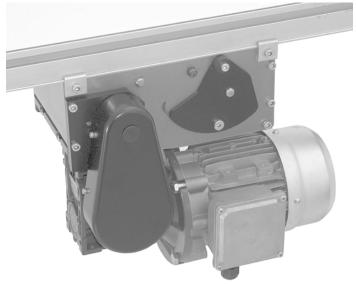


# 2100, 2200, 2300 & 6200 Series Center Mount Drive Package for Standard & Heavy Load Gearmotors

Installation, Maintenance & Parts Manual



# Featuring: **eDrive**<sup>™</sup> Technology

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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.

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Dorner 2100 Series conveyors are covered by the following patent numbers: 5131529, 5174435, and corresponding patents and patent applications in other countries.

Dorner 2200 and 6200 Series conveyors are covered by patent number 5174435, 6109427, 6298981, 6422382 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

### 

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.

### 🕰 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.

**WARNING** 



Gearmotors may be HOT. **DO NOT TOUCH Gearmotors.** 

### 



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.

## **Product Description**

Refer to Figure 1 for typical components.

1 Conveyor

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

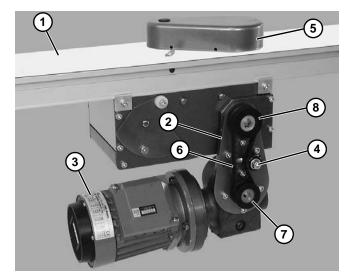
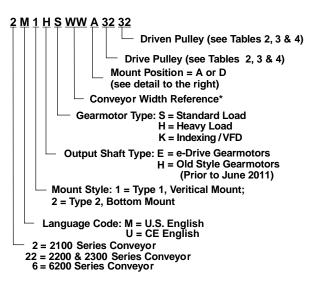


Figure 1

## **Specifications**

### **Gearmotor Mounting Package Models:**

Example:







\* See "Ordering and Specifications" Catalog for details.

### **Table 1: Gearmotor Specifications**

### U.S. Version

	Sta	andard Load Gea	rmotor	Heavy Load Gearmotor				
	Single- Phase	Three Phase	DC Variable Speed	Single- Phase	Three Phase	VFD Variable Speed	DC Variable Speed	
Output Power		0.25 hp (0.19 k	w)	0.5 hp (0.37 kw)				
Input Voltage	115VAC	208-230/460 VAC	130VDC	115VAC	208-230/460 VAC	230 VAC	90VDC	
Input Frequency	60Hz		N/A	60Hz		10 – 60Hz	N/A	
Input Current (Amperes)	5.0	1.2/0.6	2.2	7.4	2.1 – 2/1	1.6	5.0	
Gearmotor Ratios	5:	1, 10:1, 20:1, 40:	1, 60:1	5:1, 10:1, 20:1, 40:1, 60:1				
Frame Size	NEMA 42CZ			NEMA 56C				
Motor Type	Tota	ally enclosed, Far	n cooled	Totally enclosed, Fan cooled				

#### **CE Version**

	Single Phase	Three Phase	VFD Variable Speed			
Output Power	· · · · ·	0.18 kw				
Input Voltage	230 VAC	230 VAC 230/400 VAC				
Input Frequency	· · · · ·	50Hz				
Input Current	1.6 Amperes	1.4/0.8 Amperes	1.4 Amperes			
Gearmotor Ratios	5:1, 10:1	, 20:1, 40:1, 60:1	5:1, 10:1, 20:1			
Protection Rating		IP55				
Frame Size	IE	EC 63 B5	IEC 71 B5			

# Table 2: Belt Speeds for Standard & Heavy Load Fixed Speed 90°Gearmotors

#### U.S. Version (60 Hz Gearmotors)

Standard Lo	oad Gear	motors		Heavy Loa	d Gearm	otors		Belt S	peed	Drive	Driven
Part Number	RPM	In-lb	N-m	Part Number	RPM	In-lb	N-m	Ft/min	M/min	Pulley	Pulley
32M060EL4(vp)F(n)	29	226	25.5	32M060HS4(vp)F(n)	29	226	25.5	6	1.8	19	32
32M060EL4(vp)F(n)	29	226	25.5	32M060HS4(vp)F(n)	29	226	25.5	10	3.0	32	32
32M040EL4(vp)F(n)	43	237	26.8	32M040HS4(vp)F(n)	43	247	27.9	15	4.6	32	32
32M040EL4(vp)F(n)	43	237	26.8	32M040HS4(vp)F(n)	43	247	27.9	23	7.0	48	32
32M020EL4(vp)F(n)	86	142	16	32M020HS4(vp)F(n)	86	248	27.9	30	9.1	32	32
32M020EL4(vp)F(n)	86	142	16	32M020HS4(vp)F(n)	86	248	27.9	45	13.7	48	32
32M010EL4(vp)F(n)	173	78	8.8	32M010HS4(vp)F(n)	173	156	17.6	61	18.6	32	32
32M010EL4(vp)F(n)	173	78	8.8	32M010HS4(vp)F(n)	173	156	17.6	91	27.7	48	32
32M005EL4(vp)F(n)	345	41	4.6	32M005HS4(vp)F(n)	345	81	9.1	121	36.9	32	32
32M005EL4(vp)F(n)	345	41	4.6	32M005HS4(vp)F(n)	345	81	9.1	154	46.9	28	22
32M005EL4(vp)F(n)	345	41	4.6	32M005HS4(vp)F(n)	345	81	9.1	181	55.2	48	28
32M005EL4(vp)F(n)	345	41	4.6	32M005HS4(vp)F(n)	345	81	9.1	208	63.4	48	28
32M005EL4(vp)F(n)	435	41	4.6	32M005HS4(vp)F(n)	345	81	9.1	264	80.5	48	22

(vp) = voltage and phase

11 = 115 V, 1-phase

23 = 208 - 230/460 V, 3-phase

## **Specifications**

#### **CE Version (50 Hz Gearmotors)**

Gearmotor	Gearmotors					
Part Number	RPM	N-m	M/min	Pulley	Pulley	
62Z060ES4(vp)FN	23	26.4	1.5	19	32	
62Z060ES4(vp)FN	23	26.4	2.4	32	32	
62Z040ES4(vp)FN	35	28.9	3.7	32	32	
62Z040ES4(vp)FN	35	28.9	5.5	48	32	
62Z020ES4(vp)FN	70	19.4	7.6	32	32	
62Z020ES4(vp)FN	70	19.4	11.3	48	32	
62Z010ES4(vp)FN	140	10.7	14.9	32	32	
62Z010ES4(vp)FN	140	10.7	22.6	48	32	
62Z005ES4(vp)FN	280	5.6	29.9	32	32	
62Z005ES4(vp)FN	280	5.6	45.1	48	32	
62Z005ES4(vp)FN	280	5.6	51.5	48	28	
62Z005ES4(vp)FN	280	5.6	65.2	48	22	
62Z005ES4(vp)FN	280	5.6	75.6	48	19	

(vp) = voltage and phase

21 = 230 V, 1-phase

23 = 230 V, 3-phase

43 = 400 V, 3-phase

# Table 3: Belt Speeds for Standard & Heavy Load Variable Speed 90° DC Gearmotors

#### **U.S. Version**

Standard L	oad Gea	rmotors		Heavy Lo	ad Gearr	notors		Belt	Speed	Drive	Driven
Part Number	RPM	In-lb	N-m	Part Number	RPM	In-lb	N-m	Ft/min	M/min	Pulley	Pulley
32M060ELD3DEN	42	198	22.4	32M060HSD9DEN	42	198	22.4	1.0 – 9	0.3 – 2.6	19	32
32M060ELD3DEN	42	198	22.4	32M060HSD9DEN	42	198	22.4	1.8 – 15	0.5 – 4.5	32	32
32M040ELD3DEN	63	163	18.4	32M040HSD9DEN	63	215	24.3	2.6 – 22	0.8 – 6.7	32	32
32M020ELD3DEN	125	98	11.1	32M020HSD9DEN	125	196	22.1	5.3 – 44	1.6 – 13	32	32
32M010ELD3DEN	250	54	6.1	32M010HSD9DEN	250	108	12.2	10 – 88	3.2 – 27	32	28
32M010ELD3DEN	250	54	6.1	32M010HSD9DEN	250	108	12.2	18 – 150	5.5 – 46	48	32
32M005ELD3DEN	500	28	3.2	32M005HSD9DEN	500	56	6.3	21 – 176	6.4 – 54	32	16
32M005ELD3DEN	500	28	3.2	32M005HSD9DEN	500	56	6.3	27 – 224	7.3 – 61	28	22
32M005ELD3DEN	500	28	3.2	32M005HSD9DEN	500	56	6.3	31 – 255	9.3 – 78	32	22

#### **CE Version**

Gearmoto	Belt Speed	Drive	Driven		
Part Number	RPM	N-m	M/min	Pulley	Pulley
62Z060ES423EN	23	26.4	0.7 -1.9	19	32
62Z060ES423EN	23	26.4	1.2 - 3.1	32	32
62Z040ES423EN	35	28.9	1.6 - 4.7	32	32
62Z020ES423EN	70	19.4	3.7 - 9.4	32	32
62Z010ES423EN	140	10.7	7.5 - 19	32	32
62Z010ES423EN	140	10.7	11 - 28	48	32
62Z005ES423EN	280	5.6	15 - 38	32	32
62Z005ES423EN	280	5.6	22 - 57	48	32
62Z005ES423EN	280	5.6	30 - 76	44	22

## **Specifications**

### Table 4: Belt Speeds for Heavy Load Variable Speed 90° VFD Gearmotors

Heavy	Load Gearmo	otors		Belt	Speed	Drive	Driven
Part Number	RPM	In-lb	N-m	Ft/min	M/min	Pulley	Pulley
32M060ES423EN	29	226	25.5	0.7 – 6	0.2 – 1.8	19	32
32M060ES423EN	29	226	25.5	1.2 – 10	0.4 - 3.1	32	32
32M040ES423EN	43	247	27.9	1.8 – 15	0.6 - 4.6	32	32
32M020ES423EN	86	248	27.9	3.6 - 30	1.1 – 9.2	32	32
32M010ES423EN	173	156	17.6	7 – 61	2.2 – 18	34	32
32M010ES423EN	173	156	17.6	12 – 104	3.8 - 32	82	28
32M005ES423EN	345	81	9.1	14 – 121	4.4 - 37	32	32
32M005ES423EN	345	81	9.1	23 – 190	7 – 58	44	28
32M005ES423EN	345	81	9.1	29 – 242	9 - 74	44	22

#### NOTE

For belt speed other than those listed, contact factory for details.

## Installation

### **Required Tools**

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

### Mounting



Exposed moving parts can cause severe injury.LOCK OUT POWER before removing guards or performing maintenance.

### NOTE

Type 1 mounting package shown below left (*Figure 2*). Type 2 mounting package shown below right (*Figure 2*).

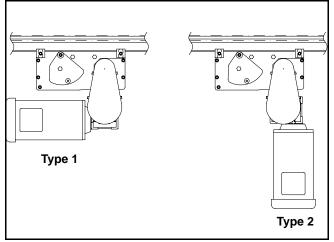


Figure 2

### NOTE

For Type 1 mounting package, the gearmotor may be operated in positions 1 or 4 (*Figure 3*).

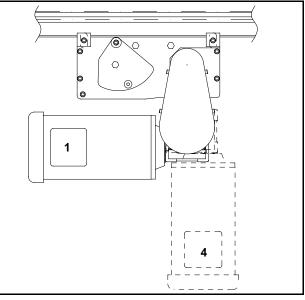


Figure 3

#### Installation Component List:

- 1 Mount Assembly Bracket
- 2 Drive Pulley
- 3 Cover
- 4 M4 Socket Head Screws (4x)
- 5 Driven Pulley
- 6 Key
- 7 M6 Socket Head Screws (3x)
- 1. Gather installation components (Figure 4)

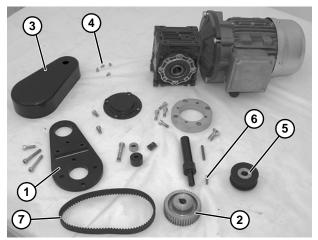


Figure 4

### NOTE

Type 1 mounting package shown (*Figure 4*), Type 2 mounting package similar.

## Installation

 If required, change gearmotor position by removing four (4) screws (Figure 5, item 1). Rotate gearmotor to other position and replace screws. Tighten to 103 in-lb (12 Nm).

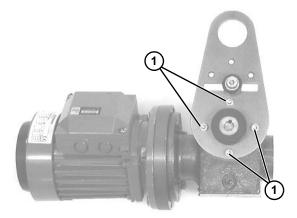
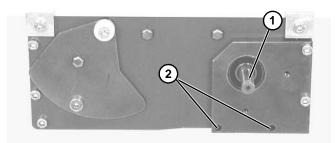


Figure 5

3. Locate drive output shaft (Figure 6, item 1) and remove two (2) screws (Figure 6, item 2).



#### Figure 6

4. Attach mount assembly (Figure 7, item 1) with mounting screws (Figure 7, item 2). Install long screws on bottom. Tighten screws to 80 in-lb (9 Nm.).

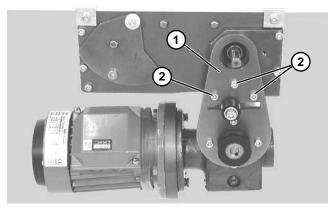


Figure 7



## Drive shaft keyway may be sharp. HANDLE WITH CARE.

5. Install key (Figure 8, item 1).

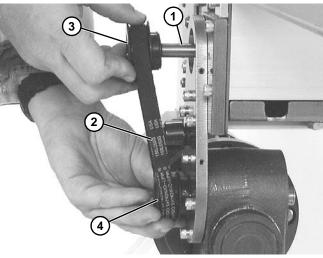


Figure 8

- Wrap timing belt (Figure 8, item 2) around driven pulley (Figure 8, item 3) and drive pulley (Figure 8, item 4). Install driven pulley (Figure 8, item 3) onto conveyor shaft.
- Using a straight edge (Figure 9, item 1), align driven pulley (Figure 9, item 2) with drive pulley (Figure 9, item 3). Tighten driven pulley set screws (Figure 9, item 4).

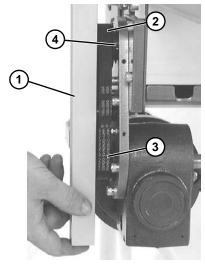


Figure 9

## Installation

Depending on direction of conveyor belt travel (Figure 10, item 1 or 2), position belt tensioner (Figure 10, item 3) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 10, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).

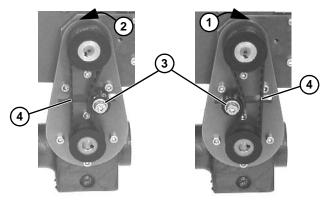


Figure 10

9. Install cover (Figure 11, item 1) with four (4) screws (Figure 11, item 2). Tighten screws to 35 in-lb (4 Nm).

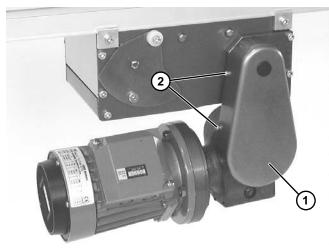


Figure 11

### **Required Tools**

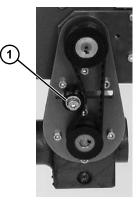
- Hex key wrenches: 2 mm, 2.5 mm, 3 mm, 5 mm
- Adjustable wrench (for hexagon head screws)
- Straight edge
- · Torque wrench

### **Timing Belt Tensioning**



#### Exposed moving parts can cause severe injury.LOCK OUT POWER before removing guards or performing maintenance.

- Remove four (4) screws (Figure 11, item 2) and remove 1. cover (Figure 11, item 1).
- Loosen tensioner (Figure 12, item 1). 2.



#### Figure 12

- 3. Depending direction of conveyor belt travel (Figure 10, item 1 or 2), position belt tensioner (Figure 10, item 3) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 10, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).
- 4. Install cover (Figure 11, item 1) with four (4) screws (Figure 11, item 2). Tighten screws to 35 in-lb (4 Nm).

### **Timing Belt Replacement**





Exposed moving parts can cause severe injury. LOCK OUT POWER before removing guards or performing maintenance.

- 1. Remove four (4) screws (Figure 11, item 2) and remove cover (Figure 11, item 1).
- Loosen tensioner (Figure 12, item 1). 2.
- Remove timing belt (Figure 13, item 1). 3.

### NOTE

If timing belt does not slide over pulley flange, loosen driven pulley set screws (Figure 13, item 2) and remove pulley with belt (Figure 13, item 1). For re-installation, see steps 6 and 7 on page 9.

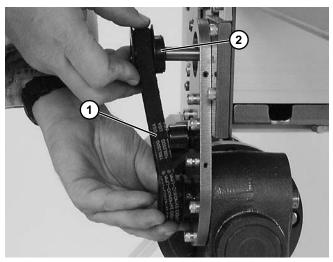


Figure 13

- Install new timing belt. 4.
- Depending direction of conveyor belt travel (Figure 5. 10, item 1 or 2), position belt tensioner (Figure 10, item 3) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 10, item 4). Tighten tensioner screw to 103 in-lb (12 Nm).
- Install cover (Figure 11, item 1) with four (4) screws 6. (Figure 11, item 2). Tighten screws to 35 in-lb (4 Nm).

### **Drive or Driven Pulley Replacement**



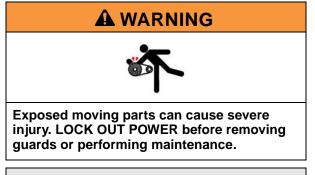
Loosen set screws and remove drive or driven pulley. 2.

### NOTE

If drive pulley (Figure 16, item 1) is replaced, wrap timing belt around drive pulley and complete step 3.

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

### **Gear Reducer Replacement**

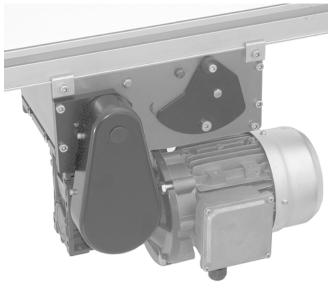


### NOTE

The center mount drive package changed configuration in 2011. See below for configuration details. See Service Parts section to ensure proper replacement parts are installed.



Old Style Gearmotor prior to June 2011 Figure 14



#### e-Drive Gearmotor Figure 15

- Remove four (4) screws (Figure 11, item 2) and remove 1. cover (Figure 11, item 1).
- Loosen tensioner (Figure 12, item 1). 2.

3. Loosen drive pulley set screws (Figure 16, item 2). Remove drive pulley (Figure 16, item 1) and timing belt (Figure 16, item 3).

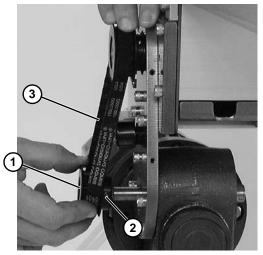


Figure 16

4. Remove four (4) gear reducer mounting screws (Figure 17, item 1). Remove gearmotor.

 Remove four screws (Figure 18, item 1). Detach motor (Figure 18, item 2) from gear reducer (Figure 18, item 3). Retain shaft key (Figure 18, item 4).

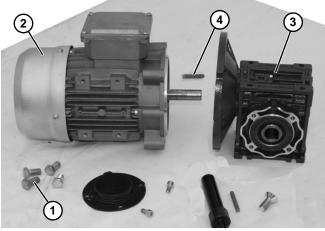


Figure 18

6. Remove two (2) screws (Figure 19, item 1) and detach output shaft cover (Figure 19, item 2).

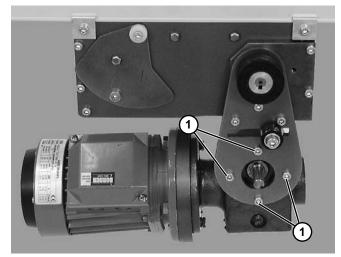


Figure 17

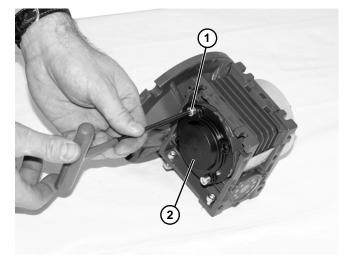


Figure 19

### NOTE

Follow proper procedure below depending upon old or new style gearmotor assembly.

#### For e-Drive style gearmotor

 Loosen four (4) socket head screws (Figure 20, item 1) and detach spacer (Figure 20, item 2) from gear reducer (Figure 20, item 3).

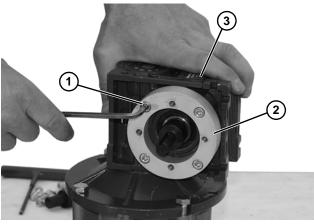


Figure 20

2. Loosen driveshaft bolt (Figure 21, item 1).

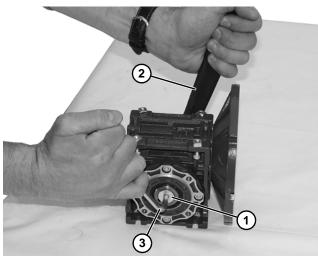


Figure 21

3. Hold the driveshaft with a wrench (Figure 21, item 2) as shown to keep shaft from turning, while removing screw with hex wrench (Figure 21, item 3).

4. Remove driveshaft (Figure 22, item 1) and key (Figure 22, item 2).

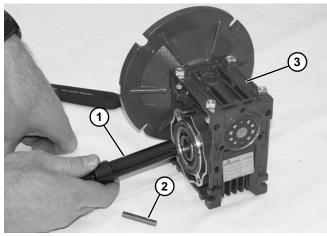


Figure 22

- 5. Replace gear reducer (Figure 22, item 3).
- 6. Apply anti-seize (Figure 23, item 1) to shaft.



#### Figure 23

7. Replace the original shaft components into new gear reducer (Figure 22).

### IMPORTANT

Be extremely careful when coupling motor to gear reducer. Avoid misalignment and forcing the connection causing possible permanent gear reducer seal damage.

- 8. Hold the driveshaft with a wrench (Figure 21, item 2) as shown to keep shaft from turning, while installing screw with hex wrench (Figure 21, item 3). Tighten capscrew to 100 in-lb (11.5 Nm) for 42CZ or 350 in-lb (39.5 Nm) for 52C, 63B5 and 71B5.
- Apply anti-seize to motor shaft before assembling to gearbox. With key (Figure 18, item 4) in keyway, slide motor (Figure 18, item 2) and gear reducer (Figure 18, item 3) together. Install screws (Figure 18, item 1) and tighten.

- Install spacer (Figure 20, item 2) onto gear reducer (Figure 20, item 3) with four (4) socket head screws (Figure 20, item 1).
- 11. Complete steps 4 through 9 of "Installation" section beginning on page 9.

#### For old style gearmotor prior to June 2011

 Loosen six (6) set screws (Figure 24, item 1). Remove drive shaft (Figure 24, item 2) and key (Figure 24, item 3).

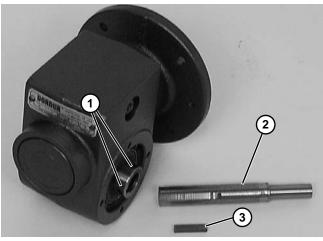


Figure 24

2. Apply anti-seize (Figure 25, item 1) to shaft.

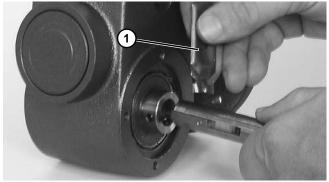


Figure 25

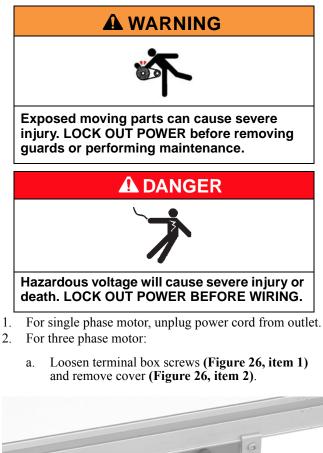
3. Replace the original shaft components into new gear reducer see (Figure 24).

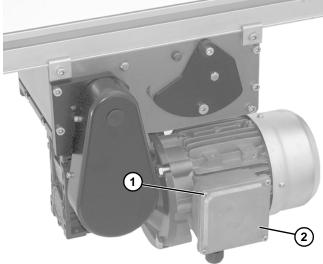
### IMPORTANT

Be extremely careful when coupling motor to gear reducer. Avoid misalignment and forcing the connection causing possible permanent gear reducer seal damage.

- Apply anti-seize to motor shaft before assembling to gearbox. With key (Figure 18, item 4) in keyway, slide motor (Figure 18, item 2) and gear reducer (Figure 18, item 3) together. Install screws (Figure 18, item 1) and tighten.
- 5. Complete steps 4 through 9 of "Installation" section beginning on page 9.

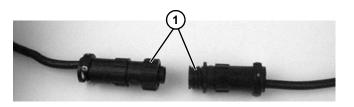
### **Motor Replacement**





#### Figure 26

- b. Record wire colors on terminals 1, 2 and 3. Loosen wire nuts and remove wires 1, 2 and 3.
- c. Loosen cord grip and remove cord.
- 3. For DC variable speed motor, unplug motor cord at disconnect (Figure 27, item 1).



#### Figure 27

 Remove four screws (Figure 28, item 1). Detach motor (Figure 28, item 2) from gear reducer (Figure 28, item 3). Retain motor output shaft key.

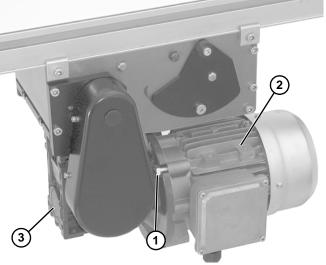


Figure 28

### IMPORTANT

Be extremely careful when coupling motor to gear reducer. Avoid misalignment and forcing the connection causing possible permanent gear reducer seal damage.

- Apply anti-seize to motor shaft before assembling to gearbox. With key in keyway, slide motor (Figure 28, item 2) and gear reducer (Figure 28, item 3) together. Install screws (Figure 28, item 1) and tighten.
  Replace wiring:
- For a single phase motor, reverse step 1 on page 16.
- For a three phase motor, reverse step 2, on page 16.
- For a DC variable speed motor, reverse step 3 on page 16.

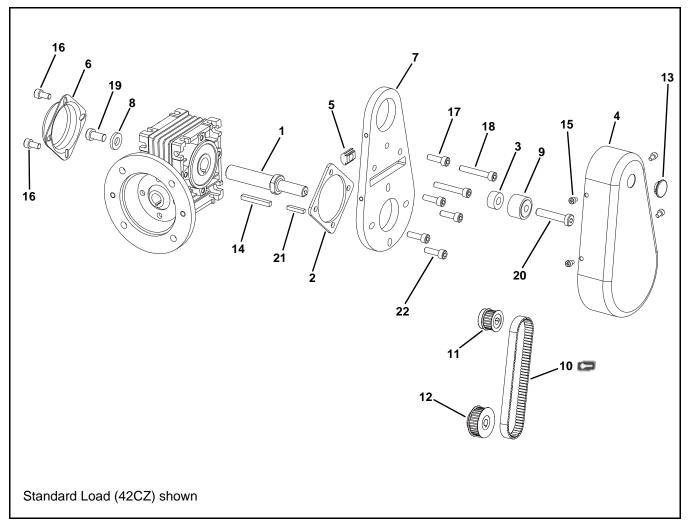
## Notes

## **Service Parts**

### 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.

### **Center Mount Drive Package for 90° Gearmotors**



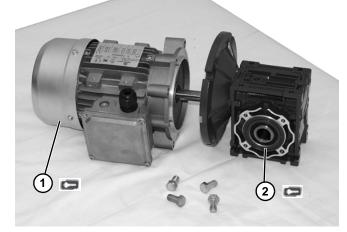
## **Service Parts**

Item	Part Number	Description
1	202274	Drive Shaft (for E-Drive 42CZ C Face
		Gearmotors)
	350122	Drive Shaft (for E-Drive 56 C Face
		Gearmotors)
	350136	Drive Shaft (for E-Drive IEC 63B5 and IEC
		71B5 Gearmotors)
2	400026	Spacer Ring (for E-Drive 42CZ C Face Gearmotors)
	350115	Adapter (for E-Drive 56 C Face, IEC 63B5
	000110	and IEC 71B5 Gearmotors)
3	450195	Spacer
4	200376M	Drive Guard
5	202390M	Nut
6	300139	Drive-Bearing Shaft Cover (for E-Drive
		42CZ C Face Gearmotors)
	807-2016	Drive-Bearing Shaft Cover (for E-Drive 56
		C Face, IEC 63B5 and IEC 71B5
	200420	Gearmotors)
	300139	Drive-Bearing Shaft Cover (for Old Style Gearmotors, Prior to June 2011)
7	460026M	Mounting Plate
8	605280P	Washer (for 42CZ Face Gearmotors)
9	802-046	Bearing
10	814-103	Timing Belt, 15 mm W x 385 mm L
	814-100	Timing Belt, 15 mm W x 400 mm L
	814-096	Timing Belt, 15 mm W x 425 mm L
	814-105	Timing Belt, 15 mm W x 460 mm L
11	450365MP	Driven Pulley, 19 Tooth
	450366MP	Driven Pulley, 22 Tooth
	450367MP	Driven Pulley, 28 Tooth
	450368MP	Driven Pulley, 32 Tooth
12	450365MP	Drive Pulley, 22 Tooth
	450366MP	Drive Pulley, 28 Tooth
	450367MP	Drive Pulley, 32 Tooth
	450368MP	Drive Pulley, 44 Tooth
	450370MP	Drive Pulley, 48 Tooth
13	807-226	Snap-out Plastic Plug
14	912-084	Square Key, 0.188" x 1.50"
	980636M	Square Key, 6 mm x 36 mm (for E-Drive
		IEC 63B5 and IEC 71B5 Gearmotors)
15	920406M	Socket Head Screw, M470 x 6 mm
16	920612M	Socket Head Screw, M6-1.00 x 12 mm
17	920620M	Socket Head Screw, M6-1.00 x 20 mm
18	920640M	Socket Head Screw, M8-1.25 x 40 mm
19	920893M	Low Head Cap Screw, M8-1.25 x 16 mm (for E-Drive 42CZ C Face Gearmotors)
	931020MSS	Flat Head Screw M10-1.50 x 20 mm (for E-
	3310201000	Drive 56 C Face, IEC 63B5 and IEC 71B5
		Gearmotors)
20	920898M	Low Head Cap Screw, M8-1.25 x 40 mm
21	980422M	Square Key, 4 mm x 22 mm
22	920620M	Low Head Cap Screw, M6-1.00 x 20 mm
		(for E-Drive 56 C Face, IEC 63B5 and IEC
	02064.014	71B5 Gearmotors)
	920618M	Socket Head Screw, M6-1.00 x 18 mm

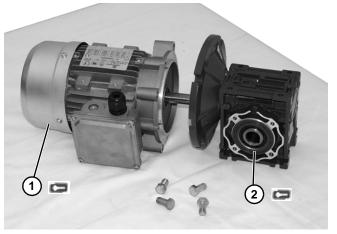
## Service Parts

### U.S. Version Gearmotors

**CE Version Gearmotors** 



ltem	Part Number	Description
1 D	62MES411FN	Motor, 0.25HP, (0.19 Kw), 115/230 Volts, 60 Hz, 1-Phase
	62MES423FN	Motor, 0.25HP, (0.19 Kw), 208-230/460 Volts, 60 Hz, 3-Phase
	62MSD3DEN	Motor, 0.25HP, (0.19 Kw), 130 VDC
	62MEH423FN	Motor, 0.50HP, (0.37 Kw), 115/230 Volts, 60 Hz, 1-Phase
	32MEH423FN	Motor, 0.50HP, (0.37 Kw), 208-230/460 Volts, 60 Hz, 3-Phase
	62MHD9DEN	Motor, 0.50HP, (0.37 Kw), 90 VDC
	32MES423EN	Motor, 0.50HP, (0.37 Kw), 230 Volts, 3- Phase Inverter Duty
2	32M005EL	Gear Reducer, 5:1, NEMA 42 CZ
0	32M010EL	Gear Reducer, 10:1, NEMA 42 CZ
	32M020EL	Gear Reducer, 20:1, NEMA 42 CZ
	32M040EL	Gear Reducer, 40:1, NEMA 42 CZ
	32M060EL	Gear Reducer, 60:1, NEMA 42 CZ
	32M005ES	Gear Reducer, 5:1, 56C
	32M010ES	Gear Reducer, 10:1, 56C
	32M020ES	Gear Reducer, 20:1, 56C
	32M040ES	Gear Reducer, 40:1, 56C
	32M060ES	Gear Reducer, 60:1, 56C



Item	Part Number	Description
0	826-284	Motor, 0.19 Kw 230 Volts, 1400 RPM 50 Hz, 3-Phase
	826-285	Motor, 0.19 Kw 230/400 Volts, 1400 RPM 50 Hz, 3-Phase
2	62Z005ES	Gear Reducer, 5:1, 63 B5
0	62Z010ES	Gear Reducer, 10:1, 63 B5
	62Z020ES	Gear Reducer, 20:1, 63 B5
	62Z040ES	Gear Reducer, 40:1, 63 B5
	62Z060ES	Gear Reducer, 60:1, 63 B5

## Notes

## **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	30%
MPB, 7200, 7300 Series, cleated and specialty belt	50%
AquaGard & AquaPruf Series conveyors	non-returnable items
Engineered to order products	case by case
Drives and accessories	30%
Sanitary stand supports	non-returnable items

#### Parts

Standard stock parts	
Plastic chain, cleated and specialty belts	

30% 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. 2011

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