ENGINEERING MANUAL

Superior V-Guided Belt Tracking Universal Motor & Mounting Package

Fast & Simple to Use Online Configurator

Industry-Best Product Transfers



2200 LOW PROFILE 2200 PRECISION MOVE 2700 MEDIUM DUTY





High Speed Nose Bar Transfers

 16 mm Nose Bar safely transfers small parts at speeds up to 61 m/min and features V-Guided belting for accurate belt tracking



Sleek Frame Designs

 Sturdy single piece frame construction with a universal T-Slot allows for fast and simple attachment of accessories and guiding with a variety of industry available hardware



2700 Medium Duty Conveyors

 60 mm (2.4 in) roller diameter, widths from 203 mm (8 in) to 914 mm (36 in), larger frame and bearings for greater load capacity



V-Guided Belt Tracking

 The industries first low profile V-Guided conveyor, eliminates startup belt tracking and keeps the belt running straight



Precision Move

 Provides accurate alignment of both time and distance to move products efficiently in assembly automation applications



Adjustable Angle LPZs

 Sleek, low profile Z-Frame Conveyors are ideal for product elevation changes and can easily adjust to fit machinery layout

The Benefits of a Dorner 2200/2700 Series Conveyor

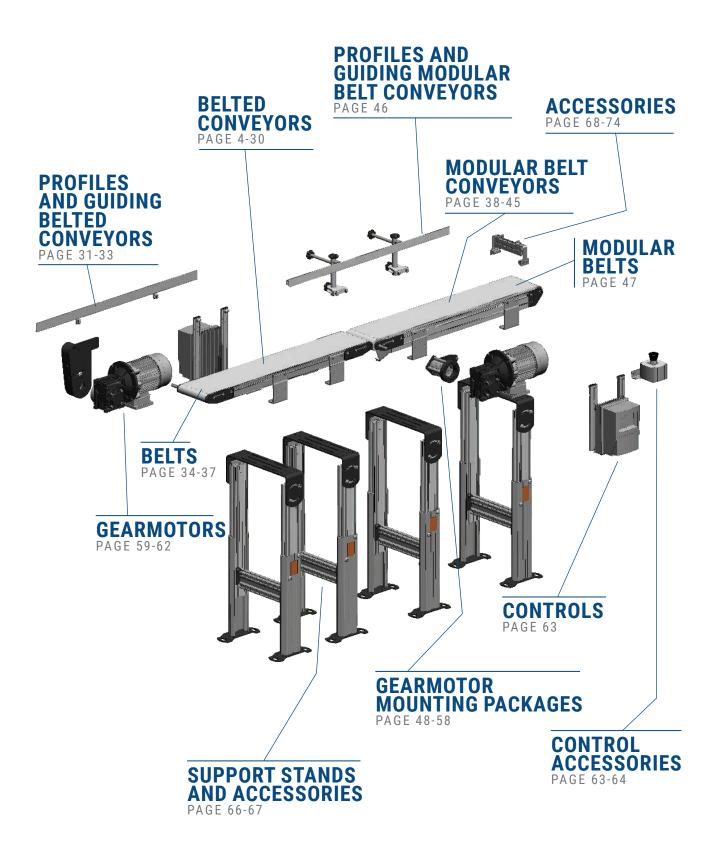
Low Maintenance

- Dorners Industry Best V-Guiding provides positive belt tracking, even under demanding side load applications
- Precise rack and pinion belt tensioning allows for fast and simple tensioning
- Sealed for life bearings reduces maintenance

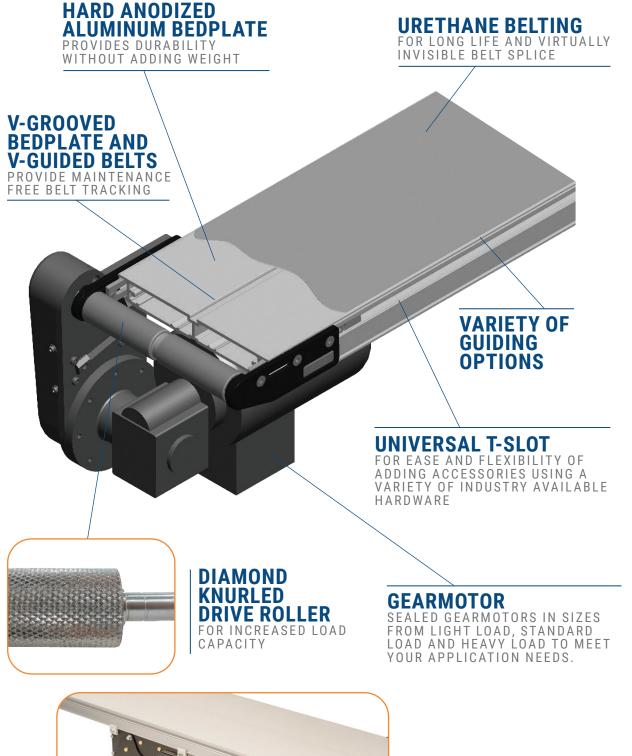
Time Saving

- Dorner's online configurator engineers simple or complex conveyors to meet your needs in minutes
- The industry leading tool delivers a complete 3D CAD assembly model for instant validation of fit
- Dorner provides the industry's fastest lead times with conveyors shipping in as little as 3 business days





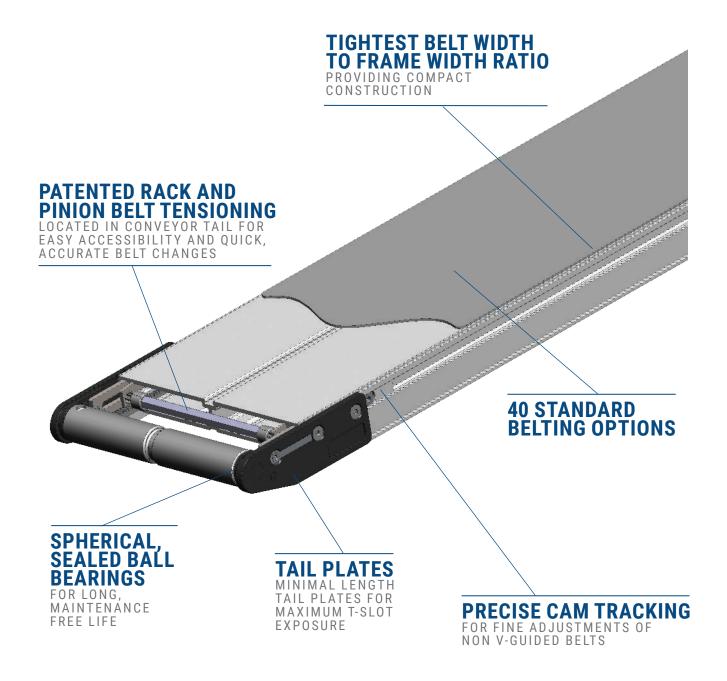






CENTER AND MID DRIVE OPTIONS

FREES UP SPACE ON BOTH ENDS OF THE CONVEYOR AND INCREASES LOAD CAPACITY









Specifications

- · Loads up to 36 kg*
- · Belt speeds up to 122 m/min
- · Belt widths: 44 mm to 610 mm
- Conveyor lengths: 457 mm to 5,486 mm
- 32 mm diameter drive and idler pulleys turn approximately 107 mm of belt per revolution
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 - · Cam tracking standard on Non V-Guided belt conveyors
- 12 mm diameter integral drive shaft with auxiliary shaft location options



OPTIONAL: Fixed and Tension Tail Shafts and Sensor Accessories

Easily allows for common driven applications or monitoring devices to be added



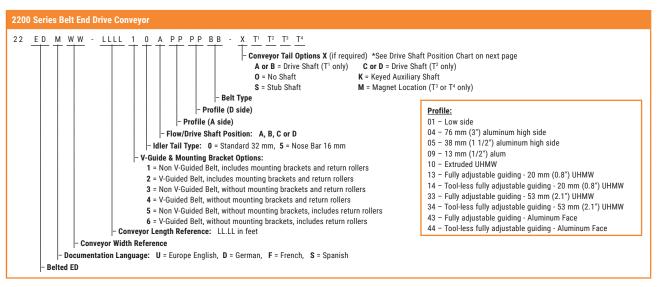
OPTIONAL: 16 mm High Speed Nose Bar Transfer Tail

Available at non-driven end. V-guide supported. Speeds up to 61 m/min



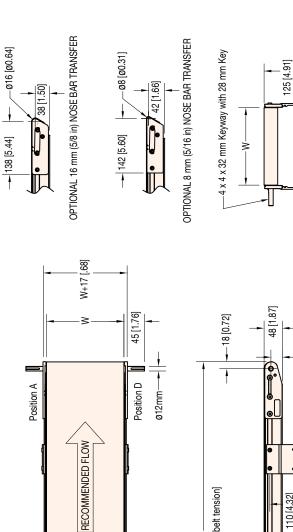
STANDARD FEATURE: Rack and Pinion

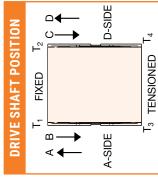
Allows the tail section to be easily slid back for quick belt adjustments and removal



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







Since betts are being pulled, positions A & D are preferred. Pushing betts (B & C) reduce conveyor load capacity by approximately 66%. T₃ TENSIONED

•-
\sim
Dim = mm
Width
Belt
Conveyor
 ≫

<u>=</u>

W-.16

30 [1.17]

110 [4.32]

[at initial factory belt tension]

33 [1.28]

149 [5.85]

-76 [3.00]

-57 [2.25]

10 [0.38] ---

4

STANDARD SIZES												
Conveyor Width Reference	02	04	90	80	10	12	14	16	18	20	22	24
Conveyor Belt Width (W)	44 mm	95 mm	152 mm	203 mm	95 mm 152 mm 203 mm 254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mm	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm
Conveyor Length Reference	0150				0001 in	0001 increments up to	up to				1800	00
Conveyor Length (L)	457 mm				3 mm in	3 mm increments up to	up to				5,486	i,486mm*

NOTE: Lengths over 3657 mm available in widths 152 mm and wider only.
NOTE: Conveyor longer than 3,658 mm will be constructed using two equal length frames.
*NOTE: Max length varies based on tail section.

-- W+21 [.82]





Specifications

- Loads up to 54 kg* (Center Drive) Loads up to 36 kg* (Mid Drive)
- · Belt speeds up to 122 m/min
- · Belt widths: 44 mm to 610 mm
- · Conveyor lengths: 457 mm to 7,315 mm
- 32 mm diameter drive and idler pulleys turn approximately 107 mm of belt per revolution
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 - Cam tracking standard on Non V-Guided belt conveyors
- 12 mm diameter integral drive shaft with auxiliary shaft location options



OPTIONAL: 16 mm High Speed Nose Bar Transfer Tail

Available at non-driven end. V-guide supported. Speeds up to 61 m/min



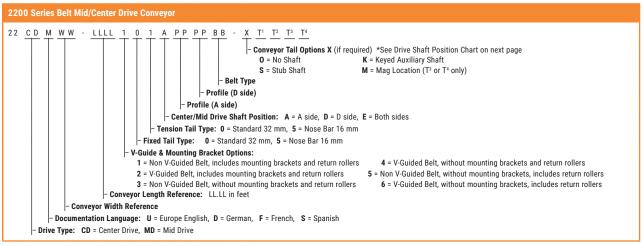
STANDARD FEATURE: Rack and Pinion

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



Center Drive

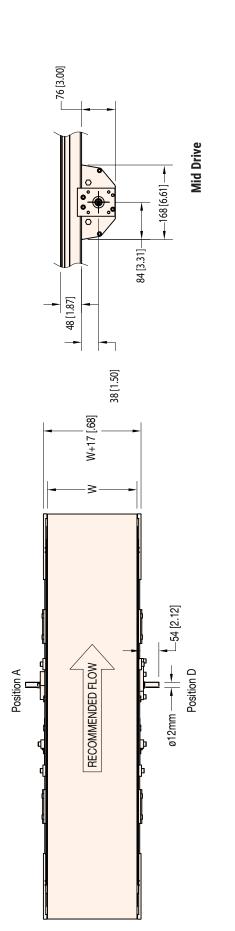
Equipped with gas spring belt tension

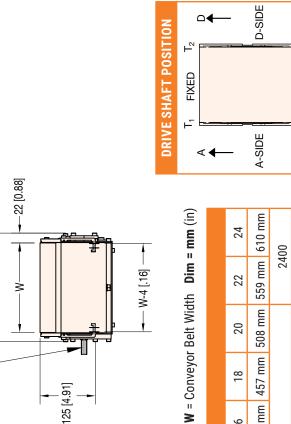


^{*} Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

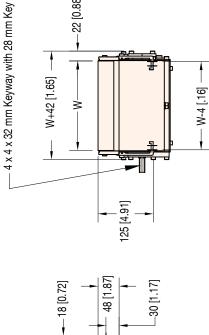


T₃ TENSIONED





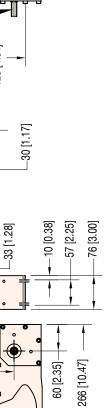
٥◀



-99 [3.91]

149 [5.85]

[at initial factory belt tension]



115 [4.54] op

110 [4.32]

STANDARD SIZES												
Conveyor Width Reference	02	04	90	80	10	12	14	16	18	20	22	24
Conveyor Belt Width (W)	44 mm	95 mm	152 mm	203 mm	254 mm	95 mm 152 mm 203 mm 254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mr	356 mm	406 mm	457 mm	508 mm	559 mm	610 mi
Conveyor Length Reference	0150				0001 in	0001 increments up to	up to				24	2400
Conveyor Length (L)	457 mm				3 mm ir	3 mm increments up to	up to				7,315	7,315 mm*

NOTE: Conveyors 3661 to 5486 mm in length will be constructed using two equal length frame sections. Conveyors 5489 to 7315 mm in length will be constructed using three equal length frame sections.

*NOTE: Max length varies based on tail section.



Specifications

- · Loads up to 36 kg*
- · Belt speeds up to 122 m/min
- · Belt widths: 44 mm to 610 mm
- · Conveyor lengths: 457 mm to 5,486 mm
- Standard cleats available from 20 mm to 30 mm high
- Cleats heights can be cut in 5 mm increments.
 5 mm high minimum height
- 32 mm diameter drive and idler pulleys turn approximately 107 mm of belt per revolution
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 Cam tracking standard on Non V-Guided belt conveyors
- 12 mm diameter integral drive shaft with auxiliary shaft location options



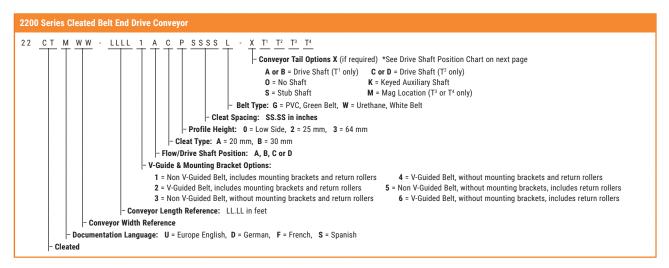
OPTIONAL: Fixed and Tension Tail Shafts and Sensor Accessories

Easily allows for common driven applications or monitoring devices to be added



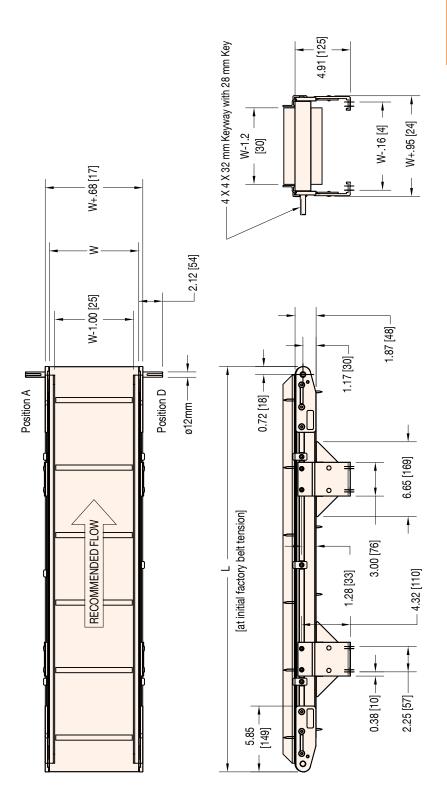
STANDARD FEATURE: Rack and Pinion

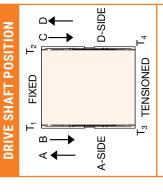
Allows the tail section to be easily slid back for quick belt adjustments and removal



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







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

W = Conveyor Belt Width Dim = mm (in)

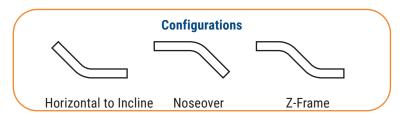
STANDARD SIZES												
Conveyor Width Reference	02	04	90	80	10	12	14	16	18	20	22	24
Conveyor Belt Width (W)	44 mm	95 mm	152 mm	203 mm	95 mm 152 mm 203 mm 254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mm	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm
Conveyor Length Reference	0150				0001 in	0001 increments up to	up to				18	1800
Conveyor Length (L)	457 mm				3 mm in	3 mm increments up to	up to				5,486 mm	mm ·
			-									

NOTE: Lengths 3962 to 5486 mm available in widths 152 to 610 mm only.
NOTE: Conveyors longer than 3,658 mm will be constructed using two equal length frames.



Specifications

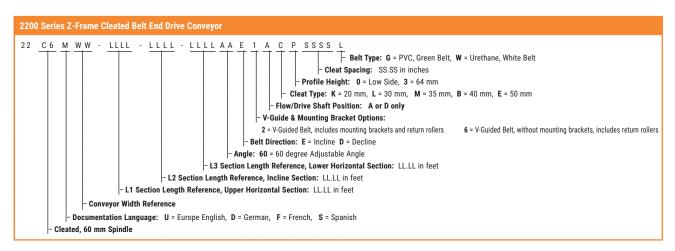
- · Loads up to 30 kg*
- · Belt speeds up to 57 m/min
- · Belt widths: 203 mm to 610 mm
- · Conveyor lengths: 1097 mm to 4000 mm
- Adjustable angle: 35° to 60°
- · Cleats available from 20, 30, 35, 40 and 50 mm high
- 60 mm diameter drive and idler pulleys turn approximately 189 mm of belt per revolution
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications





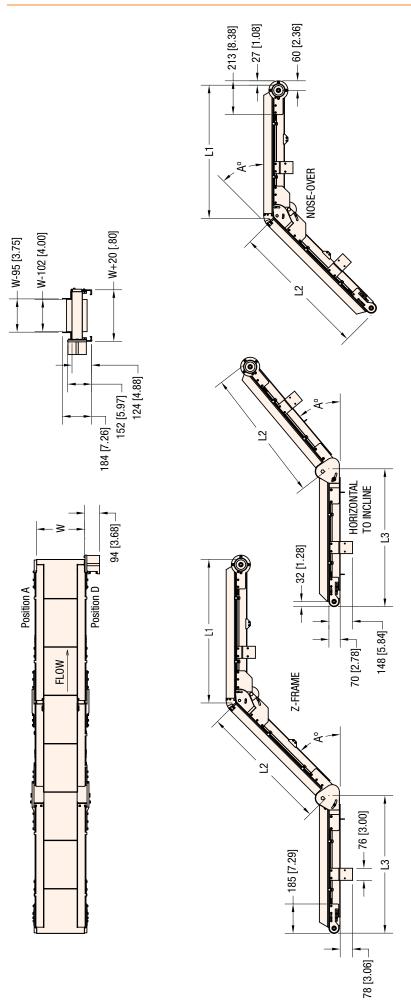
STANDARD FEATURE: Rack and Pinion

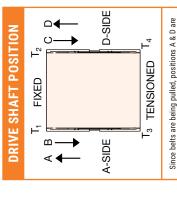
Allows the tail section to be easily slid back for quick belt adjustments and removal



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







W = Conveyor Belt Width Dim = mm (in)

Note: Belt direction is not reversible

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

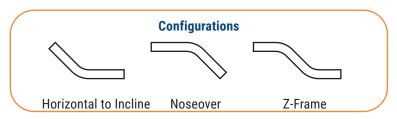
Conveyor Width Reference	80	10	12	14	16	18	20	22	24
Conveyor Inside Frame Width (W)*	203 mm	254 mm	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm
Actual Belt Width	199 mm	250 mm	301 mm	352 mm	402 mm	453 mm	504 mm	555 mm	606 mm
Cleat Width	101 mm	152 mm	203 mm	254 mm	304 mm	355 mm	406 mm	457 mm	508 mm
Pocket Width	107 mm	158 mm	209 mm	260 mm	310 mm	361 mm	412 mm	463 mm	514 mm
Section Length Reference	01	0180		0001	0001 increments up to	p to		60	0984
Section Length	550	550 mm		3 mm	3 mm increments up to	p to		3000	3000 mm
L1 + L2 + L3 Maximum Conveyor Length					4000 mm				

2200 SERIES Z-FRAME SIDEWALL CLEATED BELT END DRIVE



Specifications

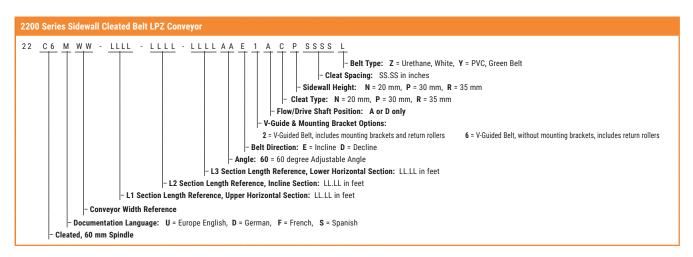
- · Loads up to 30 kg*
- · Belt speeds up to 57 m/min
- · Belt widths: 305 mm to 610 mm
- · Conveyor lengths: 1097 mm to 4000 mm
- Adjustable angle: 35° to 60°
- · Cleats available from 20, 30, 35 mm high
- · Sidewall available from 20, 30, 35 mm high
- 60 mm diameter drive and idler pulleys turn approximately 189 mm of belt per revolution
- V-groove bedplate with guided belt provides positive belt tracking, even under demanding side load applications





STANDARD FEATURE:
Rack and Pinion

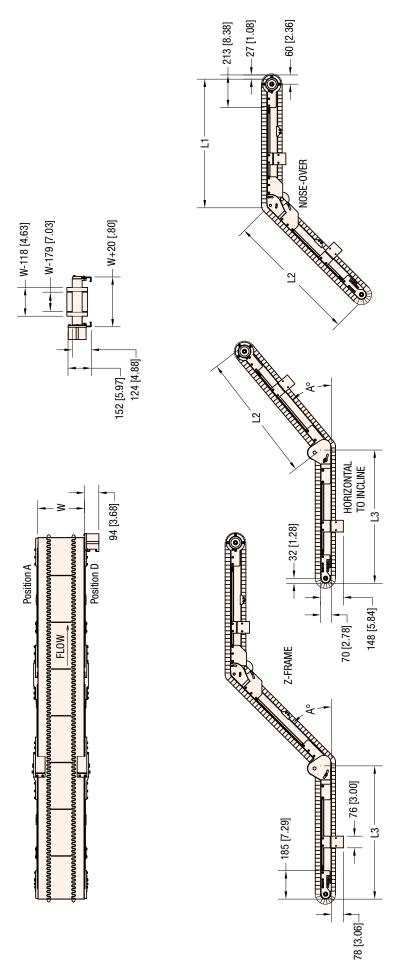
Allows the tail section to be easily slid back for quick belt adjustments and removal

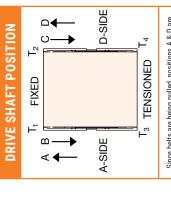


^{*} Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.



Z-FRAME SIDEWALL CLEATED BELT END DRIVE 2200 SERIES





STANDARD SIZES							
Conveyor Width Reference	12	14	16	18	20	22	24
Conveyor Inside Frame Width (W)*	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm
Actual Belt Width	301 mm	352 mm	402 mm	453 mm	504 mm	555 mm	606 mm
Cleat Width	126 mm	177 mm	227 mm	278 mm	329 mm	380 mm	431 mm
Pocket Width	137 mm	188 mm	238 mm	289 mm	340 mm	391 mm	442 mm
Section Length Reference	0180	80	0001	0001 increments up to	to	0984	84
Section Length	550	550 mm	3 mm	3 mm increments up to	to	3000	3000 mm
L1 + L2 + L3 Maximum Conveyor Length				4000 mm			

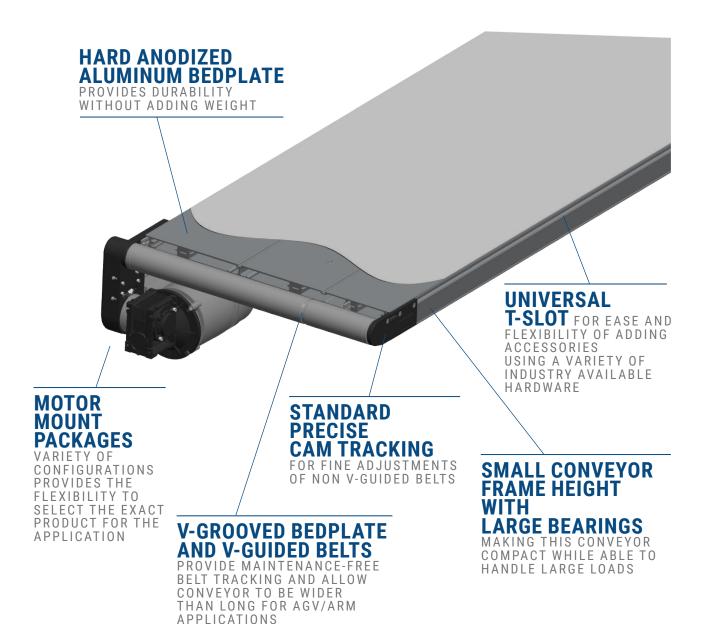
W = Conveyor Belt Width Dim = mm (in)

Note: Belt direction is not reversible



IDrive2 CONTINUOUS DUTY 24VDC MOTORS

THE MOST COMPACT CONVEYOR DRIVE PACKAGE. INTERNAL GEARMOTOR ALLOWS THE CONVEYOR TO FIT IN TIGHT SPACES

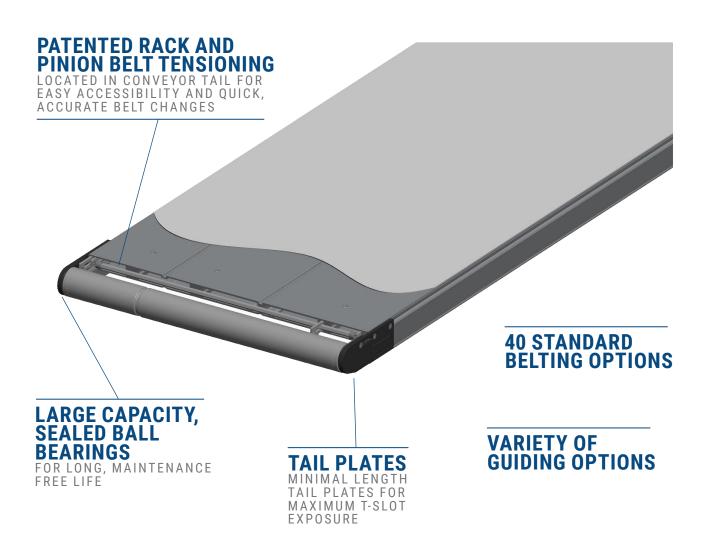




AUXILIARY SHAFT

ADDITIONAL SHAFTS ON ANY CORNER
OF THE CONVEYOR FOR EASY INTEGRATION
OF SENSORS OR ATTACHMENTS









Specifications

- Loads up to 68 kg (150 lbs)*
- · Belt speeds up to 122 m/min (400 ft/min)
- · Belt widths: 203 to 914 mm (8 to 36 in)
- Conveyor lengths: 508 to 7315 mm (20 in to 24 ft)
- 60 mm (2.4 in) diameter drive and idler pulleys turn approximately 189 mm (7.4 in) of belt per revolution
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 - Cam tracking standard on Non V-Guided belt conveyors
- 15 mm diameter integral drive shaft with auxiliary shaft location options



OPTIONAL: 16 mm (5/8 in) High Speed Nose Bar Transfer Tail

Available at non-driven end. V-guide supported. Speeds up to 61 m/min (200 ft/min)



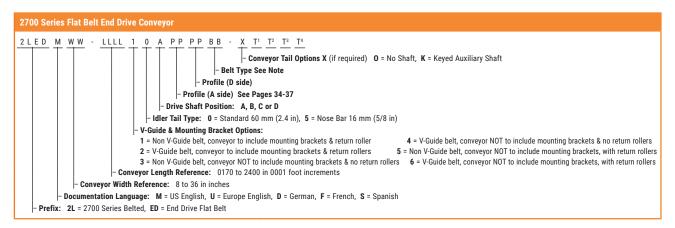
OPTIONAL: 15 mm diameter integrated auxiliary shaft

Available on any corner of the conveyor



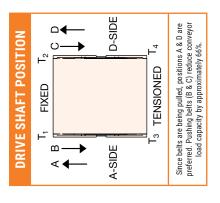
STANDARD FEATURE:
Rack and Pinion

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



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

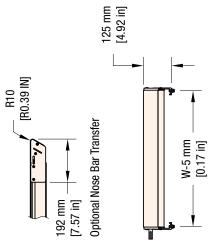


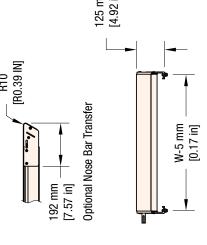


Position A

FLOW

W+18 mm [0.72 in]





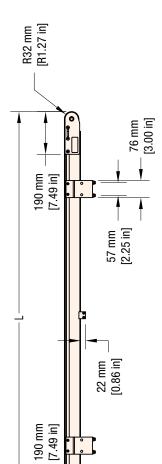
[2.11 in] 54 mm

> with 5 mm [0.20 in] Keyway 15 mm [0.59 in] Shaft

> > for Mounting Brackets

W+23 mm [0.93 in]

Position D



72 mm [2.82 in]

W = Conveyor Belt Width Dim = mm (in)

STANDARD SIZES															
										-					
Conveyor Width Reference	80	10	12	14 16		18	20	22	24	56	28	30	32	34	36
Conveyor Belt Width (W)	203 mm 254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mm 660 mm 711 mm 762 mm 813 mm 864 mm 914 mm	254 mm	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm	960 mm	711 mm	762 mm	813 mm	864 mm	914 mm
	(8 in)	(10 in)	(10 in) (12 in) (14 in) (16 in) (18 in) (20 in) (22 in) (24 in) (26 in) (28 in) (30 in) (32 in) (34 in)	(14 in)	(16 in)	(18 in)	(20 in)	(22 in)	(24 in)	(26 in)	(28 in)	(30 in)	(32 in)		(36 in)
Conveyor Length Reference	0170	0.					0001 in	0001 increments up to	up to					24	2400
Conveyor Length (L)	508 mm (mm (1.7 ft)				3 n	nm (0.12 i	3 mm (0.12 in) increments up to	ents up to .	:				7,315 mm (24 ft)	n (24 ft)

NOTE: Conveyor longer than 3,658 mm (12 ft) will be constructed using two equal length frames. *NOTE: Max length varies based on tail section.



Specifications

- Loads up to 68 kg (150 lbs)*
- Belt speeds up to 122 m/min (400 ft/min)
- Belt widths: 203 to 914 mm (8 to 36 in)
- Conveyor lengths: 610 to 7315 mm (24 in to 24 ft)
- 60 mm (2.4 in) diameter drive and idler pulleys turn approximately 189 mm (7.4 in) of belt per revolution
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 - Cam tracking standard on Non V-Guided belt conveyors
- 15 mm diameter integral drive shaft with auxiliary shaft location options



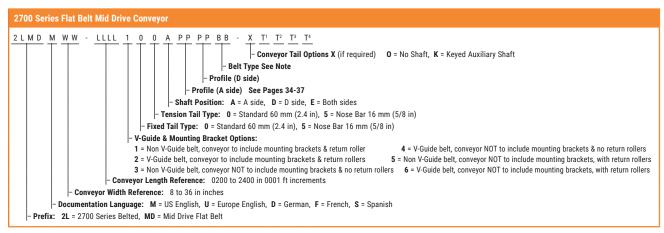
OPTIONAL: 16 mm (5/8 in) High Speed Nose Bar Transfer Tail

Available at non-driven end.
V-guide supported.
Speeds up to 61 m/min (200 ft/min)



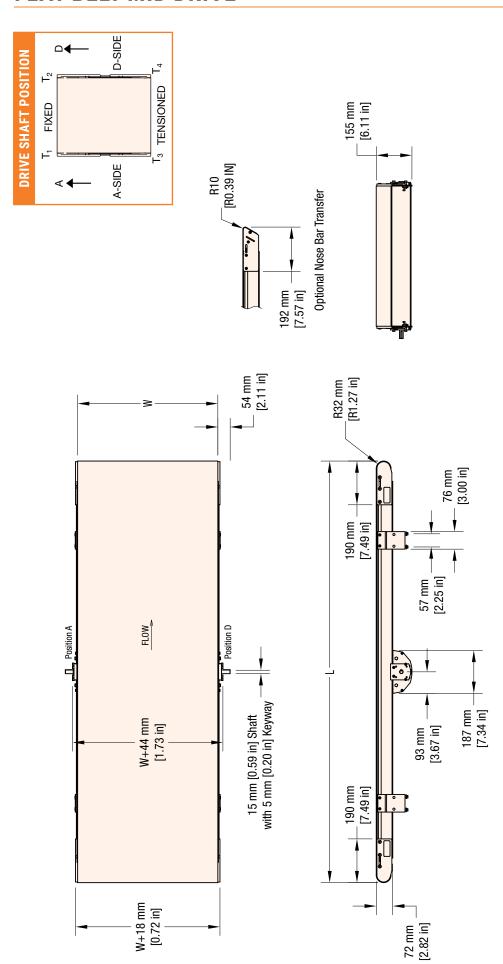
STANDARD FEATURE: Rack and Pinion

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



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





W = Conveyor Belt Width **Dim** = mm (in)

STANDARD SIZES															
Conveyor Width Reference	80	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Conveyor Belt Width (W)	203 mm (8 in)	254 mm (10 in)	305 mm (12 in)	356 mm (14 in)	406 mm (16 in)	457 mm (18 in)	508 mm (20 in)	254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mm 660 mm 711 mm 762 mm 813 mm 864 mm 914 mm (10 in) (12 in) (14 in) (16 in) (18 in) (20 in) (22 in) (24 in) (26 in) (28 in) (30 in) (32 in) (36 in) (36 in)	610 mm (24 in)	660 mm (26 in)	711 mm (28 in)	762 mm (30 in)	813 mm (32 in)	864 mm (34 in)	914 mm (36 in)
Conveyor Length Reference	0200	0(0001 in	0001 increments up to	up to					24	2400
Conveyor Length (L)	610 mm	(2.0 ft)												7,315 m	7,315 mm (24 ft)

*NOTE: Max length varies based on tail section.

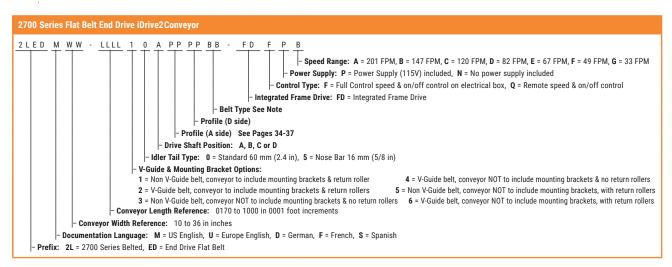






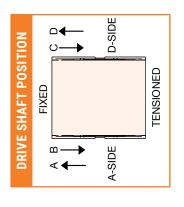
Specifications

- Conveyor Load Capacity (non-accumulated, distributed load):
 - 10 m/min (33 ft/min) Up to 75 kg (165 lbs)
 - 15 m/min (49 ft/min) Up to 49 kg (108 lbs)
 - 20 m/min (66 ft/min) Up to 34 kg (75 lbs)
 - 25 m/min (82 ft/min) Up to 27 kg (59 lbs)
 - 45 m/min (148 ft/min) Up to 12 kg (26 lbs)
 - 61 m/min (200 ft/min) Up to 7 kg (15 lbs)
- Belt Speeds: Variable Speed, (6) Speed Options
 - 1 to 10 m/min (3.3 to 33 ft/min)
 - 1.5 to 15 m/min (4.9 to 49 ft/min)
 - 2 to 20 m/min (6.6 to 66 ft/min)
 - 2.5 to 25 m/min (8.2 to 82 ft/min)
 - 4.5 to 45 m/min (14.8 to 148 ft/min)
 - 6.1 to 61 m/min (20 to 200 ft/min)
- Belt Widths: 245 to 914 mm (10 to 36 in)
- Conveyor Lengths: 508 to 2940 mm (20 in to 10 ft)
- V-groove bedplate with guided belt provides belt tracking, even under demanding side load applications
 - · Cam tracking standard on Non V-Guided belt conveyors
- Indexing Capable Up to 30 indexes per minute
- iDrive2 Controls: 3 control options available
 - Keypad Control: Includes electrical box with speed and direction control switches, compact NEMA1 control box can be mounted directly on to conveyor via T-Slot, 115VAC power supply is optional.
 - Remote Switch Control: Includes electrical box with cable grip for control wiring, compact NEMA1 control box can be mounted directly on to conveyor via T-Slot, 115VAC power supply is optional.
 - Drive Controller only: Includes motor controller to be mounted by others in centralized control box, no power supply is available for this option



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





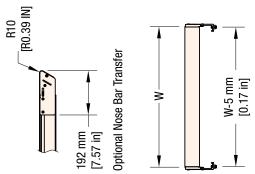
W+20 mm [0.82 in]

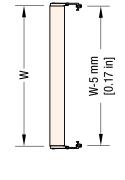
FLOW

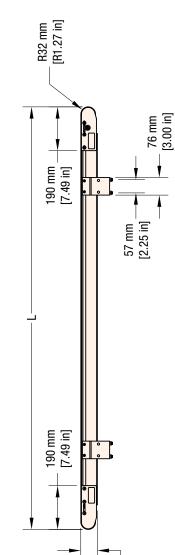
W+18 mm [0.72 in]

[0.93 in] [0.93 in] for Mounting Brackets

W+23 mm







72 mm [2.82 in]

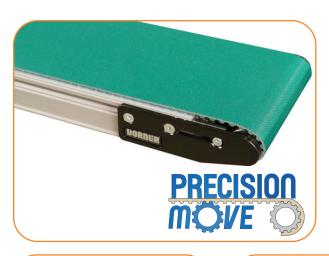
W = Conveyor Belt Width Dim = mm (in)

STANDARD SIZES														
Conveyor Width Reference	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Conveyor Belt Width (W)	254 mm 305 mm 356 mm 406 mm 457 mm 508 mm 559 mm 610 mm 660 mm 711 mm 762 mm 813 mm 864 mm	305 mm	356 mm	406 mm	457 mm	508 mm	559 mm	610 mm	099 mm	711 mm	762 mm	813 mm	864 mm	914 mm
	(10 in)	(12 in)	(14 in)	(16 in)	(18 in)	(20 in)	(22 in)	(24 in)	(26 in)	(28 in)	(30 in)	(10 in) (12 in) (14 in) (16 in) (18 in) (20 in) (22 in) (24 in) (26 in) (28 in) (30 in) (32 in) (34 in)	(34 in)	(36 in)
Conveyor Length Reference	0170	0.				000	0001 increments up to	ents up to	:				10	1000
Conveyor Length (L)	508 mm (1.7 ft)	(1.7 ft)				3 mm (C	3 mm (0.12 in) increments up to	rements I	np to				3,048 mm (10 ft)	n (10 ft)

NOTE: Conveyor longer than 3,658 mm (12 ft) will be constructed using two equal length frames. *NOTE: Max length varies based on tail section.



2200 SERIES PRECISION MOVE FLAT & CLEATED BELT END DRIVE



Specifications

- · Loads up to 91 kg*
- Belt speeds up to 113 m/min
- · Belt widths: 25 mm to 610 mm
- · Conveyor lengths: 457 mm to 9,144 mm
- 38 mm pitch diameter drive pulley turns approximately
 121 mm of belt per revolution
- T10 profile cogged belt with 12 tooth drive pulley
- Conveyor mechanical accuracy ± 0.5 mm
- Conveyor package w/servo motor index accuracy ± 1 mm
- 12 mm diameter integral drive shaft
- Reverse V-Guide provides positive belt tracking, even under demanding side load applications



STANDARD FEATURE: Reverse V-Guide

Provides positive tracking along the entire length of the conveyor



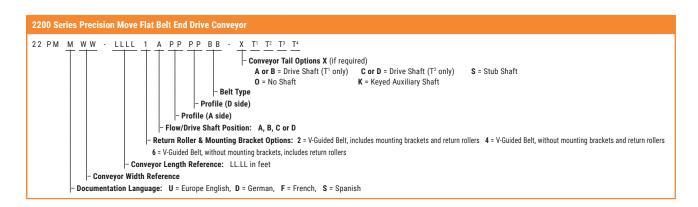
Positive Drive Belting

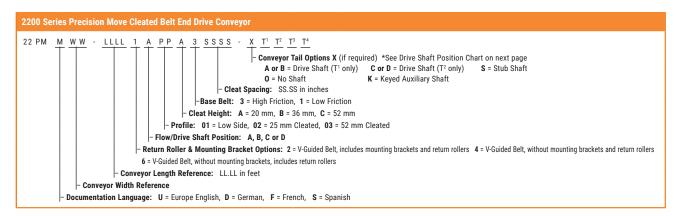
Positivity driven belt ensures belt does not slip and allows for higher load capacity



OPTIONAL:
3 Cleat Heights Available

(20 mm, 36 mm, or 52 mm)

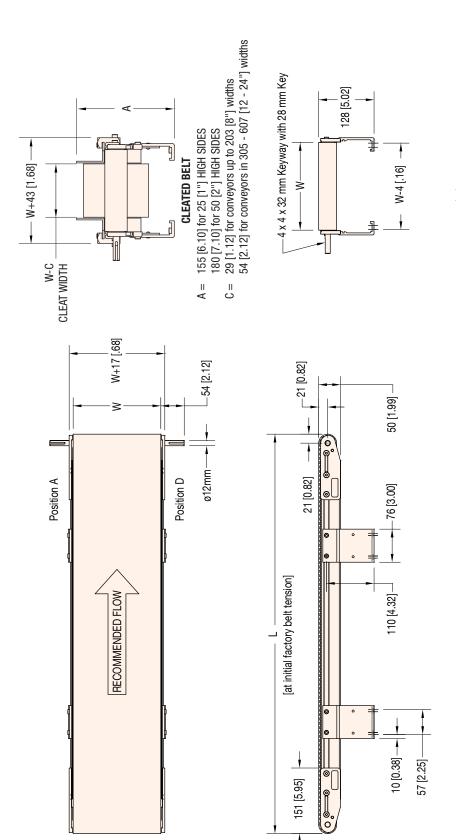


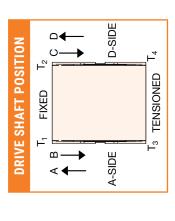


^{*} Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.



PRECISION MOVE FLAT & CLEATED BELT END DRIVE 2200 SERIES





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STANDARD SIZES								
Conveyor Width Reference	10	02	04	90	80	12	18	24
Conveyor Belt Width (W)	25 mm*	45 mm	95 mm	152 mm	203 mm	305 mm	457 mm	607 mm
Conveyor Length Reference	01	0150		0002 increm	0002 increments up to		30	3000
Conveyor Length	457 mm	mm		5 mm increm	5 mm increments up to		9,14	9,144 mm

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

Conveyors from 3658 to 5488 mm will be constructed using two equal length frame sections. Conveyors from 5487 to 8229 mm in length will be constructed using three equal length frame sections. Conveyors from 8230 to 9144 mm in length will be constructed using four equal length frame sections. *Cleats not available for 25 mm wide Precision Move Conveyors.

PRECISION MOVE FLAT BELT MID DRIVE



Specifications

- · Loads up to 91 kg*
- Belt speeds up to 113 m/min
- · Belt widths: 25 mm to 610 mm
- Conveyor lengths: 457 mm to 9,144 mm
- 51 mm pitch diameter drive pulley turns approximately 160 mm of belt per revolution
- · T10 profile cogged belt with 16 tooth drive pulley
- · Conveyor mechanical accuracy ± 0.5 mm
- · Drive shaft options:
 - 12 mm diameter integral drive shaft
 - 16 tooth 0.50 inch diameter hollow spline drive
- Reverse V-Guide provides positive belt tracking, even under demanding side load applications



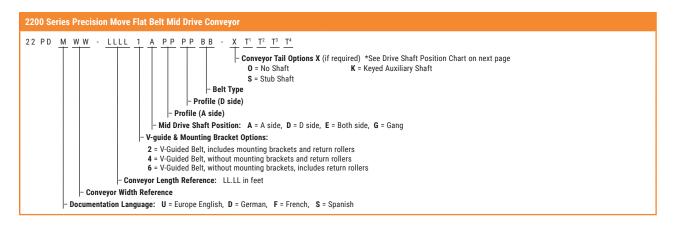
STANDARD FEATURE: Reverse V-Guide

Provides positive tracking along the entire length of the conveyor



Positive Drive Belting

Positively driven belt ensures belt does not slip and allows for higher load capacity



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



W+17 [.68]

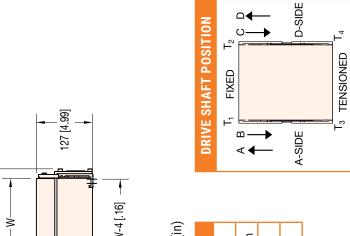
RECOMMENDED FLOW

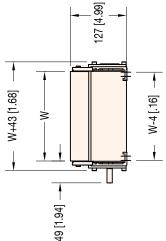
.ø12 mm with 4 x 4 x 32 mm Keyway with 28 mm Key

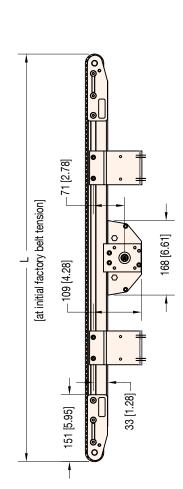
Position D

2200 SERIES

□◀





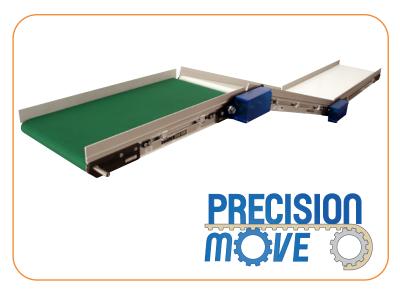


W = Conveyor Belt Width Dim = mm (in)

Conveyor Width Reference 01 02 04 06 08 12 18 24 Conveyor Belt Width (W) 25 mm 45 mm 95 mm 152 mm 203 mm 457 mm 607 mm Conveyor Length Reference 0150 0150 0002 increments up to 305 mm 3014 mm	STANDARD SIZES								
th (W) 25 mm 45 mm 95 mm 152 mm 203 mm 305 mm 457 mm teference 0150 0002 increments up to 300 teference 457 mm 5 mm increments up to 9,144	Conveyor Width Reference	01	02	04	90	80	12	18	24
leference01500002 increments up to457 mm5 mm increments up to	Conveyor Belt Width (W)	25 mm	45 mm	95 mm	152 mm	203 mm	305 mm	457 mm	607 mm
457 mm 5 mm increments up to	Conveyor Length Reference	01	50		0002 increm	ents up to		30	00
	Conveyor Length	457	mm		5 mm increm	nents up to		9,144	mm :

NOTE: Actual conveyor length may need to be adjusted to match belt pitch. Conveyors from 3658 to 5486 mm will be constructed using two equal length frame sections. Conveyors from 5487 to 8229 mm in length will be constructed using three equal length frame sections. Conveyors from 8230 to 9144 mm in length will be constructed using four equal length frame sections.

Position A



Specifications

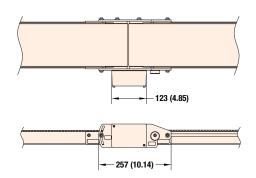
- · Link multiple conveyors with 1 drive
- · Adjustable angle from 0° to 25°
- · Variety of timing belt ratios available
 - 1:1, 1.27:1, 1.75:1, 2:1 can be used to speed or slow down the conveyor
- Maximum number of conveyors = 3
- · Pull or close gaps between product
- · Change belt types on each conveyor
- Includes tie plates, pulley kit, tension adjustment and guard
- Utilize low, high friction belts, and/or multiple
 - speeds in a single configuration
- Can not be used with cleated belt applications

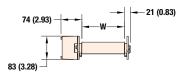


Part Number	Drive	Driven	Infeed Conveyor
	Teeth	Teeth	Speed Condition
202363-1632	16	32	2X Speed Up
202363-1628	16	28	1.75X Speed Up
202363-2228	22	28	1.27X Speed Up
202363-2222	22	22	Same Speed
202363-2822	28	22	0.78X Slow Down
202363-2816	28	16	0.57X Slow Down
202363-3216	28	16	2X Slow Down

STANDARD FEATURE: Slave Drive Kit

Includes tie plates for both sides of conveyor and timing belt / pulleys and guard





Dim = mm (in)



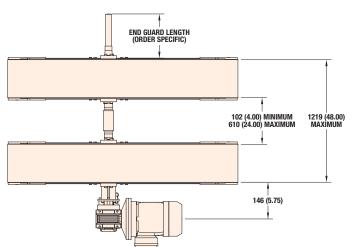


Mid Drive Gang Driven Conveyors

Specifications

- · Adjustable for various product widths
- · Drive moveable between tails
- · Frees up ends of conveyor
- Conveyor center distances can be moved while conveyor is running
- Minimum width (x) = 101 mm belt to belt (with std. guarding)
- Minimum width (x) = 45 mm belt to belt without guarding (end user responsible for point of installation guarding)
- Maximum width (y) = 1,219 mm belt to belt
- · Maximum total torque = 9 Nm
- Compatible with side mount gearmotor package
- Requires 13 mm (0.50 in) diameter 16 tooth spline drive shaft

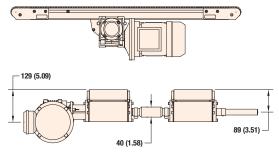




Gang Driven Side Mount Package

Specifications

- Compatible with all standard load and heavy load 90° gearmotors
- Conveyor position is adjustable along length of spline drive shaft
- Includes shafts, couplings, and expandable shaft guarding
- Mount package is attached to the first conveyor
- Maximum number of conveyors = 3
- Maximum total torque = 9 Nm



Refer to page 45 for belt speed options.

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

Dim = mm (in)





Precision Move Servo Bottom and Flush Mount Package

Specifications

- Capable of standard bottom mount position and flush mount for wide product handling
- · Includes rack and pinion timing belt tension system allowing reversing capability
- · Includes high strength timing belt drive pulleys

Servo Gearmo	tor or Reducer (Only	
Description	Part Number	Gearmotor Pulley	Conveyor Pulley
Bottom Mount Flush Mount	202436-A* 202437-A*	36 tooth 36 tooth	32 tooth 21 tooth

*A = Mount position (A, B, C, D)



Precision Move Servo Gearhead Only

Specifications

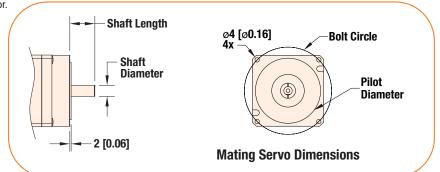
- Offered as mount package and gearhead only
- · Inline planetary reducer
- 3:1, 4:1, 5:1, 7:1, and 10:1 ratios available
- 93% efficient
- 13 arc-minute backlash
- 20,000 hr rated
- · RoHS compliant

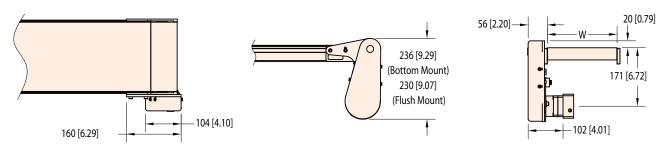
Gear Reducer for Customer Specified Motor

Generalize	ed Sizes					
Shaft D	iameter	Shaft I	Length	Bolt (Circle	Pilot Diameter
Min	Max	Min	Max	Min	Max	Max
0.24 (6)	0.55 (14)	0.67 (17)	1.54 (39)	2.36 (60)	4.13 (105)	3.15 (80)

Dim = mm (in)

NOTE: These are generalized guidelines for mating adapters. Consult DTools or customer service to identify proper adapter for given motor.

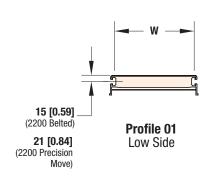


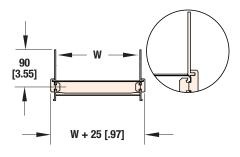


Dim = mm (in)

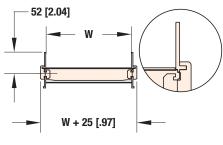


2200/2700 SERIES

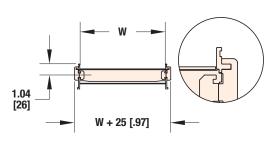




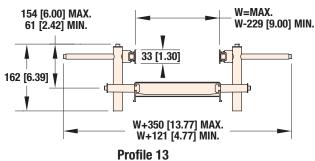
Profile 04 76 mm (3 in) Aluminum Side



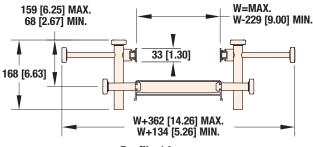
Profile 05 38 mm (1.5 in) Aluminum Side



Profile 0913 mm (0.5 in) Aluminum Side







Profile 14Tool-less Adjustable Guiding 33 mm (1.3 in) HDPE Face

* = Not available on Gravity Roller Conveyors and do not use with high friction belts

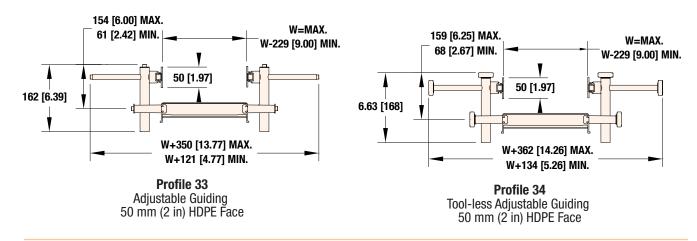
W = Conveyor Belt Width Dim = mm (in)

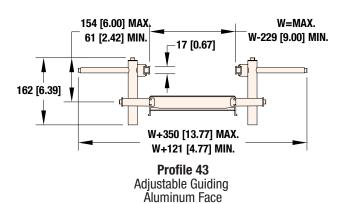


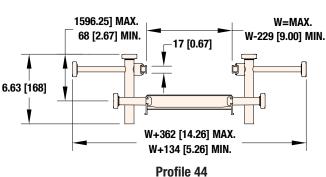


Profile 13 Flat Belt - Adjustable Guiding



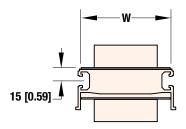




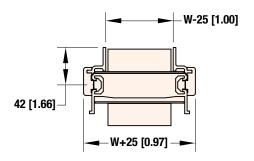


Profile 44
Tool-less Adjustable Guiding
Aluminum Face

W = Conveyor Belt Width Dim = mm (in)

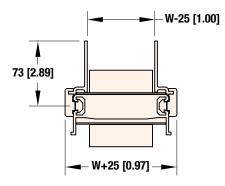


Cleated Profile 0 Low Side Cleated

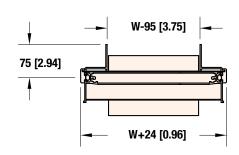


Cleated Profile 2/4 25 mm (1 in) Aluminum Side

Note: Profile 2 is cut 45 degree on both end - for reversing applications Profile 4 is cut 45 degree on infeed end, 90 degree on discharge



Cleated Profile 3/5 64 mm (2.5 in) Aluminum Side



Cleated LPZ Profile 3 64 mm (2.5 in) Aluminum Side

Note: Profile 3 is cut 45 degree on both end - for reversing applications Profile 5 is cut 45 degree on infeed end, 90 degree on discharge





Profile 04 Flat Belt - Aluminum Side



Profile 3 Cleated LPZ - Aluminum Side

2200/2700 SERIES





S	tan	da	rd Belt Select	ion	Gu	ide		Standard b then cut &						orner, st conveyor shipment.
Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper	Belt Specifications	V-Guidable	16 mm Nose Bar	Belt Thickness	Surface Material	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Anti-Static	ESD	Chemical Resistance	Special Characteristics or Applications
01	A1	1A	FDA Accumulation	Х		1.7 mm	Urethane	100°C	Low	х	х		Good	Packaging, clean room and inspection
02	A2	2A	General Purpose	х		1.8 mm	Urethane	100°C	Med	х	х		Good	Most versatile belt offering
03	А3	3A	FDA High Friction	Х		1.7 mm	Urethane	100°C	High	х	х		Good	Packaging, clean room and inspection
05	A5	5A	Accumulation	Х	Х	1.2 mm	Urethane	100°C	V-Low	х	х		Good	Accumulation of products
06	A6	6A	Static Dissipative	Х		1.6 mm	Urethane	80°C	V-Low		х	х	Good	Electronics Handling
08	A8	8A	High Friction	Х		2.1 mm	PVC	70°C	V-High		х		Poor	Conveys up to 35° inclines*
09			iDrive General Purpose	х	х	1.5 mm	Urethane	100°C	High	Х			Good	Lower No Load Torque

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

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.

BELT SPLICING



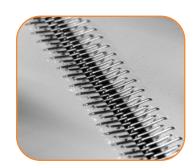
Finger Splice

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 2200 Series Nose Bar Transfers. Plastic and Metal Clippers are slightly thicker than base belt. Contact factory for details.

^{*}Incline varies due to factors like dust, fluids and part material.



Sp	ec	ialt	ty Belt Selecti	on	Gui	de								nt Dorner and needs conveyor needs.
Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper	Belt Specifications	V-Guideable	16 mm Nose Bar	Belt Thickness	Surface Material	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Anti-Static	Static Conductive	Chemical Resistance	Special Characteristics or Applications
19			Nose bar High friction		χ	0.7 mm	Urethane	100°C	High	Х	х		Good	Nose bar, high friction
50			Heat Resistant			1.3 mm	Silicone	180°C	Low		Х		V-Good	High temperature
53			Translucent		χ	0.5 mm	Urethane	100°C	V-Low	Х			Good	Back lit inspection
54	F4	4F	FDA Sealed Edge**	χ		1.6 mm	Urethane	80°C	Low	Х	Х		Good	Packaging, clean room and inspection
55	F5	5F	FDA Sealed Edge**	Х		1.6 mm	Urethane	80°C	High	Х	Х		Good	Packaging, clean room and inspection
56		6F	Cut Resistant	Х		2.1 mm	Urethane	100°C	Med.		Х		Good	Oily product release, metal stamping
57		7F	Cut Resistant	Х		2.5 mm	Nitrile	80°C	Med.		Х		Poor	Felt-like, dry metal stamping, glass and ceramic
58		8F	Cut Resistant	χ		1.6 mm	Urethane	90°C	Low		Х		Good	Surface gold colored
59	F9	9F	Color Contrasting	х		1.6 mm	PVC	70°C	Med.		х		Poor	Black colored, hides overspray from ink jet
60	G0	0G	Color Contrasting	Х	Х	1.3 mm	Urethane	100°C	Low	х	Х		Good	Green colored
61	G1	1G	Color Contrasting	Х	Х	1.3 mm	Urethane	100°C	Low	Х			Good	Blue colored
63		3G	Electrically Conductive	Х		1.2 mm	Urethane	80°C	Low		Х	Х	Good	Static conductive, electronics handling
64		4G	High Friction	х		4.4 mm	PVC	80°C	V-High		х		Poor	Dark Green colored, rough top surface, product cushioning, incline/decline apps
66		6G	Chemical Resistant	Х		1.7 mm	Polyester	100°C	Med.	Х	Х		V-Good	Good cut resistance, metal stamping apps
67			Low Friction Cleated (Do not use with Z-Frame)	х		1.6 mm	Polyester	100°C	n/a	х			Good	Excellent product release, consult factory for part number and how to specify low friction
68	G8		FDA Encased**	х		1.5 mm	Urethane	80°C	Low	х	х		Good	Urethane enclosed for added sanitary protection
69	G9		FDA Encased**	х		2.2 mm	Urethane	80°C	Med.	Х	х		Good	Urethane enclosed for added sanitary protection
71			FDA High Release	Х		1.8 mm	Urethane	100°C	Low	Х			Good	High release cover
72			Nose bar	Х	Х	1.2 mm	Urethane	100°C	Med.	Х	Х		Good	16 mm Nose bar, medium friction
73			Nose bar Low friction		Х	0.9 mm	Urethane	100°C	Low	Х	Х		Good	Nose bar, low friction
75			Black Urethane	Х		1.5 mm	Urethane	80°C	Low		Х		Good	
76			Black Nose bar	Х	Х	1.2 mm	Urethane	80°C	Med.		х		Good	Black Color, 5/16" nose bar
77			High Friction, green	х		2.2 mm	Urethane	100°C	High		х		Good	Green color, high friction, urethane, grooved
78			Chemical, Polyolefin, HF			1.4 mm	Polyolefin	60°C	High	Х			V-Good	Chemical resistant, food grade
79			Chemical, Polyolefin, LF			1.3 mm	Polyolefin	60°C	Med.	х	Х		V-Good	Chemical resistant, food grade
80			High Friction, silicone	Х	Х	1 mm	Silicone	80°C	High	х			Good	Silicone material, high friction
81			Low Friction, silicone	Х	Х	1 mm	Silicone	100°C	Med.	х			Good	Silicone material, low to medium friction

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

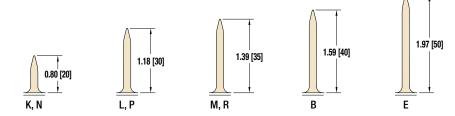
Note: Conveyors wider than 1,016 mm require V-Guide belt tracking

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.



^{**} Not available in 51 mm widths

Cleated Belt Profiles



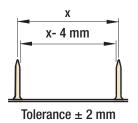
Cleated Belt	Selection G	ıide							
Cleat Type	Base Belt	Belt Thickness	Surface Material	Color	Coefficient of Friction	V-Guidable	Maximum Part Temperature	FDA Approved	Chemical Resistance
K, L, B, E	G-3-ST	2 mm	PVC	Green	Medium	No	80° C	No	Poor
K, L, M, B, E, N, P, R	G-3-ST-W	1.3 mm	Urethane	White	Medium	Yes	90° C	Yes	Good

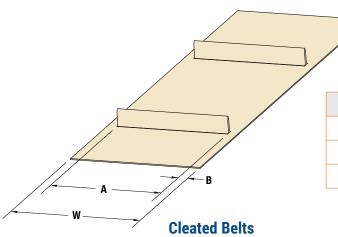
Note: For Straight Cleated Conveyors = 20, 30, 35 mm For LPZ Cleated Conveyors = 20, 30, 35, 40, 50 mm For LPZ Sidewall Cleated Conveyors = 20, 30, 35 mm

Cleated Belt Spacing

Minimum cleat spacing = 50 mm
 Cleat Selection could impact the minimum spacing.
 Contact the factory for details.

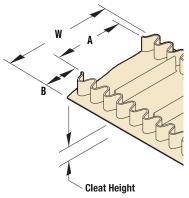
*Maximum cleat spacing for 457 mm and wider conveyors = 500 mm





Conveyor Type	Cleat/Pocket Width (A)	Offset (B)
Straight Cleated	W-40 mm	20 mm
LPZ Cleated	W-102 mm	51 mm
LPZ Sidewall Cleated	W-190 mm	80 mm

W = Width A = Cleat Width B = Offset



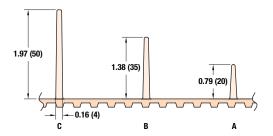
Sidewall Cleated Belts

^{**}Maximum cleat spacing for 2134 mm and longer conveyors = 500 mm 457 mm and wider conveyors are limited to 2100 mm long

Precision Move Belting

Precis	sion M	ove Be	elt Sele	ction Guid	e							
Part Number Reference	Belt Specifications	Tooth Pitch	Thickness	Material	Top Surface	Color	Maximum Part Temperature	Coefficient of Friction	Durometer	FDA Approved	Chemical Resistance	Max Width
1P	Low Friction	10 mm	4.5 mm	Urethane with nylon top	Carcass	Green	91° C	V-Low	N/A		Good	610 mm
3P	High Friction	10 mm	4.5 mm	Urethane	Smooth	White	91° C	High	85A	х	Good	610 mm
2Т	High Strength	10 mm	4.6 mm	Urethane with Kevlar cords	Smooth	Natural	71° C	Med	88A		Good	152 mm

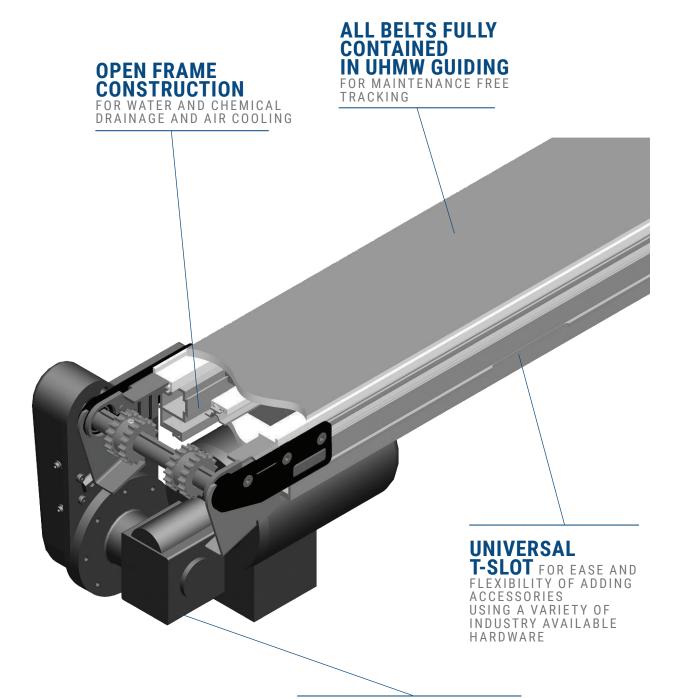
Precision Move Cleat Profiles



Specifications

- Base Belt Material: Belt 3P, 4.5 mm thick, high friction FDA approved urethane, 91° C maximum part temperature
- · Cleat spacing in 10 mm increments
- · Cleats are centered over tooth
- · Minimum cleat spacing is approximately 50 mm

NOTE: 2200 Precision Move cleated widths 457 mm and over will have a 20.5 mm gap in the cleats and use a return assembly that has a center support bearing.



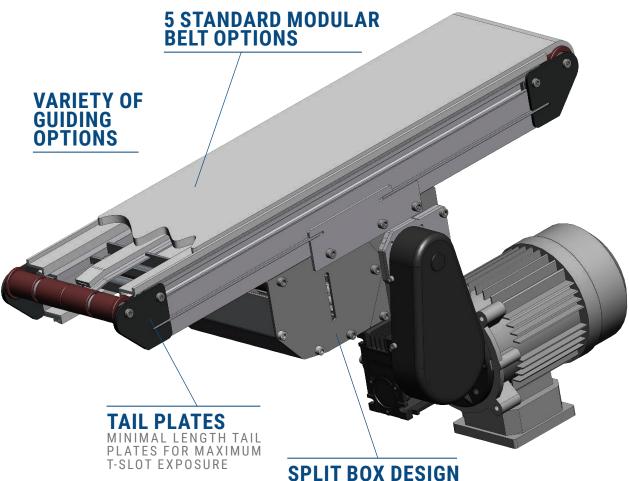
GEARMOTOR

SEALED GEARMOTORS IN SIZES FROM LIGHT LOAD, STANDARD LOAD AND HEAVY LOAD TO MEET YOUR APPLICATION NEEDS.



CENTER DRIVE OPTION

FREES UP SPACE ON BOTH ENDS OF THE CONVEYOR





8 MM NOSEBAR TAIL OPTION

REPLACEMENT WITHOUT REMOVING MOTOR FROM

FOR SMALL PART TRANSFERS

ALLOWS BELT

CONVEYOR

MODULAR BELT END DRIVE







- · Loads up to 68 kg*
- Belt speeds up to 76 m/min
- Belt widths: 76 mm to 610 mm**
- · Conveyor lengths: 457 mm to 9,144 mm
- · Belt options:

Micropitch (General Purpose) Belts

- 8 mm micropitch modular belt
- 43.2 mm pitch diameter 17 tooth drive pulley turns approximately 136 mm of belt per revolution

Metalworking Belts

- 15 mm pitch modular belt
- 47.8 mm pitch diameter 10 tooth drive pulley turns approximately 150 mm of belt per revolution
- 12 mm diameter integral drive shaft
- Fully encapsulated in frame belt return



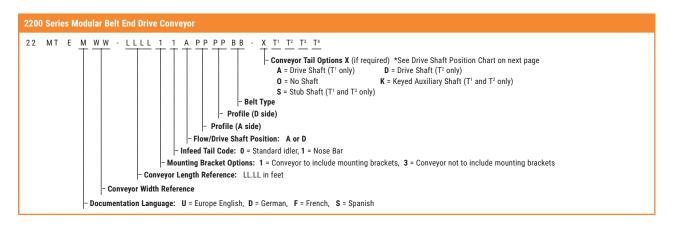
STANDARD FEATURE: OPEN FRAME DESIGN

for water and chemical drainage and air cooling



OPTIONAL: 8 mm Nose Bar Transfer

Belt Speed up to 53.3 m/min (Micropitch Modular Belt only)



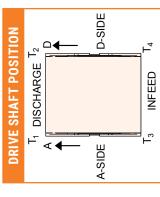
^{*} Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

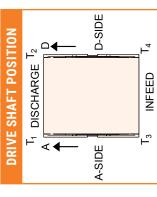
Order gearmotor mounting packages and gearmotors separately, see pages 48-62 For support stands and accessories, see page 66-67



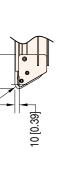
^{**} Belt selection limits width options

2200 SERIES





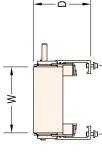




—78 [3.09]

ø20 [ø0.78]–

OPTIONAL NOSE BAR TRANSFER



B

A B

-56 [2.19]

W+5 [.20]

-76 [3.00]

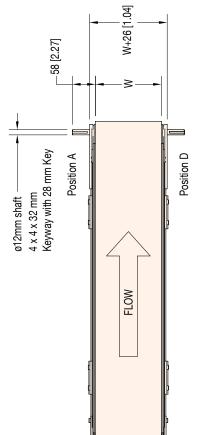
110 [4.32]

10 [0.38] 57 [2.25] - W = Conveyor Belt Width Dim = mm (in)

D=132 [5.20] FOR MICROPITCH BELT 135 [5.32] FOR METALWORKING BELT 81 [3.18] FOR METALWORKING BELT C=78 [3.08] FOR MICROPITCH BELT

102 [4.00] FOR METALWORKING BELT B=25 [.99] FOR MICROPITCH BELT 28 [1.09] FOR METALWORKING BELT A=99 [3.90] FOR MICROPITCH BELT

Standard Micropitch Sizes						
Conveyor Width Reference	04	90	80	12	18	24
Conveyor Belt Width (W)	102 mm	152 mm	203 mm	305 mm	457 mm	610 mm
Conveyor Length Reference	0150		0001 increments up to	ents up to		3000
Conveyor Length (L)	457 mm		0.1" (3mm) increments up to	ements up to		9144 mm
Standard Metalworking Sizes						
Conveyor Width Reference	03	90	60	12	18	24
Conveyor Belt Width (W)	76 mm	152 mm	229 mm	305 mm	457 mm	610 mm
Conveyor Length Reference	01	0150	0001 increments up to	ents up to	30	3000
Conveyor Length (L)	457	457 mm	3 mm increments up to	ents up to	9147	9144 mm





Specifications

- Loads up to 68 kg*
- · Belt speeds up to 76 m/min
- · Belt widths: 76 mm to 610 mm**
- · Conveyor lengths: 813 mm to 9,144 mm
- · Belt options:

Micropitch (General Purpose) Belts

- 8 mm micropitch modular belt
- 43.2 mm pitch diameter 17 tooth drive pulley turns approximately 136 mm of belt per revolution

Metalworking Belts

- 15 mm pitch modular belt
- 47.8 mm pitch diameter 10 tooth drive pulley turns approximately 150 mm of belt per revolution
- 0.75 inch diameter integral drive shaft
- · Fully encapsulated in frame belt return



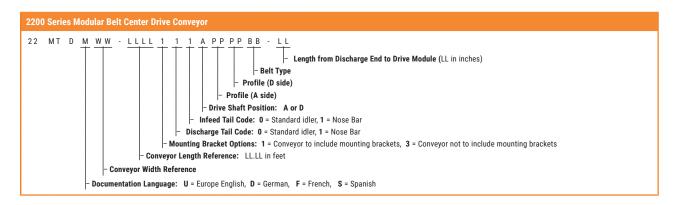
STANDARD FEATURE: OPEN FRAME DESIGN

for water and chemical drainage and air cooling



OPTIONAL: 8 mm Nose Bar Transfer

Belt Speed up to 53.3 m/min (Micropitch Modular Belt only)



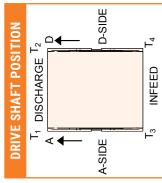
^{*} Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

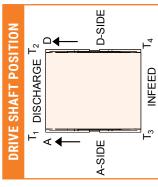
** Belt selection limits width options

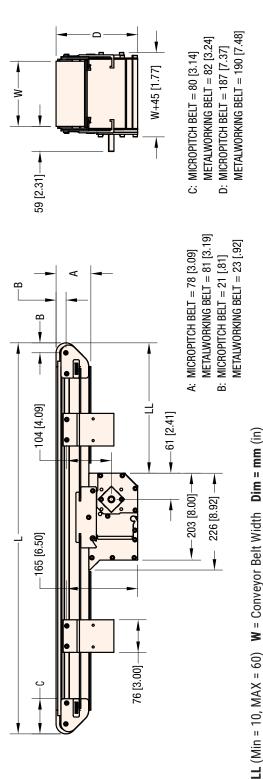
Order gearmotor mounting packages and gearmotors separately, see pages 48-62 For support stands and accessories, see page 66-67



2200 SERIES







Standard Micropitch Sizes						
Conveyor Width Reference	04	90	80	12	18	24
Conveyor Belt Width (W)	102 mm	152 mm	203 mm	305 mm	457 mm	610 mm
Conveyor Length Reference	0150		0001 increments up to	ents up to		3000
Conveyor Length (L)	457 mm		3 mm increments up to	nents up to		9144 mm
Standard Metalworking Sizes						
Conveyor Width Reference	03	90	60	12	18	24
Conveyor Belt Width (W)	76 mm	152 mm	229 mm	305 mm	457 mm	610 mm
Conveyor Length Reference	0267	57	0001 increm	0001 increments up to	30	3000
Conveyor Length (L)	813 mm	mm	3 mm increm	3 mm increments up to	9144 mm	mm

W+21 [.84]

FLOW

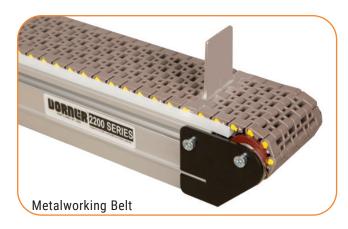
Position A

-4x4x32 mm Keyway

ø12mm shaft

Position D

with 28mm Key



Specifications

- · Loads up to 68 kg*
- · Belt speeds up to 76 m/min
- · Belt widths: 76 mm to 610 mm**
- · Conveyor lengths: 457 mm to 9,144 mm
- · Belt options:

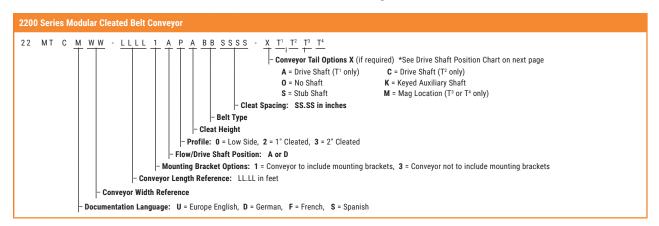
Metalworking Belt

- 47.8 mm pitch diameter 10 tooth drive pulley turns approximately 150 mm of belt per revolution
- 12 mm diameter integral drive shaft
- · Fully encapsulate in frame belt return



STANDARD FEATURE: OPEN FRAME DESIGN

for water and chemical drainage and air cooling



 $[\]boldsymbol{\star}$ Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.

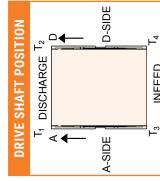
Order gearmotor mounting packages and gearmotors separately, see pages 48-62 For support stands and accessories, see page 66-67

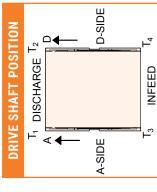


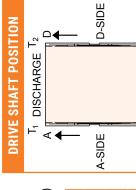
^{**} Belt selection limits width options

--- W+65 [2.57] ---

2200 SERIES



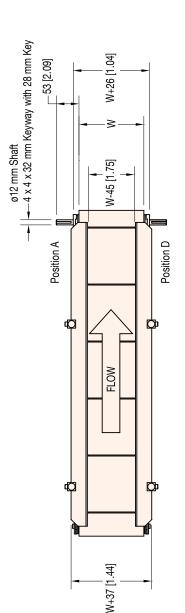


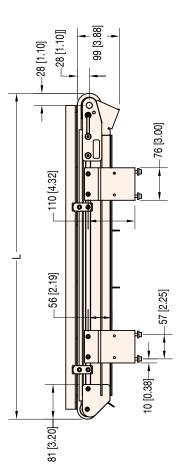


H=162 [6.38] FOR 25 mm [1 in] TALL CLEATED PROFILE H=188 [7.38] FOR 50 mm [2 in] TALL CLEATED PROFILE

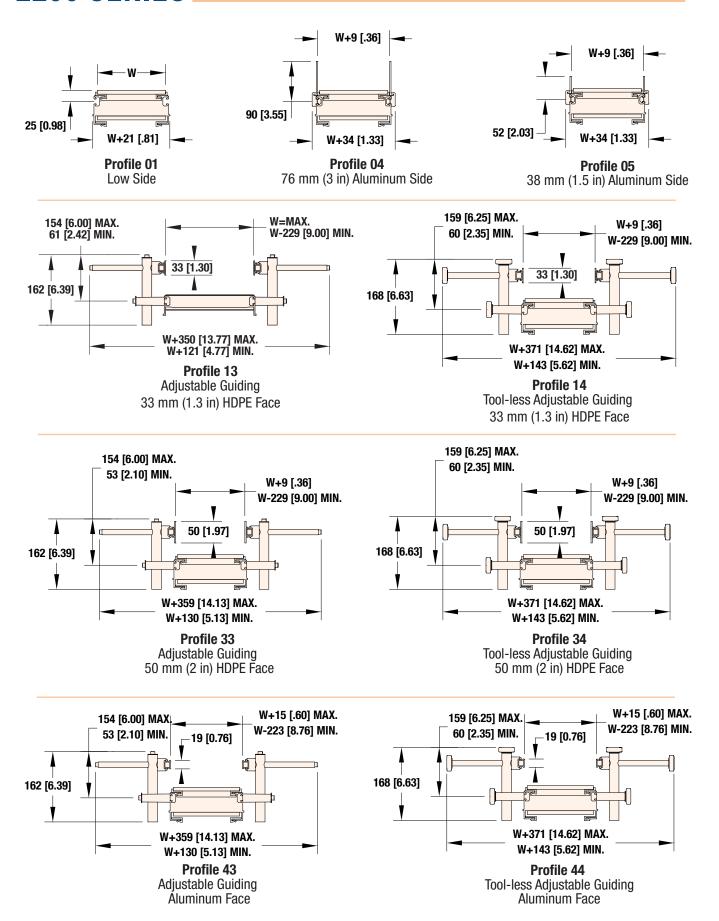
W+5 [.20]

135 [5.31]





				W = Cc	W = Conveyor Belt Width Dim = mm (in)	Dim = mm (in)
Standard Metalworking Sizes						
Conveyor Width Reference	03	90	60	12	18	24
Conveyor Belt Width (W)	76 mm	152 mm	229 mm	305 mm	457 mm	610 mm
Conveyor Length Reference	0150	50	0001 increments up to	ents up to	3000	0
Conveyor Length (L)	457 mm	mm	3 mm increments up to	ents up to	9144mm	mu



W = Conveyor Belt Width Dim = mm (in)

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

MODULAR BELTS PROFILES AND BELT SELECTION 2200 SERIES

St	andard Modular B	elt S	electi	on Gui	de							
Belt Type	Description	Percent Open	Tooth Pitch	Thickness	Material	Color	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Nose Bar	Cleated	Chemical Resistance
01	Micropitch, Closed Mesh	N/A	8.1 mm	6 mm	Acetal	Blue	93 deg C	0.25	Х	Χ		Good
30	Metalworking Accumulation, Open Mesh	26%	15 mm	8.7 mm	Acetal	Brown	82 deg C	0.22	Χ		Χ	Good
31	Metalworking Chemical Resistant, Open Mesh	26%	15 mm	8.7 mm	Polypropylene	White	104 deg C	0.33	Χ		Χ	Excellent
40	Metalworking Accumulation, Closed Mesh	N/A	15 mm	8.7 mm	Acetal	Brown	82 deg C	0.22	Χ		Χ	Good
41	Metalworking Chemical Resistant, Closed Mesh	N/A	15 mm	8.7 mm	Polypropylene	White	104 deg C	0.33	Х		Х	Excellent

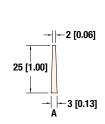
Note: White belt is available, contact factory for details.

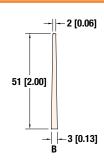
Spe	cialty Modular E	Belt S	Selecti	on Gu	ide							
Belt Type	Description	Percent Open	Tooth Pitch	Thickness	Material	Color	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Nose Bar	Cleated	Chemical Resistance
02	Micropitch, Open Mesh	34%	8.1 mm	6 mm	Acetal	Blue	93 deg C	0.3	Х	Х		Good
32	Metalworking Heat Resistant, Open Mesh*	26%	15 mm	8.7 mm	Nylon	Black	190 deg C	0.3				Good
42	Metalworking Heat Resistant, Closed Mesh*	N/A	15 mm	8.7 mm	Nylon	Black	190 deg C	0.3				Good

Note: White belt is available, contact factory for details.

Cleated Belt Profiles

 Metalworking belt conveyors only. See page 36 & 37 for more details.



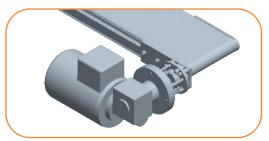


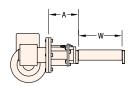


^{*} Although the belt material can handle temperatures up to 190 deg C, the core temperature of belt must not exceed 104 deg C. Please consult the factory for details. Also note: the conveyor wearstrip material located under the belt is designed for temperatures up to 79 deg C For applications exceeding these temperatures contact the factory.

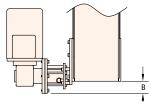
END DRIVE MOUNTING PACKAGES

Side Mount Package, 90° Gearmotor





A: 2200 Light Load - 97 mm [3.83 in] 2200 Light Load - 97 Hill [3.63 H] 2200 Standard Load - 102 mm [4.02 in] 2200 Heavy Load - 102 mm [4.02 in] 2700 Series - 108 mm [4.26 in]

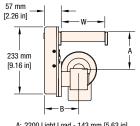


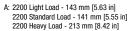
B: 2200 Light Load - 26 mm [1.03 in] 2200 Standard Load - 42 mm [1.65 in] 2200 Heavy Load - 42 mm [1.65 in] 2700 Series - 18 mm [0.72 in]

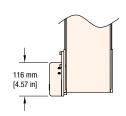
· Includes gearmotor mounting bracket, coupling, coupling guard and mounting hardware

Bottom Mount Package, 90° Gearmotor (2200 only*)







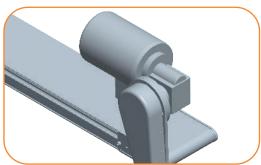


B: 2200 Light Load - 101 mm [4.00 in] 2200 Standard Load - 119 mm [4.69 in] 2200 Heavy Load - 111 mm [4.38 in]

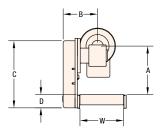
· Includes gearmotor mounting bracket, timing belt and pulleys, guard cover and mounting hardware

*for 2700 see flush bottom mount

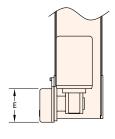
Top Mount Package, 90° Gearmotor



· Includes gearmotor mounting bracket, timing belt and pulleys, guard cover and mounting hardware

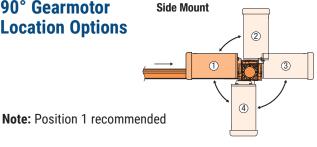


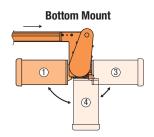
- 2200 Light Load 158 mm [6.21 in] 2200 Standard Load - 159 mm [6.29 in] 2200 Heavy Load - 167 mm [6.56 in] 2700 Series - 161 mm [6.33 in]
- B: 2200 Light Load 102 mm [4.00 in] 2200 Standard Load - 119 mm [4.69 in] 2200 Heavy Load - 111 mm [4.38 in] 2700 Series - 108 mm [4.26 in]

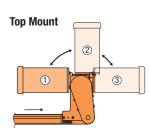


- C: 2200 Series 233 mm [9.16 in] 2700 Series - 235 mm [9.25 in]
- D: 2200 Series 54 mm [2.15 in] 2700 Series - 63 mm [2.46 in]
- E: 2200 Series 116 mm [4.57 in] 2700 Series - 103 mm [4.06 in]









Consult factory for details

Note: Conveyor and gearmotor are not included in the mounting package and must be ordered separately.

W = Conveyor Belt Width Dim = mm (in)

For ordering information, see page 52



2200 End Drive Belt Speed

2200 Belt	2200 Precision Move	2200 LPZ	Micropitch Belts 01 and 02	Metalworking Belts 30 thru 42	RPM From	Mount P	ackage	Pulle	ey Kit	Ge	earmotor C	hart
Meter/min	Meter/min	Meter/min	Meter/min	Meter/min	Gearmotor	Top & Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load	Heav Load
2.3	2.8	4.5	3.1	3.5	23	Х	Χ	28	28			5
2.6	3.0	4.9	3.4	3.8	25	Х	Х	28	28	1	3	
3.7	4.3		4.9	5.4	23	Х		44	28			5
4.0	4.7		5.3	5.9	25	Х		44	28	1	3	
4.7	5.5		6.3	6.9	23	Х		44	22			5
4.8	5.6	9.2	6.4	7.1	47	Х	Χ	28	28	1	3	5
5.1	6.0		6.8	7.5	25	Х		44	22	1	3	
5.1	6.0		6.8	7.5	23	Х		48	22			5
5.6	6.5		7.4	8.2	25	Х		48	22	1	3	
6.8	8.0	13.1	9.1	10.1	67	Х	Χ	28	28			5
7.1	8.4	13.6	9.5	10.5	70	Х	Х	28	28	1	3	
7.5	8.9		10.0	11.1	47	Х		44	28	1	3	5
9.5	11.2	18.1	12.6	14.0	93	Х	Χ	28	28	1	3	5
9.6	11.3		12.8	14.1	47	Х		44	22	1	3	5
10.5	12.3		13.9	15.4	47	Х		48	22	1	3	5
10.8	12.6		14.3	15.8	67	Х		44	28			5
11.2	13.2		15.0	16.5	70	Х		44	28	1	3	
12.7	14.9	24.2	16.9	18.6	124	Х	Χ	28	28		3	
13.7	16.1		18.2	20.1	67	Х		44	22			5
14.3	16.8	27.3	19.0	21.0	140	Х	Χ	28	28	1		
14.3	16.8		19.0	21.0	70	Χ		44	22	1	3	
14.8	17.4	28.2	19.7	21.8	145	Х	Χ	28	28			5
14.9	17.5		19.9	21.9	93	Х		44	28	1	3	5
14.9	17.5		19.9	21.9	67	Х		48	22			5
15.6	18.3		20.8	22.9	70	Х		48	22	1	3	
19.0	22.3		25.3	27.9	93	Х		44	22	1	3	5
19.9	23.4		26.5	29.2	124	Х		44	28		3	
20.4	24.0	39.0	27.2	30.0	200	Х	Χ	28	28	1	3	
20.7	24.3		27.6	30.4	93	Х		48	22	1	3	5
21.4	25.2	40.9	28.6	31.5	210	Х	Х	28	28			5
22.5	26.4		29.9	33.0	140	Х		44	28	1		
23.3	27.3		31.0	34.2	145	Х		44	28			5
25.3	29.8		33.7	37.2	124	Х		44	22		3	
27.6	32.5		36.8	40.6	124	Х		48	22		3	
28.6	33.6		38.1	42.0	140	Х		44	22	1		
29.6	34.8		39.4	43.5	145	Х		44	22			5
31.2	36.7		41.5	45.8	140	Х		48	22	1		
32.1	37.7		42.7	47.1	200	Х		44	28	1	3	
32.3	38.0		43.0	47.5	145	Х		48	22			5
33.7	39.6		44.9	49.5	210	Х		44	28			5
40.9	48.0		54.4	60.0	200	Х		44	22	1	3	
42.9	50.4		57.1	63.0	210	Х		44	22			5
44.6	52.4		59.3	65.5	200	Х		48	22	1	3	
46.8	55.0		62.3	68.7	210	Х		48	22			5



2200/2700 SERIES END DRIVE BELT SPEED CHARTS

2200 End Drive Belt Speed

			2200 Mo	dular Rolt								
2200 Belt	2200 Precision Move	2200 LPZ	Micropitch Belts 01 and 02		RPM From Gearmotor	Mount P	ackage	Pulle	ey Kit	Ge	earmotor C	Chart
Meter/min	Meter/min	Meter/min	Meter/min	Meter/min	at 50 Hz	Top & Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load	He: Lo
0.9 - 3.2	1.1 - 3.9	1.8 - 6.3	1.2 - 4.3	1.4 - 4.9	23	Х	Χ	28	28			į
1.0 - 3.6	1.2 - 4.2	2.0 - 6.9	1.4 - 4.8	1.5 - 5.3	25	Х	Х	28	28	1	3	
1.5 - 5.2	1.7 - 6.0		2.0 - 6.9	2.2 - 7.6	23	Х		44	28			
1.6 - 5.6	1.9 - 6.6		2.1 - 7.4	2.4 - 8.3	25	Х		44	28	1	3	
1.9 - 6.6	2.2 - 7.7		2.5 - 8.8	2.8 - 9.7	23	Х		44	22			
1.9 - 6.7	2.2 - 7.8	3.7 - 12.9	2.6 - 9.0	2.8 - 9.9	47	Х	Χ	28	28	1	3	
2.0 - 7.1	2.4 - 8.4		2.7 - 9.5	3.0 - 10.5	25	Х		44	22	1	3	
2.0 - 7.1	2.4 - 8.4		2.7 - 9.5	3.0 - 10.5	23	Х		48	22			
2.2 - 7.8	2.6 - 9.1		3.0 - 10.4	3.3 - 11.5	25	Х		48	22	1	3	
2.7 - 9.5	3.2 - 11.2	5.2 - 18.3	3.6 - 12.7	4.0 - 14.1	67	Х	Χ	28	28			;
2.8 - 9.9	3.4 - 11.8	5.4 - 19.0	3.8 - 13.3	4.2 - 14.7	70	Х	Х	28	28	1	3	
3.0 - 10.5	3.6 - 12.5		4.0 - 14.0	4.4 - 15.5	47	Х		44	28	1	3	
3.8 - 13.3	4.5 - 15.7	7.2 - 25.3	5.0 - 17.6	5.6 - 19.6	93	Х	Χ	28	28	1	3	
3.8 - 13.4	4.5 - 15.8		5.1 - 17.9	5.6 - 19.7	47	Х		44	22	1	3	
4.2 - 14.7	4.9 - 17.2		5.6 - 19.5	6.2 - 21.6	47	Х		48	22	1	3	
4.3 - 15.1	5.0 - 17.6		5.7 - 20.0	6.3 - 22.1	67	Х		44	28			
4.5 - 15.7	5.3 - 18.5		6.0 - 21.0	6.6 - 23.1	70	Х		44	28	1	3	
5.1 - 17.8	6.0 - 20.9	9.7 - 33.9	6.8 - 23.7	7.4 - 26.0	124	Х	Χ	28	28		3	
5.5 - 19.2	6.4 - 22.5		7.3 - 25.5	8.0 - 28.1	67	Х		44	22			
5.7 - 20.0	6.7 - 23.5	10.9 - 38.2	7.6 - 26.6	8.4 - 29.4	140	Х	Χ	28	28	1		
5.7 - 20.0	6.7 - 23.5		7.6 - 26.6	8.4 - 29.4	70	Х		44	22	1	3	
5.9 - 20.7	7.0 - 24.4	11.3 - 39.5	7.9 - 27.6	8.7 - 30.5	145	Х	Χ	28	28			
6.0 - 20.9	7.0 - 24.5		8.0 - 27.9	8.8 - 30.7	93	Х		44	28	1	3	
6.0 - 20.9	7.0 - 24.5		8.0 - 27.9	8.8 - 30.7	67	Х		48	22			
6.2 - 21.8	7.3 - 25.6		8.3 - 29.1	9.2 - 32.1	70	Х		48	22	1	3	
7.6 - 26.6	8.9 - 31.2		10.1 - 35.4	11.2 - 39.1	93	Х		44	22	1	3	
8.0 - 27.9	9.4 - 32.8		10.6 - 37.1	11.7 - 40.9	124	Х		44	28		3	
8.2 - 28.6	9.6 - 33.6	15.6 - 54.6	10.9 - 38.1	12.0 - 42.0	200	Х	Х	28	28	1	3	
8.3 - 29.0	9.7 - 34.0		11.0 - 38.6	12.2 - 42.6	93	Х		48	22	1	3	
8.6 - 30.0	10.1 - 35.3	16.4 - 57.3	11.4 - 40.0	12.6 - 44.1	210	Х	Х	28	28			
9.0 - 31.5	10.6 - 37.0		12.0 - 41.9	13.2 - 46.2	140	Х		44	28	1		
9.3 - 32.6	10.9 - 38.2		12.4 - 43.4	13.7 - 47.9	145	Х		44	28			
0.1 - 35.4	11.9 - 41.7		13.5 - 47.2	14.9 - 52.1	124	Х		44	22		3	
1.0 - 38.6	13.0 - 45.5		14.7 - 51.5	16.2 - 56.8	124	Х		48	22		3	
1.4 - 40.0	13.4 - 47.0		15.2 - 53.3	16.8 - 58.8	140	Х		44	22	1		
1.8 - 41.4	13.9 - 48.7		15.8 - 55.2	17.4 - 60.9	145	Х		44	22			
2.5 - 43.7	14.7 - 51.4		16.6 - 58.1	18.3 - 64.1	140	Х		48	22	1		
2.8 - 44.9	15.1 - 52.8		17.1 - 59.8	18.8 - 65.9	200	Х		44	28	1	3	
2.9 - 45.2	15.2 - 53.2		17.2 - 60.2	19.0 - 66.5	145	Х		48	22			
3.5 - 47.2	15.8 - 55.4		18.0 - 62.9	19.8 - 69.3	210	Х		44	28			
6.4 - 57.3	19.2 - 67.2		21.8 - 76.2	24.0 - 84.0	200	Х		44	22	1	3	
7.2 - 60.1	20.2 - 70.6		22.8 - 79.9	25.2 - 88.2	210	Х		44	22			;
				26.2 - 91.7	200	Х		48	22	1	3	



2700 End Drive Belt Speed

Fixe	d Spe	ed						
2700	Belt	RPM From	Mount F	ackage	Pulle	y Kit	Gearmot	or Chart
m/min	ft/min	Gearmotor	Top & Bottom	Side	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
8.8	29	47	Х	Х	32	32	7	8
10	33	47	Х		32	28	7	8
13	43	70	Χ	Х	32	32	7	8
13	43	47	Χ		48	32	7	8
15	49	70	Χ		32	28	7	8
15	49	47	Х		48	28	7	8
20	66	70	Х		48	32	7	8
23	75	70	Х		48	28	7	8
26	85	140	Х	Х	32	32	7	8
30	98	140	Χ		32	28	7	8
40	131	140	Χ		48	32	7	8
45	148	140	Χ		48	28	7	8
53	174	280	Χ	Х	32	32	7	8
60	197	280	Х		32	28	7	8
66	216	350	Х	Х	32	32	7	8
75	246	350	Х		32	28	7	8
79	259	280	Х		48		7	8
91	298	280	Χ		48		7	8
99	325	350	Х		48		7	8
113	371	350	Х		48		7	8

Cleated Belts operate at maximum 280 ft/min (86 m/min) °

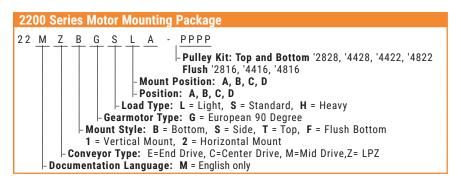
Other speeds available. See www.dorner.com and run the DTools program for a full list of belt speeds

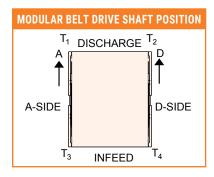
Variab	le Speed	i						
2700) Belt	RPM 50Hz from	Mount P	ackage	Pulle	y Kit	Gearm	otor Chart
m/min	Ft/min	Gearmotor	Top & Bottom	Side	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
3.5 - 12	12 - 41	47	Χ	Χ	32	32	9	10
4 - 14	13 - 46	47	Χ		32	28	9	10
5.2 - 18	17 - 60	70	Χ	Χ	32	32	9	10
5.2 - 18	17 - 60	47	Χ		48	32	9	10
6 - 21	20 - 69	70	Χ		32	28	9	10
6 - 21	20 - 69	47	Χ		48	28	9	10
8 - 28	26 - 92	70	Х		48	32	9	10
9.2 - 32	30 - 105	70	Χ		48	28	9	10
10 - 36	34 - 119	140	Χ	Χ	32	32	9	10
12 - 42	39 - 137	140	Χ		32	28	9	10
16 - 56	52 - 183	140	Х		48	32	9	10
18 - 63	59 - 207	140	Χ		48	28	9	10
21 - 74	70 - 244	280	Χ	Χ	32	32	9	10
24 - 84	79 - 276	280	Х		32	28	9	10
26 - 92	86 - 302	350	Х	Χ	32	32	9	10
30 - 105	98 - 344	350	Χ		32	28	9	10
32 - 111	104 - 363	280	Χ		48	32	9	10
36 - 127	119 - 417	280	Χ		48	28	9	10
40 - 139	130 - 455	350	Χ		48	32	9	10
45 - 158	148 - 519	350	Χ		48	28	9	10

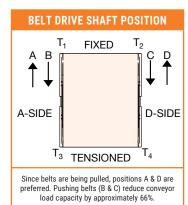
Note: Nose Bar transfers operate at maximum 23.5 m/min (77 ft/min) belt speed. Other speeds available. See www.dorner.com and run the DTools program for a full list of belt speeds.



2200/2700 SERIES FLUSH BOTTOM MOUNTING PACKAGES







2700 Series Drive Mount Packages

2 L M B P S A - 3 2 3 2

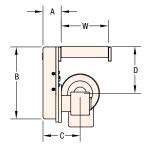
| Drive / Driven Pulley Combination pulley options see note
|- Controls/Flow/Drive Shaft Position: A, B, C or D A or D only for MID drive
|- Gearmotor Type: S = Standard Load, H = Heavy Load
|- Gearmotor Output Shaft: E = eDrive 90
|- Mount Style: B = Bottom Mount, T = Top Mount, S = Side Mount, N = MID drive Side Mount, M = MID drive Bottom Mount
|- Documentation Language: M = US, U = Europe
|- Prefix: 2L = End drive mount packages for 2700 Product

Flush Bottom Mount Package, 90° Gearmotor

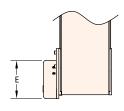


Product Applications/Uses:

- · Wide product transfers
- · Product stops/escapements
- · Product detection
- · Lift stations
- Sheet handling



- A: 2200 Light Load 56 mm [2.20 in] 2200 Standard Load - 57 mm [2.26 in] 2200 Heavy Load - 58 mm [2.26 in] 2700 Series - 59 mm [2.31 in]
- B: 2200 Series 231 mm [9.10 in] 2700 Series - 235 mm [9.25 in]
- C: 2200 Light Load 102 mm [4.00 in] 2200 Standard Load - 119 mm [4.69 in] 2200 Heavy Load - 111 mm [4.38 in] 2700 Series - 108 mm [4.26 in]



- D: 2200 Light Load 158 mm [6.20 in] 2200 Standard Load - 156 mm [6.13 in] 2200 Heavy Load - 229 mm [9.00 in] 2700 Series - 144 mm [5.68 in]
- E: 2200 Series 122 mm [4.81 in] 2700 Series - 103 mm [4.06 in]

Dim = mm (in)

2200/2700 SERIES

2200 Flush Mount End Drive Belt Speed

Fixed S	peed									
2200 Belt	2200 Precision Move	2200 LPZ	2200 Modular Bel Micropitch Belts 01 and 02	· .	RPM From	Pulle	ey Kit	Ge	earmotor C	Chart
Meter/min	Meter/min	Meter/min	Meter/min	Meter/min	Gearmotor	Drive Pulley	Driven Pulley	Light Load	Standard Load	Heavy Load
4.1	4.8	7.8	5.5	6.0	23	28	16			5
4.5	5.3	8.5	6.0	6.6	25	28	16	1	3	
6.5	7.6		8.6	9.5	23	44	16			5
7.0	8.3		9.4	10.3	25	44	16	1	3	
7.0	8.3		9.4	10.4	23	48	16			5
7.7	9.0		10.2	11.3	25	48	16	1	3	
8.4	9.9	16.0	11.2	12.3	47	28	16	1	3	5
12.0	14.1	22.8	15.9	17.6	67	28	16			5
12.5	14.7	23.9	16.7	18.4	70	28	16	1	3	
13.2	15.5		17.6	19.4	47	44	16	1	3	5
14.4	16.9		19.2	21.2	47	48	16	1	3	5
16.6	19.5	31.7	22.1	24.4	93	28	16	1	3	5
18.8	22.1		25.1	27.6	67	44	16			5
19.7	23.1		26.2	28.9	70	44	16	1	3	
20.5	24.1		27.3	30.2	67	48	16			5
21.4	25.2		28.6	31.5	70	48	16	1	3	
22.2	26.0	42.3	29.5	32.6	124	28	16		3	
25.0	29.4	47.7	33.3	36.8	140	28	16	1		
25.9	30.5	49.4	34.5	38.1	145	28	16			5
26.1	30.7		34.8	38.4	93	44	16	1	3	5
28.5	33.5		37.9	41.9	93	48	16	1	3	5
34.8	40.9		46.4	51.2	124	44	16		3	
35.7	42.0	68.2	47.6	52.5	200	28	16	1	3	
37.5	44.1	71.6	50.0	55.1	210	28	16			5
38.0	44.6		50.6	55.8	124	48	16		3	
39.3	46.2		52.4	57.8	140	44	16	1		
40.7	47.9		54.2	59.8	145	44	16			5
42.9	50.4		57.1	63.0	140	48	16	1		
44.4	52.2		59.2	65.3	145	48	16			5
56.2	66.0		74.8	82.5	200	44	16	1	3	
59.0	69.3		78.5	86.6	210	44	16			5
61.3	72.0		81.6	90.0	200	48	16	1	3	
64.3	75.6		85.7	94.5	210	48	16			5



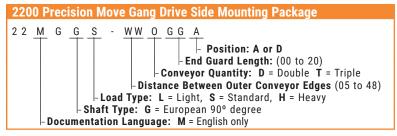
2200 Flush Mount End Drive Belt Speed

ariable	Speed									
	2200		2200 Modular Bel	t						
2200 Belt	Precision Move	2200 LPZ	Micropitch Belts 01 and 02	Metalworking Belts 30 thru 42	RPM From	Pulle	ey Kit	Ge	earmotor C	hart
Meter/min	Meter/min	Meter/min	Meter/min	Meter/min	Gearmotor	Drive Pulley	Driven Pulley	Light Load	Standard Load	Heav Load
1.6 - 5.7	1.9 - 6.7	3.1 - 10.9	2.2 - 7.7	2.4 - 8.4	23	28	16			5
1.8 - 6.3	2.1 - 7.4	3.4 - 11.9	2.4 - 8.4	2.6 - 9.2	25	28	16	1	3	
2.6 - 9.1	3.0 - 10.6		3.4 - 12.0	3.8 - 13.3	23	44	16			5
2.8 - 9.8	3.3 - 11.6		3.8 - 13.2	4.1 - 14.4	25	44	16	1	3	
2.8 - 9.8	3.3 - 11.6		3.8 - 13.2	4.2 - 14.6	23	48	16			5
3.1 - 10.8	3.6 - 12.6		4.1 - 14.3	4.5 - 15.8	25	48	16	1	3	
3.4 - 11.8	4.0 - 13.9	6.4 - 22.4	4.5 - 15.7	4.9 - 17.2	47	28	16	1	3	5
4.8 - 16.8	5.6 - 19.7	9.1 - 31.9	6.4 - 22.3	7.0 - 24.6	67	28	16			5
5.0 - 17.5	5.9 - 20.6	9.6 - 33.5	6.7 - 23.4	7.4 - 25.8	70	28	16	1	3	
5.3 - 18.5	6.2 - 21.7		7.0 - 24.6	7.8 - 27.2	47	44	16	1	3	5
5.8 - 20.2	6.8 - 23.7		7.7 - 26.9	8.5 - 29.7	47	48	16	1	3	5
6.6 - 23.2	7.8 - 27.3	12.7 - 44.4	8.8 - 30.9	9.8 - 34.2	93	28	16	1	3	5
7.5 - 26.3	8.8 - 30.9		10.0 - 35.1	11.0 - 38.6	67	44	16			5
7.9 - 27.6	9.2 - 32.3		10.5 - 36.7	11.6 - 40.5	70	44	16	1	3	
8.2 - 28.7	9.6 - 33.7		10.9 - 38.2	12.1 - 42.3	67	48	16			5
8.6 - 30.0	10.1 - 35.3		11.4 - 40.0	12.6 - 44.1	70	48	16	1	3	
8.9 - 31.1	10.4 - 36.4	16.9 - 59.2	11.8 - 41.3	13.0 - 45.6	124	28	16		3	
10.0 - 35.0	11.8 - 41.2	19.1 - 66.8	13.3 - 46.6	14.7 - 51.5	140	28	16	1		
10.4 - 36.3	12.2 - 42.7	19.8 - 69.2	13.8 - 48.3	15.2 - 53.3	145	28	16			5
10.4 - 36.5	12.3 - 43.0		13.9 - 48.7	15.4 - 53.8	93	44	16	1	3	5
11.4 - 39.9	13.4 - 46.9		15.2 - 53.1	16.8 - 58.7	93	48	16	1	3	5
13.9 - 48.7	16.4 - 57.3		18.6 - 65.0	20.5 - 71.7	124	44	16		3	
14.3 - 50.0	16.8 - 58.8	27.3 - 95.5	19.0 - 66.6	21.0 - 73.5	200	28	16	1	3	
15.0 - 52.5	17.6 - 61.7	28.6 - 100.2	20.0 - 70.0	22.0 - 77.1	210	28	16			5
15.2 - 53.2	17.8 - 62.4		20.2 - 70.8	22.3 - 78.1	124	48	16		3	
15.7 - 55.0	18.5 - 64.7		21.0 - 73.4	23.1 - 80.9	140	44	16	1		
16.3 - 57.0	19.2 - 67.1		21.7 - 75.9	23.9 - 83.7	145	44	16			5
17.2 - 60.1	20.2 - 70.6		22.8 - 79.9	25.2 - 88.2	140	48	16	1		
17.8 - 62.2	20.9 - 73.1		23.7 - 82.9	26.1 - 91.4	145	48	16			5
22.5 - 78.7	26.4 - 92.4		29.9 - 104.7	33.0 - 115.5	200	44	16	1	3	
23.6 - 82.6	27.7 - 97.0		31.4 - 109.9	34.6 - 121.2	210	44	16			5
24.5 - 85.8	28.8 - 100.8		32.6 - 114.2	36.0 - 126.0	200	48	16	1	3	
25.7 - 90.0	30.2 - 105.8		34.3 - 120.0	37.8 - 132.3	210	48	16			5

2200 Precision Move Gang Mid Drive Belt Speed Charts

Fixed Speed									
2200 Precision Move	IVLIAI		Ge	earmotor Cha	art				
Meter/min	From Gearmotor	Side	Light Load	Standard Load	Heavy Load				
3.7	23	Х			5				
4.0	25	Х	1	3					
7.5	47	Х	1	3	5				
10.7	67	Х			5				
11.2	70	Х	1	3					
14.9	93	Х	1	3	5				
19.8	124	Х		3					
22.4	140	Х	1						
23.2	145	Х			5				
32.0	200	Х	1	3					
33.6	210	Х			5				

Variable Sp	eed				
2200 Precision Move	RPM	RPM Mount Package Ge		earmotor Cha	art
Meter/min	From Gearmotor	Side	Light Load	Standard Load	Heavy Load
1.5 - 5.2	23	Х			5
1.6 - 5.6	25	Х	1	3	
3.0 - 10.5	47	Х	1	3	5
4.3 - 15.0	67	Х			5
4.5 - 15.7	70	Х	1	3	
6.0 - 20.9	93	Х	1	3	5
7.9 - 27.7	124	Х		3	
9.0 - 31.4	140	Х	1		
9.3 - 32.5	145	Х			5
12.8 - 44.8	200	Х	1	3	
13.4 - 47.0	210	Х			5



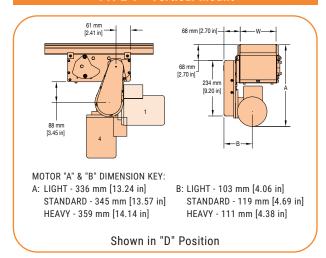
See page 29 for product details.



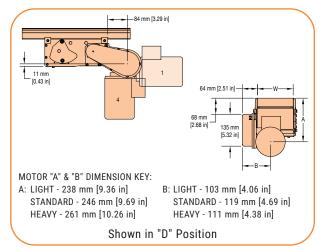
CENTER & MID DRIVE MOUNTING PACKAGES 2200/2700 SERIES

2200 Center Drive

TYPE 1 - Vertical Mount



TYPE 2 - Horizontal Mount



90° Gearmotor

90° Gearmotor

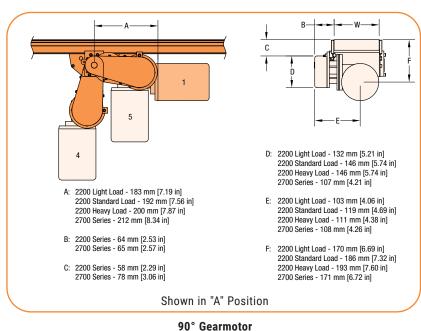
Standard position shown, can be reconfigured to alternative phantom position.

TYPE 2 recommended for tight spaces and allows for easy access to the drive module.

* Gearmotor not included in mounting package, see page 49-50 for gearmotor options. **Dim = mm** (in)

See page 52 for part number chart.

2200/2700 Mid Drive



Standard position shown, can be reconfigured to alternative phantom position.

Dim = mm (in)

See page 52 for part number chart.



2200/2700 SERIES CENTER & MID DRIVE BELT SPEED CHARTS

2200 Center & Mid Drive Belt Speed

	0000	2200 Mo	dular Belt								
2200 Belt	2200 Precision Move	Micropitch Belts 01 and 02		RPM From	Mount Package		Pulle	ey Kit	Ge	earmotor C	hart
Meter/min	Meter/min	Meter/min	Meter/min	Gearmotor	Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load	Heav Load
2.3	2.8	3.1	3.5	23	Х	Χ	28	28			5
2.6	3.0	3.4	3.8	25	Х	Χ	28	28	1	3	
3.7	4.3	4.9	5.4	23	Х		44	28			5
4.0	4.7	5.3	5.9	25	Х		44	28	1	3	
4.7	5.5	6.3	6.9	23	Х		44	22			5
4.8	5.6	6.4	7.1	47	Х	Χ	28	28	1	3	5
5.1	6.0	6.8	7.5	25	Х		44	22	1	3	
5.1	6.0	6.8	7.5	23	Х		48	22			5
5.6	6.5	7.4	8.2	25	Х		48	22	1	3	
6.8	8.0	9.1	10.1	67	Х	Х	28	28			5
7.1	8.4	9.5	10.5	70	Х	Χ	28	28	1	3	
7.5	8.9	10.0	11.1	47	Х		44	28	1	3	5
9.5	11.2	12.6	14.0	93	Х	Χ	28	28	1	3	5
9.6	11.3	12.8	14.1	47	Х		44	22	1	3	5
10.5	12.3	13.9	15.4	47	Х		48	22	1	3	5
10.8	12.6	14.3	15.8	67	Х		44	28			5
11.2	13.2	15.0	16.5	70	Х		44	28	1	3	
12.7	14.9	16.9	18.6	124	Х	Х	28	28		3	
13.7	16.1	18.2	20.1	67	Х	X	44	22			5
14.3	16.8	19.0	21.0	140	Х	Х	28	28	1		
14.3	16.8	19.0	21.0	70	X	Λ.	44	22	1	3	
14.8	17.4	19.7	21.8	145	Х	Х	28	28		-	5
14.9	17.5	19.9	21.9	93	X	X	44	28	1	3	5
14.9	17.5	19.9	21.9	67	X		48	22	-	Ū	5
15.6	18.3	20.8	22.9	70	Х		48	22	1	3	J
19.0	22.3	25.3	27.9	93	X		44	22	1	3	5
									-	3	
19.9	23.4	26.5	29.2	124	X	v	44	28	1	3	
20.4	24.0	27.2	30.0	200	X	Х	28	28	1	3	5
20.7	24.3	27.6	30.4	93	X	V	48	22	-	3	5
21.4	25.2	28.6	31.5	210	X	Х	28	28	1		3
22.5	26.4	29.9	33.0	140	X		44	28	'		5
23.3	27.3	31.0	34.2	145	X		44	28		3	3
25.3	29.8	33.7	37.2	124	X		44	22		3	
27.6	32.5	36.8	40.6	124	X		48	22	-1	3	
28.6	33.6	38.1	42.0	140	X		44	22	1		-
29.6	34.8	39.4	43.5	145	X		44	22	4		5
31.2	36.7	41.5	45.8	140	Х		48	22	1	_	
32.1	37.7	42.7	47.1	200	Х		44	28	1	3	-
32.3	38.0	43.0	47.5	145	Х		48	22			5
33.7	39.6	44.9	49.5	210	Х		44	28			5
40.9	48.0	54.4	60.0	200	Х		44	22	1	3	
42.9	50.4	57.1	63.0	210	Х		44	22			5
44.6	52.4	59.3	65.5	200	Х		48	22	1	3	
46.8	55.0	62.3	68.7	210	Х		48	22			5

CENTER & MID DRIVE BELT SPEED CHARTS 2200/2700 SERIES

2200 Center & Mid Drive Belt Speed

	2200	2200 Mo	dular Belt								
2200 Belt	Precision Move	Micropitch Belts 01 and 02	Metalworking Belts 30 thru 42	RPM From Gearmotor	Mount F	Package	Pulle	ey Kit	Ge	earmotor C	hart
Meter/min	Meter/min	Meter/min	Meter/min	at 50 Hz	Bottom	Side	Drive Pulley	Driven Pulley	Light Load	Standard Load	Hea Loa
0.9 - 3.2	1.1 - 3.9	1.2 - 4.3	1.4 - 4.9	23	Χ	Х	28	28			5
1.0 - 3.6	1.2 - 4.2	1.4 - 4.8	1.5 - 5.3	25	Х	Х	28	28	1	3	
1.5 - 5.2	1.7 - 6.0	2.0 - 6.9	2.2 - 7.6	23	Χ		44	28			5
1.6 - 5.6	1.9 - 6.6	2.1 - 7.4	2.4 - 8.3	25	Χ		44	28	1	3	
1.9 - 6.6	2.2 - 7.7	2.5 - 8.8	2.8 - 9.7	23	Χ		44	22			5
1.9 - 6.7	2.2 - 7.8	2.6 - 9.0	2.8 - 9.9	47	Χ	Х	28	28	1	3	5
2.0 - 7.1	2.4 - 8.4	2.7 - 9.5	3.0 - 10.5	25	Χ		44	22	1	3	
2.0 - 7.1	2.4 - 8.4	2.7 - 9.5	3.0 - 10.5	23	Χ		48	22			5
2.2 - 7.8	2.6 - 9.1	3.0 - 10.4	3.3 - 11.5	25	Χ		48	22	1	3	
2.7 - 9.5	3.2 - 11.2	3.6 - 12.7	4.0 - 14.1	67	Χ	Х	28	28			5
2.8 - 9.9	3.4 - 11.8	3.8 - 13.3	4.2 - 14.7	70	Χ	Х	28	28	1	3	
3.0 - 10.5	3.6 - 12.5	4.0 - 14.0	4.4 - 15.5	47	Χ		44	28	1	3	5
3.8 - 13.3	4.5 - 15.7	5.0 - 17.6	5.6 - 19.6	93	Χ	Х	28	28	1	3	5
3.8 - 13.4	4.5 - 15.8	5.1 - 17.9	5.6 - 19.7	47	Χ		44	22	1	3	5
4.2 - 14.7	4.9 - 17.2	5.6 - 19.5	6.2 - 21.6	47	Χ		48	22	1	3	5
4.3 - 15.1	5.0 - 17.6	5.7 - 20.0	6.3 - 22.1	67	Χ		44	28			5
4.5 - 15.7	5.3 - 18.5	6.0 - 21.0	6.6 - 23.1	70	Χ		44	28	1	3	
5.1 - 17.8	6.0 - 20.9	6.8 - 23.7	7.4 - 26.0	124	Χ	Х	28	28		3	
5.5 - 19.2	6.4 - 22.5	7.3 - 25.5	8.0 - 28.1	67	Χ		44	22			5
5.7 - 20.0	6.7 - 23.5	7.6 - 26.6	8.4 - 29.4	140	Χ	Х	28	28	1		
5.7 - 20.0	6.7 - 23.5	7.6 - 26.6	8.4 - 29.4	70	Χ		44	22	1	3	
5.9 - 20.7	7.0 - 24.4	7.9 - 27.6	8.7 - 30.5	145	Χ	Х	28	28			5
6.0 - 20.9	7.0 - 24.5	8.0 - 27.9	8.8 - 30.7	93	Χ		44	28	1	3	5
6.0 - 20.9	7.0 - 24.5	8.0 - 27.9	8.8 - 30.7	67	Χ		48	22			5
6.2 - 21.8	7.3 - 25.6	8.3 - 29.1	9.2 - 32.1	70	Χ		48	22	1	3	
7.6 - 26.6	8.9 - 31.2	10.1 - 35.4	11.2 - 39.1	93	Χ		44	22	1	3	5
8.0 - 27.9	9.4 - 32.8	10.6 - 37.1	11.7 - 40.9	124	Χ		44	28		3	
8.2 - 28.6	9.6 - 33.6	10.9 - 38.1	12.0 - 42.0	200	Χ	Х	28	28	1	3	
8.3 - 29.0	9.7 - 34.0	11.0 - 38.6	12.2 - 42.6	93	Χ		48	22	1	3	5
8.6 - 30.0	10.1 - 35.3	11.4 - 40.0	12.6 - 44.1	210	Χ	Х	28	28			5
9.0 - 31.5	10.6 - 37.0	12.0 - 41.9	13.2 - 46.2	140	Х		44	28	1		
9.3 - 32.6	10.9 - 38.2	12.4 - 43.4	13.7 - 47.9	145	Χ		44	28			5
10.1 - 35.4	11.9 - 41.7	13.5 - 47.2	14.9 - 52.1	124	Χ		44	22		3	
11.0 - 38.6	13.0 - 45.5	14.7 - 51.5	16.2 - 56.8	124	Χ		48	22		3	
11.4 - 40.0	13.4 - 47.0	15.2 - 53.3	16.8 - 58.8	140	Χ		44	22	1		
11.8 - 41.4	13.9 - 48.7	15.8 - 55.2	17.4 - 60.9	145	Х		44	22			5
12.5 - 43.7	14.7 - 51.4	16.6 - 58.1	18.3 - 64.1	140	Х		48	22	1		
12.8 - 44.9	15.1 - 52.8	17.1 - 59.8	18.8 - 65.9	200	Х		44	28	1	3	
12.9 - 45.2	15.2 - 53.2	17.2 - 60.2	19.0 - 66.5	145	Х		48	22			5
13.5 - 47.2	15.8 - 55.4	18.0 - 62.9	19.8 - 69.3	210	Х		44	28			5
16.4 - 57.3	19.2 - 67.2	21.8 - 76.2	24.0 - 84.0	200	Х		44	22	1	3	
17.2 - 60.1	20.2 - 70.6	22.8 - 79.9	25.2 - 88.2	210	Х		44	22			5
17.8 - 62.4	21.0 - 73.4	23.7 - 83.0	26.2 - 91.7	200	Х		48	22	1	3	
18.7 - 65.5	22.0 - 77.0	24.9 - 87.2	27.5 - 96.2	210	Х		48	22			5



2200/2700 SERIES CENTER & MID DRIVE BELT SPEED CHARTS

2700 Mid Drive Belt Speed

Fixe	d Spe	ed						
2700) Belt	RPM From	Mount P	ackage	Pulle	y Kit	Gearmot	or Chart
m/min	ft/min	Gearmotor	Top & Bottom	Side	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
8.8	29	47	Х	Х	32	32	7	8
10	33	47	Х		32	28	7	8
13	43	70	Х	Х	32	32	7	8
13	43	47	Х		48	32	7	8
15	49	70	Х		32	28	7	8
15	49	47	Х		48	28	7	8
20	66	70	Х		48	32	7	8
23	75	70	Х		48	28	7	8
26	85	140	Х	Х	32	32	7	8
30	98	140	Х		32	28	7	8
40	131	140	Х		48	32	7	8
45	148	140	Х		48	28	7	8
53	174	280	Х	Χ	32	32	7	8
60	197	280	Х		32	28	7	8
66	216	350	Х	Х	32	32	7	8
75	246	350	Х		32	28	7	8
79	259	280	Х		48		7	8
91	298	280	Х		48		7	8
99	325	350	Х		48		7	8
113	371	350	Х		48		7	8

	Cleated Belts	operate at	maximum	280 ft/min	(86 m/min)) °
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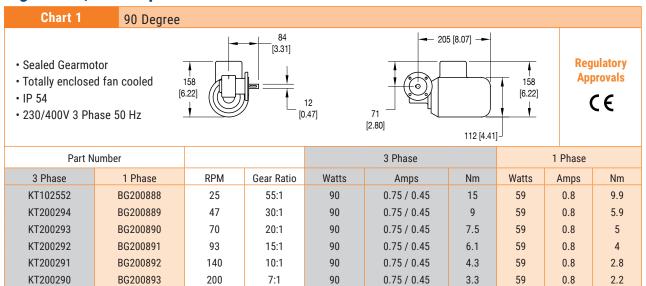
Other speeds available. See www.dorner.com and run the DTools program for a full list of belt speeds

Variable Speed										
2700	Belt	RPM 50Hz from	Mount F	ackage	Pulle	ey Kit	Gearm	otor Chart		
m/min	Ft/min	Gearmotor	Top & Bottom	Side	Drive Pulley	Driven Pulley	Standard Load	Heavy Load		
3.5 - 12	12 - 41	47	Χ	Χ	32	32	9	10		
4 - 14	13 - 46	47	Χ		32	28	9	10		
5.2 - 18	17 - 60	70	Χ	Χ	32	32	9	10		
5.2 - 18	17 - 60	47	Χ		48	32	9	10		
6 - 21	20 - 69	70	Χ		32	28	9	10		
6 - 21	20 - 69	47	Χ		48	28	9	10		
8 - 28	26 - 92	70	Χ		48	32	9	10		
9.2 - 32	30 - 105	70	Χ		48	28	9	10		
10 - 36	34 - 119	140	Χ	Χ	32	32	9	10		
12 - 42	39 - 137	140	Χ		32	28	9	10		
16 - 56	52 - 183	140	Χ		48	32	9	10		
18 - 63	59 - 207	140	Χ		48	28	9	10		
21 - 74	70 - 244	280	Χ	Χ	32	32	9	10		
24 - 84	79 - 276	280	Χ		32	28	9	10		
26 - 92	86 - 302	350	Χ	Χ	32	32	9	10		
30 - 105	98 - 344	350	Χ		32	28	9	10		
32 - 111	104 - 363	280	Χ		48	32	9	10		
36 - 127	119 - 417	280	Χ		48	28	9	10		
40 - 139	130 - 455	350	Χ		48	32	9	10		
45 - 158	148 - 519	350	Χ		48	28	9	10		

Note: Nose Bar transfers operate at maximum 23.5 m/min (77 ft/min) belt speed. Other speeds available. See www.dorner.com and run the DTools program for a full list of belt speeds.

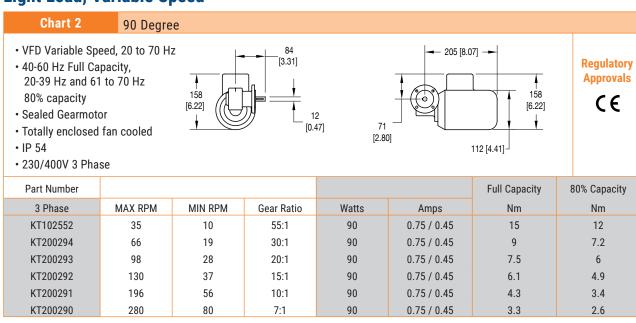


Light Load, Fixed Speed*



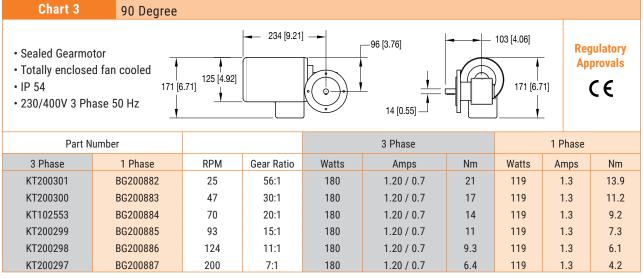
^{*}Not available on LPZ Conveyors

Light Load, Variable Speed*



^{*}Not available on LPZ Conveyors

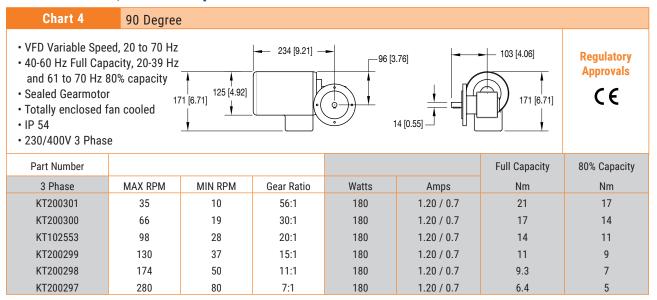
Standard Load, Fixed Speed



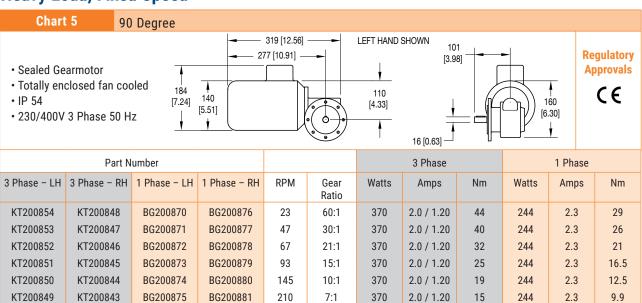


Note: Dim = mm (in)

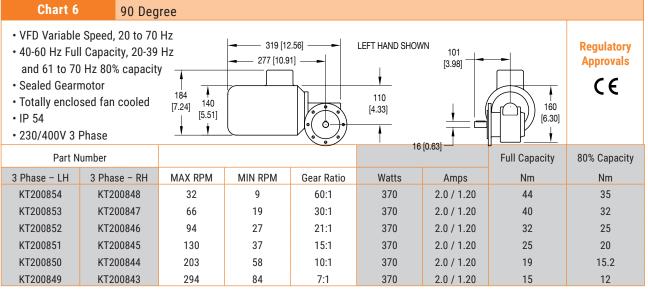
Standard Load, Variable Speed



Heavy Load, Fixed Speed



Heavy Load, Variable Speed

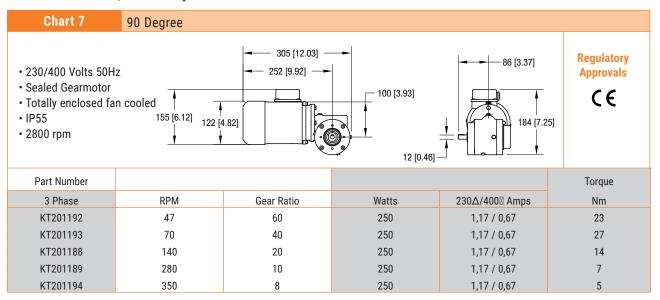


FLA = Full Load Amperes

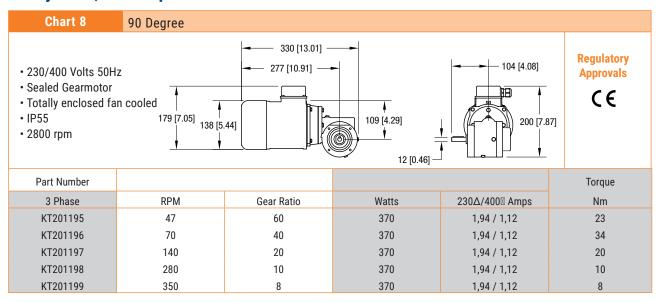
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dim = mm (in)



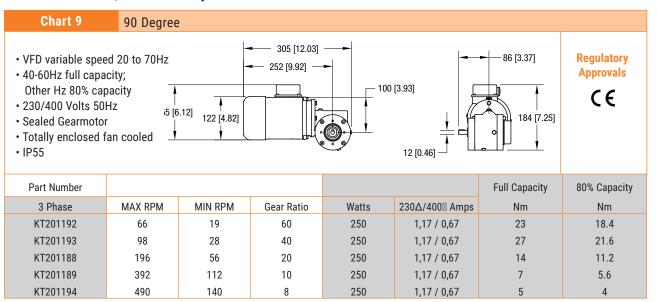
Standard Load, Fixed Speed



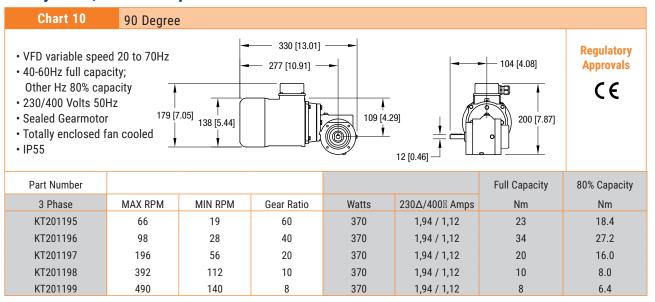
Heavy Load, Fixed Speed



Standard Load, Variable Speed



Heavy Load, Variable Speed



2200/2700 SERIES

Frequency Converter

Chart A Variable Speed Frequency Converter, Full CE Compliance

- · Adjustable Speed, 20 to 70 Hz
- IP 54 Enclosure
- Digital Device
- · Adjustable Start and Stop
- · Adjustable timing generator built in
- · Control by external signals via free inputs
- · Integrated motor protection
- Includes standard plug for 230V, 50 Hz, 1 Phase



Regulatory Approvals

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		Inj	out	Output			
Part Number	Volts	Phase	Hz	Watts	Volts	Phase	Watts
KT103342	230	1	50	250	230	3	90
KT200350	230	1	50	250	230	3	180
KT103343	230	1	50	446	230	3	370

Motor Protection Switch

Chart B Fixed Speed Motor Protection

- Provides motor protection
- IP 54 Enclosure
- · Adjustable for motor current
- · Rotary switch
- Includes IEC 60309 plug for 400V, 50 Hz, 3 Phase or Type F plug for 250V, 50 Hz, 1 Phase
- · Includes start stop push button



Regulatory Approvals

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		Input			
Part Number	Volts	Phase	Hz	Max Amps	Motor Type
KT103682	400	3	50	0.4	90 Watt
KT103723	400	3	50	0.8	180 Watt
KT103724	400	3	50	1.2	370 Watt
KT103682	230	1	50	0.8	59 Watt
KT103683	230	1	50	1.3	119 Watt
KT103684	230	1	50	2.3	244 Watt





Emergency Stop Switch

Chart C Motor Protection

- Compatible with Frequency Converter
- Compatible with Motor Protection Switch
- IP 54 Enclosure
- Several interconnected switches can be used
- Includes on/off push button
- · Wiring by others

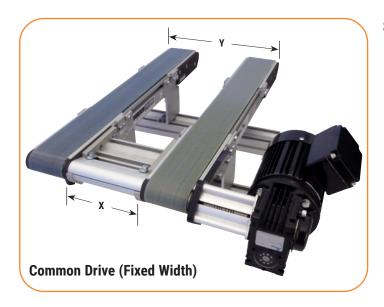


Regulatory Approvals

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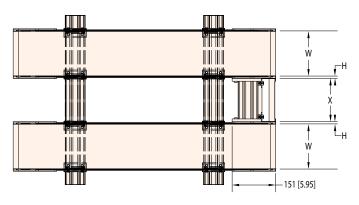
Part Number	Input Volts	Input Phase	Input Hz	
KT101166	230/400	1/3	50	

2200 SERIES



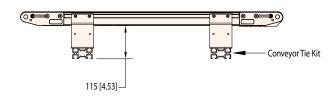
Specifications

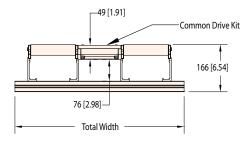
- · Parts can be wider than conveyor
- · Conveyors can be different widths & lengths
- Minimum width (x) = 69 mm
- Maximum width (y) = 914 mm belt to belt
- Maximum number of conveyors = 3
- Maximum total torque = 11 Nm
- Keyless coupling allows belt synchronization between conveyors
- · Includes shafts, couplings and guards
- · Order conveyor tie kits separately
- · Requires stub output shafts between conveyors



Headplate offset "H"

- Belted = 8.6 (.34)
- Precision Move = 8.6 (.34)
- Modular Belt = 13.2 (.52)

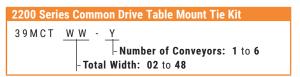






Kit Includes:

- · Shafts, couplings and guards
- Rigid tie plate for alignment
- · Conveyor must be ordered with stubshaft on fixed end



Kit Includes:

- · Conveyor mounting brackets
- · Support extrusion

Note: Dim = mm (in)

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



Fixed Height Supports Stands

Fixed Foot Model			
Stand Width (WW)	305 mm	51 mm increments up to	1,219 mm
Part # Reference	12	in 02 increments up to	48
Stand Height (HH)* Belt	381 - 483 mm	in 25 mm increments up to	2,413 - 2,515 mm
Part # Reference Belt	1519	in 0101 increments up to	9599

Swivel Locking Caster Model								
Stand Width (WW)	305 mm	51 mm increments up to	1,219 mm					
Part # Reference	12	in 02 increments up to	48					
Stand Height (HH)* Belt	508 - 610 mm	in 25 mm increments up to	1,727 - 1,829 mm					
Part # Reference Belt	2024	in 0101 increments up to	6872					

- 102 mm Height Adjustment
- Provides most access to outside T-Slots
- · Includes height indicator
- Full width is top plate on 305 mm wide stands only





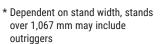
Adjustable Height Supports Stands

Fixed Foot Mo	del											
Stand Width (WW)		305 mm		51 mm increments up to					1,219 mm			
Part # Reference		12			in 02 increments up to					48		
Stand Height (HH) Belt	305 - 330 mm	330 - 381 mm	356 - 432 mm	406 - 660 mm	483 - 686 mm	610 - 914 mm	762 - 1,219 mm	1,067 - 1,524 mm	1,372 - 1,829 mm	1,676 - 2,134 mm	1,981 - 2,438 mm	
Part # Reference Belt	1213	1315	1417	1621	1926	2436	3048	4260	5472	6684	7896	

Swivel Locking	g Caster	Model							
Stand Width (WW)		305 mm		51 mm	increments	up to		1,219 mm	
Part # Reference		12		in 02 i	ncrements	up to		48	
Stand Height (HH) Belt	432- 457 mm	457 - 508 mm	483 - 559 mm	533 - 660 mm	61 0- 787mm	737 - 1,041 mm	762 - 1,34 6mm	1,194 - 1,651mm	1,499 - 1,956mm
Part # Reference Belt	1718	1820	1922	2126	2431	2941	3553	4765	5977



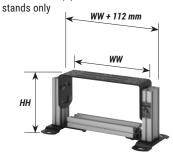




Short Support Stands

Fixed Foot Model			
Stand Width (WW)	305 mm	51 mm increments up to	1,219 mm
Part # Reference	12	in 02 increments up to	48
Stand Height (HH)* Belt	152 - 203 mm	in 25 mm increments up to	305 - 356 mm
Part # Reference Belt	0608	in 0101 increments up to	1214
Swivel Locking Cast	er Model		
Stand Width (WW)	05 mm	51 mm increments up to	1,219 mm
Part # Reference	12	in 02 increments up to	48
Stand Height (HH)* Belt	279 - 330 mm	in 25 mm increments up to	305 - 483 mm
Part # Reference Belt	1113	in 0101 increments up to	1719

- For top belt heights below 508 mm
- Full width is top plate on 305 mm wide



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, please see page 67.



Quick Adjust Stands

Fixed Foot Model			
Stand Width (WW)*	305 mm	51mm increments up to	914 mm
Part # Reference	12	in 02 increments up to	36
Stand Height (HH)* Belt	610 - 762 mm	in 25 mm increments up to	1,676 - 1,829 mm
Part # Reference Belt	2430	in 0101 increments up to	6672
Swivel Locking Cast	er Model		
Stand Width (WW)*	305 mm	51 mm increments up to	914 mm
Part # Reference	12	in 02 increments up to	36
Stand Height (HH)* Belt	686 - 838 mm	in 25 mm increments up to	1,524 - 1,676 mm
Part # Reference Belt	2733	in 0101 increments up to	6066

^{*} Under 305 mm wide use full top plate option

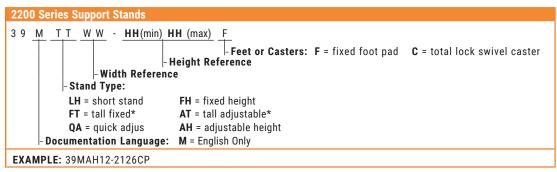
- Metric fasteners
- +/- 76 mm Height Adjustment
- · Allows for Quick Height Adjustment
- · Tool-less lock and adjustment handles





Fixed Foot Model

Swivel Locking Caster Model



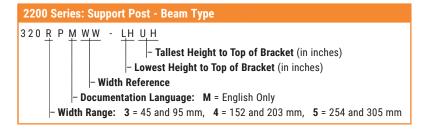
Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability is final setup of the responsibility of the

Support Post Stands



Specifications

- · ± 51 mm height adjustment
- Compatible with 51 mm 305 mm wide conveyors
- · Top of Belt Heights:
 - Minimum = 508 mm
 - Maximum = 2,464 mm
 - · Available in 25 mm height increments
- · Mounting Configurations:
 - $^{\circ}~\pm30^{\circ}$ angle mount
- Equipped with a steel base plate for floor mounting
- · Stand must be lagged to the floor



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.



^{*}Tall stands are required when the stand width is 3.5 times the stand height.

2200/2700 SERIES SUPPORT STANDS & ACCESSORIES

Quantity Charts

Support Stands							
Conveyor Length	Number of Supports						
610 to 2743 mm 2744 to 5486 mm 5487 to 8230 mm 8231 to 9144 mm	2 3 4 5						

Required R	eturn	Roll	er Qu	antity	Char	t								
Maximum Di	stance	Betwe	een Ro	llers r	nm (in)								
Conveyor	44	70	95	127	152	203	254	305	356	406	457	508	559	610
Width mm (in)	(1.75)	(2.75)	(3.75)	(5)	(6)	(8)	(10)	(12)	(14)	(16)	(18)	(20)	(22)	(24)
Flat Belt	2667	2591	2286	2210	2134	2057	1981	1829	1753	1676	1676	1524	1448	1372
	(105)	(102)	(90)	(87)	(84)	(81)	(78)	(72)	(69)	(66)	(66)	(60)	(57)	(54)
Cleated Belt	1753	1676	1600	1524	1448	1372	1295	1219	1143	1067	1067	991	914	914
	(69)	(66)	(63)	(60)	(57)	(54)	(51)	(48)	(45)	(42)	(42)	(39)	(36)	(36)

Quantity of return rollers required = whole number result of:

conveyor length in mm

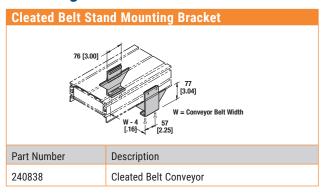
max distance between return rollers in mm

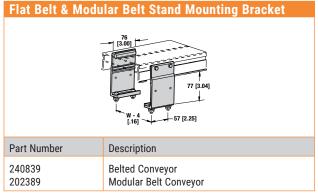
Example: 2200 flat belt 203 mm wide x 4267 mm long-

4267 m 2057

2 return rollers required

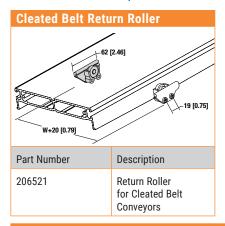
Mounting Brackets

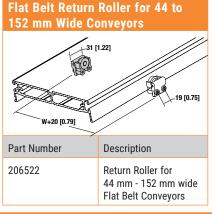


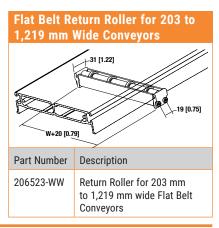


Note: Conveyors can be ordered with the required number of mounting brackets. If desired, order additional mounting brackets separately.

Return Rollers (Belted Conveyors Only)







Pulley Transfer Plate (2200 Belted Conveyor Only)



Part Number	Description
207218-WW	2200 Series Pulley Transfer Plate

WW = Conveyor Width Reference

Not compatible with clipper splice or high friction belts Not compatible with cleated belt conveyors

Specifications

• 22 mm diameter minimum product transfer · 300 series stainless steel transfer plate

45 [1.78]

Note: Dim = mm (in)

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.

Stand Accessories

Diagonal Bracing



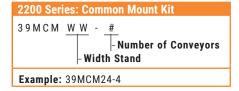
- For use on steel, aluminum and single post support stands with casters
- · Metric fastener mounting hardware included
- For use on all stands with casters and any stands over 1829 mm tall
- One brace per stand for conveyors up to 305 mm wide
- Two braces per stand for conveyors over 305 mm wide

	Part Number	Description
П	39MB-TS 39MB-TT	for two-legged H style stands up to 762 mm tall for two-legged H style stands over 762 mm tall

Common Mount Kit



- · Stand accessory for mounting multiple conveyors in parallel to one stand
- · Adds 40 mm to stand height
- · Adds 71 mm to overall stand width



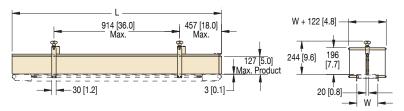
Adjustable Lane Guiding (2200 Belted Conveyors only)



27M GGG - WW LL - Conveyor Length Reference - Conveyor Width Reference - Guide Type: 500 = 2200 Package (Belted) 502 = Additional Lane Guide Example: 27M500-0620

Specifications

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



Important: Exceeding 127 mm product height will produce a pinch point.

Note: Dim = mm (in)



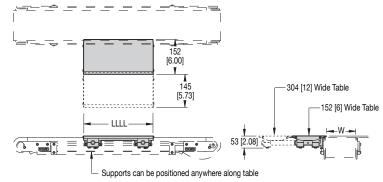
Side Tables



27M TTT - 06 LLLL - Table Length ex. 0200 = 610 mm (2 ft) - Table Width: 06 = 152 mm (6 in) 12 = 610 mm (12 in) - Conveyor / Table Type: 601 = one side 602 = two sides Example: 27M601-060200

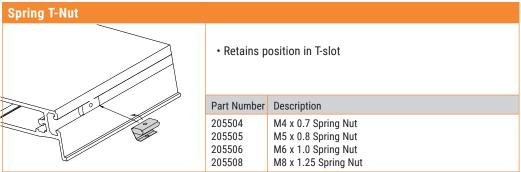
Specifications

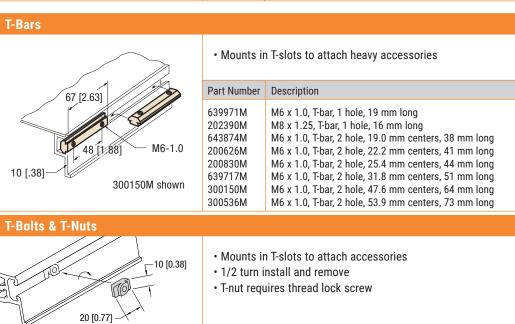
- Provides a 152 mm (6 in) or 305 mm (12 in) wide working surface
- Adjusts in/out and up/down (0.25 in max above bedplate) for product transfer on/off conveyor belts
- · Can be positioned anywhere along the conveyor
- · Anodized aluminum work surface
- Max load: 6 kg/m (5 lbs/ft), use Adjustable Tie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

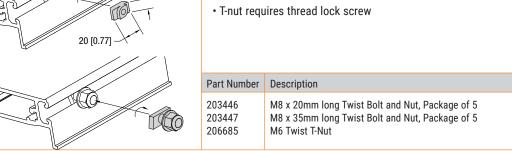


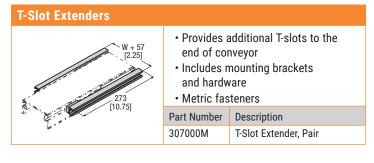
LLLL = 305 to 30,175 mm (1 to 99 ft); Maximum 2,438 mm (8 ft) length single piece

T-Slot Hardware Accessories









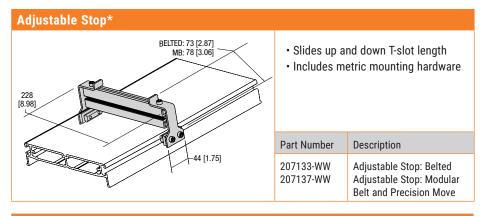


Note: Dim = mm (in)

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

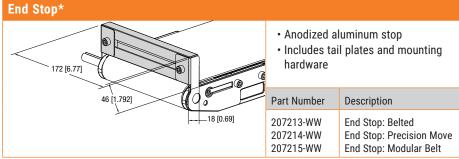


Stops



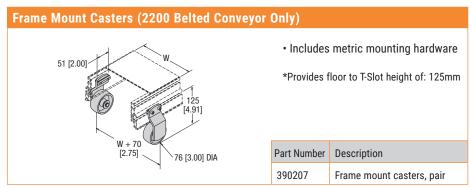
WW = Conveyor Width Reference

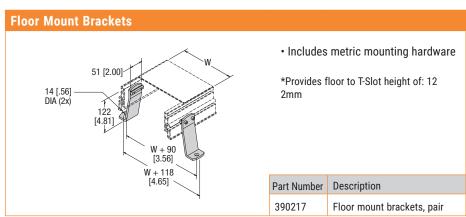
- * Not compatible with high friction belts
- * Not compatible with cleated belt conveyors



Note: Not compatible with gang drive nosebar, cleated belt, or modular belt center drive options

Brackets



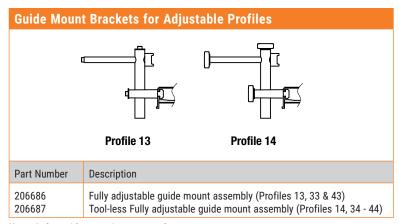


WW = Conveyor Width Reference

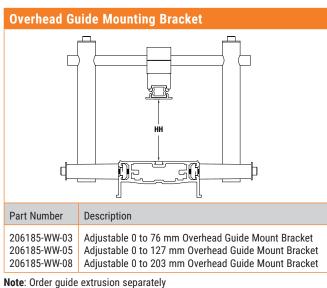
Note: Dim = mm (in)

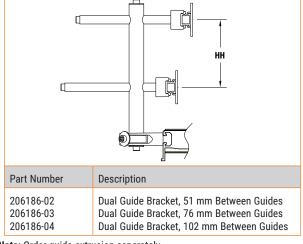
Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.

Guide Mounts



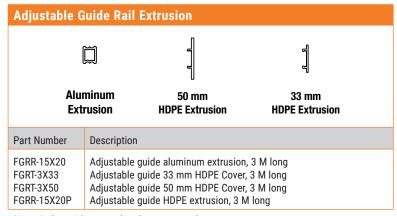
Note: Order guide extrusion separately





Dual Guide Mounting Bracket

Note: Order guide extrusion separately



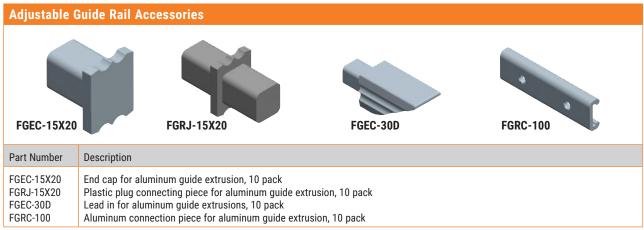
Note: Order guide mount brackets separately

Note: Dim = mm (in)

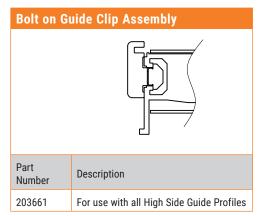
Due to the wide variety of drive set-ups and applications, point of installation guarding is the responsibility of the end user.



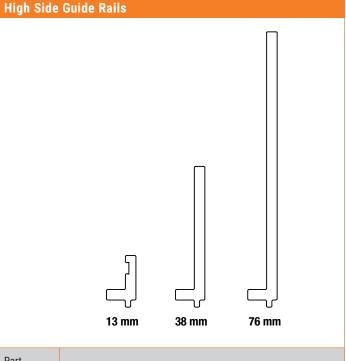
Guide Mounts (continued)



Note: Order guide extrusion separately

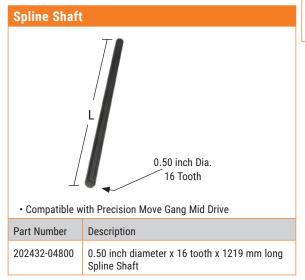


Note: Order guide extrusion separately



Part Number	Description
GTB09A04 GTB09A08 GTB05A04 GTB05A08 GTB04A04	13 mm Aluminum High Side guide extrusion 1220 mm long. 13 mm Aluminum High Side guide extrusion 2438 mm long. 38 mm Aluminum High Side guide extrusion 1220 mm long. 38 mm Aluminum High Side guide extrusion 2438 mm long. 76 mm Aluminum High Side guide extrusion 1220 mm long.
GTB04A04 GTB04A08	76 mm Aluminum High Side guide extrusion 1220 mm long.

Drive Shaft Accessories



Regulatory Approvals:

Conveyors:

All Dorner 2200/2700 Series standard conveyors (not including gearmotors and controllers) are CE approved. CE approval follows the provisions of the following directives; Machine Directive 2006/42/EC, EU Low Voltage Directive 2006/95/EC, and EMC Directive 2004/108/EC. All conveyors are marked with the CE symbol on the Dorner serial number tag located on the conveyor frame. Contact the factory for the CE Declaration of Conformity.

All Dorner 2200/2700 Series standard conveyors (not including gearmotors and controllers) are designed and manufactured in accordance with the restrictions defined in the "Restriction of Hazardous Substances" directive, citation 2002/95/EC, commonly known as RoHS. All conveyors are marked with the RoHS symbols on the Dorner serial number tag located on the conveyor frame.

Gearmotors and Controllers:

All Dorner 2200/2700 Series gearmotors and controllers carry one or more of the following approvals. Products are not covered by each approval. Please see the appropriate part number on the Gearmotor and controller charts located in this manual. In addition, regulatory symbols are located on the product information tags located on the product.

CE	CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, in practice by the Product Directives. CE Marking on a product ensures the free movement of the product within the European Union (EU).
RoHS	This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste.
71 °	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States only. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
c SN °us	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States and Canada. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
® °	CSA International (Canadian Standards Association), is a provider of product testing and certification services for electrical, mechanical, plumbing, gas and a variety of other products. Recognized in the U.S., Canada and around the world, CSA certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and it meets the requirements of an applicable CSA standard or another recognized document used as a basis for certification.
c UL us	The UL Listing Mark means UL found that representative product samples met UL's safety requirements. These requirements are primarily based on UL's own published standards for safety. The C-UL-US Mark indicates compliance with both Canadian and U.S. requirements. The products with this type of Mark have been evaluated to Canadian safety requirements and U.S. safety requirements.

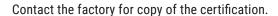


Clean Room Certifications:

The 2200 Series Conveyors are often used in clean room applications where the generation of particulates from the conveyor are a concern. In these applications the correct installation and application of the conveyor is critical to the proper running of the conveyor and minimizing the dust generated by the conveyor belt or modular belt. The end user must ensure that the conveyor belts are properly tracked and product accumulation is minimized to providing minimal dust generation.

All of the 2200 Series products are designed and constructed to be used in clean room environments. The following 2200 Series products have gone through third party testing and certification and are certified for use in ISO Standard 14644-1 Class 5 and Federal Standard 209 Class 100 Clean Room applications.

1100 Series Belted Conveyor
FlexMove Series Flexible Chain Conveyor
FlexMove Stainless Series Conveyor
2200 Series Modular Belted Conveyor
2200 Series Belted Conveyor
2200 Series Precision Move Conveyor
3200 Series Belted Conveyor
3200 Series Modular Belted Conveyor
3200 Series Precision Move Conveyor





Materials and Chemical Resistance:

Conveyor Frames, Plastics and Modular Belting				
The following is a list of base materials used in the 2200 Series conveyor:				
Material	Conveyor Component			
Acetal Copolymer, POM	Modular Belts, molded bearing housings			
Polypropylene, PP	Modular Belts			
Polyamide, PA	Adjustable Guide Support Brackets			
UHMW-PE	Modular Belt Slide Rail, Adjustable Guide Face			
Thermoplastic Elastomer, TPE	Modular Belt Friction Insert			
Aluminum, anodized (Note: cut ends of aluminum is not anodized)	Conveyor Frame, Support Legs, High Side Guiding, Adjustable Guide Horizontal Post, Adjustable Guide Rail			

The materials used in the 2200/2700 Series product can resist many chemicals, however some should be avoided. Avoid the following:

- · Acids with PH less than 4
- · Bases with PH higher than 9

Resistance to Materials: Conveyor Frames, Plastics and Modular Belting

The following table provides the resistance to materials used in the conveyor to several chemicals. Application testing is recommended to determine long term material durability.

Legend:

1 = Very good resistance | 2 = Good resistance | 3 = Moderate resistance | 4 = Not recommended | X = no data available

Acids	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Acetic acid	3	1	4	1	2
Benzoic acid	3	1	4	1	4
Boric acid	3	1	2	1	2
Citric acid	3	1	2	1	2
Chromic acid	4	1	4	1	3
Hydrofluoric acid	4	1	4	1	4
Hydrochloric acid	4	1	4	1	3
Hydro cyanic acid	4	Χ	4	1	1
Nitric acid	4	1	4	1	3
Oleic acid	3	1	2	1	1
Oxalic acid	4	1	2	1	1
Phosphoric acid	4	1	4	1	3
Sulphuric acid	4	2	4	1	3
Tartaric acid	3	1	2	1	1
Basic Compounds	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Ammonia	1	1	2	1	2
Calcium hydroxide	1	Х	2	1	4
Caustic soda	1	Х	2	1	3
Potassium hydroxide	1	1	2	1	4



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Resistance to Materials: Conveyor Frames, Plastics and Modular Belting (continued)

Legend:

1 = Very good resistance | 2 = Good resistance | 3 = Moderate resistance | 4 = Not recommended | X = no data available

Salts	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Potassium bicarbonate	2	Х	2	1	1
Potassium permanganate	2	2	4	1	1
Sodium cyanic	2	Х	2	1	4
Sodium hydrochloride	3	Х	4	1	4
Acid salt	2	Х	3	1	Х
Basic salt	1	Х	2	1	Х
Neutral salt	1	Х	2	1	Х
Organic Compounds	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Acetone	1	1	1	1	1
Aniline	2	1	3	1	1
Benzene	1	3	2	4	1
Benzine	2	Х	2	3	1
Butyl alcohol	2	Х	2	1	1
Carbon disulphide	1	3	2	3	1
Carbon tetrachloride	1	3	1	3	2
Chloroform	1	4	3	4	Χ
Ethyl acetate	1	1	2	1	1
Ethyl alcohol	1	Х	2	1	1
Heptane	2	1	1	2	Χ
Methyl alcohol	1	Χ	2	1	2
Methyl ethyl ketone	1	2	1	2	2
Nitrobenzene	2	2	2	1	1
Phenol	3	1	4	1	1
Gases	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Carbon dioxide	3	1	1	1	1
Carbon monoxide	2	Х	1	1	1
Chlorine	2	4	4	3	1
Hydrogen Sulfide	3	1	1	1	1
Sulphur dioxide	2	1	3	1	1
Other	Acetal POM	Polypropylene	Polyamide PA	UHMW-PE	Aluminum
Carbon tetrachloride	1	3	1	3	2
Beer	1	1	2	1	1
Fruit juice	1	2	2	1	2
Gasoline	1	1	2	1	1
Milk	1	1	1	1	1
Oil	1	3	1	1	1
Vinegar	1	1	2	1	1



Belting:

The following is a list of the top coat materials used in 2200 Series conveyor belting:

Material	Belt Number				
Urethane	01, 02, 03, 05, 06, 09, 54, 55, 56, 53, 60, 61, 63, 68, 69, 72, 73, 75, 76, 77				
PVC (non FDA approved)	08, 18, 59, 64				
Silicone	50, 80, 81				
Polyester	66				
Nitrile	57				
Urethane (hard)	58				

Resistance to Materials: Belting

The following table provides the resistance to belt materials used in the conveyor to several chemicals. Application testing is recommended to determine long term material durability.

Legend:

1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Chemicals					
Acetic acid (glacial acetic acid)	4	3	1	1	4
Acetic acid 10 %	3	1	1	3	1
Acetic anhydride	3	4	1	1	4
Acetone	4	4	1	3	4
Aluminium salts	1	1	1	1	1
Alum	1	1	1	1	1
Ammonia, aqueous	3	1	1	3	1
Ammonia, gaseous	1	1	3	1	1
Ammonium acetate	1	1	1	1	1
Ammonium carbonate	1	1	1	1	1
Ammonium chloride	1	1	1	1	1
Ammonium nitrate	1	1	1	1	1
Ammonium phosphate	1	1	1	1	1
Ammonium sulphate	1	1	1	1	1
Amyl alcohol	1	4	3	1	1
Aniline	3	3	3	4	4
Barium salts	1	1	1	1	1
Benzaldehyde	4	4	4	4	4
Benzine (see also Motor fuels)	1	3	3	1	1
Benzoic acid	1	1	1	1	1
Benzol	3	4	4	3	3
Boric acid	1	1	1	1	1
Boric acid, solution	1	1	1	1	1
Bromine	4	4	4	4	4
Bromine water	4	3	1	4	3
Butane, gaseous	1	1	1	1	1
Butane, liquid	1	1	1	1	1
Butyl acetate	4	4	4	3	4
n-Butyl alcohol	1	3	1	1	1
Calcium chloride	1	1	1	1	1
Calcium nitrate	1	1	1	1	1
Calcium sulphate	1	1	1	1	1
Carbon disulphide	4	4	3	4	4
Carbon tetrachloride	3	4	4	4	3
Chlorine, liquid	4	4	4	4	4



Resistance to Materials: Belting (continued)

Legend:
1 = Good resistance | 3 = Limited resistance | 4 = Not reco

1 = Good resistance 3 = Limited resistance 4 = Not recommended					
Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Chlorine, gaseous, dry	4	4	4	4	4
Chlorine, gaseous, wet	4	4	4	4	4
Chlorine water	4	1	3	4	3
Chlorobenzene	4	4	4	4	4
Chloroform	4	4	4	4	4
Chlorosulphonic acid	4	4	4	4	4
Chromic acid	4	4	4	4	4
Chromium salts	1	1	1	1	1
Chromium trioxide	1	1	1	1	1
Citric acid	4	1	1	1	4
Copper salts	1	1	1	1	3
Cresols	3	3	3	4	3
Cresols, aqueous	3	3	3	3	3
Cyclohexane	4	4	4	1	4
Cyclohexanol	4	4	4	4	4
Cyclohexanone	4	4	4	4	4
Decahydronaphthalene	4	4	4	4	4
Dibutyl phthalate	3	4	1	4	4
Diethyl ether	4	4	4	4	4
Dimethyl formamide	4	4	3	4	4
1.4 Dioxan	4	4	3	4	4
Ether	4	4	4	4	4
Ethyl acetate	4	4	4	3	4
Ethyl alcohol, non-denatured 100%	1	3	3	1	1
Ethyl alcohol, non-denatured 96%	1	3	3	1	1
Ethyl alcohol, non-denatured 50%	1	3	3	1	1
Ethyl alcohol, non-denatured 10%	1	3	1	1	1
Ethyl benzene	4	4	4	4	4
Ethyl chloride	4	4	4	4	4
Ethylene chloride	4	4	4	4	4
2-Ethyl hexanol	1	3	1	1	1
Formaldehyde	1	3	1	3	1
Formic acid, dilute	4	1	1	3	3
Glycerine	1	1	1	1	1
Glycerine, aqueous	1	1	1	1	1
Glycol	1	3	1	1	1
Glycol, aqueous	1	1	1	1	1
Heptane	1	3	3	1	1
Hexane	1	3	3	1	1
Hydrochloric acid, conc.	3	1	4	3	1
Hydrochloric acid 10 %	3	1	1	1	1
Hydrofluoric acid 40 %	4	4	4	4	4
Hydrogen chloride, gaseous, dilute	3	1	3	3	1
Hydrogen chloride, gaseous, conc.	3	3	3	4	3
Hydrogen peroxide 10%	3	1	1	3	1
Hydrogen sulphide	3	3	3	3	3
Iron salts (sulphate)	1	1	1	1	1
Isooctane	1	3	3	1	1
Isopropyl alcohol	1	3	1	1	1
Lactic acid	1	3	1	1	1

TECHNICAL DATA AND CALCULATIONS 2200/2700 SERIES

Resistance to Materials: Belting (continued)

Legend:
1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

1 = Good resistance 3 = Limited resistance		4 = Not recommended			
Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Magnesium salts	1	1	1	1	1
Mercury	1	1	1	1	1
Mercury salts	1	1	1	1	1
Methyl alcohol, aqueous 50 %	3	3	1	1	1
Methyl alcohol (methanol)	1	3	1	1	1
Methyl ethyl ketone	4	4	1	3	4
Methylene chloride	4	4	4	4	4
Naphthalene	3	4	4	3	4
Nickel salts	1	1	1	1	1
Nitric acid	4	3	4	4	4
Nitrobenzene	4	4	1	3	4
Octane (see also isooctane)	1	3	4	1	1
Oleic acid	1	3	4	1	1
Oxalic acid	1	1	1	1	1
Ozone	1	3	3	1	3
Perchloroethylene	4	4	4	4	4
Phenol	3	3	1	4	3
Phenol, aqueous	4	3	1	4	3
Phosphoric acid 85 %	4	1	1	3	1
Phosphoric acid 50 %	1	1	1	1	1
Phosphoric acid 10 %	1	1	1	1	1
Phosphorus pentoxide	1	1	1	1	1
Potash lye 50 %	4	1	4	3	4
Potash lye 25 %	4	1	4	1	4
Potash lye 10 %	4	1	3	1	4
Potassium carbonate (potash)	1	1	1	1	1
Potassium chlorate	1	1	1	1	1
Potassium chloride	1	1	1	1	1
Potassium dichromate	1	1	1	1	1
Potassium iodide	1	1	1	1	1
Potassium nitrate	1	1	1	1	1
Potassium permanganate	1	1	1	1	1
Potassium persulphate	1	1	1	1	1
Potassium sulphate	1	1	1	1	1
Propane, gaseous	1	1	1	1	1
Propane, liquid	1	1	1	1	1
Pyridine	4	4	3	4	4
Silver salts	1	1	1	1	1
Soda lye 50% (see potash lye)	4	1	4	4	4
Soda iye 50% (see potasii iye)	4	1	4	3	4
· · · · · · · · · · · · · · · · · · ·	4	1			4
Soda lye 10%		1	3	1	
Sodium bisulphite	1 1	1	1	1 1	1
Sodium carbonate (natron)			1		1
Sodium carbonate (soda)	1	1	1	1	1
Sodium chlorate	1	1	1	1	1
Sodium chloride (common salt)	1	1	1	1	1
Sodium hydroxide (caustic soda)	4	1	4	1	4
Sodium hypochlorite	1	1	1	3	1
Sodium nitrate	1	1	1	1	1
Sodium nitrite	1	1	1	1	1
Sodium perborate	1	1	1	1	1
Sodium phosphate	1	1	1	1	1



Resistance to Materials: Belting (continued)

Legend:

1 = Good resistance 3 = Limited resistance 4 = Not recommended					
Materials	Urethane	PVC (non FDA)	Silicone	Polyester	Urethane (hard)
Sodium sulphate (Glauber salt)	1	1	1	1	1
Sodium sulphide	1	1	1	1	1
Sodium sulphite	1	1	1	1	1
Sodium thiosulphate (fixing salt)	1	1	1	1	1
Stearic acid	1	1	1	1	1
Succinic acid	1	1	1	1	1
Sulphur	1	1	1	1	1
Sulphur dioxide	3	3	3	3	4
Sulphuric acid 96%	4	4	4	4	4
Sulphuric acid 50%	4	3	4	3	4
Sulphuric acid 25%	4	3	3	1	3
Sulphuric acid 10%	4	3	1	1	3
Tartaric acids	1	1	1	1	1
Tetrachloroethane	4	4	4	4	4
Tetrachloroethylene (perchloroethylene)	4	4	4	4	4
Tetrahydrofuran	4	4	4	4	4
Tetrahydronaphthalene	4	4	4	4	4
Thiophene	4	4	4	4	4
Tin II chlorides	1	1	1	1	1
Toluene	4	4	4	4	4
Trichloroethylene	4	4	4	4	4
Urea, aqueous	1	1	1	1	1
Water	1	1	1	1	1
Xylene	4	4	4	3	4
Zinc salts	1	1	1	1	1
Products					
Alum	1	1	1	1	1
Anti-freeze*	1	3	1	1	1
Aqua regia	4	4	4	4	4
Asphalt	1	3	3	1	1
Battery acid	4	4	4	4	4
Benzine	1	3	3	1	1
Bleaching lye (12.5%)	1	1	1	1	3
Bone oil	1	3	4	1	1
Borax	1	1	1	1	1
Brake fluid* Bosch	1	3	1	1	3
Brake fluid* Skydrol	4	4	3	4	4
Chloride of lime (aqueous suspension)	1	1	1	1	3
Chlorine (active)	4	4	4	4	4
Chrome baths* (technical)	1	3	3	1	1
Chromosulphuric acid	4	4	4	4	4
Cresol solution	3	3	4	4	4
Diesel oil	1	1	3	1	1
Fertilizer salts	1	1	1	1	1
Fixing salt	1	1	1	1	1
Floor wax	1	3	3	1	1
Formalin	1	3	3	1	1
Fuel oils*	1	1	3	1	1
Furniture polish*	1	3	3	1	1
Gypsum	1	1	1	1	1
Ink*	1	1	1	1	1
nii N	<u> </u>	<u>'</u>	<u>'</u>	<u>'</u>	'

Resistance to Materials: Belting (continued)							
1 = Good resistand	Legend: 1 = Good resistance 3 = Limited resistance 4 = Not recommended						
Materials	Materials Urethane PVC Silicone Polyester (hard)						
Linseed oil	1	3	1	1	1		
Litex (styrene)	4	4	4	4	4		
Mineral oils (non-aromatic)	1	1	1	1	1		
Moth balls	3	4	3	3	3		
Diesel oil*	1	1	3	1	1		
Petrol (gasoline) DIN51635	1	3	3	1	1		
Petrol, regular	1	3	3	1	1		
Petrol, super	3	4	3	1	3		
Motor oils*	1	1	1	1	1		
Oil no. 3 (ASTM)	1	3	1	1	1		
Oleum	4	4	4	4	4		
Paraffin	1	1	1	1	1		
Paraffin oil	1	1	1	1	1		
Petroleum	1	3	3	1	1		
Petroleum ether	1	3	4	1	1		
Photographic developer	1	1	1	1	1		

Bearings and Lubrication:

All bearings on the 2200/2700 Series conveyor are sealed and lubricated for life. No grease zerk is available and no greasing over the life of the product is required.

All gearmotors used on the 2200/2700 series conveyor are sealed and may be mounted in any position. Changing gear oil lubrication may be needed over the life of the gearbox. Please check the appropriate gearmotor manual for instructions.

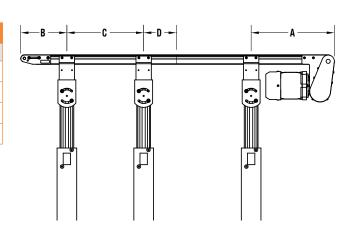
Support Stand Locations:

Support Stand Locations					
Symbol	Description	Value, mm			
A*	Maximum distance back at drive end	457			
В	Maximum distance back at idler end	610			
С	Maximum distance between supports	2743			
D**	Maximum distance away from frame split	600			

*Note: For heavy load mount packages stand location must be mounted

directly under gearmotor.

^{**}Note: Mounting offset frame split requires tie kit 206519



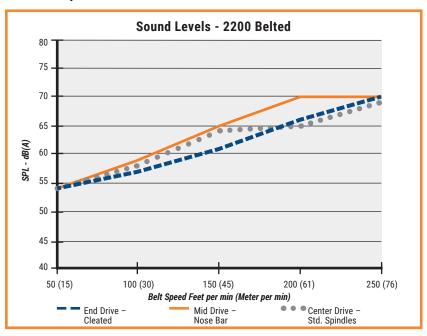


Conveyor Noise Level (Decibel Ratings)

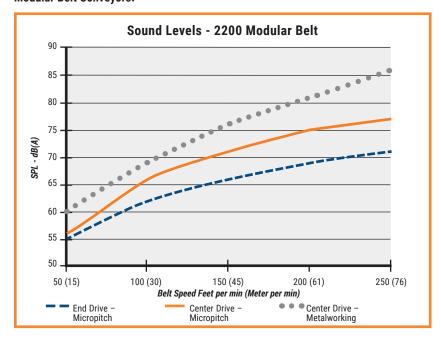
The actual noise level generated by the conveyor depends on several factors; the installation configuration, the product running on the conveyor, the surrounding equipment, the conveyor options and belt speed. The noise level generated by the conveyor is typically less than the general noise level of factory equipment.

Generally a higher belt speed will result in a higher noise level. In addition modular belt conveyors will run slightly louder than belted conveyors. The following charts provide basic decibel ratings for a typical conveyor arrangement.

Belted Conveyors:



Modular Belt Conveyors:





Maximum Load Capacity

The following Load Capacity Charts **do not** take into account the conveyor configuration, length or gearmotor selection. Your specific conveyor may not be capable of the maximum load condition. Please confirm your maximum load per application with the Dorner DTools program at www.dornerconveyors.com.

All load capacities shown are non-accumulated evenly distributed loads.

2200 Series End Drive Belted Conveyor		
Belt Width	Direction 1, Pulling the Belt	Direction 2, Pushing the Belt
51 (2 in) wide	14 kg (30 lbs)	7 kg (15 lbs)
76 (3 in) wide	16 kg (35 lbs)	8 kg (18 lbs)
102 (4 in) wide	19 kg (42 lbs)	10 kg (21 lbs)
127 (5 in) wide	23 kg (50 lbs)	11 kg (25 lbs)
152 (6 in) wide	27 kg (60 lbs)	14 kg (30 lbs)
203 (8 in) wide	32 kg (70 lbs)	16 kg (35 lbs)
254 to 610 mm (10 to 24 in) wide	36 kg (80 lbs)	18 kg (40 lbs)

2200 Series Belted Center Drive Conveyor		
Belt Width	Direction 1, Pulling the Belt	Direction 2, Pushing the Belt
51 (2 in) wide	18 kg (40 lbs)	6 kg (13 lbs)
76 (3 in) wide	23 kg (50 lbs)	8 kg (17 lbs)
102 (4 in) wide	27 kg (60 lbs)	9 kg (20 lbs)
127 (5 in) wide	34 (75 lbs)	11 kg (25 lbs)
152 (6 in) wide	41 kg (90 lbs)	14 kg (30 lbs)
203 (8 in) wide	48 kg (105 lbs)	16 kg (35 lbs)
254 to 610 mm (10 to 24 in) wide	54 kg (120 lbs)	18 kg (40 lbs)

2200 Series Mid Drive Belted Conveyor		
Belt Width	Direction 1, Pulling the Belt	
51 (2 in) wide	14 kg (30 lbs)	
76 (3 in) wide	16 kg (35 lbs)	
102 (4 in) wide	19 kg (42 lbs)	
127 (5 in) wide	23 kg (50 lbs)	
152 (6 in) wide	27 kg (60 lbs)	
203 (8 in) wide	32 kg (70 lbs)	
254 to 610 mm (10 to 24 in) wide	36 kg (80 lbs)	

2200 Series Precision Move End and Mid Drive Conveyor		
Belt Width	Direction 1, Pulling the Belt	
25 mm (1 in) wide	91 kg (200 lbs)	
51 (2 in) wide	91 kg (200 lbs)	
76 (3 in) wide	91 kg (200 lbs)	
102 (4 in) wide	91 kg (200 lbs)	
152 (6 in) wide	91 kg (200 lbs)	
203 (8 in) wide	91 kg (200 lbs)	
305 (12 in) wide	91 kg (200 lbs)	
457 (18 in) wide	91 kg (200 lbs)	
610 (24 in) wide	91 kg (200 lbs)	

2700 Series End Drive Belted Conveyor		
Belt Width	Direction 1, Pulling the Belt	Direction 2, Pushing the Belt
203 (8 in) wide	45 kg (99 lbs)	15 kg (33 lbs)
254 (10 in) wide	48 kg (106 lbs)	16 kg (35 lbs)
305 (12 in) wide	51 kg (112 lbs)	17 kg (37 lbs)
356 (14 in) wide	54 kg (119 lbs)	18 kg (40 lbs)
406 (16 in) wide	57 kg (125 lbs)	19 kg (42 lbs)
457 (18 in) wide	60 kg (132 lbs)	20 kg (44 lbs)
508 (20 in) wide	63 kg (139 lbs)	21 kg (46 lbs)
559 (22 in) wide	66 kg (145 lbs)	22 kg (48 lbs)
"610 to 914 mm (24 to 36 in) wide"	68 kg (150 lbs)	23 kg (51 lbs)

2700 Series Mid Drive Belted Conveyor	
Belt Width	Direction 1, Pulling the Belt
203 (8 in) wide	45 kg (99 lbs)
254 (10 in) wide	48 kg (106 lbs)
305 (12 in) wide	51 kg (112 lbs)
356 (14 in) wide	54 kg (119 lbs)
406 (16 in) wide	57 kg (125 lbs)
457 (18 in) wide	60 kg (132 lbs)
508 (20 in) wide	63 kg (139 lbs)
559 (22 in) wide	66 kg (145 lbs)
"610 to 914 mm (24 to 36 in) wide"	68 kg (150 lbs)

2200 Series Modular Belt End and Center Drive Conveyor		
Belt Width	Direction 1, Pulling the Belt	
76 (3 in) wide	36 kg (80 lbs)	
102 (4 in) wide	36 kg (80 lbs)	
152 (6 in) wide	45 kg (100 lbs)	
203 (8 in) wide	45 kg (100 lbs)	
305 (12 in) wide	68 kg (150 lbs)	
457 (18 in) wide	68 kg (150 lbs)	
610 (24 in) wide	68 kg (150 lbs)	



No Load Torque

No load torque is the amount of torque required to turn an empty conveyor. The torque value varies by conveyor length and configuration. The following charts provide basic values for an average length conveyor. Your specific conveyor may not have a higher value. Please confirm your no load torque and maximum load per application with the Dorner DTools program at www.dornerconveyors.com.

Belted Conveyor

2200 Series Belted Conveyor No Load Torque			
Belt Width mm (in)	End Drive Nm (in-lbs)	Mid Drive Nm (in-lbs)	Center Drive Nm (in-lbs)
44 (1.75)	0.5 (4)	0.8 (7)	1 (9)
70 (2.75)	0.6 (5)	0.9 (8)	1.1 (10)
95 (3.75)	0.7 (6)	1 (9)	1.2 (11)
127 (5)	0.8 (7)	1.1 (10)	1.4 (12)
152 (6)	0.9 (8)	1.4 (12)	1.7 (15)
203 (8)	1.1 (10)	1.7 (15)	2.3 (20)
254 (10)	1.4 (12)	2 (18)	2.6 (23)
305 (12)	1.6 (14)	2.3 (20)	2.8 (25)
356 (14)	1.7 (15)	2.4 (21)	3.1 (27)
406 (16)	1.8 (16)	2.5 (22)	3.2 (28)
457 (18)	1.9 (17)	2.7 (24)	3.4 (30)
508 (20)	2 (18)	2.8 (25)	3.6 (32)
559 (22)	2.1 (19)	2.9 (26)	3.7 (33)
610 (24)	2.3 (20)	3.2 (28)	4 (35)

2700 Series Belted Conveyor No Load Torque		
Belt Width mm (in)	End Drive Nm (in-lbs)	Mid Drive Nm (in-lbs)
203 (8)	0.68 (6)	1.02 (9)
254 (10)	0.85 (7.5)	1.19 (10.5)
305 (12)	1.02 (9)	1.36 (12)
356 (14)	1.19 (10.5)	1.53 (13.5)
406 (16)	1.36 (12)	1.69 (15)
457 (18)	1.53 (13.5)	1.86 (16.5)
508 (20)	1.69 (15)	2.03 (18)
559 (22)	1.86 (16.5)	2.2 (19.5)
610 (24)	2.03 (18)	2.37 (21)
660 (26)	2.2 (19.5)	2.54 (22.5)
711 (28)	2.37 (21)	2.71 (24)
762 (30)	2.54 (22.5)	2.88 (25.5)
813 (32)	2.71 (24)	3.05 (27)
864 (34)	2.88 (25.5)	3.22 (28.5)
914 (36)	3.05 (27)	3.39 (30)

2200 Modular Belt Conveyor:

The no load torque on modular belt conveyors is dependent on the conveyor length and width. Use the following formula to determine no load torque. Where:

L = conveyor length (mm)

W = conveyor width (mm)

Micropitch No Load Torque (Nm) = (0.3C0F)*(L/1000*(W/1000)*(2)*(6.35 Kg/sq m)*(43.2/1000 in pitch)*9.81Metalworking No I=Load Torque (Nm) = (0.3C0F)*(L/1000*(W/1000)*(2)*(6.35 Kg/sq m)*(47.8/1000 in pitch)*9.81

Example: 2200 Series Modular Belt Micropitch, 305 mm wide x 3000 mm long

Micropitch No Load Torque (Nm) = (0.3C0F)*(3000/1000*(305/1000)*(2)*(6.35 Kg/sq m)*(47.8/1000 in pitch)*9.81Micropitch No Load Torque (Nm) = 0.74 Nm



Belting and Coefficient of Friction

The coefficient of friction is used to determine the load a conveyor can carry. It effects a conveyor in two ways: the friction that exists between the conveyor belt and the bed surface, and if accumulating product, the friction that exists between the conveyor top surface and the product.

Coefficient of Friction, between the bottom of the conveyor belt and bed surface:

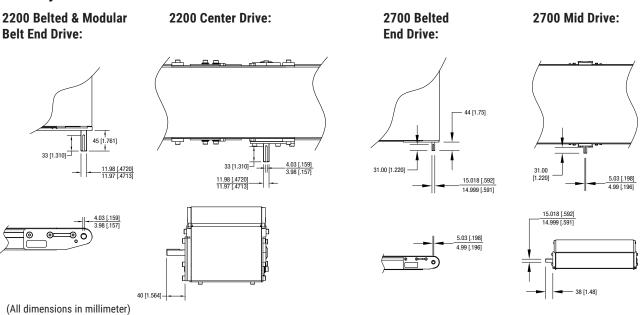
Product	Surfaces	Application Condition	Coefficient of Friction
2200/2700 Series Belted	Impregnated polyester fabric to anodized aluminum bed plate	Dry	0.33
2200 Series Modular Belt	Acetal modular belt to UHMW wear strips	Dry	0.30

Coefficient of Friction, between the top surface of conveyor belt and product:

2200/2700 Series Belted		
The following table provides the coefficient of friction between steel product and various belt top surfaces. All factors below are assuming dry conditions.		
Belt Number	Top Surface Material and Type	Coefficient of Friction
01, 54, 58, 68, 73, 81	Smooth hard urethane	0.40
02, 59, 60, 61, 66, 72, 76, 79 Smooth medium urethane 0.50		0.50
03, 19, 55, 69, 75, 77, 78, 80 Glossy soft urethane >1.0, do not accumulate		
05, 06, 50, 53, 63 Impregnated polyester fabric 0.20		0.20
08, 18, 64	PVC, Very High friction	>1.0, do not accumulate

2200 Series Modular Belt		
The following table provides the coefficient of friction between acetal modular belt and various products. All factors below are assuming dry conditions.		
Product Being Accumulated	Product Being Accumulated Typical Coefficient of Friction	
Steel	0.25	
Glass	0.20	
Aluminum	0.25	
Plastic	0.25	
Wood	0.30	
Paper and Cardboard	0.30	

Conveyor Drive Shaft Tolerances:



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Calculating Conveyor Belt Speed

2200/2700 Series Belted Conveyors:

To calculate the conveyor belt speed you need to know the following factors:

- Drive roller diameter
 - · 32 mm (1.25 in) for 2200 end, mid and center drives
 - 60 mm (2.4 in) for 2700 end and mid drives
- · Number of teeth of pulley located at drive roller (if equipped)
- Number of teeth of pulley located at gearmotor (if equipped)
- · RPM of gearmotor

Belt Speed (Meter/min) = (Drive roller diameter/1000)*(3.14)*(RPM of gearmotor)* $\frac{\text{(Teeth at gearmotor)}}{\text{(Teeth at drive roller)}}$

Example:

2200 Series End Drive with a Bottom mount with a 28 tooth pulley located at the drive roller and a 44 tooth pulley located on the gearmotor. The gearmotor is a 20:1 ratio with 86 rpm output.

Belt Speed (M/min) = (32/1000)*(3.14)*(86)*(44/28)

Belt speed (M/min) = 13.6 M/min

2200 Series Modular Belt Conveyors:

To calculate the conveyor belt speed you need to know the following factors:

- · Drive sprocket pitch diameter
 - 43.2 mm for Belts 01 and 02
 - 47.8 mm for Belts 30, 31, 32, 40, 41 and 42
- Number of teeth of pulley located at drive roller (if equipped)
- Number of teeth of pulley located at gearmotor (if equipped)
- · RPM of gearmotor

Belt Speed (M/min) = (Drive pitch diameter/1000)*(3.14)*(RPM of gearmotor)* $\frac{\text{(Teeth at gearmotor)}}{\text{(Teeth at drive roller)}}$

Example:

2200 Series Straight Modular Belt Conveyor with a Bottom mount with a 28 tooth pulley located at the drive roller and a 44 tooth pulley located on the gearmotor. The gearmotor is a 20:1 ratio with 86 rpm output. Belt type is 30.

Belt Speed (M/min) = (42.8/1000)*(3.14)*(86)*(44/28)

Belt speed (M/min) = 20.3 M/min

Calculating Conveyor Load Capacity

There are several factor that effect the overall conveyor load of the 2200/2700 Series conveyor. These include:

- Conveyor size and configuration
- Conveyor speed
- · Application temperature
- · Product Accumulation
- · Number of starts and stops per hour

Located online at www.dornerconveyors.com is the Dorner conveyor configuration tool, DTools. This tool allows you to configure your conveyor layout and determine the maximum load capacity for the conveyor. It is suggested that this program be used to calculate the conveyor load as the calculation is quite complicated. This configuration program however does not take into account temperature, dirty conditions, and conveyor starts and stops. If these conditions are part of your application please use the load reducing factors as shown below.

Maximum Load = (Load from DTools)(Temperature Factor)(Start/Stop Factor)

Temperature Factor Ambient temperature can negatively affect the capacity of the conveyor. Temperature F Temperature C **Temperature Factor** -4 -20 1.0 32 0 1.0 1.0 68 20 104 40 0.9 140 60 0.8

Start / Stop Factor

Frequent Start / Stops of the conveyor can negatively affect the capacity of the conveyor. All start / stop applications must use a soft start mechanism such as a Frequency Inverter with a 1 second acceleration cycle.

Application Condition	Start / Stop Factor
Continuous Run or 1 start/stop per hour	1.0
Maximum 10 starts/stop per hour	0.83
Maximum 30 starts/stop per hour	0.70
Greater than 30 starts/stop per hour	0.62



2200/2700 SERIES

2200 & 2700 Series Conveyors are best for:

- Small to Medium Part Handling
 Precision Part Movement
- Transfers
- Accumulation

- Part Incline/Decline Routing (Z Frames)
- Positioning
- Automated and Manual Assembly

Sizes & Measurements

- 25 914 mm (1 36 in) widths
- 457 9144 mm (18 in 30 ft) lengths

Loads & Speeds

- Up to 68 kg (150 lbs)
- Up to 122 mpm (400 fpm)



Conveyor Configurations







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Contact Dorner

Germany

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Canada

+1-289-208-7306

Malaysia

+604-626-2948

Mexico

+52.33.30037400



By Columbus McKinnon

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