

2100/2200/4100/6200 & MPB Series Bottom Mount Drive Pack. for Standard Load Parallel Shaft 60 Hz Gearmotors

Installation, Maintenance & Parts Manual







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Introduction

IMPORTANT

Some illustrations may show guards removed. Do NOT operate equipment without guards.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage.
- Accessories may be shipped loose. See accessory instructions for installation.

Dorner 2100 Series conveyors are covered by the following patent numbers: 5,131,529, 5,174,435, and corresponding patents and patent applications in other countries.

Dorner 2200 and MPB Series conveyors are covered by patent numbers 5,174,435, 6,422,382 and corresponding patents and patent applications in other countries.

Dorner 4100 Series conveyors are covered by patent number 3,923,148, 5,131,529 and corresponding patents and patent applications in other countries.

Dorner 6200 Series conveyors are covered by patent numbers: 6,109,427, 6,298,981, 6,685,009 and corresponding patents and patent applications in other countries.

Dorner's Limited Warranty applies.

Dorner reserves the right to make changes at any time without notice or obligation.

Dorner has convenient, pre-configured kits of Key Service Parts for all conveyor products. These time saving kits are easy to order, designed for fast installation, and guarantee you will have what you need when you need it. Key Parts and Kits are marked in the Service Parts section of this manual with the Performance Parts Kits logo

Warnings – General Safety

A WARNING

The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.

A DANGER



Climbing, sitting, walking or riding on conveyor will cause severe injury.
KEEP OFF CONVEYORS.

A DANGER



Do NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.

A WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

A WARNING



Gearmotors may be HOT.

DO NOT TOUCH Gearmotors.

A WARNING



Exposed moving parts can cause severe injury.

REPLACE ALL GUARDS BEFORE RUNNING CONVEYOR.

A WARNING



Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.

When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, CHECK FOR POTENTIAL PINCH POINTS and other mechanical hazards before system start-up.

A WARNING



MPB Series Conveyors are not reversible. Reversing creates pinch points which can cause severe injury.

DO NOT REVERSE MPB SERIES CONVEYORS.

Product Description

Refer to Figure 1 for typical conveyor components.

- Conveyor 2 Mounting Bracket
- 3 Gearmotor
- 4 **Timing Belt Tensioner**
- 5 Cover
- 6 Timing Belt
- 7 Drive Pulley
- 8 **Driven Pulley**

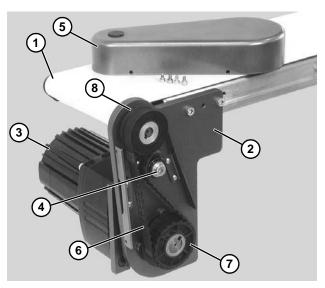
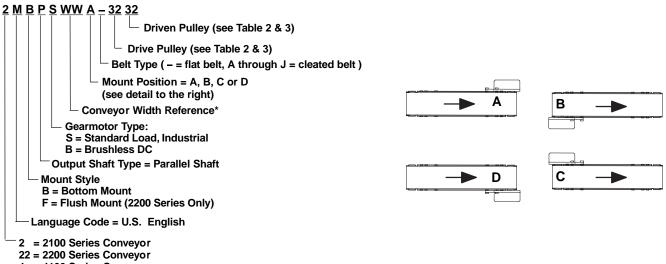


Figure 1

Specifications

Gearmotor Mounting Package Models:

Example:



^{4 = 4100} Series Conveyor

^{6 = 6200} Series Conveyor

²P = MPB Series Conveyor

^{*} See Ordering and Specifications Catalog for details.

Table 1: Gearmotor Specifications

	Single Phase	Three Phase	DC Variable Speed	Brushless DC
Output Power	0.17 hp (0.17 hp (0.13 kw)		0.25 hp (0.19 kw)
Input Voltage	115 Volts A.C.	230 Volts A.C.	130 Volts D.C.	*115/230 Volts D.C.
Input Frequency	60 Hz		N/A	60 Hz
Input Current	1.9 Amperes	1.2 Amperes	1.8 Amperes	8.8 / 3.4 Amperes
Motor RPM	1725		2500	3000
Gearmotor Ratios	5:1, 10:1, 20:1, 30:1, 60:1, 18		80:1	10:1, 20:1, 50:1
Motor Type	Totally enclosed, Fan-cooled		Totally enclosed	, Non-ventilated

^{*} Controller Inputs

Table 2: RPM/Torque for Standard Load Fixed Speed Parallel Shaft 60 Hz Gearmotors

Gearmotors*		1 P	hase	3 Ph	ase	
Part Number	Ratio	RPM	In-lb	N-m	In-Ib	N-m
62M180PS4(vp)F(n)	180:1	10	341	38.5	341	38.5
62M060PS4(vp)F(n)	60:1	29	270	30.5	270	30.5
62M030PS4(vp)F(n)	30:1	58	135	8.26	250	28.3
62M020PS4(vp)F(n)	20:1	86	90	10.2	167	18.9
62M010PS4(vp)F(n)	10:1	173	45	5.1	115	13
62M005PS4(vp)F(n)	5:1	345	25	2.8	58	6.5

(vp) = voltage and phase

(n) = reversing capability

11 = 115 V, 1-phase

N = no reversing switch

23 = 230V, 3-phase

R =with reversing switch (115V, 1 phase only)

Table 3: RPM/Torque for Standard Load Variable Speed Parallel Shaft VFD Gearmotors

Gearmotors*				
Part Number	Gear Ratio	RPM*	In-lb*	N-m*
62M180PS423EN	180:1	1-10	341	38.5
62M060PS423EN	60:1	3-29	270	30.5
62M030PS423EN	30:1	6-58	250	28.3
62M020PS423EN	20:1	9-86	167	18.9
62M010PS423EN	10:1	17-173	115	13
62M005PS423EN	5:1	35-345	58	6.5

^{*} At 60 Hz

Table 4: RPM/Torque for Standard Load Variable Speed Parallel Shaft DC Gearmotors

	Gearmotors				
Part Number	Gear Ratio	RPM	In-lb	N-m	
62M180PSD3DEN	180:1	2-14	341	38.5	
62M060PSD3DEN	60:1	5-42	270	30.5	
62M030PSD3DEN	30:1	10-83	135	15.3	
62M020PSD3DEN	20:1	16-125	90	10.2	
62M010PSD3DEN	10:1	31-250	72	8.1	
62M005PSD3DEN	5:1	63-500	25	2.8	

Specifications

Table 5: RPM/Torque for Brushless DC Gearmotors

Gearmotors				
Part Number	Gear Ratio	RPM	In-lb	N-m
62M050PSBDDEN	50:1	2-60	240	28
62M020PSBDDEN	20:1	5-150	103	11.7
62M010PSBDDEN	10:1	10-300	52	5.9

Table 6: Pulley Ratio / Timing Belt Number

Motor	Conveyor		Timin	g Belt
(Drive) Pulley Teeth	(Driven) Pulley Teeth	Pulley Ratio	2200/MB/ MPB	4100/6200
22	28	0.79	N/A	814-104
22	32	0.69	814-104	814-105
28	28	1.00	814-104	N/A
28	32	0.88	814-065	N/A
32	19	1.68	N/A	814-104
32	22	1.45	814-104	814-105
32	28	1.14	814-065	N/A
32	32	1.00	N/A	814-112
44	22	2.00	814-065	814-112
44	28	1.57	814-101	814-108
44	32	1.38	814-108	814-064
48	19	2.53	N/A	814-112
48	22	2.18	814-101	814-112
48	28	1.71	814-108	814-064
48	32	1.50	814-108	814-064
60	19	3.16	N/A	814-064
60	22	2.73	814-064	814-064
60	28	2.14	814-064	814-099
60	32	1.88	814-099	814-099

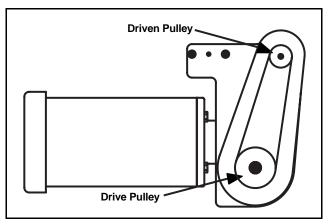


Figure 2

Table 7: Conveyor Belt Speed Factor

Series	Ft/revolution	M/revolution
2200 / 2300	0.350	0.107
2100 / 4100 / 6100 / 6200	0.278	0.085
2200 MPB	0.590	0.180
2200 Precision Move	0.394	0.120
2200 / 2300 Modular Belt	0.394	0.120

Belt Speed Calculation:

How to Calculate Belt Speed

- 1. Determine gearmotor RPM from tables 2-5.
- 2. Determine the pulley kit ratio. Count the number of teeth on the drive and driven pulleys following figure 2. Using table 6, look up pulley ratio based on pulley combinations.
- 3. Determine conveyor speed factor using table 7. Based on your conveyor type, select the appropriate factor.
- 4. Calculate belt speed:

Example: Belt Speed = Gearmotor RPM (tables 2-5) x Pulley Kit Ratio (table 6) x Conveyor Speed Factor (table 7) 2200 Series parallel shaft DC variable speed 20:1 gearmotor with 44 tooth sprocket on gearmotor (Drive) and 28 tooth sprocket on the conveyor output shaft (Driven).

Gearmotor =	62M020PSD3DEN	= 16 - 125 RPM
Pulley Kit =	44 t mtr 28 t conv.	= 1.57
Speed Factor =	2200 Series	= 0.350 ft/min per RPM
Minimum Belt Speed =	16 x 1.57 x 0.350	= 8.8 Ft/min
Maximum Belt Speed =	125 x 1.57 x 0.350	= 69 Ft/min

Required Tools

- Hex key wrenches: 2 mm, 2.5 mm, 3 mm, 5 mm
- Torque wrench

Mounting

A WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

A WARNING



MPB Series Conveyors are not reversible. Reversing creates pinch points which can cause severe injury.

DO NOT REVERSE MPB SERIES CONVEYORS.

WARNING



For MPB Series and Cleated Belt Conveyors Gearmotors must be mounted as shown in Figure 3.

Failure to do so creates pinch points which can cause severe injury.

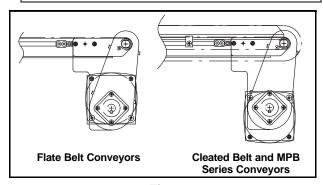


Figure 3

NOTE

Gearmotor position on Flat Belt conveyor shown at left (Figure 3). Gearmotor position on Cleated Belt or MPB Series conveyor shown at right (Figure 3).

1. Typical components (Figure 4)

Installation Component List:

- 1 Bottom Mount Assembly
- 2 Drive Pulley
- 3 Cover
- 4 M4 Socket Head Screws (4x)
- 5 Driven Pulley
- 6 Kev
- 7 M6 Socket Head Screws (2x)
- 8 Timing Belt

NOTE

Flat belt mounting package shown below (Figure 4), cleated belt mounting package similar

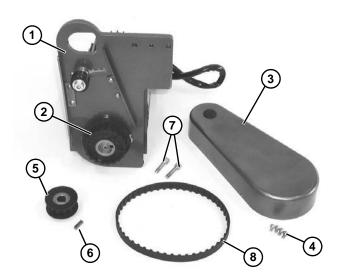
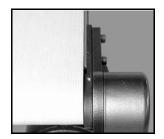


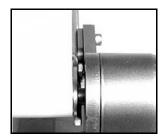
Figure 4

Installation

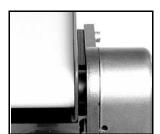
For your reference, the following figures show the attachment area of complete mounting packages for the various conveyor series.



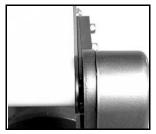
2200 Series Figure 5



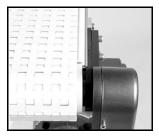
6200 Series Figure 6



4100 Series Figure 7



2100 Series Figure 8



MPB Series Figure 9

3. For 2200, 2300, MB and MPB Series only: Install M6x8 socket head screw (**Figure 10**, item 1) and washer.



Figure 10

NOTE

6200 conveyor shown below. Other Series similar.

4. Locate drive output shaft (Figure 11, item 1) and remove two screws (Figure 11, item 2).

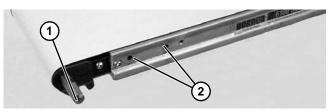


Figure 11

5. Attach mounting assembly (Figure 12, item 1) with screws (Figure 12, item 2). Tighten to 80 in-lb (9 Nm).

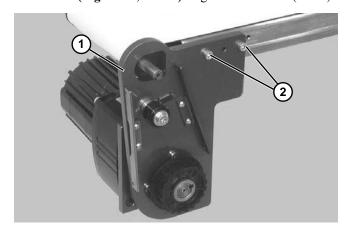


Figure 12

Installation

A WARNING



Drive shaft keyway may be sharp. HANDLE WITH CARE.

6. Install key (Figure 13, item 1).

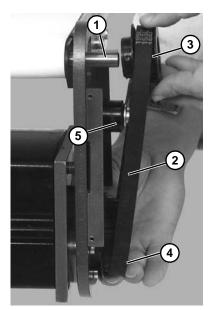


Figure 13

- Wrap timing belt (Figure 13, item 2) around driven pulley (Figure 13, item 3) and drive pulley (Figure 13, item 4). Install driven pulley (Figure 13, item 3) onto conveyor shaft.
- 8. Remove cam bearing and spacer (Figure 13, item 5). Place the cam bearing and spacer (Figure 14, item 1) next to the driven pulley (Figure 14, item 2). Ensure the flanges of the driven pulley are aligned with the cam bearing. Tighten driven pulley set screws (Figure 14, item 3). This will allow for proper belt alignment while conveyor is in use. Replace cam bearing and spacer (Figure 14, item 1).

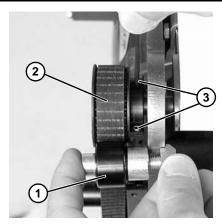


Figure 14

Depending on direction of conveyor belt travel (1 or 2 of Figure 15), position belt tensioner (Figure 15, item 3) as shown. Tension belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 15, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).

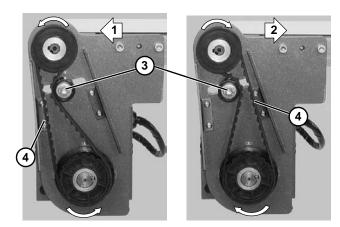


Figure 15

10. Install cover (Figure 16, item 1) with four (4) screws (Figure 16, item 2). Tighten to 35 in-lb (4 Nm).

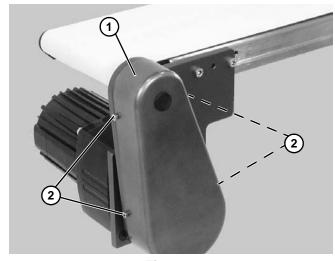


Figure 16

Required Tools

- Hex key wrenches: 2 mm, 2.5 mm, 3 mm, 5 mm
- Adjustable wrench (for hexagon head screws)
- · Straight edge
- · Torque wrench

Timing Belt Tensioning

A WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

- 1. Remove four (4) screws (Figure 16, item 2) and remove cover (Figure 16, item 1).
- 2. Loosen tensioner (Figure 17, item 1).

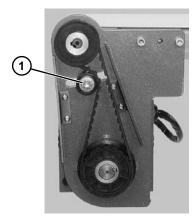


Figure 17

- Depending on direction of conveyor belt travel (1 or 2 of Figure 15), position belt tensioner (Figure 15, item 3) as shown. Tension belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 15, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).
- 4. Install cover (Figure 16, item 1) with four (4) screws (Figure 16, item 2). Tighten to 35 in-lb (4 Nm).

Timing Belt Replacement

WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

- 1. Remove four (4) screws (Figure 16, item 2) and remove cover (Figure 16, item 1).
- 2. Loosen tensioner (**Figure 18, item 1**).
- 3. Remove timing belt (Figure 18, item 2).

NOTE

If timing belt does not slide over pulley flange, loosen driven pulley set screws (Figure 18, item 1) and remove pulley with belt (Figure 18, item 2). For re-installation, see steps 6 and Figure 13 on page 9.

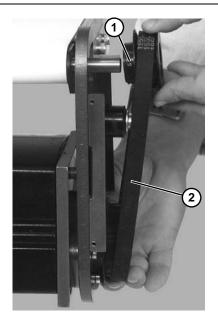


Figure 18

- 4. Install new timing belt.
- Depending on direction of conveyor belt travel (1 or 2 of Figure 13), position belt tensioner (Figure 17, item 1) as shown. Tension belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 15, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).
- 6. Install cover (Figure 16, item 1) with four (4) screws (Figure 16, item 2). Tighten to 35 in-lb (4 Nm).

Drive or Driven Pulley Replacement

A WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

- 1. Complete steps 1 through 3 of "Timing Belt Replacement" section on page 10.
- 2. Loosen set screws and remove drive or driven pulley.

NOTE

If drive pulley (Figure 27, item J) is replaced, wrap timing belt around drive pulley and complete step 3.

3. Complete steps 6 through 9 of "Installation" section on page 9.

Gear Motor Replacement

WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

A DANGER



Hazardous voltage will cause severe injury or death.

LOCKOUT POWER BEFORE before wiring.

Single Phase Motor

1. For single phase motor, unplug power cord from outlet.

Three Phase Motor

1. Loosen terminal box screws (Figure 19, item 1) and remove cover (Figure 19, item 2).

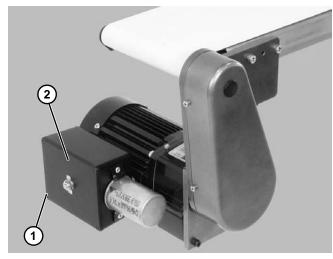


Figure 19

- Record incoming wire colors on red, black and blue leads. Loosen wire nuts and remove incoming wires.
- 3. Loosen cord grip and remove cord.

DC Variable Speed Motor

1. For DC variable speed motor, unplug motor cord at disconnect (Figure 20, item 1).



Figure 20

Brushless Motor

1. Twist covers (Figure 21, item 1) apart.

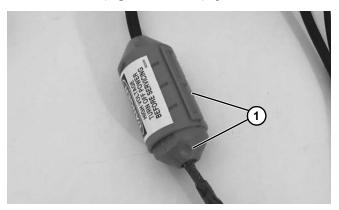


Figure 21

2. Remove outer cord cover (Figure 22, item 1) from inner cord cover (Figure 22, item 2).

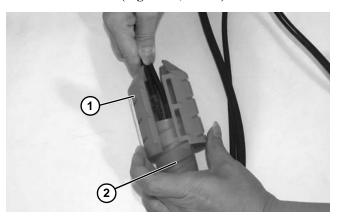


Figure 22

3. Open inner cord cover (Figure 23, item 1).

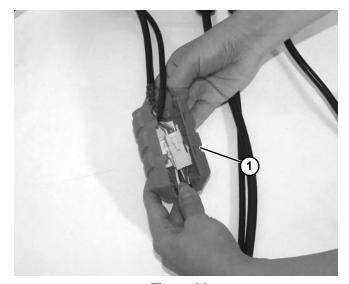


Figure 23

4. Unplug motor cord connectors (Figure 24, item 1) and signal cable connectors (Figure 24, item 2).

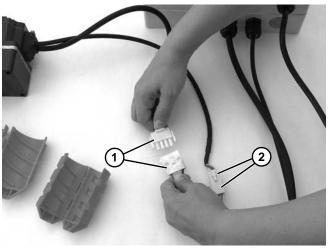


Figure 24

All Models

1. Remove four (4) screws (Figure 25, item 1) and remove cover (Figure 25, item 2).

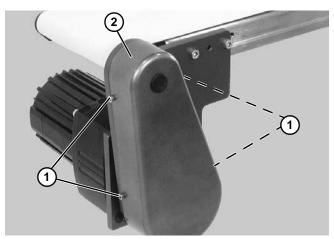


Figure 25

2. Loosen tensioner (Figure 26, item 1).

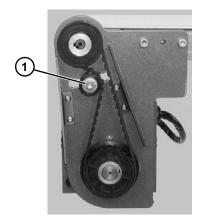


Figure 26

3. Loosen drive pulley set screws (Figure 27, item 1). Remove drive pulley (Figure 27, item 2) and timing belt (Figure 27, item 3).

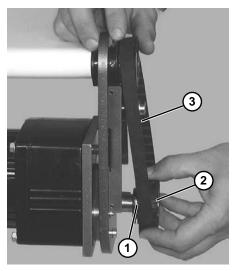


Figure 27

4. Remove four (4) gearmotor mounting screws (Figure 28, item 1). Remove gearmotor with adapter plate.

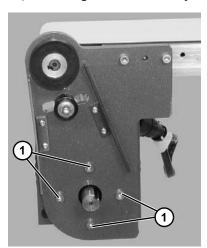


Figure 28

5. Remove four (4) adapter plate screws (Figure 29, item 1). Remove adapter plate.

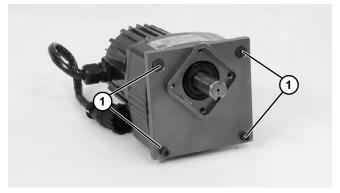


Figure 29

NOTE

Gearmotor position on Flat Belt conveyor shown at left (**Figure 30**). Gearmotor position on Cleated Belt or MPB Series conveyor shown at right (**Figure 30**).

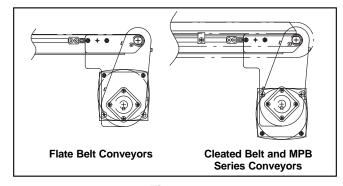


Figure 30

6. Install new gearmotor to adapter plate and mounting bracket. Tighten screws (**Figure 28, item 1**) to 103 in-lb (12 Nm).

NOTE

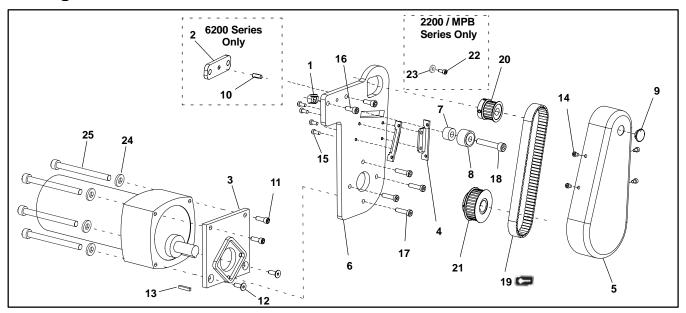
Drive pulley (Figure 27, item 2) is removed. Wrap timing belt around drive pulley and complete step 10.

- 7. Complete steps 6 through 9 of "Installation" section on page 9.
- 8. Replace wiring:
- For a single phase motor, reverse step 1 in "Single Phase Motor" on page 11.
- For a three phase motor, reverse steps 1-3, in "Three Phase Motor" on page 11.
- For a DC variable speed motor, reverse step 1 on "DC Variable Speed Motor" on page 11.
- For a brushless motor, reverse steps 1-2 on "Brushless Motor" on page 12.

NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo . Dorner recommends keeping these parts on hand.

2100, 2200, 4100, 6200 Series and MPB Series Flat Belt Bottom Mount Drive Package



Item	Part Number	Description
1	202390M	Nut, Cam Follower
2	450027M	Adaptor Plate Assembly (6200 Only)
3	450029M	Adaptor Plate Assembly
4	450375	Cover Mounting Bracket
5	450376M	Drive Guard
6	450443M	Bottom Mounting Plate
	202283	Flush Mounting Plate (Flush Drive Only)
7	450445	Spacer, Cam Follower
8	802–046	Bearing
9	807–226	Snap-out Plastic Plug
10	807–952	Groove Pin (6200 Only)
11	902–157	Socket Head Screw, 1/4-28 x 0.75"
12	903–161	Flat Head Screw, 1/4–28 x 0.75"
13	912–084	Square Key, 0.188 x 1.5"
14	920481M	Socket Head Screw, M4 x 8mm
15	920592M	Socket Low Head Screw, M5 x 12mm
16	920625M	Socket Head Screw, M6 x 25mm
	920616M	Socket Head Screw, M6 x 16mm (4100 Conveyors)
	920630M	Socket Head Screw, M6 x 30mm (6200 Conveyors)
17	920695M	Socket Low Head Screw M6 x 20mm
18	920840M	Socket Head Screw, M8 x 40mm

Item	Part Number	Description
19	814-104	Timing Belt, 15mm W x 450mm L
	814-105	Timing Belt, 15mm W x 460mm L
	814-065	Timing Belt, 15mm W x 475mm L
	814-112	Timing Belt, 15mm W x 495mm L
	814-101	Timing Belt, 15mm W x 500mm L
	814-108	Timing Belt, 15mm W x 520mm L
	814-064	Timing Belt, 15mm W x 535mm L
	814-099	Timing Belt, 15mm W x 565mm L
20	450365MP	Driven Pulley, 19Tooth, 12mm bore
	450366MP	Driven Pulley, 22Tooth, 12mm bore
	450367MP	Driven Pulley, 28Tooth, 12mm bore
	450368MP	Driven Pulley, 32Tooth, 12mm bore
	243325	Driven Pulley, 16Tooth, 12mm bore (Flush Drive Only)
21	450434	Drive Pulley, 22Tooth, 0.75" bore
	450435	Drive Pulley, 28Tooth, 0.75" bore
	450436	Drive Pulley, 32Tooth, 0.75" bore
	450437	Drive Pulley, 44Tooth, 0.75" bore
	450438	Drive Pulley, 48Tooth, 0.75" bore
	450407MP	Drive Pulley, 28Tooth, 22mm bore
	450408MP	Drive Pulley, 44Tooth, 22mm bore
	450409MP	Drive Pulley, 60Tooth, 22mm bore
22	920608M	Socket Head Screw, M6 x 8mm
23	807-2092	Washer, 6mm
24	911-120	Washer, (for 50:1 Brushless DC Motor only)

Item	Part Number	Description
25	920890M	Socket Head Screw, M8 x 90mm (for 50:1 Brushless DC Motor only)
	920875M	Socket Head Screw, M8 x 75mm (for 10:1 Brushless DC Motor only)

Pulley Ratio / Timing Belt Combinations

Motor	Conveyor		Timin	g Belt
(Drive) Pulley Teeth	(Driven) Pulley Teeth	Pulley Ratio	2200/MB/ MPB	4100/6200
22	28	0.79	N/A	814-104
22	32	0.69	814-104	814-105
28	28	1.00	814-104	N/A
28	32	0.88	814-065	N/A
32	19	1.68	N/A	814-104
32	22	1.45	814-104	814-105
32	28	1.14	814-065	N/A
32	32	1.00	N/A	814-112
44	22	2.00	814-065	814-112
44	28	1.57	814-101	814-108
44	32	1.38	814-108	814-064
48	19	2.53	N/A	814-112
48	22	2.18	814-101	814-112
48	28	1.71	814-108	814-064
48	32	1.50	814-108	814-064
60	19	3.16	N/A	814-064
60	22	2.73	814-064	814-064
60	28	2.14	814-064	814-099
60	32	1.88	814-099	814-099

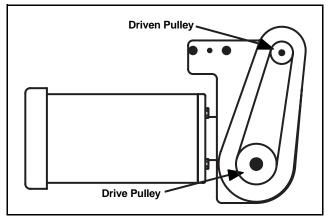
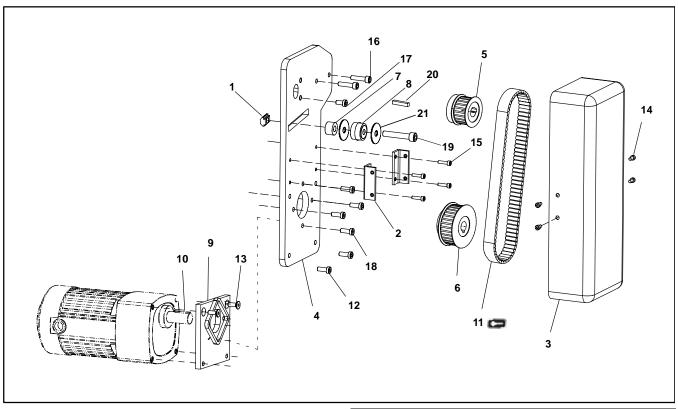


Figure 31

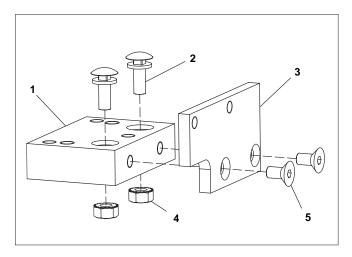
MPB Series Cleated Belt Bottom Mount Drive Package



Item	Part Number	Description
1	202390M	Nut Cam Follower
2	243402	Mounting Cover Bracket
3	300871M	Drive Guard
4	243401	Mounting Plate
5	450367MP	Driven Pulley, 28Tooth
	450368MP	Driven Pulley, 32Tooth
6	450434	Drive Pulley, 22Tooth, 0.75" bore
	450435	Drive Pulley, 28Tooth, 0.75" bore
	450436	Drive Pulley, 32Tooth, 0.75" bore
	450437	Drive Pulley, 44Tooth, 0.75" bore
	450438	Drive Pulley, 48Tooth, 0.75" bore
7	450445	Spacer
8	802–046	Bearing
9	450029M	Adaptor Plate Assembly
10	912-084	Square Key, 0.188 x 1.5"

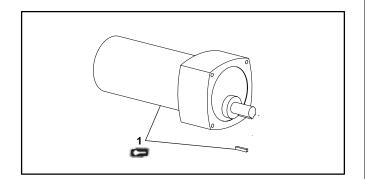
Item	Part Number	Description
11	814-101	Timing Belt, 15mm W x 500mm L
	814-108	Timing Belt, 15mm W x 520mm L
	814-064	Timing Belt, 15mm W x 535mm L
	814-099	Timing Belt, 15mm W x 565mm L
	814-109	Timing Belt, 15mm W x 580mm L
	814-115	Timing Belt, 15mm W x 600mm L
	814-110	Timing Belt, 15mm W x 615mm L
12	902–157	Socket Head Screw 1/4–28 x 0.75"
13	903–161	Flat Head Screw 1/4–28 x 0.75"
14	920408M	Socket Head Screw M4 x 8mm
15	920416M	Socket Head Screw M4 x 16mm
16	920625M	Socket Head Screw M6 x 25mm
17	920692M	Stabilization Screw M6 x 12mm Low Hd
18	920695M	Socket Low Head Screw M6 x 25mm
19	920845M	Socket Head Screw M8 x 45mm
20	980422M	Square Key 4mm x 22mm
21	807-1133	Washer

4100 Series Adapter Package



Item	Part No.	Part Description
1	609486	Mounting Block 1" (25mm)
	609487	Mounting Block 2" (51mm)
	609488	Mounting Block 3" (76mm)
	609479	Mounting Block 4" (102mm)
	609480	Mounting Block 5" (127mm)
	609481	Mounting Block 6" (152mm)
	609482	Mounting Block 7" (178mm)
	609483	Mounting Block 8" (203mm)
	609484	Mounting Block 10" (254mm)
	609485	Mounting Block 12" (305mm)
2	613602P	Bolt & Flat Washer Assembly
3	450374	Drive Adapter Plate
4	910–126	Hex Nut with Lock Washer
5	930612M	Flat Head Screw M6 x 12mm

Gear Motor



Item	Part No.	Part Description
1	62M180PS411FN	Motor, 0.08hp (0.06Kw), 10 RPM, 115VAC, 60Hz, 1-Phase
	62M180PS411FR	Motor, 0.08hp (0.06Kw), 10 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M060PS411FN	Motor, 0.17hp (0.13Kw), 29 RPM, 115VAC, 60Hz, 1-Phase
	62M060PS411FR	Motor, 0.17hp (0.13Kw), 29 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M060PS423FN	Motor, 0.25hp (0.19Kw), 29 RPM, 230VAC, 60Hz, 3-Phase
	62M030PS411FN	Motor, 0.17hp (0.13Kw), 58 RPM, 115VAC, 60Hz, 1-Phase
	62M030PS411FR	Motor, 0.17hp (0.13Kw), 58 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M030PS423FN	Motor, 0.25hp (0.19Kw), 58 RPM, 230VAC, 60Hz, 3-Phase
	62M020PS411FN	Motor, 0.17hp (0.13Kw), 86 RPM, 230VAC, 60Hz, 1-Phase
	62M020PS411FR	Motor, 0.17hp (0.13Kw), 86 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M010PS411FN	Motor, 0.17hp (0.13Kw), 173 RPM, 115VAC, 60Hz, 1-Phase
	62M010PS411FR	Motor, 0.17hp (0.13Kw), 173 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M010PS423FN	Motor, 0.25hp (0.19Kw), 173 RPM, 230VAC, 60Hz, 3-Phase
	62M005PS411FN	Motor, 0.17hp (0.13Kw), 345 RPM, 230VAC, 60Hz, 1-Phase
	62M005PS411FR	Motor, 0.17hp (0.13Kw), 345 RPM, 115VAC, 60Hz, 1-Phase w/ reversing switch
	62M180PSD3DEN	Motor, 0.12hp (0.09Kw), 14 RPM, 130VDC
	62M060PSD3DEN	Motor, 0.25hp (0.19Kw), 42 RPM, 130VDC
	62M030PSD3DEN	Motor, 0.25hp (0.19Kw), 83 RPM, 130VDC
	62M020PSD3DEN	Motor, 0.25hp (0.19Kw), 125 RPM, 130VDC
	62M010PSD3DEN	Motor, 0.25hp (0.19Kw), 250 RPM, 130VDC
	62M005PSD3DEN	Motor, 0.25hp (0.19Kw), 500 RPM, 130VDC
	62M050PSBDDEN	Motor, 0.25hp (0.19Kw), 60 RPM, Brushless DC
	62M020PSBDDEN	Motor, 0.25hp (0.19Kw), 150 RPM, Brushless DC
	62M010PSBDDEN	Motor, 0.25hp (0.19Kw), 300 RPM, Brushless DC

N	otes
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Return Policy

Returns must have prior written factory authorization or they will not be accepted. Items that are returned to Dorner without authorization will not be credited nor returned to the original sender. When calling for authorization, please have the following information ready for the Dorner factory representative or your local distributor:

- 1. Name and address of customer.
- 2. Dorner part number(s) of item(s) being returned.
- 3. Reason for return.
- 4. Customer's original order number used when ordering the item(s).
- 5. Dorner or distributor invoice number (if available, part serial number).

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.

Conveyors and conveyor accessories

Standard catalog conveyors

MPB, 7200, 7300 Series, cleated and specialty belt
AquaGard & AquaPruf Series conveyors
Engineered to order products
Drives and accessories
Sanitary stand supports

30%
non-returnable items
30%
non-returnable items

Parts

Standard stock parts 30% Plastic chain, cleated and specialty belts non-returnable items

Returns will not be accepted after 60 days from original invoice date. The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory. If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Customer Service Team will gladly help with your questions on Dorner products.

For a copy of Dorner's Warranty, contact factory, distributor, service center or visit our website at www.dorner.com.

For replacement parts, contact an authorized Dorner Service Center or the factory.



Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2012

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