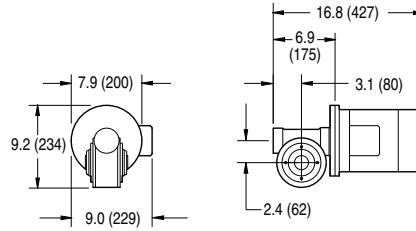
# 3200 SERIES: GEARMOTORS

## HEAVY LOAD, VARIABLE SPEED

Chart 20

CE 90°

- Variable frequency drive, 25 - 63 Hz
- Sealed gearmotor
- IEC 71 B5 C Face
- IP 55 protection rating
- Totally enclosed, fan cooled
- 230/400 Volts, 3 Phase
- Order controller separately, see page 125



**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

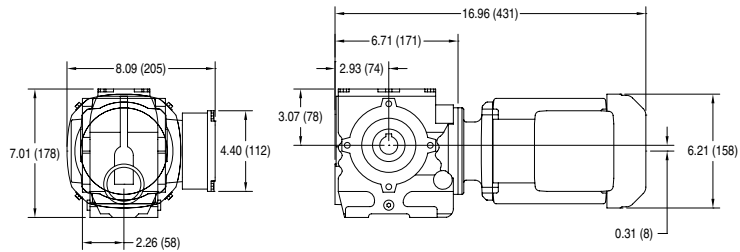
Part Number	RPM*	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm*	Vari-Speed Control Chart
32Z100HH423EN	14	H	0.37	2.1 / 1.2	113	B
32Z045HH423EN	31	H	0.55	2.6 / 1.5	110	B
32Z030HH423EN	47	H	0.55	2.6 / 1.5	81	B

\* = At 50 Hz

Chart 24

90°

- SEW SA47 Gearmotor
- Center mount packages only
- 230 / 460 V 3 Phase
- VFD Compatible with constant torque from 10 to 60 Hz
- Sealed gear head, totally enclosed fan cooled motor
- Belt speeds available = 22 to 319 ft/min



Part Number	RPM*	Gearmotor Type	Hp	kW	FLA	in-lbs	Nm	Vari-Speed Control Chart
32M128WH423EN*	13	W	0.33	0.25	1.14 / 0.57	991	112.0	D or E
32M044WH423EN*	38	W	0.75	0.56	2.50 / 1.25	973	109.9	D
32M016WH423EN*	106	W	1.50	1.12	4.50 / 2.25	787	88.9	D
32M008WH423EN*	201	W	2.00	1.49	5.70 / 2.85	575	65.0	D

\* 20 day lead time required

**FLA = Full Load Amperes** **Note:** Z-Frame Conveyors are not reversible

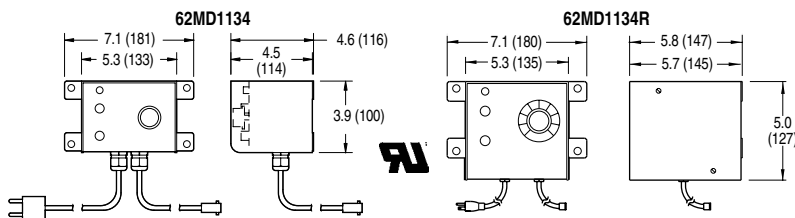
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

# 3200 SERIES: VARIABLE SPEED CONTROLLERS

## VARIABLE SPEED CONTROLLERS

### Chart A

- PWM DC control
- Nema 1 enclosure
- Line cord and motor cord
- On/Off switch for 62MD1134
- Forward/Off/Reverse switch for 62MD1134R
- Speed potentiometer
- Mounting hardware

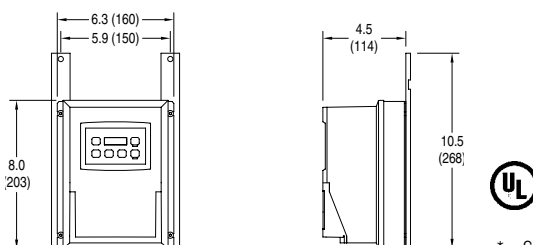


Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Max Amps*	Reversing
62MD1134	115	1	60	130VDC	3.2	No
62MD1134R	115	1	60	130VDC	5.0	Yes

### Chart B



- VFD control
- IP 65 enclosure
- EMC filter
- Variable speed
- Mounting hardware
- Line cord and motor cord
- Motor cord only on 460V

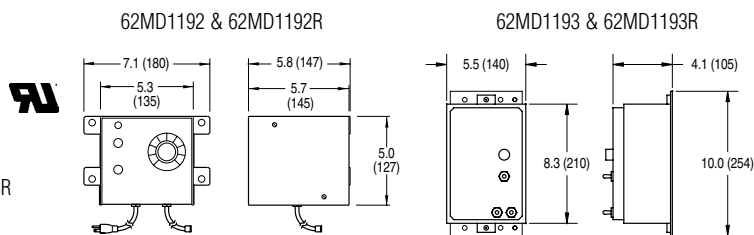


\* = See FLA from motor charts

Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Kw*	Max Amps	Reversing
62UV2121	230	1	50	230	3	0.75	4.2	Yes
62UV4341	400	3	50	400	3	0.75	2.1	Yes
62UV2127	230	1	50	230	3	1.50	6.8	Yes
62UV4347	400	3	50	400	3	1.50	3.4	Yes

### Chart C

- PWM DC control
- NEMA 1 enclosure
- Line cord and motor cord
- On/Off switch for 62MD1192 and 62MD1193
- Forward/Off/Reverse switch for 62MD1192R and 62MD1193R
- Speed potentiometer
- Mounting hardware



\* = See FLA from motor charts

Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Max Amps*	Reversing
62MD1192	115	1	60	90VDC	5.0	No
62MD1192R	115	1	60	90VDC	5.0	Yes
62MD1193	115	1	60	90VDC	7.5	No
62MD1193R	115	1	60	90VDC	7.5	Yes

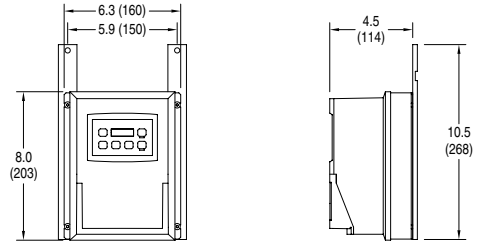
Note: Dimensions = in (mm)

# 3200 SERIES: VARIABLE SPEED CONTROLLERS

## VARIABLE SPEED CONTROLLERS

### Chart D

- Full feature VFD control
- NEMA 4 enclosure
- Digital display
- Keypad with Start/Stop, Forward/Reverse and speed variations
- Includes cord to motor
- Power to controller by others
- 62MV1122 includes line cord to controller
- Mounting hardware

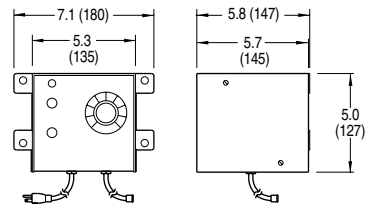


\* = See FLA from motor charts

Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Hp	Output Amps*	Reversing
32MV1122	115	1	60	230	3	0.5	2.2	Yes
32MV2122	230	1	60	230	3	0.5	2.2	Yes
32MV1121	115	1	60	230	3	1.0	4.0	Yes
32MV2121	230	1	60	230	3	1.0	4.0	Yes
32MV2127	230	1	60	230	3	2.0	6.8	Yes
32MV2322	230	3	60	230	3	0.5	2.2	Yes
32MV2327	230	3	60	230	3	2.0	6.8	Yes
32MV4341	460	3	60	460	3	1.0	2.0	Yes
32MV4347	460	3	60	460	3	2.0	3.4	Yes

### Chart E

- VFD control
- Nema 1 enclosure
- Line cord and motor cord
- On/Off switch
- Speed potentiometer
- Mounting hardware
- Forward/Reverse switch



\* = See FLA from motor charts

Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Hp	Max Amps*	Reversing
62MV1122B	115	1	60	230	3	0.5	2.4	No
62MV1122BR	115	1	60	230	3	0.5	2.4	Yes

Note: Dimensions = in (mm)

## MANUAL MOTOR STARTERS

Manual motor starts are manual electronic disconnects that provide motor overload protection and are required by the National Electric Code (NEC) for safe motor operation.

- IP 55 Enclosure
- Push button Start / Stop
- Includes mounting hardware



Illustration A

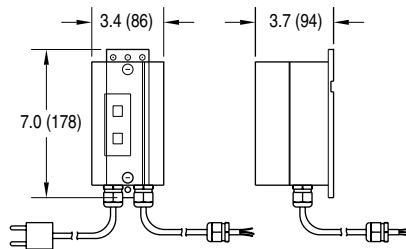


Illustration B

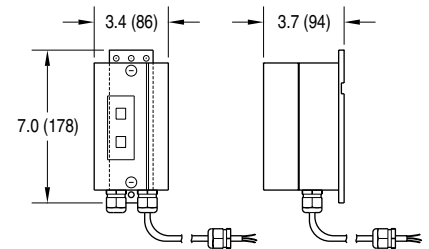


Chart I CE

- 230 Volts, 1 phase includes cord, plug and starter
- 230/400 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21T	230	1	1.6 - 2.5	A
62(c)M23T	230	3	1.0 - 1.6	B
62(c)M43T	400	3	0.63 - 1.0	B

Chart J CE

- 230 Volts, 1 phase includes cord, plug and starter
- 230/400V, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21J	230	1	2.5 - 4.0	A
62(c)M23J	230	3	1.6 - 2.5	B
62(c)M43J	400	3	1.0 - 1.6	B

Chart K CE

- 230/400 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M23K	230	3	4.0 - 6.3	B
62(c)M43K	400	3	2.5 - 4.0	B

Chart L

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23L	230	3	1.0 - 1.6	B
62MM43L	460	3	0.4 - .63	B

Chart M

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23M	208 - 230	3	1.6 - 2.5	B
62MM43M	460	3	1.0 - 1.6	B

Chart P

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23U	208 - 230	3	2.5 - 4.0	B
62MM43P	460	3	1.6 - 2.5	B

Chart Q

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23Q	208 - 230	3	4.0 - 6.3	B
62MM43Q	460	3	2.5 - 4.0	B

Chart R CE

- 230/400 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M23R	230	3	2.5 - 4.0	B
62(c)M43R	400	3	1.0 - 1.6	B

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with NEC and CE safety directive.

(c) = Electrical Configuration G = CE German  
F = CE French U = CE Great Britain

Note: Dimensions = in (mm)

# 3200 SERIES: SUPPORT STANDS

## QUANTITY CHARTS

3200 Series	
Conveyor Length	Number of Supports
3' (914) - 13' (3,962)	2
14' (4,267) - 25' (7,620)	3
26' (7,925) - 37' (11,278)	4
38' (11,592) - 49' (14,932)	5
50' (15,240) - 61' (18,593)	6
62' (18,898) - 73' (22,250)	7
74' (22,555) - 85' (25,908)	8
86' (26,213) - 97' (29,506)	9
98' (29,870) - 99' (30,175)	10

Z-Frame Flat Belt Conveyors		
Nose-over and Walk-Thru Conveyors		
Section Length	Number of Supports per Section	
	Section L2	Sections L1 & L3
2' to 13'	2	1
14' to 25'	3	2
26' to 37'	4	3
38' to 49'	5	4
50' to 61'	6	5
62' to 73'	7	6
74' to 85'	8	7
86' to 97'	9	8

Z-Frame Cleated Belt Conveyors	
Horizontal to Incline and Nose-over	
Total Conveyor Length	Number of Supports
4' and 5'	2
5' to 25'	3

Z-Frame Cleated Belt Conveyors	
Z-Frame	
Total Conveyor Length	Number of Supports
6' to 9'	3
10' to 25'	4

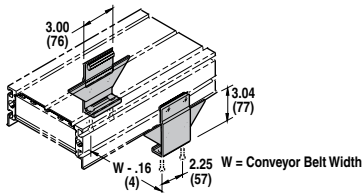
3200 & Z-Frame (per section) Required Return Roller					
max feet between return rollers					
Conveyor Width	3.75" - 10"	12" - 20"	22" - 30"	32" - 40"	40" - 48"
Flat Belt	8	7	6	5	4
Cleated Belt	6	5	4	n/a	n/a

Quantity of return rollers required =  $\frac{\text{whole number conveyor length in feet}}{\text{result of: max distance between return rollers}}$

**Example Description:** 3200 cleated belt 18" wide x 21' long  $\frac{21'}{5} = 4.2$  **4 return rollers required**

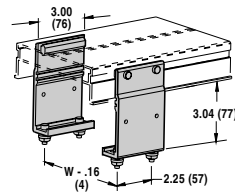
## MOUNTING BRACKETS

### Cleated Stand Mounting Bracket



Part Number	Description
240838	Stand Mounting Bracket, Cleated Belt Conveyor

### Flat Belt Stand Mounting Bracket

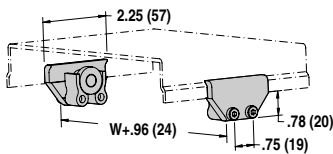


Part Number	Description
240839	Stand Mounting Bracket, Flat Belt Conveyor

**Note:** Conveyors can be ordered with the required number of mounting brackets. If desired, order additional mounting brackets separately.

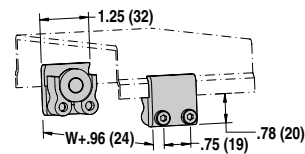
## RETURN ROLLERS

### Cleated Belt Return Roller



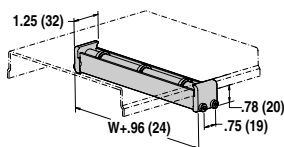
Part Number	Description
240832	Return Roller for Cleated Belt conveyors

### Flat Belt Return Roller for 2" to 6" Wide Conveyors



Part Number	Description
240830	Return Roller for 2" - 6" (44 mm - 152 mm) wide Flat Belt conveyors

### Flat Belt Return Roller for 8" to 48" Wide Conveyors



Part Number	Description
3249WW	Return Roller for 3200 Series 8" (203 mm) to 48" (1,219 mm) wide Flat Belt Conveyor

Note: Dimensions = in (mm)

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

## FIXED HEIGHT SUPPORT STANDS

### Fixed Foot Model

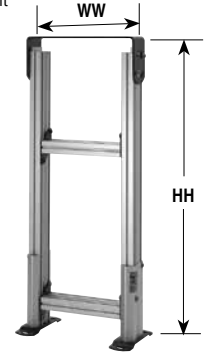
Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	15" - 19" (381 - 483mm)	in 1" (25mm) increments up to...	95" - 99" (2,413 - 2,515mm)
Part # Reference	1519	in 0101 increments up to...	9599

### Swivel Locking Caster Model

Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	20" - 24" (508 - 610mm)	in 1" (25mm) increments up to...	68" - 72" (1,727 - 1,829mm)
Part # Reference	2024	in 0101 increments up to...	6872

- Metric fasteners
- 4" (102mm) Height Adjustment

\* Dependent on stand width, stands over 42" (1,067 mm) may include outriggers (see page 131)



Full width is top plate on 12" wide stands only

## ADJUSTABLE HEIGHT SUPPORT STANDS

### Fixed Foot Model

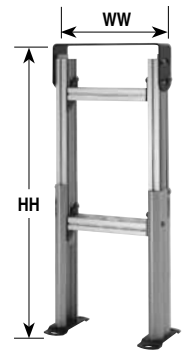
Stand Width (WW)	12" (305mm)			2" (51mm) increments up to...				48" (1,219mm)			
Part # Reference	12			in 02 increments up to...				48			
Stand Height (HH)	12-13" (305-330)	13-15" (330-381)	14-17" (356-432)	16-21" (406-660)	19-26" (483-686)	24-36" (610-914)	30-48" (762-1,219)	42-60"* (1,067-1,524)	54-72"* (1,372-1,829)	66-84"* (1,676-2,134)	78-96"* (1,981-2,438)
Part # Reference	1213	1315	1417	1621	1926	2436	3048	4260	5472	6684	7896

### Swivel Locking Caster Model

Stand Width (WW)	12" (305mm)			2" (51mm) increments up to...				48" (1,219mm)			
Part # Reference	12			in 02 increments up to...				48			
Stand Height (HH)	17-18" (432-457)	18-20" (457-508)	19-22" (483-559)	21-26" (533-660)	24-31" (610-787)	29-41" (737-1,041)	35-53" (762-1,346)	47-65"* (1,194-1,651)	59-77"* (1,499-1,956)		
Part # Reference	1718	1820	1922	2126	2431	2941	3553	4765	5977		

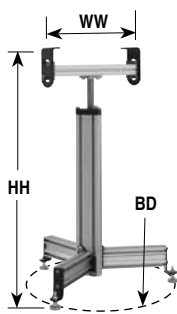
- Metric fasteners

\* Dependent on stand width, stands over 42" (1,067 mm) may include outriggers (see page 131)

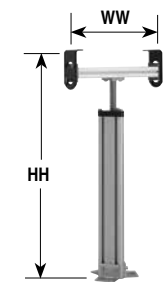


Full width is top plate on 12" wide stands only

## SINGLE POST & PILLAR SUPPORT STANDS



Single Post Support Stand



Pillar Stand  
(must be secured to floor)

### Standard Sizes

Stand Width (WW)	1.75" (44)	2.75" (70)	3.75" (95)	5" (44)	6" (152)	8" (203)	10" (254)	12" (305)	14" (356)	16" (406)	18" (457)
Part # Reference	02	03	04	05	06	08	10	12	14	16	18
Stand Height (HH)*	16-26" (406-660)		24-34" (610-864)		32-42" (813-1,067)		40-50" (1,016-1,270)		48-58" (1,219-1,473)		
Part # Reference	16		24		32		40		48		
Base Diameter (BD)	24" (610)		27" (686)		30" (762)		33" (838)		36" (915)		

- Casters do not change overall height
- Metric fasteners

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

For ordering information, see page 143



# 3200 SERIES: SUPPORT STANDS

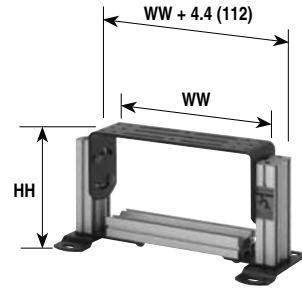
## SHORT SUPPORT STANDS

### Fixed Foot Model

Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	06" - 08" (152 - 203mm)	in 1" (25mm) increments up to...	12" - 14" (305 - 356mm)
Part # Reference	0608	in 0101 increments up to...	1214

### Swivel Locking Caster Model

Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	11" - 13" (279 - 330mm)	in 1" (25mm) increments up to...	17" - 19" (305 - 483mm)
Part # Reference	1113	in 0101 increments up to...	1719



Full width is top plate on 12" wide stands only

## FULLY ADJUSTABLE SUPPORT STANDS

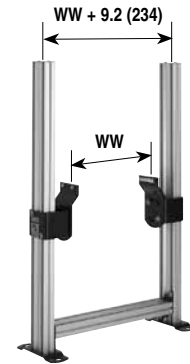
### Fixed Foot Model

Stand Width (WW)	1.75" (44)	2.75" (70)	3.75" (95)	5" (44)	6" (152)	2" (51mm) increments up to...	48" (1,219)
Part # Reference	02	03	04	05	06	in 02 increments up to...	48
Top of Belt Range	7-19" (179-483)	12-31" (305-787)	12-43" (305-1,097)	12-55" (305-1,397)	12-67" (305-1,702)		
Stand Height Reference	0719	1231	1243	1255	1267		

### Swivel Locking Caster Model

Stand Width (WW)	1.75" (44)	2.75" (70)	3.75" (95)	5" (44)	6" (152)	2" (51mm) increments up to...	48" (1,219)
Part # Reference	02	03	04	05	06	in 02 increments up to...	48
Top of Belt Range	12-19" (305-483)	17-31" (432-787)	17-43" (432-1,097)	17-55" (432-1,397)	17-67" (432-1,702)		
Stand Height Reference	1219	1731	1743	1755	1767		

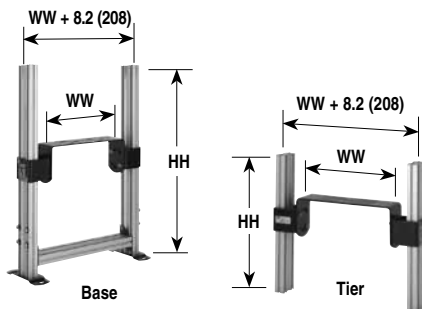
- Metric fasteners



## MULTI TIER STANDS

### Minimum Tier Height Per Conveyor

Flat Belt	12" (305mm)
Cleated Belt	15" (381mm)



Full width is top plate on 12" wide stands only

### Base

Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	12" (305mm)	2" (51mm) increments up to...	60" (1,524mm)
Part # Reference	1212	in 0002 increments up to...	1260

### Tier

Stand Width (WW)	12" (305mm)	2" (51mm) increments up to...	48" (1,219mm)
Part # Reference	12	in 02 increments up to...	48
Stand Height (HH)*	12" (305mm)	1" (25mm) increments up to...	36" (914mm)
Part # Reference	0712	in 0002 increments up to...	0736

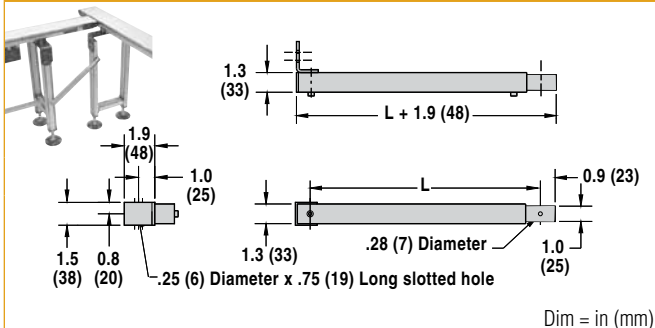
**Note:** Do not use with support stands equipped with casters. Support Stands must be anchored to the floor. Do not use if conveyed product overhangs the edge of the conveyor belt due to pinch point created.

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

For ordering information, see page 143

## STAND ACCESSORIES

### Adjustable Tie Bracket



- Compatible with steel and aluminum support stands
- Secure critical stand and conveyor locations
- Length (L) adjusts + 0", - 11.25" (286mm)
- Includes metric mounting hardware

Part Number	Description
27M400-02	Adjustable Tie Bracket, 2' (610 mm)
27M400-03	Adjustable Tie Bracket, 3' (914 mm)
27M400-04	Adjustable Tie Bracket, 4' (1,219 mm)
27M400-05	Adjustable Tie Bracket, 5' (1,524 mm)
27M400-06	Adjustable Tie Bracket, 6' (1,829 mm)

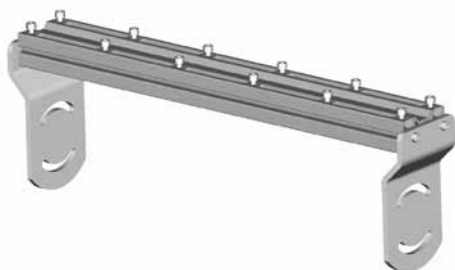
### Diagonal Bracing



- For use on steel, aluminum and single post support stands with casters
- Metric fastener mounting hardware included
- For use on all stands with casters and any stands over 72" (1829 mm) tall
- One brace per stand for conveyors up to 24" wide (610 mm)
- Two braces per stand for conveyors over 24" wide (610 mm)

Part Number	Description
39MB-TS	for two-legged H style stands up to 30" tall (762 mm)
39MB-TT	for two-legged H style stands over 30" tall (762 mm)
39MB-PT	for Single Post and Pillar stands over 30" tall (762 mm)

### Common Mount Kit



- Stand accessory for mounting multiple conveyors in parallel to one stand
- Adds 2" (51 mm) to stand height
- Adds 2.79" (71 mm) to overall stand width

#### 3200 SERIES: COMMON MOUNT KIT

39MCM WW - #

Number of Conveyors

Width Stand

Example: 39MCM-244

### Tall Support Stands



Outriggers

Tall Stands are the Fixed Height and Adjustable Height Stands as shown with additional outrigger support for added stability. These outriggers are required when the height of the stand exceeds 3.5x its width, and they add 16" to stand width. Tall stands over 6' tall include diagonal bracing.

### Fine Adjustment Kit

- Provides fine height adjustment via a threaded bolt
- For use with Fixed Height Stands



Part # 710028

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

For ordering information, see page 143

# 3200 SERIES: SUPPORT STANDS

## QUICK ADJUST STANDS

### Fixed Foot Model

Stand Width (WW)*	12" (305mm)	2" (51mm) increments <b>up to...</b>	36" (914mm)
Part # Reference	12	in 02 increments <b>up to...</b>	36
Stand Height (HH)*	24" - 30" (610 - 762mm)	in 1" (25mm) increments <b>up to...</b>	66" - 72" (1,676 - 1,829mm)
Part # Reference	2430	in 0101 increments <b>up to...</b>	6672

### Swivel Locking Caster Model

Stand Width (WW)*	12" (305mm)	2" (51mm) increments <b>up to...</b>	36" (914mm)
Part # Reference	12	in 02 increments <b>up to...</b>	36
Stand Height (HH)*	27" - 33" (686 - 838mm)	in 1" (25mm) increments <b>up to...</b>	60" - 66" (1,524 - 1,676mm)
Part # Reference	2733	in 0101 increments <b>up to...</b>	6066

\* Under 12" wide use full top plate option

- Metric fasteners
- +/- 3" (76 mm) Height Adjustment
- Allows for Quick Height Adjustment
- Tool-less lock and adjustment handles



Fixed Foot Model

Swivel Locking Caster Model

## A-FRAME STANDS

### Fixed Foot Model

Stand Width (WW)	3.75" (95mm)	2" (51mm) increments <b>up to...</b>	36" (914mm)
Part # Reference	04	in 02 increments <b>up to...</b>	36
Top of Belt Height (HH)*	13" - 17" (330 - 432mm)	in 1" (25mm) increments <b>up to...</b>	56" - 60" (1,422 - 1,524mm)
Part # Reference	1317	in 0101 increments <b>up to...</b>	5660

### Swivel Locking Caster Model

Stand Width (WW)	3.75" (95mm)	2" (51mm) increments <b>up to...</b>	36" (914mm)
Part # Reference	04	in 02 increments <b>up to...</b>	36
Top of Belt Height (HH)*	18" - 20" (457 - 508mm)	in 1" (25mm) increments <b>up to...</b>	58" - 60" (1,473 - 1,524mm)
Part # Reference	1820	in 0101 increments <b>up to...</b>	5860

\* From floor to top of belt

- Metric fasteners
- +/- 2" (51 mm) Height Adjustment for Fixed Foot Model
- +/- 1" (25 mm) Height Adjustment for Swivel Locking Caster Model
- One (1) SmartSlot® per side



Fixed Foot Model

Swivel Locking Caster Model

Note: Dimensions = in (mm)

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

For ordering information, see page 143

## CANTILEVER STAND MOUNT

### Specifications:

- Widths: 2" (51 mm) to 24" (610 mm) available in 1" increments
- Conveyors up to 6" wide are supported with a single cantilever bracket only
- Conveyors 8" and wider include a pivoting outboard support post

### Features:

- Mounts the conveyor from one side only for quick maintenance of the conveyor belt
- (2) Models
  - Table Top Bracket
  - Support Stand Mount Bracket



Easy Access for Quick Belt Removal



6" and narrower



8" and wider

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

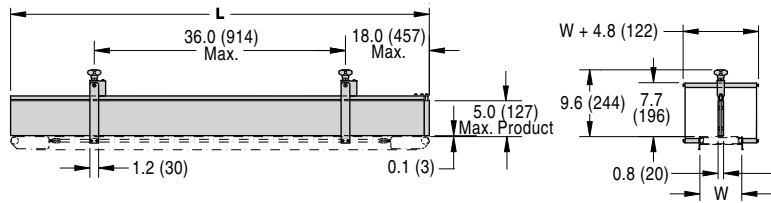
**3200 SERIES: CANTILEVER STAND MOUNT**

39 MCB WW - T

Mount Type: T = Table Top Mount S = Support Stand Mount

Belt Width: 02-24

## ADJUSTABLE LANE GUIDING



### Specifications:

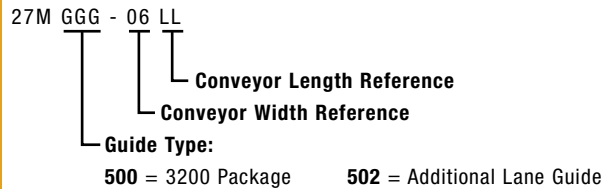
- UHMW guide surface on an anodized aluminum mounting rail
- Painted Steel mounting hardware
- Available in standard 1' (305 mm) increments or can be ordered to any length
- 5" (127 mm) maximum, 0.25" (7 mm) minimum part height
- 0.25" (6 mm) minimum lane width
- Package includes one lane guide, mounting hardware and adjusting knobs
- For conveyors up to 24" (610 mm) wide – Consult factory for wider lane guide availability

**Important:** Exceeding 5" (127 mm) product height will produce a pinch point.

### Features & Benefits:

- Compatible with standard Dorner bolt-on profiles
- Easily adjusts for quick product change over
- Attach additional guides to create multiple lanes
- Create lanes, plows, merges and transfers
- Order additional lane kits separately

#### 3200 SERIES: ADJUSTABLE LANE GUIDING



**Example:** 27M500-0620

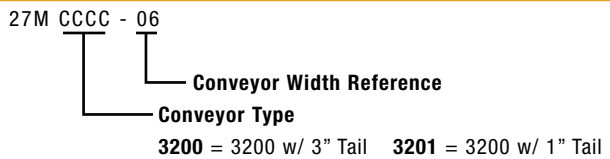
## PULLEY TRANSFER PLATE\*



### Specifications:

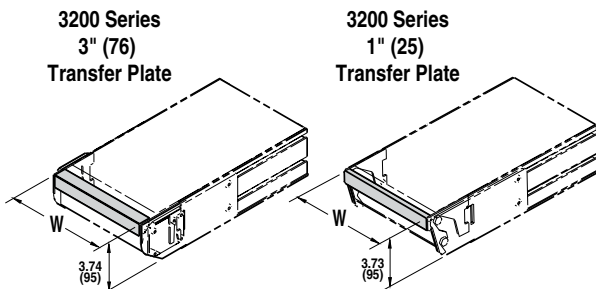
- 1.25" (32 mm) diameter minimum product transfer for 3200 Series
- Hard coat anodized finish
- Package includes extruded aluminum transfer plate, required pulley tail plates and mounting hardware

#### 3200 SERIES: PULLEY TRANSFER PLATE



**Example:** 27M3200-06

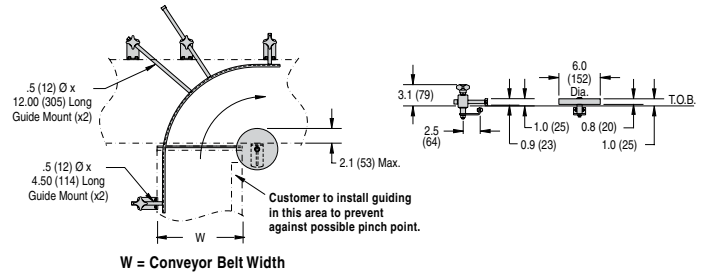
\* Not compatible with clipper splice or high friction belts



Note: Dimensions = in (mm)

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

## 90° ADJUSTABLE TRANSFER



### Specifications:

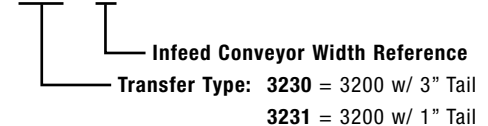
- For conveyors up to 12" (305 mm) wide
- Requires low side conveyors
- 0.25" (6 mm) minimum part thickness
- Hard coat anodized transfer plate
- Painted steel mounting hardware
- 48" (1,219 mm) long UHMW outside turn guide, customer can trim to fit
- Maximum recommended part weight is 20 lbs (9 kg) at 50 ft/min (15 m/min) belt speed. Consult factory regarding applications for higher product weights or faster belt speeds.
- 0.25" (32 mm) minimum product size for 3200 Series
- Package includes outside turn guide, guide wheel, adjustable mounting hardware and extruded aluminum transfer plate

### Features & Benefits:

- Pre-engineered guided turns adjust to a variety of products
- Accepts standard Dorner bolt-on profiles outside of transfer area
- Place adjusting rods where required
- Easily adjusts for quick product change-over

#### 3200 SERIES: 90° ADJUSTABLE TRANSFER

27M TTTT - 06



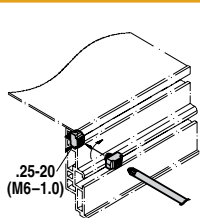
Example: 27M3230-06

**Note:** Due to the wide variety of drive setups and applications point of installation guarding is the responsibility of the end user.

**Important:** Do not use with 03, 08, 55, 62, or 64 High Friction Belts on Infeed conveyor

## HARDWARE ACCESSORIES

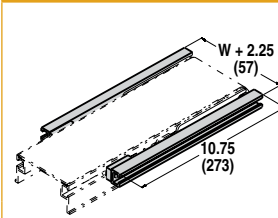
### Spring T-Nut



- Mounts in T-slots to attach light weight accessories
- Recommended for vertical aluminum stand T-slots

Part Number	Description
200124	Spring T-nut, 0.25 - 20
200124M	Spring T-nut, M6 - 1.0
200300	Package of 5 Spring T-nuts, 0.25 - 20
200300M	Package of 5 Spring T-nuts, M6 - 1.0

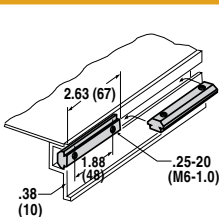
### T-Slot Extenders



- Provides additional T-slots to the end of conveyor
- Includes mounting brackets and hardware
- Metric fasteners

Part Number	Description
307000M	T-Slot Extender, Pair

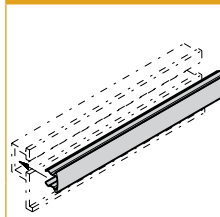
### 3200 & Z-Frame Series T-Bars



- Mounts in T-slots to attach heavy accessories
- 2.63" (67 mm) long 2 hole model, 0.75" (19 mm) 1 hole model

Part Number	Description
639971	1 hole T-bar, 0.25 - 20
639971M	1 hole T-bar, M6 - 1.0
300150	2 hole T-bar, 0.25 - 20
300150M	2 hole T-bar, M6 - 1.0

### T-Slot Cover

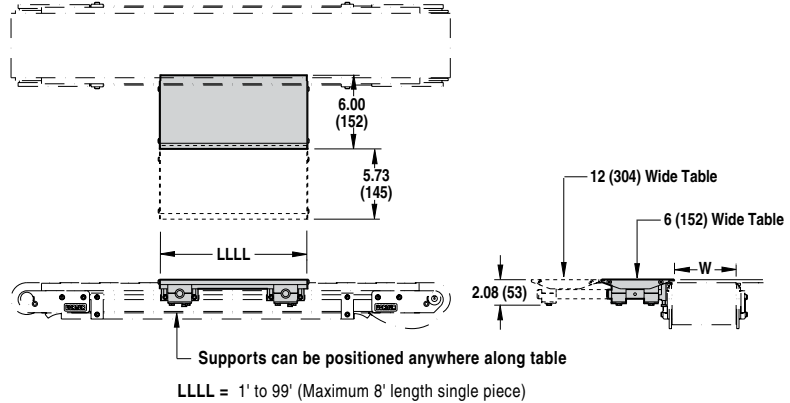


- Snaps into conveyor and aluminum stand T-slots
- Black plastic extrusion
- Can be trimmed to fit

Part Number	Description
645656P	T-Slot Cover, Per 1' (305) of length

Note: Dimensions = in (mm)

## SIDE TABLES



### Specifications:

- Provides a 6" (152 mm) or 12" (305 mm) wide working surface
- Adjusts in/out and up/down (0.25" max above bedplate) for product transfer on/off conveyor belts
- Can be positioned anywhere along the conveyor
- Anodized aluminum work surface
- Max load: 5 lbs/ft (6 kg/m), use Adjustable Tie Brackets for added capacity
- Available in 1' (305 mm) increments from 1' (305 mm) to 99' (30,175 mm)
- Compatible with 2200, 3200 and 5200 Series Conveyors

### 3200 SERIES: SIDE TABLES

27M TTT - 06 LLLL

Table Length (ex. 0200 = 2')

Table Width: 06 = 6" 12 = 12"

Conveyor / Table Type:

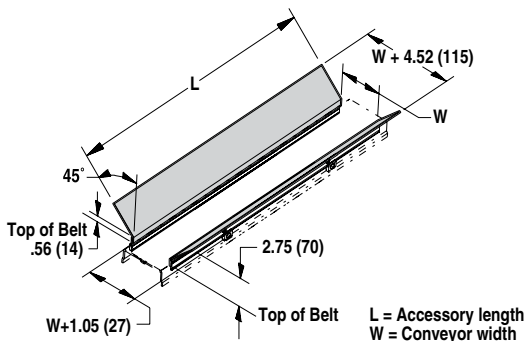
601 = 3200, one side

602 = 3200, two sides

Example: 27M601-060200

## SIDE GUIDES

### Flared Side Guide



- Guides parts onto conveyor belt surface
- Includes metric mounting hardware

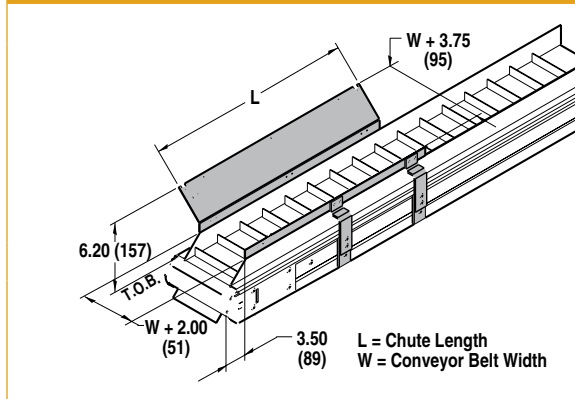
Part Number	Description
280802M	2' (610 mm) Flared Side
280803M	3' (914 mm) Flared Side
280804M	4' (1,219 mm) Flared Side
280805M	5' (1,524 mm) Flared Side
280806M	6' (1,829 mm) Flared Side

Note: Dimensions = in (mm)



## Z-FRAME CHUTES

### Z-Frame Horizontal Infeed Chute



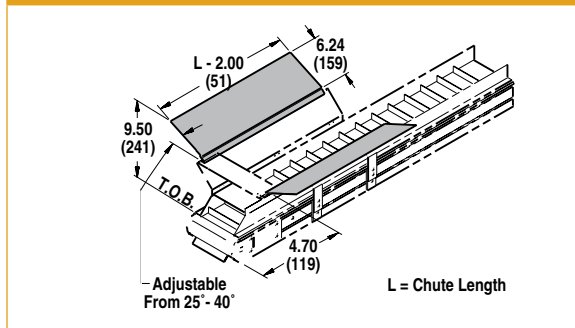
#### For Standard Cleated Belt Conveyors

Part Number	Description
38M501	1' (305 mm) Infeed chute, Standard Cleated, for 2' (610 mm) long section
38M502	2' (610 mm) Infeed chute, Standard Cleated, for 3' (914 mm) long section
38M503	3' (914 mm) Infeed chute, Standard Cleated, for 4' (1,219 mm) long section
38M504	4' (1219 mm) Infeed chute, Standard Cleated, for 5' (1,524 mm) long section

#### For Sidewall Cleated Belt Conveyors

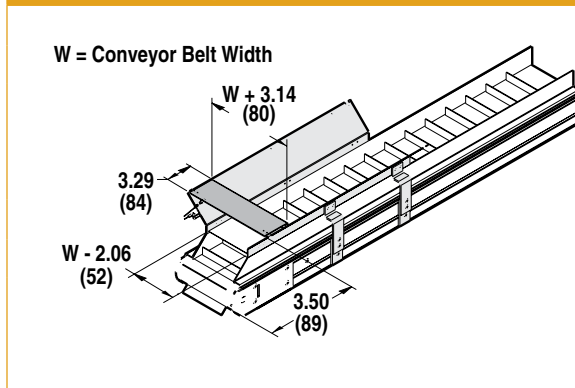
Part Number	Description
38M601	1' (305 mm) Infeed chute, Sidewall Cleated, for 2' (610 mm) long section
38M602	2' (610 mm) Infeed chute, Sidewall Cleated, for 3' (914 mm) long section
38M603	3' (914 mm) Infeed chute, Sidewall Cleated, for 4' (1,219 mm) long section
38M604	4' (1,219 mm) Infeed chute, Sidewall Cleated, for 5' (1,524 mm) long section

### Z-Frame Hinged Chute Extensions



Part Number	Description
38M302	Extensions, 02' (610 mm) chute
38M303	Extensions, 03' (914 mm) chute
38M304	Extensions, 04' (1,219 mm) chute

### Z-Frame Backstop for Horizontal Infeed Chute



#### For Standard Cleated Belt Conveyors

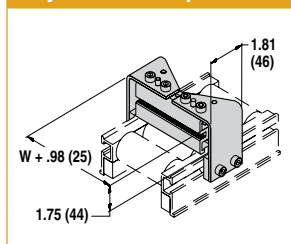
Part Number	Description
38M108	Backstop, Standard Cleated, 08 conveyor width reference
38M112	Backstop, Standard Cleated, 12 conveyor width reference
38M118	Backstop, Standard Cleated, 18 conveyor width reference
38M124	Backstop, Standard Cleated, 24 conveyor width reference

#### For Sidewall Cleated Belt Conveyors

Part Number	Description
38M408	Backstop, Sidewall Cleated, 08 conveyor width reference
38M412	Backstop, Sidewall Cleated, 12 conveyor width reference
38M418	Backstop, Sidewall Cleated, 18 conveyor width reference
38M424	Backstop, Sidewall Cleated, 24 conveyor width reference

## STOPS

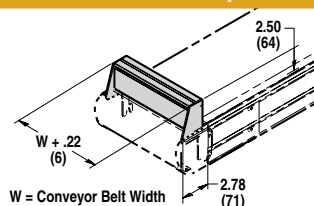
### Adjustable Stop\*



- Slides up and down T-slot length
- Includes mounting hardware

Part Number	Description
3076WWM	Adjustable Stop

### 3200 Series End Stop\*



- Includes mounting hardware

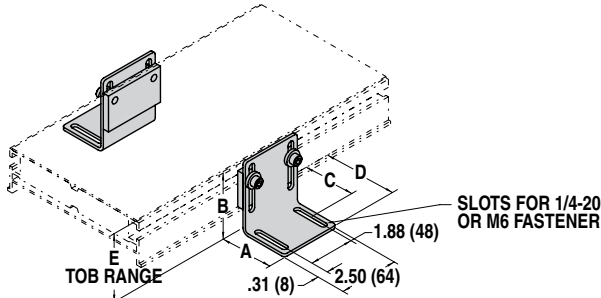
Part Number	Description
3255WWM	3200 End Stop

**WW** = Conveyor Width Reference \* *Not compatible with high friction belts*



## BRACKETS

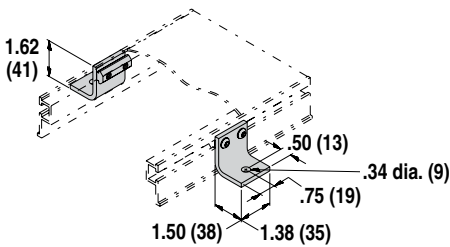
### Adjustable Height Bracket ‡



- Provides height adjustment
- (2) Height Ranges
- Includes mounting hardware

Part Number	Description	A	B	C	D	E
201557	2" x 3" Bracket	2 (51)	3 (76)	1.4 (36)	2.4 (61)	3.83 (97) to 5.33 (135)
201558	3" x 5" Bracket	3 (76)	5 (127)	2 (51)	3.4 (86)	5.23 (133) to 7.23 (184)

### Table Top Mounting Bracket ‡

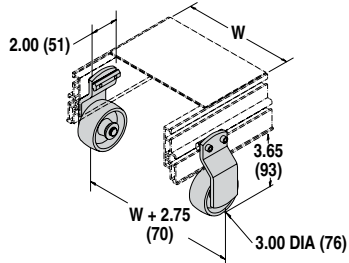


- Includes metric mounting hardware

Part Number	Description
200349M	Table top bracket

‡ = If the discharge end of conveyor is mounted over a table or similar structure, the customer must provide guiding to prevent against possible pinch point.

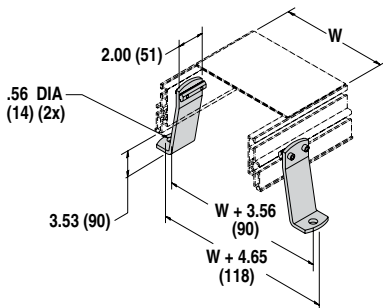
### Frame Mount Casters



- Includes metric mounting hardware

Part Number	Description
390207	Frame mount casters, pair

### Floor Mount Brackets



- Includes metric mounting hardware

Part Number	Description
390217	Floor mount brackets, pair

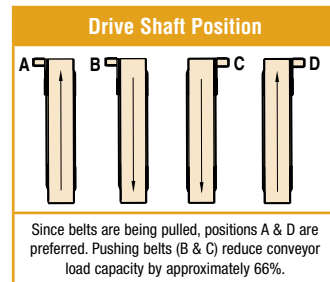
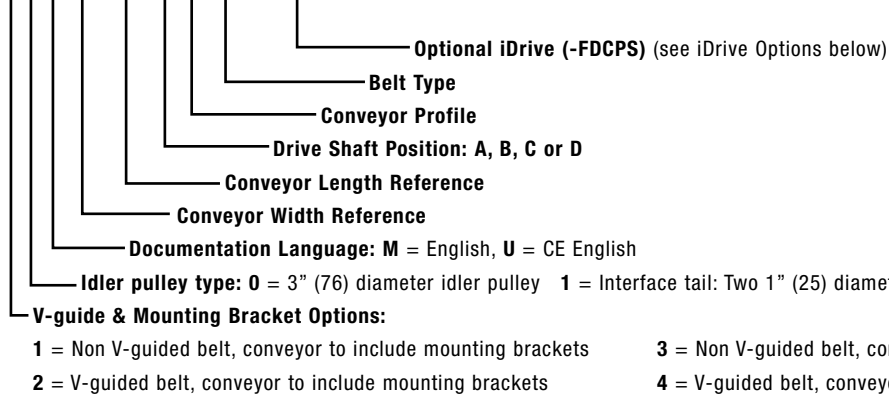
WW = Conveyor Width Reference

Note: Dimensions = in (mm)

# 3200 SERIES: PART NUMBER REFERENCE

## 3200 SERIES: FLAT BELT END DRIVE

3 2 0 M 14 2400 A PP BB - FDCPS

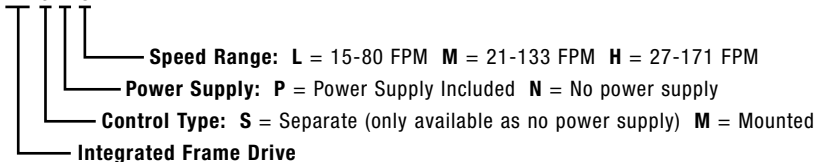


**Example:** 320M142400A102

**Description:** 3200 Series End Drive Conveyor, 14" (356) wide x 24' (7,315) long, V-guided belt, mounting brackets, 3" (76) diameter idler pulley, English documentation, drive shaft position A, lowside profile and general purpose belt.

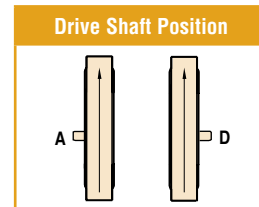
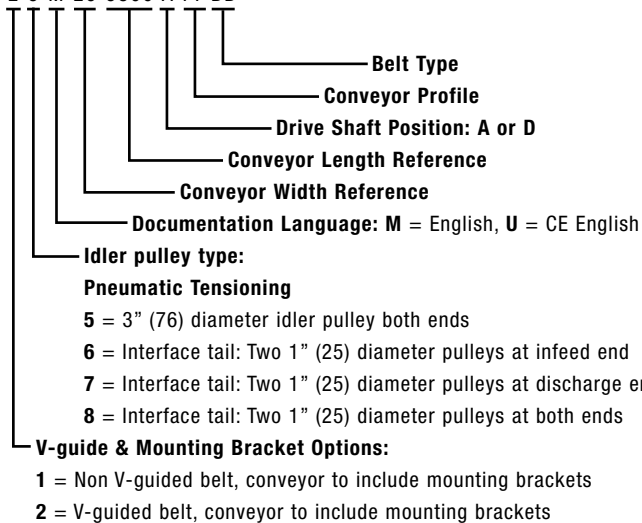
## 3200 SERIES: IDRIVE OPTIONS

FD C P S



## 3200 SERIES: FLAT BELT CENTER DRIVE

3 2 5 M 26 5800 A PP BB



\*may require belt return rollers

### Manual Tensioning

- 2 = 3" (76) diameter idler pulley both ends
- 3 = Interface tail: Two 1" (25) diameter pulleys at infeed end
- 4 = Interface tail: Two 1" (25) diameter pulleys at discharge end
- 9 = Interface tail: Two 1" (25) diameter pulleys at both ends

**Example:** 325M265800A103

**Description:** 3200 Series Center Drive Conveyor, 26" (660) wide x 58' (17,678) long, V-guided belt, mounting brackets, 3" (76) diameter idler pulleys both ends, English documentation, lowside profile and FDA friction belt.

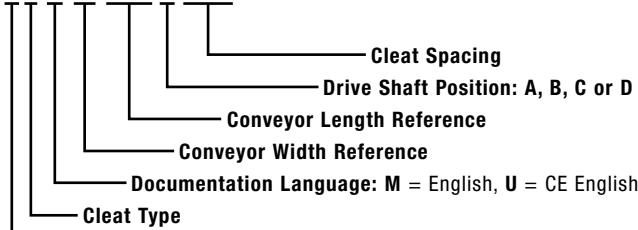
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For more information about any product or accessory, or to locate a local distributor, go to [www.dorner.com](http://www.dorner.com).

# 3200 SERIES: PART NUMBER REFERENCE

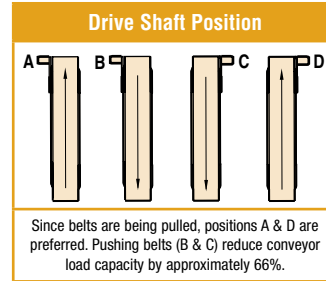
## 3200 SERIES: CLEATED BELT CONVEYOR

3 4 A M 06 1800 D SSSS



### V-guide & Mounting Bracket Options:

- 1 = Non V-guided belt, conveyor to include mounting brackets\*
- 2 = V-guided belt, conveyor to include mounting brackets
- 3 = Non V-guided belt, conveyor not to include mounting brackets\*
- 4 = V-guided belt, conveyor not to include mounting brackets



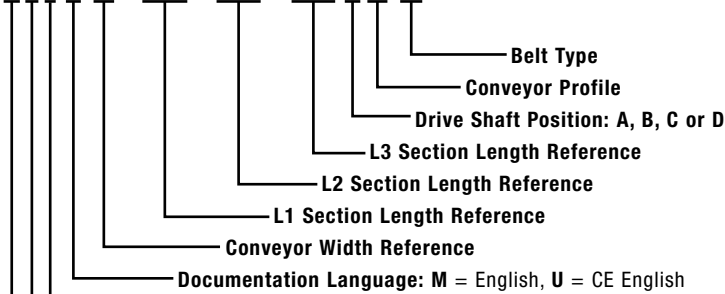
\*may require belt return rollers

**Example:** 34AM061800D1209

**Description:** 3200 Series Cleated Belt Conveyor, 6" (152) wide x 18' (5,486) long with V-guided belt, cleat type A with 12.09" (307) spacing, English documentation, and drive shaft position D.

## 3200 Z-FRAME SERIES: FLAT BELT END DRIVE CONVEYOR

3 E 2 0 M 12 - 0000 - 0300 - 0400 A PP BB



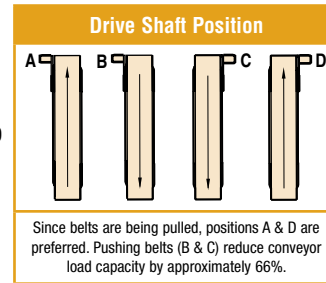
### Idler Pulley Type:

- 0 = 3" (76) diameter idler pulley
- 1 = Interface tail: Two 1" (25) diameter pulleys at idler end

### V-guide & Mounting Bracket Options:

- 1 = Non V-guided belt, conveyor to include mounting brackets
- 2 = V-guided belt, conveyor to include mounting brackets
- 3 = Non V-guided belt, conveyor not to include mounting brackets\*
- 4 = V-guided belt, conveyor not to include mounting brackets\*

**Belt Direction:** E = Incline, D = Decline



\*may require belt return rollers

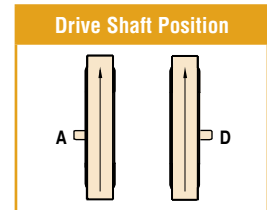
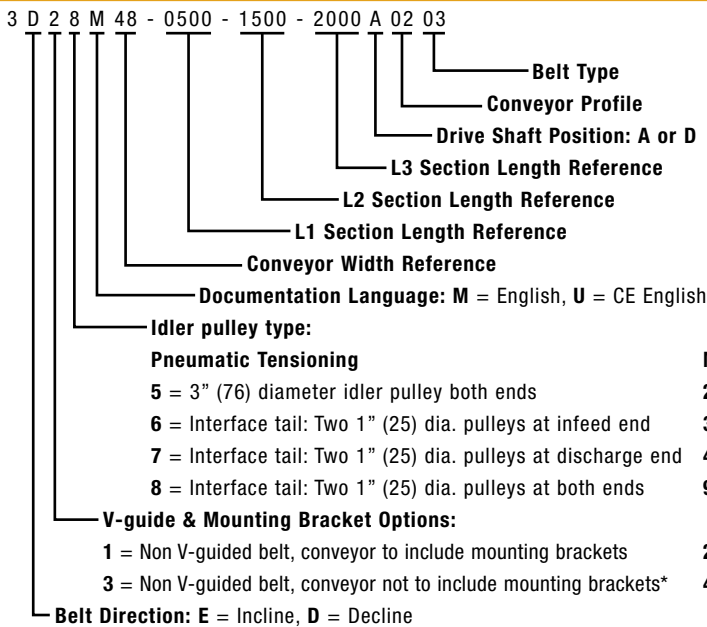
**Example:** 3E20M12-0000-0300-0400A0502

**Description:** Z-Frame Series Flat Belt Nose-over Conveyor, 12" (305) wide, 7' (2,134) total length with L2 section 3' (914) long, L3 section 4' (1,219) long elevating belt direction, V-guided belt, includes mounting brackets, 3" (76) diameter idler pulley, English documentation, drive shaft in position A, 1.5" (38) highside, and general purpose belt.

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## 3200 Z-FRAME SERIES: FLAT BELT CENTER DRIVE CONVEYOR

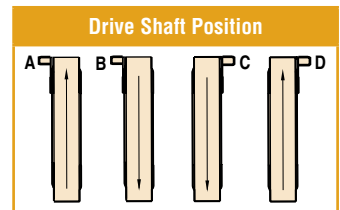
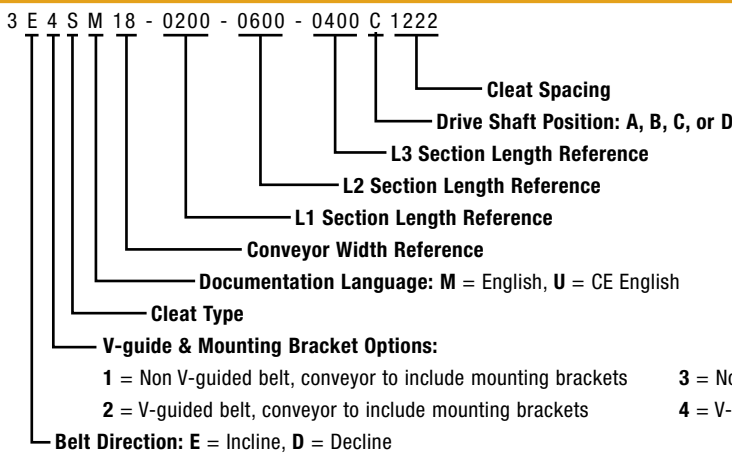


\*may require belt return rollers

**Example:** 3D28M48-0500-1500-2000A0203

**Description:** Z-Frame Series Flat Belt Center Drive Walk-thru conveyor, 48" (1,219) wide, 40' (12,192) total length with L1 section 5' (1,524) long, L2 section 15' (4,572) long, L3 section 20' (6,096) long, declining belt direction, V-guided belt, includes mounting brackets, interface tail [two 1" (25) diameter pulleys] at both ends, English documentation, drive shaft in position A, highside, and FDA friction belt.

## 3200 Z-FRAME SERIES: SIDEWALL CLEATED CONVEYOR



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

\*may require belt return rollers

**Example:** 3E4SM18-0200-0600-0400C1222

**Description:** Z-Frame Series Sidewall Cleated Z-Frame Conveyor, 18" (4,575) wide, 12' (3,658) total length with L1 section 2" (610) long, L2 section 6' (1,829) long, L3 section 4' (1,219) long, elevating belt direction, V-guided belt, type S cleat, English documentation, drive shaft in position C, and cleat spacing of 12.22" (310).

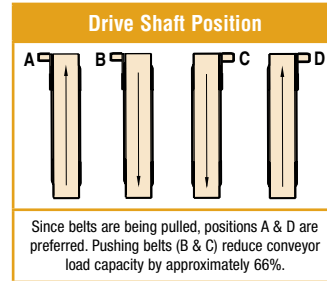
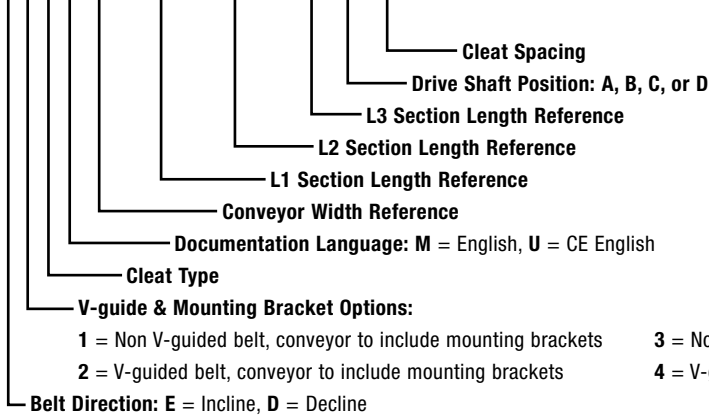
These reference charts are only provided as a reference and is not intended to be used for the construction of complete part numbers for order placing. Dorner has a full network of trained Distributors and sales staff equipped with our configuring / pricing software who are able to provide complete and accurate quotes for all standard products in a matter of minutes.

For more information about any product or accessory, or to locate a local distributor, go to [www.dorner.com](http://www.dorner.com).

# 3200 SERIES: PART NUMBER REFERENCE

## 3200 Z-FRAME SERIES: STANDARD CLEATED CONVEYOR

3 E 2 A M 08 - 0000 - 0600 - 0400 A 1191



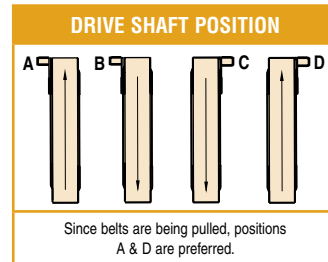
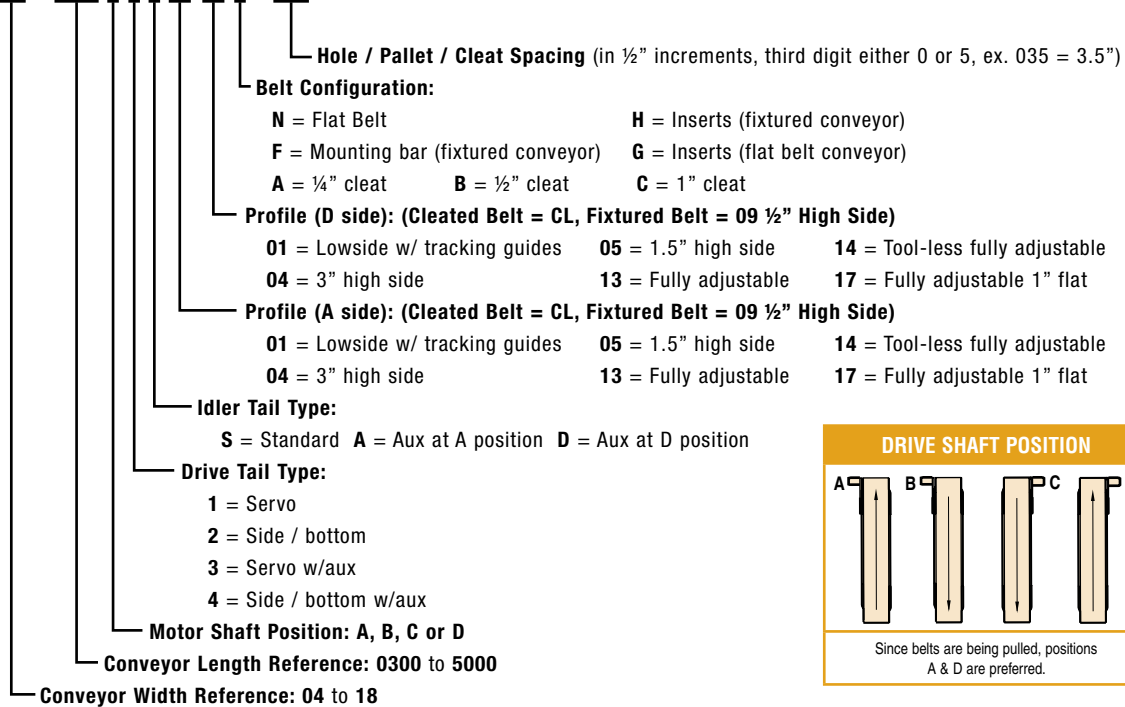
\*may require belt return rollers

**Example:** 3E2AM08-0000-0600-0400A1191

**Description:** Z-Frame Series Standard Cleated Horizontal to Incline Conveyor, 8" (457) wide, 10' (3,048) total length with L2 section 6' (1,829) long, L3 section 4' (1,219) long, elevating belt direction, V-guided belt, includes mounting brackets, type A cleat, English documentation, drive shaft position A, and cleat spacing of 11.91" (303).

## 3200 PRECISION MOVE: FLAT, FIXTURED & CLEATED BELT END DRIVE

32TM WW - LLLL A 1 S PP PP H - SSS



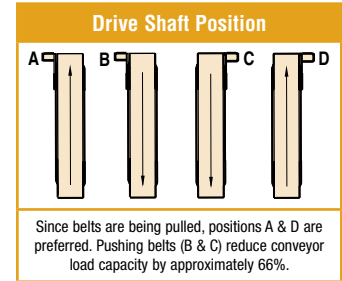
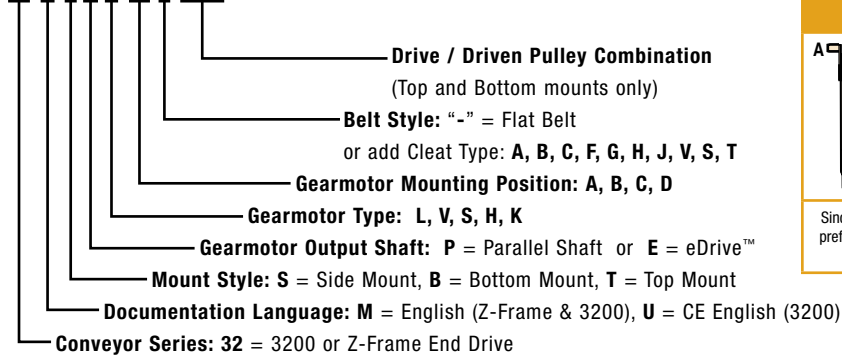
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# 3200 SERIES: PART NUMBER REFERENCE

## 3200 SERIES: END DRIVE MOUNTING PACKAGES

32 M B P S A - 1616

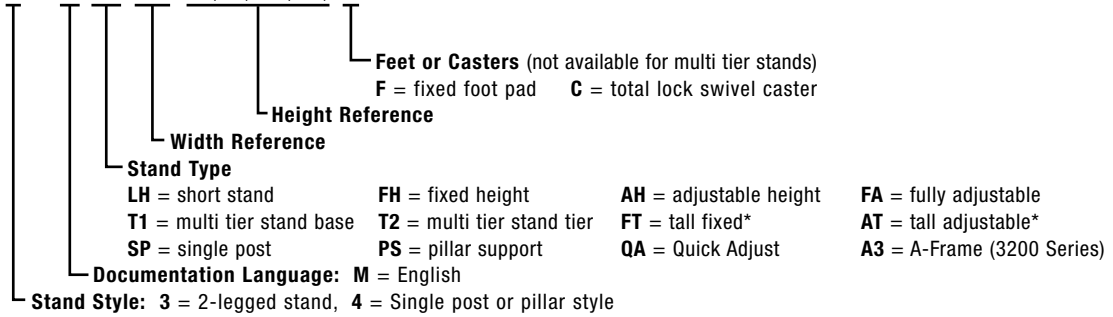


**Example:** 32MBPSA-1616

**Description:** Bottom mount package with English documentation. Configured for a parallel shaft, standard load motor in the A mount position with a 16:16 drive / driven pulley combination.

## 3200 SERIES: SUPPORT STANDS

S 9 M T T W W - HH(min) HH(max) F A



**EXAMPLE:** 39MAH12-2126CP

**Note:** Due to the wide variety of conveyor and stand options along with possible configurations, stability is final setup of the responsibility of the end user.

\*Tall stands are required when the stand width is 3.5 times the stand height.

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