

AQUAGARD® SERIES

7200/7300 SANITARY CONVEYORS
STAINLESS STEEL

*Aqua***Gard**®



General Specifications:

- Flat and Cleated Belt
- Widths: 1.75" (44 mm) to 18" (457 mm)
- Lengths: 2' (610 mm) to 18' (5,486 mm)
- Loads up to 60 lbs (27 kg)
- **CE** models available

Applications:

- Part Accumulation
- Small Part Transfers
- Wash Down and Clean Rooms
- Small Part Handling and Positioning
- Part/Package Infeed and Outfeed
- Automated and Manual Assembly



V-Guided Belts



Quick Release Rack and Pinion Tension



High Pressure Bearing Options



7200 & 7300 FLAT BELT END DRIVE **198**

7200 & 7300 CLEATED BELT END DRIVE **200**

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PART NUMBER REFERENCE **217**

AquaGard® 7200 & 7300 SERIES: FLAT BELT END DRIVE



Specifications:

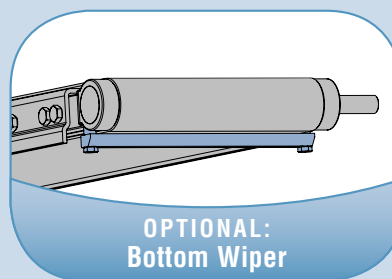
- Loads up to 60 lbs* (27 kg)
- Belt speeds up to 264 ft/min (81 m/min)
- Belt widths: 1.75" (44 mm) to 18" (457 mm)
- Conveyor lengths: 2' (610 mm) to 18' (5,486 mm)
- 11 gauge stainless steel roll formed frame
- Complete stainless steel construction
- 1.25" (32 mm) diameter drive pulley turns approximately 4.25" (108 mm) of belt per revolution
- 1.5" (38 mm) bottom of frame to top of belt
- Self-aligning stainless steel sealed bearings with FDA approved solid lubricant
- Washdown rated gearmotors and controls
- CE models available



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

Features & Benefits:

- Quick five-minute belt change for increased uptime
- Rack and pinion for fast single point belt tensioning
- 304 stainless steel frame, head and tail plates are polished to a #4 finish
- V-Groove frame with guided belt ensures accurate tracking
- Wedge-Lok® system for impact protection
- Streamlined design fits where other conveyors do not
- Low profile, single piece frame for quick, easy cleaning
- Quick-clamp rail for easy mounting of bolt-on accessories
- Optional 0.25" (6 mm) thick bottom wiper
- A variety of FDA approved belting to meet application needs



OPTIONAL:
Bottom Wiper



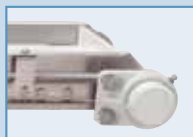
OPTIONAL:
Tool-less Belt
Change Handles

Tool-less Belt Change Handles for quick belt release. Part # 456060



7200 RATED FOR
LOW PRESSURE

Soap & Water
Cleaners

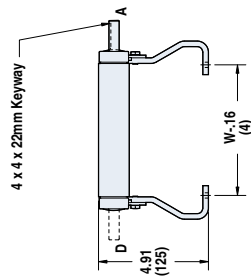


7300 RATED FOR
HIGH PRESSURE

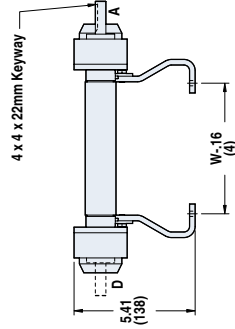
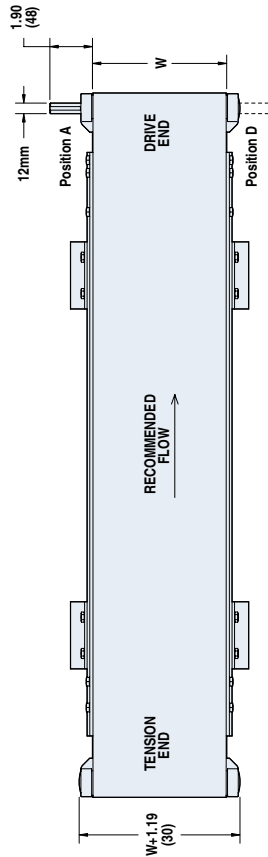
Chlorinated Cleaners

Order gearmotor mounting packages and gearmotors separately, see pages 206-214.
For support stands and accessories, see pages 215-216.

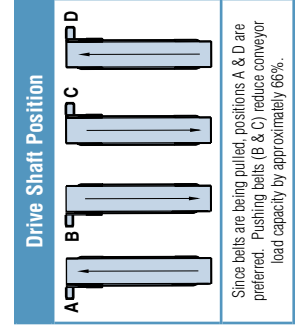
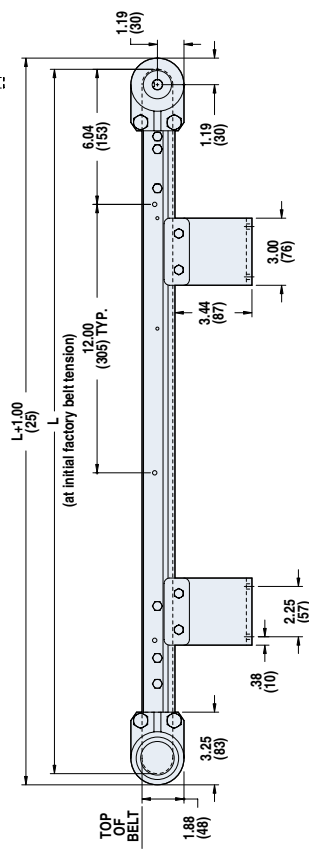
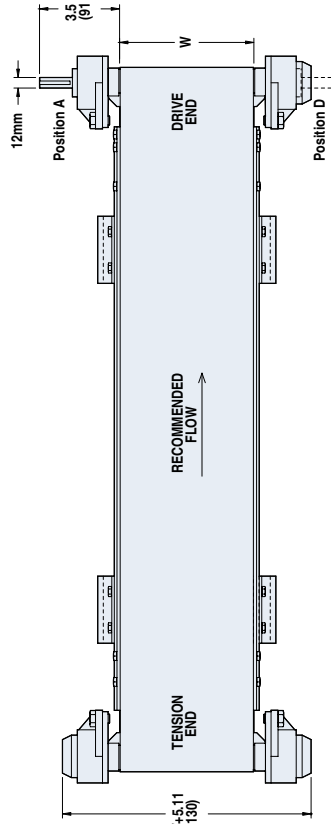
For ordering information, see pages 217 and 218



7200



7300



W = Conveyor Belt Width
Dim = in (mm)

STANDARD SIZES		Conveyor Length Reference							
Conveyor Width Reference	02	03	04	05	06	08	10	12	18
Conveyor Belt Width (W)	1.75" (44mm)	2.75" (70mm)	3.75" (95mm)	5" (127mm)	6" (152mm)	8" (203mm)	10" (254mm)	12" (305mm)	18" (457mm)
Conveyor Length Reference	0200	0001 increments up to...							
Conveyor Length (L)	2' (610mm)	0.12" (3mm) increments up to...							

Note: Lengths 13' to 18' available in widths 6" to 18" only.

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

AquaGard® 7200 & 7300 SERIES: CLEATED BELT END DRIVE



Specifications:

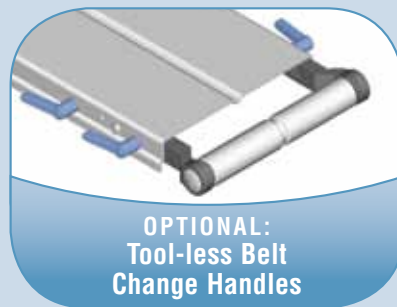
- Loads up to 60 lbs* (27 kg)
- Belt speeds up to 264 ft/min (81 m/min)
- Belt widths: 1.75" (44 mm) to 18" (457 mm)
- Conveyor lengths: 2' (610 mm) to 18' (5,486 mm)
- Cleats available from 0.43" (1 mm) to 2.36" (60 mm) high
- 11 gauge stainless steel roll formed frame
- Complete stainless steel construction
- 1.25" (32 mm) diameter drive pulley turns approximately 4.25" (108 mm) of belt per revolution
- 1.5" (38 mm) bottom of frame to top of belt
- Self-aligning stainless steel sealed bearings with FDA approved solid lubricant
- Washdown rated gearmotors and controls
- CE models available



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

Features & Benefits:

- Quick five-minute belt change for increased uptime
- Rack and pinion for fast single point belt tensioning
- 304 stainless steel frame, head and tail plates are polished to a #4 finish
- V-Groove frame with guided belt ensures accurate tracking
- Wedge-Lok® system for impact protection
- Streamlined design fits where other conveyors do not
- Low profile, single piece frame for quick, easy cleaning
- Quick-clamp rail for easy mounting of bolt-on accessories
- A variety of FDA approved belting to meet application needs



**OPTIONAL:
Tool-less Belt
Change Handles**

Tool-less Belt Change Handles for quick belt release. Part # 456060



**7200 RATED FOR
LOW PRESSURE**

Soap & Water
Cleaners

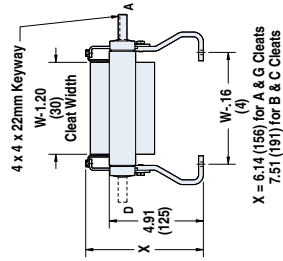


**7300 RATED FOR
HIGH PRESSURE**

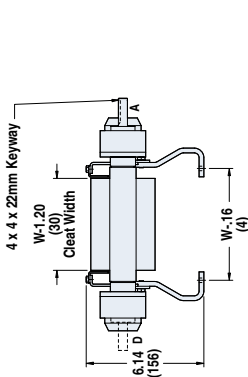
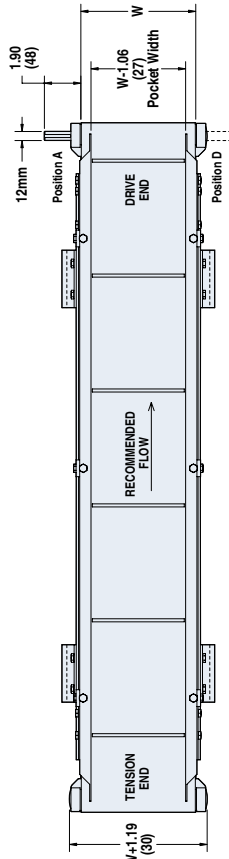
Chlorinated Cleaners

Order gearmotor mounting packages and gearmotors separately, see pages 206-214.
For support stands and accessories, see pages 215-216.

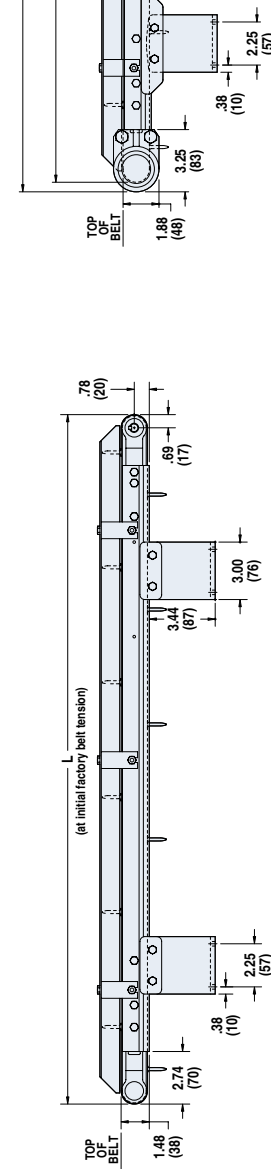
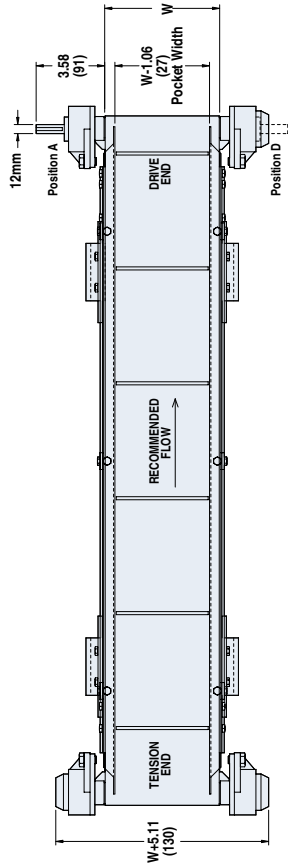
For ordering information, see pages 217 and 218



7200

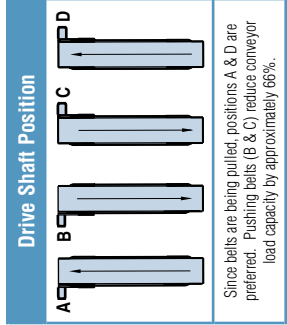


7300



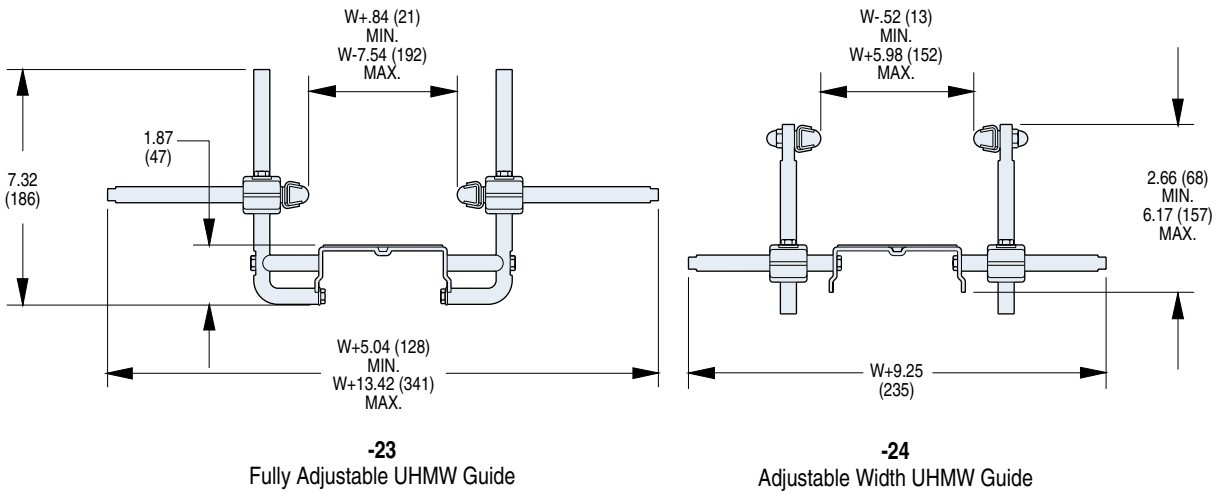
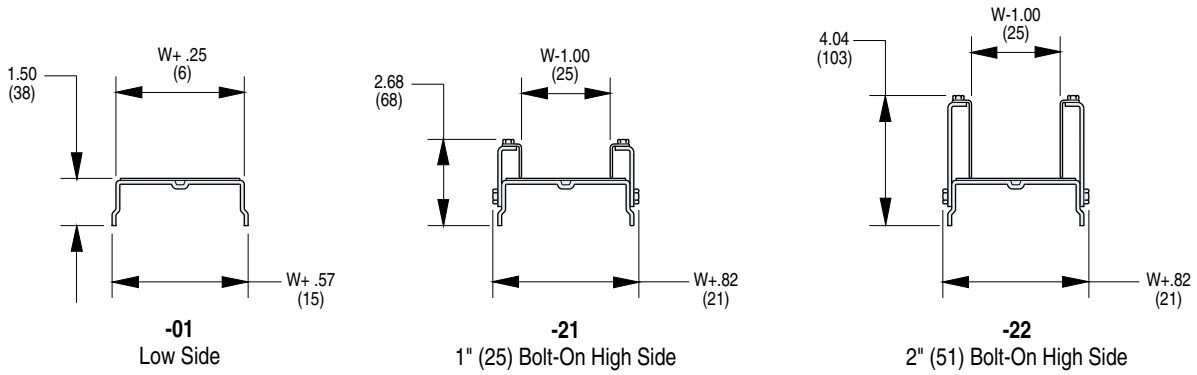
W = Conveyor Belt Width Dim = in (mm)

STANDARD SIZES									
Conveyor Width Reference	02	03	04	05	06	08	10	12	18
Conveyor Belt Width (W)	1.75" (44mm)	2.75" (70mm)	3.75" (95mm)	5" (127mm)	6" (152mm)	8" (203mm)	10" (254mm)	12" (305mm)	18" (457mm)
Conveyor Length Reference	0200	0001 increments up to...							
Conveyor Length (L)	2' (610mm)	0.12" (3mm) increments up to...							



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

AquaGard® 7200 & 7300 SERIES: PROFILES



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



For quick removal of Profile -21 and -22
(Part # 450196MSS)

**Wet applications are limited to specialty belt types 54, 55, 68 and 69 only!
(see page 204)**



Standard Belt Selection Guide

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

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

Dim = in (mm)

Note: See below for splice details. Plastic Clipper splice requires longer lead times.

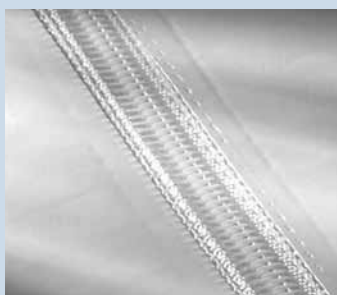
* Metal Clipper splices are not sanitary. **Incline varies due to factors like dust, fluids and part material.

BELT SPLICING



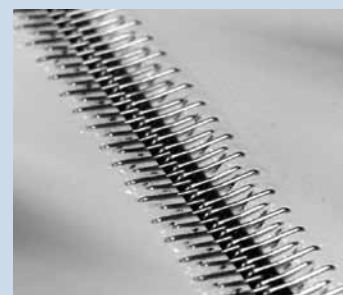
Finger Splice

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



Plastic Clipper***

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



Metal Clipper***

An optional metal clipper splice is also available for quick removal of belts or when conveyors are installed in tight spaces. (Not Sanitary)

*** See belt charts for compatibility. Not for use with 7200/7300 Series with bottom wiper option. Plastic and Metal Clippers are slightly thicker than base belt. Consult factory for details.

**Wet applications are limited to specialty belt types 54, 55, 68 and 69 only!
Urethane Enclosed belts for added sanitary protection. See Belt Types 68 & 69.**



Specialty Belt Selection Guide

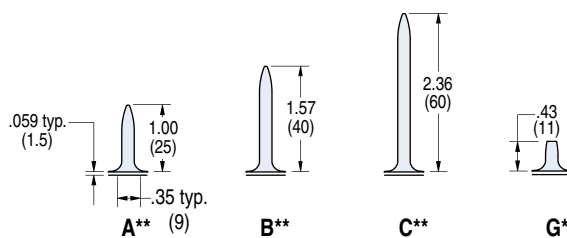
Specialty belt material is not stocked at Dorner and needs to be custom ordered for your special conveyor needs.

Belt Type - Finger Splice	Belt Type - Plastic Clipper	Belt Type - Metal Clipper*	Belt Specifications	Belt Thickness	Surface Material	Maximum Part Temperature	Coefficient of Friction	FDA Approved	Chemical Resistance	Moisture Resistance	Special Characteristics or Applications
54	F4	4F	FDA Sealed Edge**	0.06 (1.6)	Urethane	176°F (80°C)	Low	x	Good	Good	Packaging, clean room and inspection, wet environment
55	F5	5F	FDA Sealed Edge**	0.06 (1.6)	Urethane	176°F (80°C)	High	x	Good	Good	Packaging, clean room and inspection, wet environment
56		6F	Cut Resistant	0.08 (2.1)	Urethane	212°F (100°C)	Med.		Good	Poor	Oily product release, metal stamping
57		7F	Cut Resistant	0.10 (2.5)	Nitrile	176°F (80°C)	Med.		Poor	Poor	Felt-like, dry metal stamping, glass and ceramic
59	F9	9F	Color Contrasting	0.06 (1.5)	PVC	158°F (70°C)	Med.		Poor	Poor	Black colored, hides overspray from ink jet
60	G0	0G	Color Contrasting	0.05 (1.3)	Urethane	212°F (100°C)	Low	x	Good	Poor	Green-colored
61	G1	1G	Color Contrasting	0.05 (1.3)	Urethane	212°F (100°C)	Low	x	Good	Poor	Blue-colored
63		3G	Electrically Conductive	0.05 (1.2)	Urethane	176°F (80°C)	Low		Good	Poor	Static conductive, electronics handling
64		4G	High Friction	0.17 (4.4)	PVC	194°F (90°C)	V-High		Poor	Poor	Dark green-colored, rough top surface, product cushioning, incline/decline apps.
66		6G	Chemical Resistant	0.07 (1.7)	Polyester	212°F (100°C)	Med.	x	V-Good	Poor	Good Cut resistance, metal stamping apps.
67		7G	Low Friction Cleated	0.06 (1.6)	Polyester	212°F (100°C)	n/a	x	Good	Poor	Excellent product release, consult factory for part number and how to specify low friction
68	G8		FDA Encased**	0.06 (1.6)	Urethane	176°F (80°C)	Low	x	Good	V-Good	Urethane enclosed for added sanitary protection
69	G9		FDA Encased**	0.09 (2.2)	Urethane	212°F (100°C)	High	x	Good	V-Good	Urethane enclosed for added sanitary protection

Dim = in (mm)

*Metal Clipper splices are not sanitary.

**Not available in 2" (51 mm) wide.

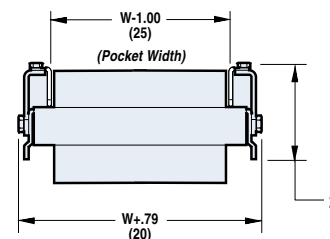


* **Maximum 20" (508 mm) cleat spacing for 18" and wider conveyors with lengths greater than 7' (2,134 mm)**

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

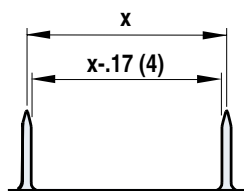
Base Belt Material: 0.059" (1.5 mm) thick, high friction FDA approved urethane, 176°F (80°C) maximum part temperature. See Specialty Belt 67 for low friction base belt material.

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



Z = 2.68" (68) for A, F, G & H Cleats
4.04" (102) for B, C, V & J Cleats
W = Conveyor Belt Width

CLEAT SPACING



Tolerance $\pm .08$ (2)

Steps:

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

Formula 1

$$\text{Number of Cleats} = \frac{(\text{Conveyor Length in feet} \times 24) + 1.37}{\text{Desired cleat spacing in inches (x)}}$$

Example

Using a 6' long conveyor and 6" cleat spacing

$$\text{Number of Cleats} = \frac{(6 \times 24) + 1.37}{6} = \frac{145}{6} = \mathbf{24 \text{ Cleats (rounded)}}$$

Formula 2

$$\text{Cleat Space Reference (x)} = \frac{(\text{Conveyor Length in feet} \times 24) + 1.37}{\text{Number of Cleats from Formula 1}}$$

Example

Using a 6' long conveyor and 24 cleats

$$\text{Cleat Spacing in inches (x)} = \frac{(6 \times 24) + 1.37}{24 \text{ cleats}} = \frac{145}{24} = 6.04 \text{ or } \mathbf{0604 \text{ Cleat Reference}}$$

GEARMOTOR MOUNTING PACKAGE & GEARMOTOR SELECTION STEPS

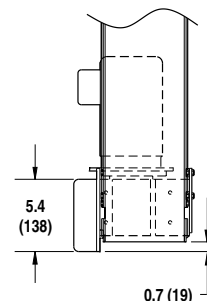
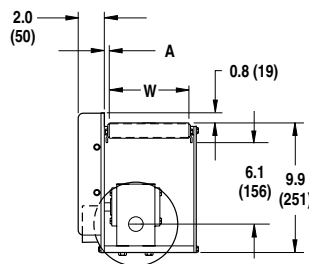
- Step 1:** Select a **Gearmotor Mounting Package**. For End drive conveyors, select a side, bottom, top, flush (pages 207-208). Be sure to note if it is for a **90°** or **Parallel Shaft Gearmotor**.
- Step 2:** Using **Belt Speed and Load** Requirements, determine the required **Gearmotor Type** (Standard or Heavy) for your application using the chart below.
- Step 3:** Go to the set of Belt Speed Charts on page 209 and choose between the **Fixed** or **Variable Speed** chart.
- Step 4:** Go down the first column of the Belt Speed Chart and locate the required **Belt Speed** for your application. If the desired belt speed is not listed, round up to the next higher speed.
(Dorner offers much more than just the belt speeds listed in the tables, contact the factory for complete details)
- Step 5:** From the row containing your required **Belt Speed**, check to be sure that speed is available for the **Mount Package** you chose. (End Drive Only - Top or Bottom)
- Step 6:** Use the Drive / Driven Pulley Kit combination to complete your Mounting Package Part Number.
- Step 7:** Note the **RPM from Gearmotor**, it will be needed to select the correct Gearmotor from the Gearmotor Chart.
- Step 8:** Reference the **Gearmotor Chart #** to locate a compatible Gearmotor Chart on pages 210-214. Be sure to select a Gearmotor Chart to match your **Gearmotor Type** (Standard or Heavy) and your **Mounting Package** while meeting your electrical requirements.
(Red = Parallel Shaft or Blue = 90°)
- Step 9:** Using the **RPM from Gearmotor** (Step 6), locate the **Part Number** for your Gearmotor from the Gearmotor Table.

GEARMOTOR TYPE		Conveyor Load - lbs. (kg)												
		Conveyor Load - lbs. (kg)												
		10 (4.5)	20 (9.1)	30 (13.6)	40 (18.2)	50 (22.7)	60 (27.3)	70 (31.8)	80 (36.4)	90 (40.9)	100 (45.5)	110 (50)	120 (54.5)	
Belt Speed - Ft/min (m/min)	0-15 (0-4.6)													
	16-30 (4.9-9.1)													
	31-45 (9.5-13.7)													
	46-60 (14-18.3)													
	61-75 (18.6-22.9)													
	76-90 (23.2-27.4)													
	91-110 (27.7-33.5)													
	111-130 (33.8-39.6)													
	131-150 (39.9-45.7)													
	151-175 (46-53.4)													
	176-200 (53.7-61)													
	201-225 (61.3-68.6)													
	226-250 (68.9-76.2)													
	251-275 (76.5-83.8)													

Bottom Mount Package, 90° Gearmotor

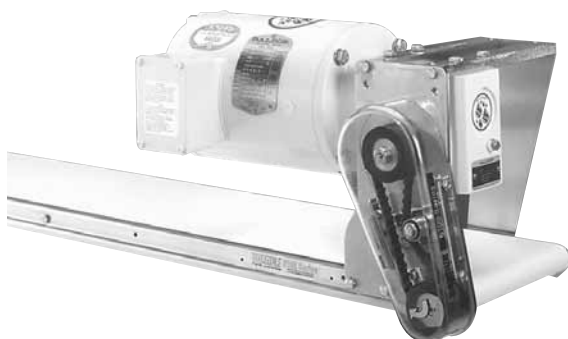


- Includes stainless steel gearmotor mounting bracket, timing belt, pulleys, belt guard and mounting hardware

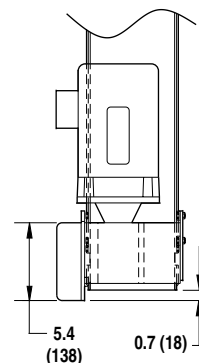
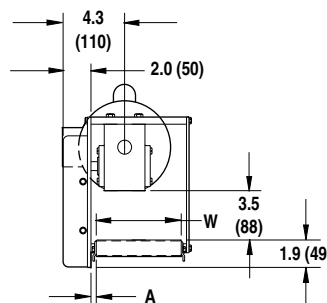


A: = 0.6 (15) for 7200
 = 1.9 (48) for 7300
 W = Conveyor Belt Width

Top Mount Package, 90° Gearmotor



- Includes stainless steel gearmotor mounting bracket, timing belt, pulleys, belt guard and mounting hardware



A: = 0.6 (15) for 7200
 = 1.9 (48) for 7300
 W = Conveyor Belt Width

Heavy Duty Sprocket Kit



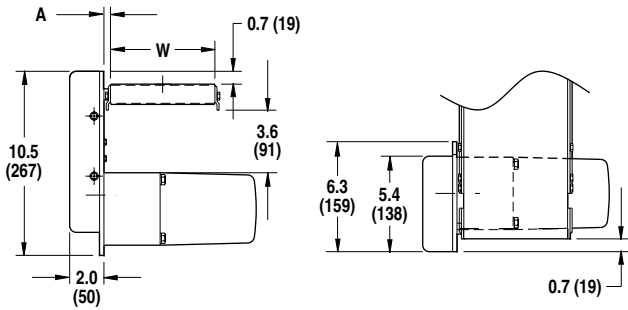
Heavy Duty Sprocket Kit Used in Wet Applications

- Compatible with Standard and Heavy Load Top and Bottom Mount packages
- Stainless Steel #40 Sprockets
- Stainless Steel/Acetal #40 Chain
- Belt speeds up to 145 ft/min

This kit becomes part of the gearmotor mounting package when you select your belt speed from the "Heavy Duty Sprocket Kit" speed chart (see page 209).

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

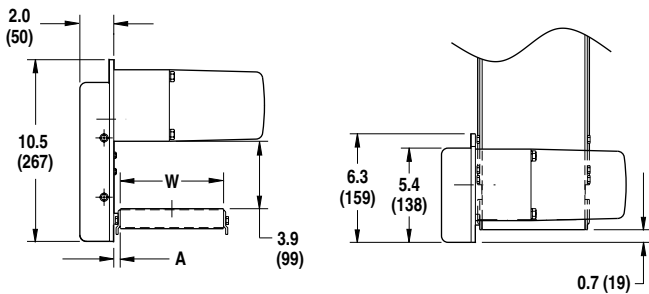
Bottom Mount Package, Parallel Shaft Gearmotor



A: = 0.6 (15) for 7200
 = 1.9 (48) for 7300
 W = Conveyor Belt Width

- Includes stainless steel gearmotor mounting bracket, timing belt, pulleys, belt guard and mounting hardware

Top Mount Package, Parallel Shaft Gearmotor



A: = 0.6 (15) for 7200
 = 1.9 (48) for 7300
 W = Conveyor Belt Width

- Includes stainless steel gearmotor mounting bracket, timing belt, pulleys, belt guard and mounting hardware

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

Standard Timing Belt Kit

Fixed Speed						
Belt Speed		RPM from Gearmotor	Pulley Kit		Gearmotor Chart	
ft/min	m/min		Drive Pulley	Driven Pulley	Standard Load	Heavy Load
7	2.1	35	19	32		6
12	3.7	50	22	32	1	
17	5.2	35	44	32		6
26	7.9	50	32	22	1	
35	10.7	115	28	32		5, 6
38	11.6	50	48	22	1	
56	17.1	115	44	32		5, 6
58	17.7	167	44	32	1	
58	17.7	167	32	32	1	
81	24.7	115	44	22		5, 6
100	30.5	167	48	28	1	
106	32.3	345	28	32		5, 6
148	45.1	167	48	19	1	
167	50.9	345	44	32		5, 6
190	57.9	345	44	28		5, 6
264	80.5	345	48	22		5, 6

CE RPM from 50 Hz gearmotors						
ft/min	m/min	RPM	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
6	1.8	29	19	32		7
10	3.0	42	22	32	2	
15	4.6	29	48	32		7
20	6.1	42	44	32	2	
30	9.1	97	28	32		7
32	9.8	42	48	22	2	
49	14.9	139	32	32	2	
51	15.5	97	48	32		7
73	22.3	139	48	32	2	
74	22.6	97	48	22		7
98	29.9	139	44	22	2	
102	31.1	290	32	32		7
123	37.5	139	48	19	2	
153	46.6	290	48	32		7
204	62.2	290	44	22		7
257	78.3	290	48	19		7

Variable Speed						
Belt Speed		RPM from Gearmotor	Pulley Kit		Gearmotor Chart	
ft/min	m/min		Drive Pulley	Driven Pulley	Standard Load	Heavy Load
1.2 - 7	0.4 - 2.1	35	19	32		10
2.0 - 12	0.6 - 3.7	50	22	32	3	
2.8 - 17	0.9 - 5.2	35	44	32		10
4.3 - 26	1.3 - 7.9	50	32	22	3	
5.8 - 35	1.8 - 10.7	115	28	32		8, 9, 10
6.3 - 38	1.9 - 11.6	50	48	22	3	
9.3 - 56	2.8 - 17.1	115	44	32		8, 9, 10
9.7 - 58	2.9 - 17.7	167	32	32	3	
13.3 - 80	4.1 - 24.4	167	44	32	3	
13.5 - 81	4.1 - 24.7	115	44	22		8, 9, 10
16.7 - 100	5.1 - 30.5	167	48	28	3	
17.7 - 106	5.4 - 32.3	345	28	32		8, 9, 10
24.7 - 148	7.5 - 45.1	167	48	19	3	
27.8 - 167	8.5 - 50.9	345	44	32		8, 9, 10
31.7 - 190	9.7 - 57.9	345	44	28		8, 9, 10
44.0 - 264	13.4 - 80.5	345	48	22		8, 9, 10

CE RPM from 50 Hz gearmotors, VFD drive at 63 max. Hz output						
ft/min	m/min	RPM	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
2.0 - 12	0.6 - 3.7	42	22	32	4	
4.0 - 24	1.2 - 7.3	42	44	32	4	
6.3 - 38	1.9 - 11.6	42	48	22	4	
9.7 - 58	2.9 - 17.7	139	32	32	4	
14.7 - 88	4.5 - 26.8	139	48	32	4	
19.5 - 117	5.9 - 35.7	139	44	22	4	
24.7 - 148	7.5 - 45.1	139	48	19	4	

Refer to the Gearmotor Selection Steps on page 206 for instructions on using the Belt Speed Charts.

Note: Red = Parallel Shaft, Blue = 90°

Heavy Duty Sprocket Kit

Fixed Speed						
Belt Speed		RPM from Gearmotor	Pulley Kit		Gearmotor Chart	
ft/min	m/min		Drive Pulley	Driven Pulley	Standard Load	Heavy Load
14	4.3	35	12	10		6
21	6.4	50	12	10	1	
24	7.3	35	20	10		6
32	9.8	50	18	10	1	
49	14.9	115	12	10		5, 6
70	21.3	167	12	10	1	
73	22.3	115	18	10		5, 6
94	28.7	167	16	10	1	
117	35.7	167	20	10	1	
145	44.2	345	12	10		5, 6

CE RPM from 50 Hz gearmotors						
ft/min	m/min	RPM	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
12	3.7	29	12	10		7
18	5.5	42	12	10	2	
20	6.1	29	20	10		7
29	8.8	42	20	10	2	
41	12.5	97	12	10		7
59	18.0	139	12	10	2	
68	20.7	97	20	10		7
88	26.8	139	18	10	2	
98	29.9	139	20	10	2	
122	37.2	290	12	10		7

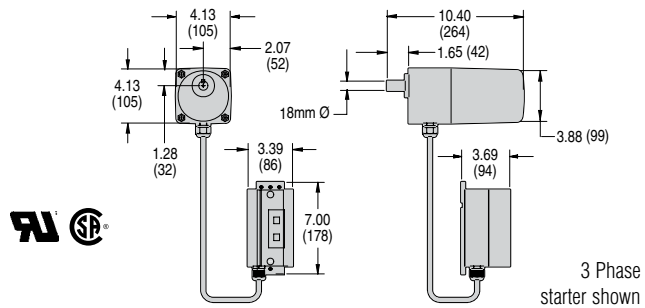
Variable Speed						
Belt Speed		RPM from Gearmotor	Pulley Kit		Gearmotor Chart	
ft/min	m/min		Drive Pulley	Driven Pulley	Standard Load	Heavy Load
2.3 - 14	0.7 - 4.3	35	12	10		10
3.5 - 21	1.1 - 6.4	50	12	10	3	
4.0 - 24	1.2 - 7.3	35	20	10		10
5.3 - 32	1.6 - 9.8	50	18	10	3	
8.2 - 49	2.5 - 14.9	115	12	10		8, 9, 10
11.7 - 70	3.6 - 21.3	167	12	10	3	
12.2 - 73	3.7 - 22.3	115	18	10		8, 9, 10
15.7 - 94	4.8 - 28.7	167	16	10	3	
19.5 - 117	5.9 - 35.7	167	20	10	3	
24.2 - 145	7.4 - 44.2	345	12	10		8, 9, 10

CE RPM from 50 Hz gearmotors, VFD drive at 63 max. Hz output						
ft/min	m/min	RPM	Drive Pulley	Driven Pulley	Standard Load	Heavy Load
3.5 - 21	1.1 - 6.4	42	12	10	4	
5.8 - 35	1.8 - 10.7	42	20	10	4	
11.7 - 70	3.6 - 21.3	139	12	10	4	
17.5 - 105	5.3 - 32.0	139	18	10	4	
19.5 - 117	5.9 - 35.7	139	20	10	4	

STANDARD LOAD, FIXED SPEED

Chart 1 Parallel Shaft

- Sealed gearmotor
- IP 65 protection rating (Motor IP67)
- 115V, 1 phase includes starter, cords and plug
- 230V, 3 phase wiring to starter by others
- Stainless steel shaft and fasteners
- FDA approved white epoxy paint
- Totally enclosed, non-ventilated
- 60 Hz



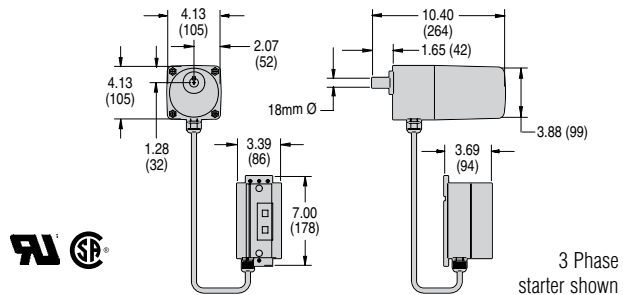
Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm
			Hp	kW	FLA	Hp	kW	FLA		
62M030PY4(vp)FN	50	Y	0.12	0.09	1.51	0.12	0.09	0.49	77	8.7
62M009PY4(vp)FN	167	Y	0.12	0.09	1.51	0.12	0.09	0.49	26	2.8

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

Note: 115V 1 phase gearmotor must be plugged into a GFI circuit

Chart 2 CE Parallel Shaft

- Sealed gearmotor
- IP 65 protection rating (Motor IP67)
- 230V, 3 phase wiring to starter by others
- Stainless steel shaft and fasteners
- FDA Approved white epoxy paint
- Totally enclosed, non-ventilated
- 50 Hz



Part Number	RPM	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm
62(c)030PY423FN	42	Y	0.09	0.49	8.7
62(c)009PY423FN	139	Y	0.09	0.49	2.8

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

CE Note: Customer wiring to starter must comply with CE safety directives.

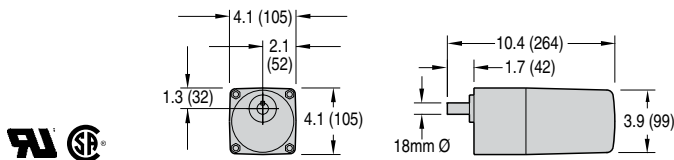
FLA = Full Load Amperes

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

STANDARD LOAD, VARIABLE SPEED

Chart 3 Parallel Shaft

- Variable frequency drive, 10-60 Hz
- IP 65 protection rating
- 230V, 3 Phase
- Stainless steel shaft and fasteners
- FDA approved white epoxy paint
- Totally enclosed, non-ventilated
- Order controller separately, see page 214

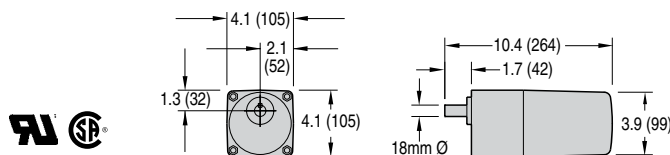


Part Number	RPM*	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts
62M030PY4(vp)EN	50	Y	0.12	0.09	0.49	77	8.7	G
62M009PY4(vp)EN	167	Y	0.12	0.09	0.49	26	2.8	G

* At 60 Hz

Chart 4 CE Parallel Shaft

- Totally enclosed, fan cooled
- IP 65 protection rating
- Non-reversing
- 50 Hz
- Order starter separately, see page 214



Part Number	RPM*	Gearmotor Type	3 Ph kW	3 Ph FLA	Nm*	Vari - Speed Control Charts
62Z028PL421EN	41	L	0.022	0.31	2.6	B
62Z028PL4(vp)EN	41	L	n/a	n/a	3.5	B
62Z008PL421EN	144	L	0.022	0.31	0.9	B
62Z008PL4(vp)EN	144	L	n/a	n/a	1.2	B

* At 50 Hz

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

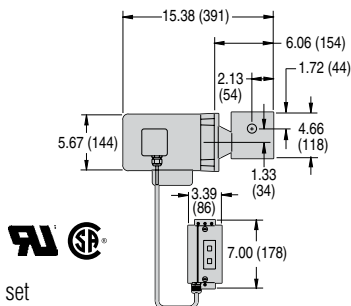
FLA = Full Load Amperes

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

HEAVY LOAD, FIXED SPEED

Chart 5 90°

- NEMA 56 C face
- IP 55 protection rating
- Wiring to starter by others
- Sealed reducer with FDA lubricant
- FDA approved white epoxy paint
- UL and CSA approved
- 60 Hz
- Totally enclosed, Non-ventilated
- 1 Phase gearmotor does not include plug/cord set



(r) = Output shaft orientation
 R = Right hand
 L = Left hand
 (vp) = Voltage and Phase
 11 = 115V, 1 phase
 23 = 208 - 230V, 3 phase
 43 = 460V, 3 phase

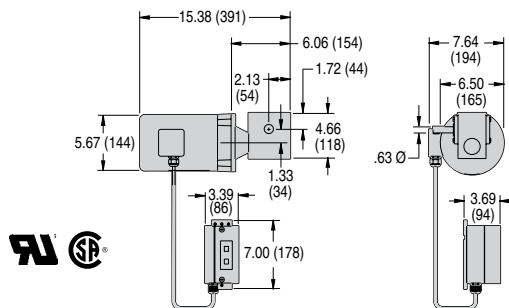
Right hand output shown

Part Number	RPM	Gearmotor Type	1 Phase			3 Phase			in.-lbs.	Nm
			Hp	kW	FLA	Hp	kW	FLA		
62M015(r)Z4(vp)FN	115	Z	0.5	0.37	6.8	0.5	0.37	1.8-1.6 / 0.8	146	16.5
62M005(r)Z4(vp)FN	345	Z	0.5	0.37	6.8	0.5	0.37	1.8-1.6 / 0.8	55	6.2

Chart 6 90°

Stainless Steel Gearmotor

- Stainless steel construction
- NEMA 56 C face
- IP 55 protection rating
- Wiring to starter by others
- Sealed reducer with FDA lubricant
- UL and CSA approved
- 60 Hz
- Totally enclosed, non-ventilated



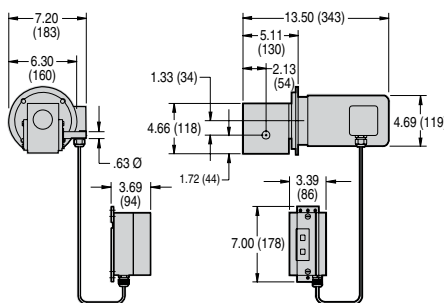
(r) = Output shaft orientation
 R = Right hand
 L = Left hand
 (vp) = Voltage and Phase
 23 = 208 - 230V, 3 phase
 43 = 460V, 3 phase

Right hand output shown

Part Number	RPM	Gearmotor Type	3 Ph			in.-lbs.	Nm
			Hp	kW	FLA		
62M050(r)ZS4(vp)FN	35	ZS	0.5	0.37	1.8-1.6 / 0.8	380	42.9
62M015(r)ZS4(vp)FN	115	ZS	0.5	0.37	1.8-1.6 / 0.8	146	16.5
62M005(r)ZS4(vp)FN	345	ZS	0.5	0.37	1.8-1.6 / 0.8	55	6.2

Chart 7 CE 90°

- IEC 71 B5 C face
- IP 55 protection rating
- 230/400V, 3 Phase wiring to starter by others
- 50 Hz
- FDA approved white epoxy paint
- Sealed reducer with FDA lubricant
- Totally enclosed, non-ventilated



Right hand output shown

Part Number	RPM	Gearmotor Type	3 Ph		Nm
			kW	FLA	
62(c)050(r)Z4(vp)FN	29	Z	0.19	1.2 / 0.7	50.1
62(c)015(r)Z4(vp)FN	97	Z	0.19	1.2 / 0.7	19.9
62(c)005(r)Z4(vp)FN	290	Z	0.19	1.2 / 0.7	7.2

(c) = Electrical Configuration (r) = Output shaft orientation (vp) = Voltage and Phase
 G = CE German R = Right hand 23 = 230V, 3 phase
 U = CE Great Britain L = Left hand 43 = 400V, 3 phase

CE Note: Customer wiring to starter must comply with CE safety directives.

FLA = Full Load Amperes

HEAVY LOAD, VARIABLE SPEED

Chart 8 90°

- 90V DC
- IP 55 protection rating
- NEMA 56 C face
- Totally enclosed, non-ventilated
- Sealed reducer with FDA lubricant
- FDA approved white epoxy paint
- Order controller separately, see page 214

(r) = Output shaft orientation
R = Right hand
L = Left hand

Left hand output shown

Part Number	RPM	Gearmotor Type	Hp	kW	FLA	in.-lbs.	Nm	Vari - Speed Control Charts
62M015(r)ZD9DEN	115	Z	0.33	0.25	3.2	146	16.5	F
62M005(r)ZD9DEN	345	Z	0.33	0.25	3.2	55	6.2	F

Chart 9 90°

- Variable frequency drive, 10-60 Hz
- IP 65 protection rating
- 230V, 3 Phase
- Stainless steel shaft and fasteners
- FDA approved white epoxy paint
- Totally enclosed, non-ventilated
- Order controller separately, see page 214

(r) = Output shaft orientation
R = Right hand
L = Left hand

Left hand output shown

Part Number	RPM	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts
62M015(r)Z423EN	115	Z	0.5	0.37	1.6	146	16.5	G
62M005(r)Z423EN	345	Z	0.5	0.37	1.6	55	6.2	G

* At 60 Hz

Chart 10 90°

- Variable frequency drive, 10-60 Hz
- Stainless steel construction
- 230/460 3 Phase
- NEMA 56 C face
- IP 55 protection rating
- Sealed reducer with FDA lubricant
- Totally enclosed, non-ventilated
- Order controller separately, see page 214

(r) = Output shaft orientation
R = Right hand
L = Left hand

Left hand output shown

Part Number	RPM	Gearmotor Type	3 Ph Hp	3 Ph kW	3 Ph FLA	in.-lbs.*	Nm*	Vari - Speed Control Charts
62M050(r)S423EN	35	ZS	0.5	0.37	1.6	380	42.9	G
62M015(r)S423EN	115	ZS	0.5	0.37	1.6	146	16.5	G
62M005(r)S423EN	345	ZS	0.5	0.37	1.6	55	6.2	G

* At 60 Hz

FLA = Full Load Amperes

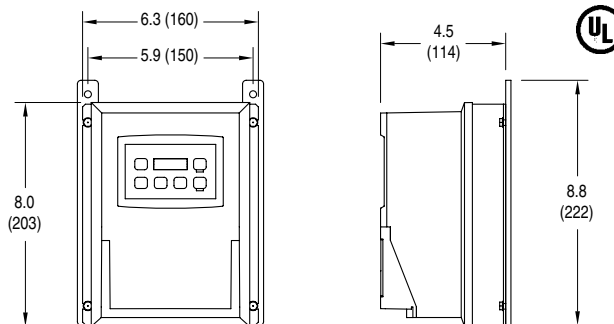
Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = in (mm)

VARIABLE SPEED CONTROLLERS

Chart B



- VFD control
- IP 65 plastic enclosure
- EMC filter
- Digital display
- Stainless steel mounting hardware
- Includes cord to motor
- Power to controller by others

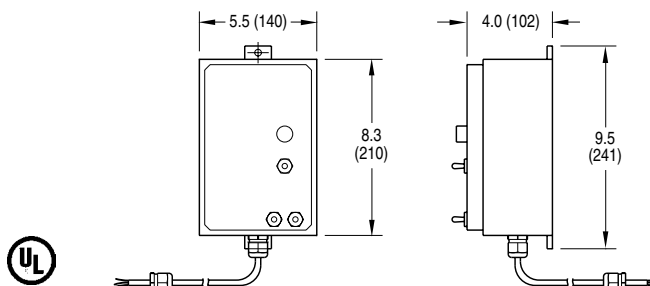


Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Out Phase	Max kW	Max Amps	Reversing
72UV2121S	230	1	50	230	3	0.37	4.0	Yes
72UV4341S	400	3	50	400	3	0.74	2.0	Yes

Chart F



- SCR DC control
- Nema 4X enclosure
- FDA white epoxy painted enclosure
- Forward/Brake/Reverse switch
- Jog/Run switch
- Speed potentiometer
- Includes cord to motor
- Power to controller by others
- Stainless steel mounting hardware

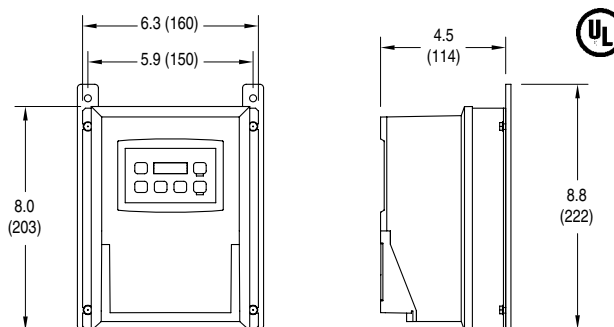


Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Max Hp	Max Amps	Reversing
62MD1191S	115	1	60	90VDC	1	10.2	Yes

Chart G



- VFD control
- Nema 4X Plastic Enclosure
- Stainless steel mounting hardware and fasteners
- Digital display
- Keypad with Start/Stop, Forward/Reverse and speed variation
- Includes cord to motor
- Power to controller by others



Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Out Phase	Max Hp	Output Amp Range*	Reversing
72MV1124S	115	1	60	230	3	0.5	0.7 - 2.4	Yes
72MV2124S	230	1	60	230	3	0.5	0.7 - 2.4	Yes
72MV1122S	115	1	60	230	3	0.5	0.7 - 2.4	Yes
72MV2322S	230	3	60	230	3	0.5	0.7 - 2.4	Yes

* See FLA from motor charts

FLA = Full Load Amperes

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

QUANTITY CHARTS

Support Stand Quantity Chart

Conveyor Length	# of Supports
2' (610) - 4' (1,219)	1*
2' (610) - 6' (1,829)	2
7' (2,134) - 12' (3,658)	3
13' (3,962) - 18' (5,486)	4

* End Drive Conveyors with Single-Post Support Stands only. Requires the use of diagonal bracing. Heavy load gearmotors require a minimum of two stands to support conveyor and gearmotor package.

Required Return Roller Quantity Chart

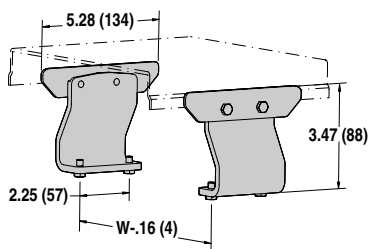
max feet between return rollers									
Conveyor Width	1.75"	2.75"	3.75"	5"	6"	8"	10"	12"	18"
Flat Belt	8.75	8.5	7.5	7.25	7.0	6.75	6.5	6.0	5.5
Cleated Belt	5.75	5.5	5.25	5.0	4.75	4.5	4.25	4.0	3.5

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

Example Description: 7200 flat belt 8" wide x 14' long $\frac{14'}{6.75} = 2.07$ **2 return rollers required**

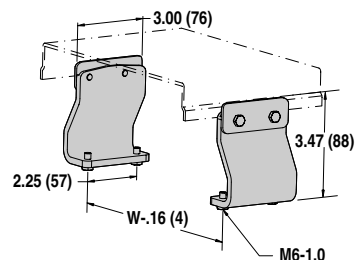
MOUNTING BRACKETS Not required when purchasing sanitary support stands.

Cleated Stand Mounting Bracket



Part Number	Description
450591	Stand Mounting Bracket, Cleated Belt Conveyor

Flat Belt Stand Mounting Bracket



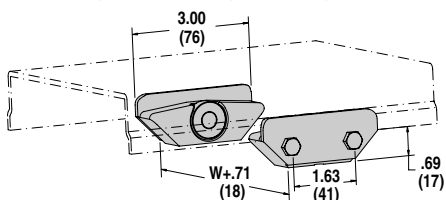
Part Number	Description
450589	Stand Mounting Bracket, Flat Belt Conveyor

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

RETURN ROLLERS

Cleated Belt Stand Mounting Bracket

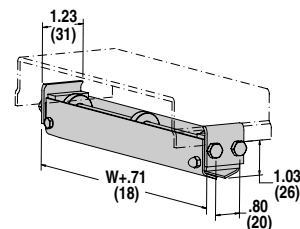
For Cleated Belts and Flat Belts on 2" to 6" (51mm to 152mm) wide conveyors



Part Number	Description
450594	Stand Mounting Bracket, Cleated Belt Conveyor

Flat Belt Stand Mounting Bracket

For Flat Belts on 8" to 18" (203mm to 457mm) wide conveyors



W = Belt Width

Part Number	Description
4514WW*	Stand Mounting Bracket, Flat Belt Conveyor

* WW = conveyor width

Note: Dimensions = in (mm)

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

For ordering information, see pages 218 and 219

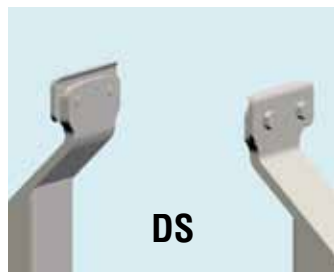


Fixed Foot Model											
Conveyor Width		1.75" (44)	2.75" (70)	3.75" (95)	5" (44)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	
WW Part # Reference		02	03	04	05	06	08	10	12	18	
DS	Stand Width	10" (254)	11" (279)	10" (254)	11.3" (286)	12.3" (312)	14.3" (362)	10" (254)	12" (305)	18" (457)	
	Top of Belt Height	13-17" (330-432)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	1317						0101 increments up to...		7074	
DP	Stand Width	9.3" (236)	10.3" (262)	10.1" (257)	11.3" (287)	12.3" (312)	14.3" (362)	11.8" (300)	13.8" (351)	19.8" (503)	
	Top of Belt Height	15-19" (330-432)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	1519						0101 increments up to...		7074	
MS	Stand Width	10.5" (267)	11.5" (292)	11.3" (287)	12.6" (320)	13.6" (345)	15.6" (396)	9.8" (249)	11.8" (300)	17.8" (452)	
	Top of Belt Height	14-18" (356-457)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	1418						0101 increments up to...		7074	

Note: HH is to Conveyor Top of Belt on DS and DP Models. HH is Top of Bracket for MS Models.

Swivel Locking Caster Model											
Conveyor Width		1.75" (44)	2.75" (70)	3.75" (95)	5" (44)	6" (152)	8" (203)	10" (254)	12" (305)	18" (457)	
WW Part # Reference		02	03	04	05	06	08	10	12	18	
DS	Stand Width	10" (254)	11" (279)	10" (254)	11.3" (286)	12.3" (312)	14.3" (362)	10" (254)	12" (305)	18" (457)	
	Top of Belt Height	18-22" (457-559)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	1822						0101 increments up to...		7074	
DP	Stand Width	9.3" (236)	10.3" (262)	10.1" (257)	11.3" (287)	12.3" (312)	14.3" (362)	11.8" (300)	13.8" (351)	19.8" (503)	
	Top of Belt Height	21-25" (533-635)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	2125						0101 increments up to...		7074	
MS	Stand Width	10.5" (267)	11.5" (292)	11.3" (287)	12.6" (320)	13.6" (345)	15.6" (396)	9.8" (249)	11.8" (300)	17.8" (452)	
	Top of Belt Height	20-24" (508-610)						1" (25) increments up to...		70-74" (1,778-1,880)	
	HH Part # Reference	2024						0101 increments up to...		7074	

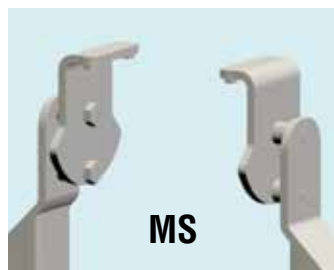
Note: HH is to Conveyor Top of Belt on DS and DP Models. HH is Top of Bracket for MS Models.



DS
Direct Mount Horizontal



DP
Direct Mount Incline



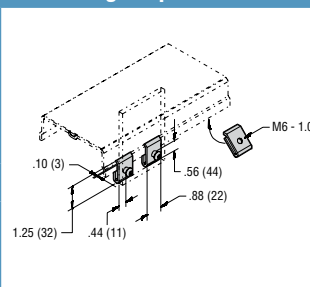
MS
Motor Mount

- Direct Mount Horizontal for direct conveyor mounting, conveyor must be level (mount directly to conveyor)
- Includes self-aligning adjustment foot for sloped floors
- All components are stainless #4 finish
- Metric fasteners
- Direct Mount Incline for angled conveyor applications
- Motor Mount for mounting under both horizontal and inclined heavy load bottom mount packages
- Sanitary support stands do not require mounting brackets

If sanitary stainless steel support stands are not required for your application, you may order aluminum support stands. Contact Dorner for details.

ACCESSORIES

Mounting Clips

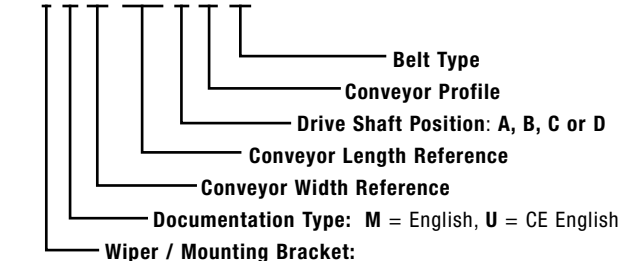


- For easy mounting of light weight accessories
- Fasteners not included

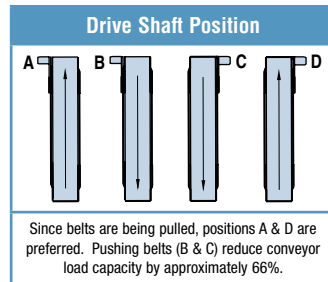
Part Number	Description
425501SS	7200 and 7300 Series Sanitary Mounting Clip

7200 SERIES: FLAT BELT END DRIVE CONVEYOR

72 1 M 08 1000 D 01 01



- Wiper / Mounting Bracket:**
- | | |
|---------------------------------------|--|
| 1 = no wiper with mounting brackets | 2 = no wiper / no mounting brackets* |
| 3 = end wiper with mounting brackets | 4 = end wiper / no mounting brackets* |
| 5 = dual wiper with mounting brackets | 6 = dual wiper / no mounting brackets* *may require belt return rollers |

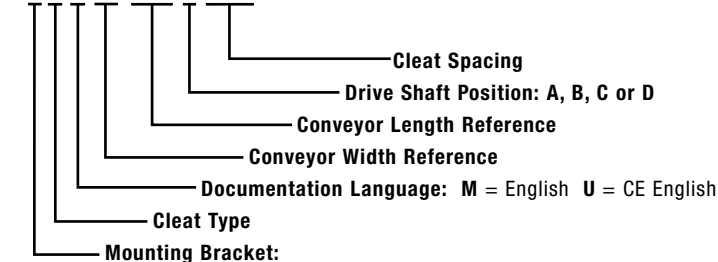


Example: 721M081000D0101

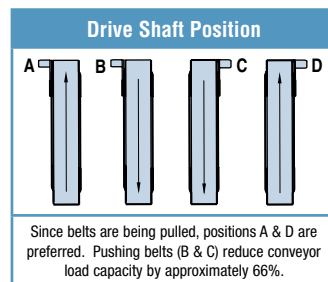
Description: 7200 Series End Drive Conveyor, 8" (203) wide x 10' (3,048) long, drive shaft position D, with low sides and a FDA accumulation belt and English documentation.

7200 SERIES: CLEATED BELT END DRIVE CONVEYOR

7 4 A M 08 1000 D 0603



- Mounting Bracket:**
- | |
|--------------------------------|
| 4 = with mounting brackets |
| 5 = without mounting brackets* |
- *may require belt return rollers

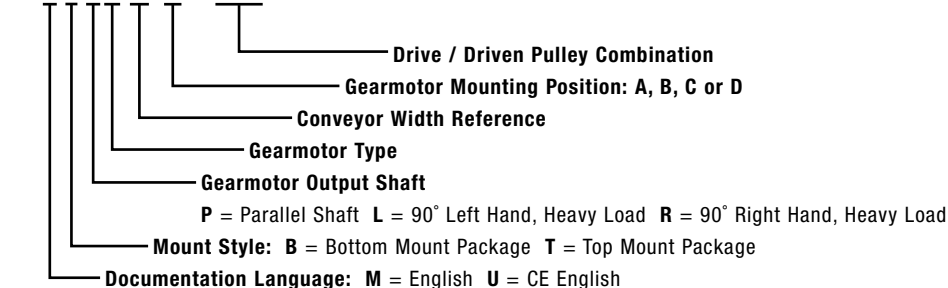


Example: 74AM081000D0603

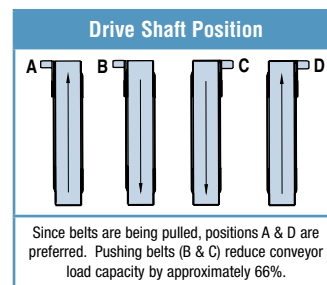
Description: 7200 Series Cleated Belt End Drive Conveyor, 8" (203) wide x 10' (3,048) long drive shaft position D, with Type A cleated belt with cleats spaced on 6.03" (153) centers and English documentation.

7200 SERIES: GERMOTOR MOUNTING PACKAGES

72 M B L Z 06 A - 3232



- Mount Style:** B = Bottom Mount Package T = Top Mount Package
- Documentation Language:** M = English U = CE English
- P = Parallel Shaft L = 90° Left Hand, Heavy Load R = 90° Right Hand, Heavy Load



Example: 72MBLZ06A-3232

Description: Sanitary bottom mount package with English documentation for left hand output 90° heavy load sanitary gearmotor, for a 6" (152mm) wide conveyor mounted in the A position with a 32:32 drive / driven pulley combination.

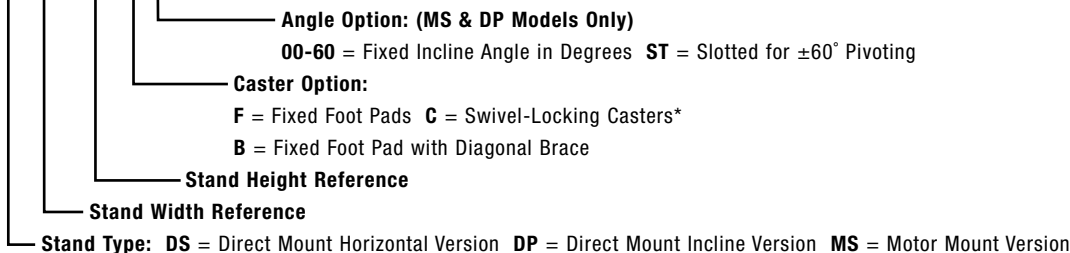
These reference charts are only provided as a reference and is not intended to be used for the construction of complete part numbers for order placing. Dorner has a full network of trained Distributors and sales staff equipped with our configuring / pricing software who are able to provide complete and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

For more information about any product or accessory, or to locate a local distributor, go to www.dorner.com.

AquaGard® 7200 & 7300 SERIES: PART NUMBER REFERENCE

7200 SERIES: SUPPORT STANDS

39M MS 04- 4044 F AA



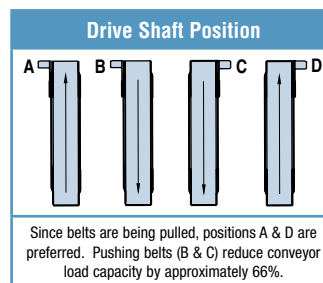
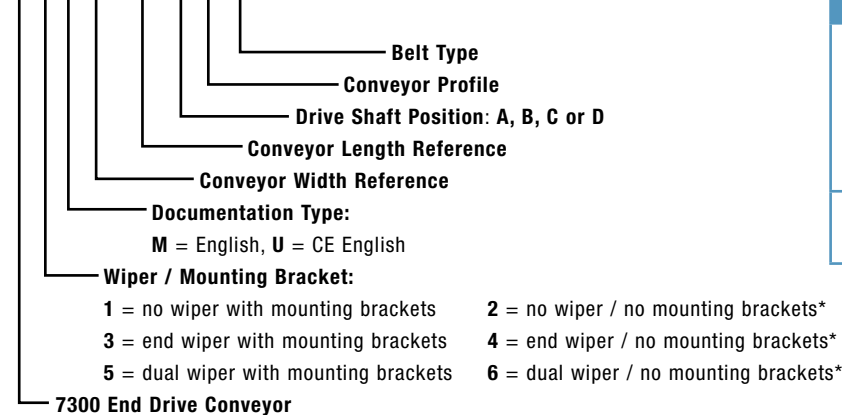
Example: 39MMS04- 4044F

Description: Sanitary Support Stand with Fixed Foot Pads, for a 4" (102) wide conveyor and adjustable from 40" to 44" (1016 to 1122) high.

*Stands equipped with casters include diagonal bracing.

7300 SERIES: FLAT BELT END DRIVE CONVEYOR

73 1 M 08 1000 D 01 01



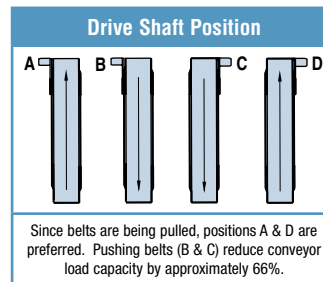
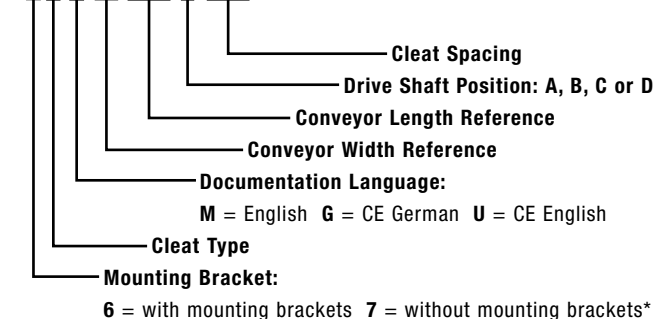
*may require belt return rollers

Example: 731M081000D0101

Description: 7300 Series End Drive Conveyor, 8" (203) wide x 10' (3,048) long, drive shaft position D, with low sides and a FDA accumulation belt and English documentation.

7300 SERIES: CLEATED BELT END DRIVE CONVEYOR

7 6 A M 08 1000 D 0603



*may require belt return rollers

Example: 76AM081000D0603

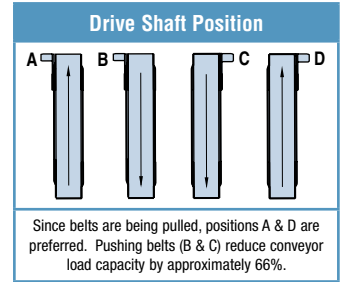
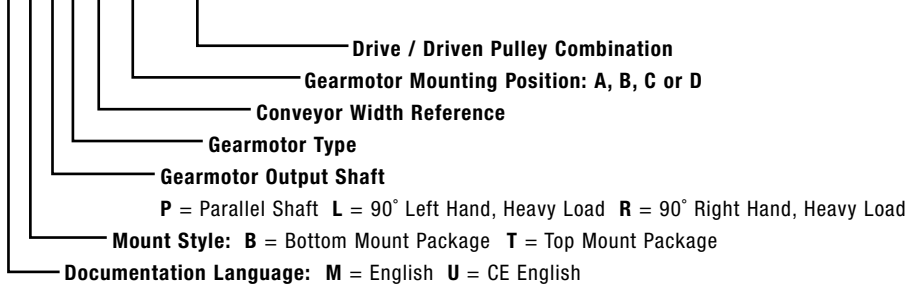
Description: 7300 Series Cleated Belt End Drive Conveyor, 8" (203) wide x 10' (3,048) long drive shaft position D, with Type A cleated belt with cleats spaced on 6.03" (153) centers and English documentation.

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7300 SERIES: GEARMOTOR MOUNTING PACKAGES

73 M B L Z 06 A - 3232

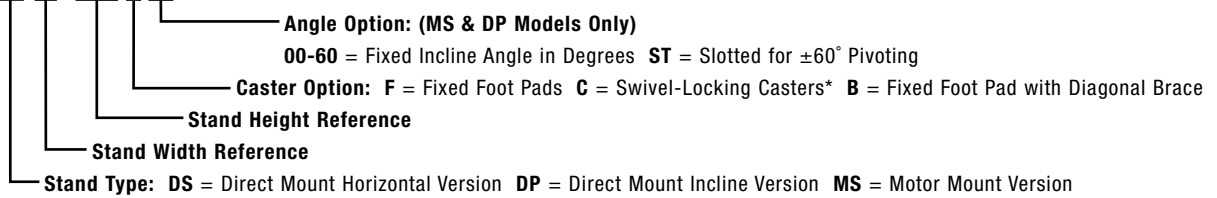


Example: 72MBLZ06A-3232

Description: Sanitary bottom mount package with English documentation for left hand output 90° heavy load sanitary gearmotor, for a 6" (152mm) wide conveyor mounted in the A position with a 32:32 drive / driven pulley combination.

7300 SERIES: SUPPORT STANDS

39M MS 04-4044 F AA



Example: 39MMS04-4044F

Description: Sanitary Support Stand with Fixed Foot Pads, for a 4" (102) wide conveyor and adjustable from 40" to 44" (1016 to 1122) high.

*Stands equipped with casters include diagonal bracing.

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