



7400 Series and 7400 Ultimate Series Drive Packages

Installation, Maintenance and Parts Manual







Horizontal Mount

Vertical Mount

Nose Bar Mount

DORNER MFG. CORP. P.O. Box 20 • 975 Cottonwood Ave. Hartland, WI 53029-0020 USA INSIDE THE USA TEL: 1-800-397-8664 FAX: 1-800-369-2440 OUTSIDE THE USA TEL: 262-367-7600 FAX: 262-367-5827

For other service manuals visit our website at:

www.dorner.com/service_manuals.asp

Table of Contents

Introduction	Preventive Maintenance and Adjustment Required Tools Checklist US Version Gear Reducer Replacement CE Version Gearmotor Replacement US Version Motor Replacement NOTES Service Parts US Version Horizontal Drive	19 19 21 23 25
	Checklist	19
•		
•		
	US Version Horizontal Drive	. 26
US Version Three Phase Gearmotor	CE Version Horizontal Drive	. 27
CE Version Variable Speed Gearmotors 6	US Version Vertical Drive	. 28
Installation	CE Version Vertical Drive	. 29
Required Tools7	US Version Nose Bar Drive	. 30
Drive Package Installation	CE Version Nose Bar Drive	. 31
US Version Horizontal Drive Package 7	US Version Gearmotor Assembly	. 32
CE Version Horizontal Drive Package 9	Return Policy	. 34
US Version Vertical Drive Package 11		
CE Version Vertical Drive Package		
US Version Nose Bar Drive Package 15		
CE Version Nose Bar Drive Package		

Introduction

A CAUTION

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.

The Dorner Limited Warranty applies.

Dorner 7400 series conveyors are covered by Patent Numbers 7,246,697, 7,207,435, 7,549,531 B2, 7,681,719 B2, 7,383,944, 8,042,682 B2 and corresponding patents and patent applications in other countries.

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

Intralox is a registered trademark of Laitram L.L.C. in the United States and / or other countries.

Warnings - General Safety

A DANGER



SEVERE HAZARD!

KEEP OFF CONVEYORS. Climbing, sitting, walking or riding on conveyor will result in death or serious injury.

▲ DANGER



EXPLOSION HAZARD!

- DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT. The electric gearmotor generates heat and could ignite combustible vapors.
- Failure to comply will result in death or serious injury.

WARNING



CRUSH HAZARD!

- DO NOT place hands or fingers inside the conveyor while it is running.
- DO NOT wear loose garments while operating the conveyor. Loose garments can become caught up in the conveyor.
- Failure to comply could result in serious injury.

WARNING



CRUSH HAZARD!

- SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.
- Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing serious injury.

WARNING



SEVERE HAZARD!

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

₩ WARNING



BURN HAZARD!

DO NOT TOUCH the motor while operating, or shortly after being turned off. Motors may be HOT and can cause serious burn injuries.

WARNING



PUNCTURE HAZARD!

Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

WARNING



SEVERE HAZARD!

- 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 startup.
- Failure to comply could result in serious injury.

Product Description

Refer to (**Figure 1**) for typical gearmotor assembly components.

Typical Components

- 1 Conveyor
- 2 Mounting bar
- 3 Motor
- 4 Gear reducer
- 5 Gear reducer mounting bracket

NOTE

The vertical drive package is shown above, but the horizontal and nose bar drive packages contain similar components.

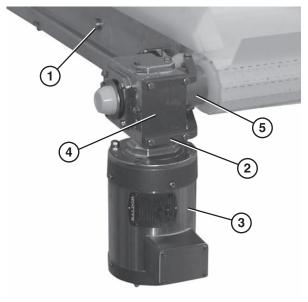
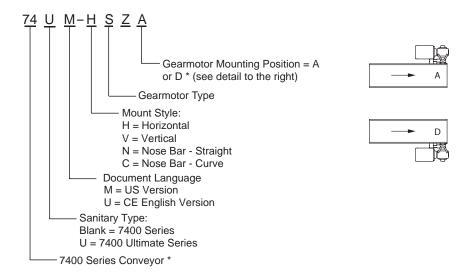


Figure 1

Specifications

7400 Series Gearmotor Mounting Package Models



^{*} Refer to "Ordering and Specifications" Catalog for details.

US Version 7400 Series Gearmotor Specifications

	Singe Phase	Three Phase			
Output Power	0.50 hp (0.37 kW)	.50 hp (.37 kW) /1 hp (.74 KW) / 1.5 hp (1.11 kW)			
Input Voltage	115 V A.C.	208 - 230 / 460 V.A.C.			
Input Frequency	60 Hz	6 – 60 Hz			
Motor RPM	22 - 44	22 - 233			
Gearmotor Ratios	5:1, 7:1, 10:1, 15:1, 20:1, 30:1, 40:1, 60:1, 80:1				
Frame Size	NEMA 56 C				
Motor Type	Totally Enclosed, Non-ventilated (Except 1.5 hp Stainless Steel Gearmotor = Totally Enclosed, Fan Cooled)				

^{*} Refer to "Ordering and Specifications" Catalog for details.

CE Version 7400 Series Gearmotor Specifications

	Three Phase
Output Power	0.37 kW / 0.74 KW / 1.11 kW / 1.49 kW
Input Voltage	230 / 400 V.A.C.
Input Frequency	50 Hz
Motor RPM	See Below
Gearmotor Ratios	5:1, 7:1, 10:1, 15:1, 25:1, 30:1, 60:1
Frame Size	IEC
Motor Type	Totally Enclosed, Fan Cooled

^{*} Refer to "Ordering and Specifications" Catalog for details.

US Version Fixed Speed Gearmotor

Part Number	ft / min	m / min	RPM	in • lb	N • m
74M080HS4(vp)FN	20	6.1	22	356	40.2
74M060HS4(vp)FN	27	8.2	29	442	49.9
74M040HS4(vp)FN	41	12.5	44	486	54.9
74M030HS4(vp)FN	54	16.5	58	487	55.0
74M020HS4(vp)FN	81	24.7	87	407	46.0
74M015HS4(vp)FN	109	33.2	117	470	53.1
74M010HS4(vp)FN	164	50.0	175	442	49.9
74M007HS4(vp)FN	218	66.4	233	360	40.7
74M005HS4(vp)FN	325	100.0	350	337	38.1

Specifications

CE Version Fixed Speed Gearmotors

Part Number	m / min	RPM @50 Hz	N•m	Output Power	Input Voltage	Input Frequency	Gearmotor Ratios	Motor Type
74U060HS423FN	7.0	23	80.9	0.37 Kw	230/400	17-58 Hz	60:1	CE Rated, Painted Gearmotor
74U030HS423FN	14.0	46	101.9	0.74 Kw	230/400	12-80 Hz	30:1	CE Rated, Painted Gearmotor
74U025HS423FN	16.8	55	93.9	0.74 Kw	230/400	12-80 Hz	25:1	CE Rated, Painted Gearmotor
74U015HS423FN	28.3	93	88.9	1.11 Kw	230/400	12-80 Hz	15:1	CE Rated, Painted Gearmotor
74U010HS423FN	42.7	140	63.9	1.11 Kw	230/400	12-72 Hz	10:1	CE Rated, Painted Gearmotor
74U007HS423FN	56.7	186	67.0	1.49 Kw	230/400	12-72 Hz	7:1	CE Rated, Painted Gearmotor
74U005HS423FN	85.0	279	46.0	1.49 Kw	230/400	25-50 Hz	5:1	CE Rated, Painted Gearmotor

US Version Three Phase Gearmotor

Part Number	ft / min	m / min	RPM	in • lb	N • m
74M080HS4(vp)EN	2 – 20	0.6 - 6.1	22	356	40.2
74M060HS4(vp)EN	3 – 27	0.9 – 8.2	29	442	49.9
74M040HS4(vp)EN	5 – 41	1.3 – 12.5	44	486	54.9
74M030HS4(vp)EN	6 – 54	2.0 - 16.5	58	487	55.0
74M020HS4(vp)EN	9 – 81	2.6 – 24.7	87	407	46.0
74M015HS4(vp)EN	11 – 109	3.4 – 33.2	117	470	53.1
74M010HS4(vp)EN	17 – 164	5.2 – 50.0	175	442	49.9
74M007HS4(vp)EN	22 - 218	6.7 – 66.4	233	360	40.7
74M005HS4(vp)EN	34 - 328	10.4 - 100.0	350	337	38.1

CE Version Variable Speed Gearmotors

Part Number	m / min	RPM @50 hz	N•m	Output Power	Input Voltage	Input Frequency	Gearmotor Ratios	Motor Type
74U060HS423EN	2.2 - 7.3	23	80.9	0.37 Kw	230/400	17-58 Hz	60:1	CE Rated, Painted Gearmotor
74U030HS423EN	3.0 - 20.4	46	101.9	0.74 Kw	230/400	12-80 Hz	30:1	CE Rated, Painted Gearmotor
74U025HS423EN	3.7 - 24.4	55	93.9	0.74 Kw	230/400	12-80 Hz	25:1	CE Rated, Painted Gearmotor
74U015HS423EN	6.1 - 41.5	93	88.9	1.11 Kw	230/400	12-80 Hz	15:1	CE Rated, Painted Gearmotor
74U010HS423EN	9.4 - 56.1	140	63.9	1.11 Kw	230/400	12-72 Hz	10:1	CE Rated, Painted Gearmotor
74U007HS423EN	12.5 - 77.7	186	67.0	1.49 Kw	230/400	12-72 Hz	7:1	CE Rated, Painted Gearmotor
74U005HS423EN	39.0 - 78.0	279	46.0	1.49 Kw	230/400	25-50 Hz	5:1	CE Rated, Painted Gearmotor

NOTE

Contact the factory for details about belt speeds other than those listed.

Required Tools

- 5 / 16 wrench
- 16 mm wrench (nose bar drive mount only)
- 4 mm hex wrench
- 8 mm hex wrench
- 13 mm open end wrench
- Large flat-head screwdriver
- · Torque wrench

Drive Package Installation

US Version Horizontal Drive Package



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



Horizontal Drive Mounting Positions

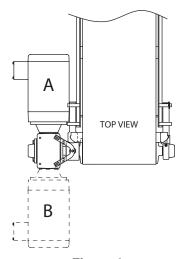


Figure 2

Typical Horizontal Drive Package Components (Figure 3)

- 1 Cover
- 2 Cover bracket
- 3 Hex head cap screw 5 / 16 18 x 0.50 (x4)
- 4 Gear reducer bent mounting bar (x2)
- 5 Horizontal drive spacer
- 6 Horizontal gear reducer mounting bracket
- 7 Gearmotor assembly
- 8 Hex head cap screw 5 / 16 18 x 2
- 9 Hex head cap screw 5 / 16 18 x 1.25 (x4)
- 10 Hex head cap screw 5 / 16 18 x 2

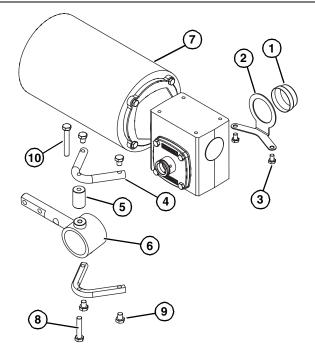


Figure 3

1. Insert the drive spindle key (**Figure 4, item 1**) into the drive spindle keyway (**Figure 4, item 2**).

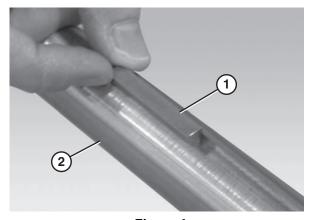


Figure 4

2. Slide the gearmotor assembly (**Figure 5, item 1**) onto the drive spindle (**Figure 5, item 2**).

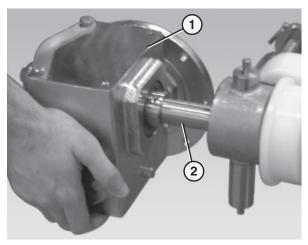


Figure 5

 Attach the upper gear reducer mounting bar (Figure 6, item 1) to the gearmotor assembly (Figure 6, item 2).

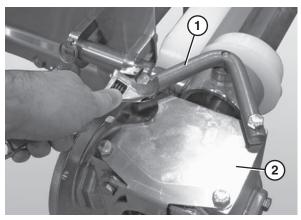


Figure 6

- 4. Attach the lower gear reducer mounting bar to the gearmotor assembly.
- 5. Tighten the drive spindle fasteners (**Figure 7**, **item 1**) located on the inside and outside of the gearmotor using a hex wrench (**Figure 7**, **item 2**).

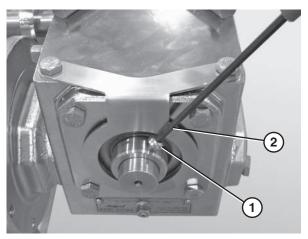


Figure 7

6. Attach the gearmotor cover (**Figure 8, item 1**).

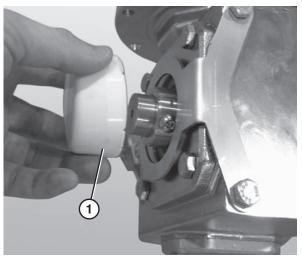


Figure 8

7. Remove the drainage plugs (**Figure 9, item 1**) on the bottom side of the motor.



Figure 9

CE Version Horizontal Drive Package

WARNING OFVERE HAZARRI

SEVERE HAZARD!

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



Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

Horizontal Drive Mounting Positions

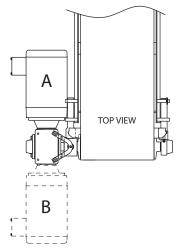


Figure 10

Typical Horizontal Drive Package Components (Figure 11)

- Motor Mounting bracket
- 2 Upper Gearhead Mounting Bar
- 3 Lower Gearhead Mounting Bar
- 4 Upper Mounting Drive Spacer (x2)
- 5 Lower Mounting Drive Spacer
- 6 Bore Plug
- 7 Gearmotor Assembly
- 8 Hex head cap screw 5 / 16 18 x 0.75
- 9 Hex head cap screw 5 / 16 18 x 1.50
- 10 Socket head screw M10 0.50 x 35 mm
- 11 Hex head cap screw M8 1.25 x 20 mm (x8)

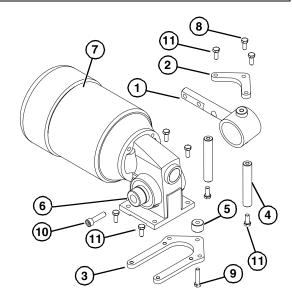


Figure 11

1. Insert the drive spindle key (**Figure 12, item 1**) into the drive spindle keyway (**Figure 12, item 2**).

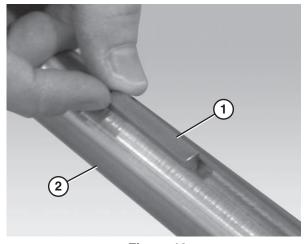


Figure 12

2. Slide the gearmotor assembly (**Figure 13, item 1**) onto the drive spindle (**Figure 13, item 2**).

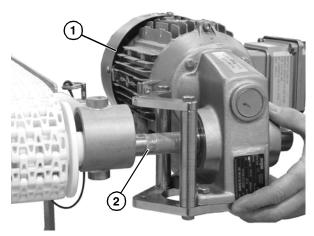


Figure 13

3. Attach the upper gearhead mounting bar (Figure 14, item 1) to the motor mounting bracket (Figure 14, item 2).

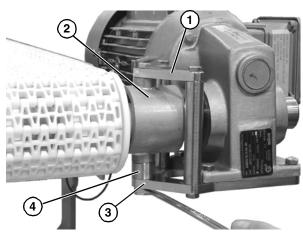


Figure 14

4. Attach the lower gearhead mounting bar (Figure 14, item 3) to the motor mounting bracket (Figure 14, item 2). Use Spacer (Figure 14, item 4)

5. Attach the bore plug (**Figure 15, item 1**) and tighten the socket head screw (**Figure 15, item 2**). Snap cover onto bore plug (**Figure 15, item 1**).

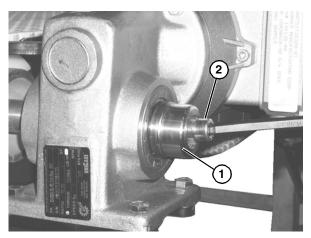


Figure 15

US Version Vertical Drive Package

A **WARNING**

SEVERE HAZARD!

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



Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

Vertical Drive Mounting Positions

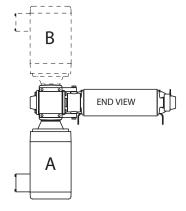


Figure 16

Typical Vertical Drive Package Components (Figure 17)

- Cover
- 2 Cover bracket
- 3 Hex head cap screw 5 / 16 - 18 x 0.50 (x4)
- 4 Gear reducer horizontal mounting bar (x2)
- 5 Vertical gear reducer mounting bracket
- 6 Hex head cap screw 5 / 16 - 18 x 1.25 (x6)
- 7 Gearmotor assembly

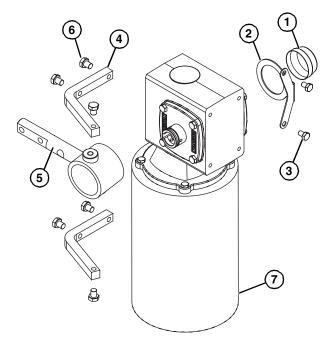


Figure 17

1. Insert the drive spindle key (Figure 18, item 1) into the drive spindle keyway (Figure 18, item 2).

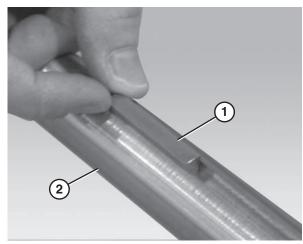


Figure 18

2. Slide the gearmotor assembly (Figure 19, item 1) onto the drive spindle (Figure 19, item 2).

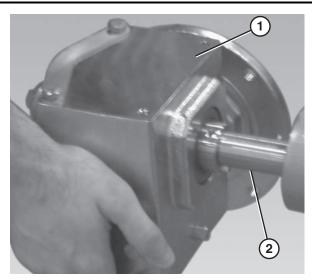


Figure 19

3. Attach the gear reducer mounting bars (Figure 20, item 1) to the gear reducer mounting bracket (Figure 20, item 2).

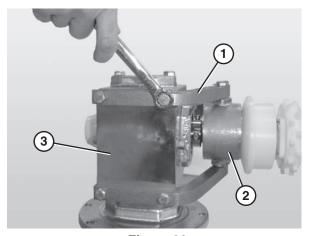


Figure 20

4. Attach the gearmotor assembly (**Figure 20, item 3**) to the gear reducer mounting bars (**Figure 20, item 1**).

5. Tighten the drive spindle fasteners (**Figure 21**, **item 1**) located on the inside and outside of the gearmotor using a hex wrench (**Figure 21**, **item 2**).

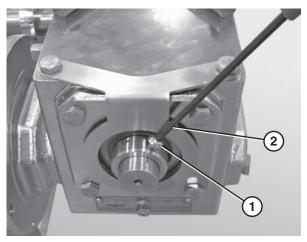


Figure 21

6. Attach the gearmotor cover (Figure 22, item 1).

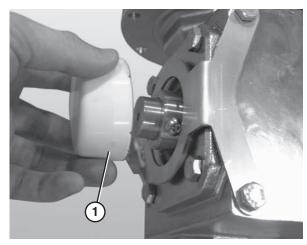


Figure 22

7. Remove the drainage plugs (**Figure 23, item 1**) on the bottom side of the motor.



Figure 23

CE Version Vertical Drive Package



LOCK OUT POWER before removing guards

or performing maintenance. Exposed moving parts can cause serious injury.



causing serious injury.

Vertical Drive Mounting Positions

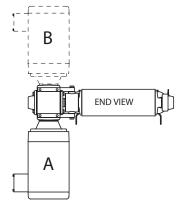


Figure 24

Typical Vertical Drive Package Components (Figure 25)

- Motor Mounting Bracket (Installed on Conveyor)
- 2 Vertical Drive Bent Bar, Left
- 3 Vertical Drive Bent Bar, Right
- 4 Bore Plug
- 5 Gearmotor Assembly
- 6 Hex Head Cap Screw, 5 / 16 18 x 1.00 (x2)
- 7 Socket Head Screw, M10 0.50 x 35 mm
- 8 Hex Head Cap Screw, M8 1.25 x 25 mm (x4)

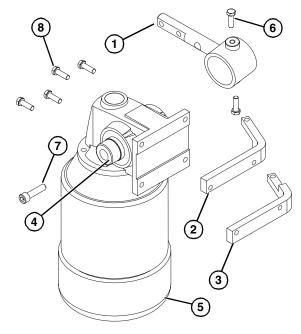


Figure 25

1. Insert the drive spindle key (**Figure 26, item 1**) into the drive spindle keyway (**Figure 26, item 2**).

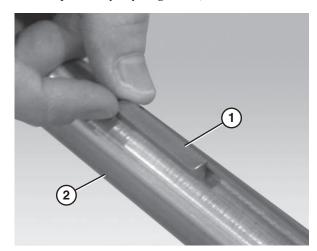


Figure 26

2. Slide the gearmotor assembly (**Figure 27**, **item 1**) onto the drive spindle (**Figure 27**, **item 2**).

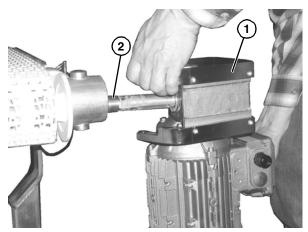


Figure 27

3. Attach the bent bars (**Figure 28, item 1**) to the motor mounting bracket (**Figure 28, item 2**).

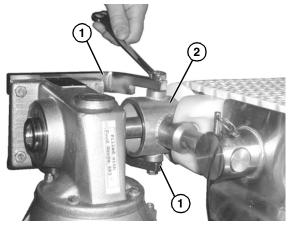


Figure 28

4. Attach the bore plug (**Figure 29, item 1**) and tighten the socket head screw (**Figure 29, item 2**). Snap cover onto bore plug (**Figure 29, item 1**).

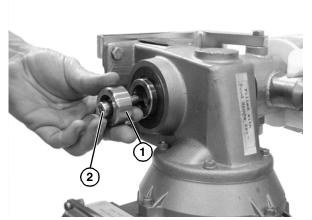


Figure 29

US Version Nose Bar Drive Package

WARNING CEVERE HAZARDI

SEVERE HAZARD!

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



Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

Nose Bar Drive Mounting Positions

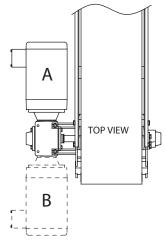


Figure 30

Typical Nose Bar Drive Package Components (Figure 31)

- l Cover
- 2 Cover bracket
- 3 Hex head cap screw 5 / 16 18 x 0.50 (x4)
- 4 Nose bar gear reducer mounting post (x2)
- 5 Hex head cap screw 5 / 16 18 x 1.25 (x4)
- 6 Hex head cap screw M10 1.5 x 16 mm (x2)
- 7 Gearmotor assembly

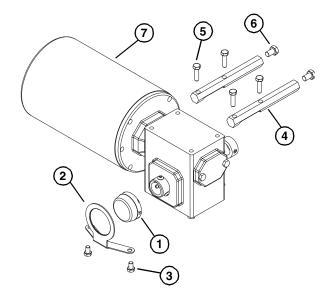


Figure 31

1. Attach the gear reducer mounting posts (Figure 32, item 1) to the nose bar side plate (Figure 32, item 2).

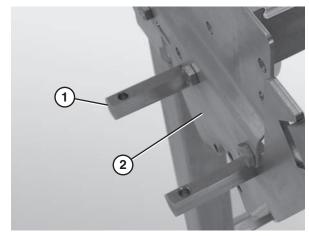


Figure 32

2. Insert the drive spindle key (**Figure 33, item 1**) into the drive spindle keyway (**Figure 33, item 2**).

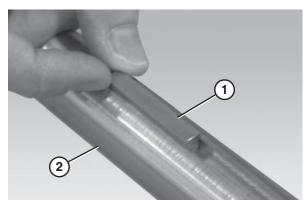


Figure 33

3. Slide the gearmotor assembly (**Figure 34, item 1**) onto the drive spindle (**Figure 34, item 2**).

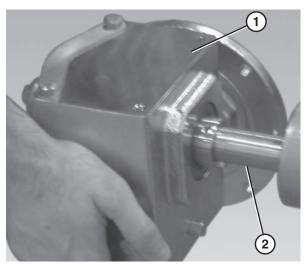


Figure 34

4. Attach the gearmotor assembly (**Figure 35, item 1**) to the gear reducer mounting posts (**Figure 35, item 2**).

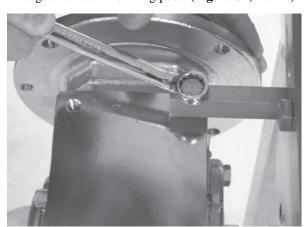


Figure 35

5. Tighten the drive spindle fasteners (**Figure 36**, **item 1**) located on the inside and outside of the gearmotor using a hex wrench (**Figure 36**, **item 2**).

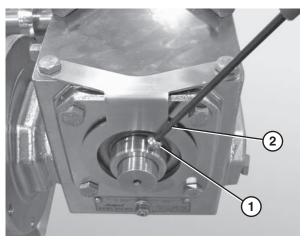


Figure 36

6. Attach the gearmotor cover (Figure 37, item 1).

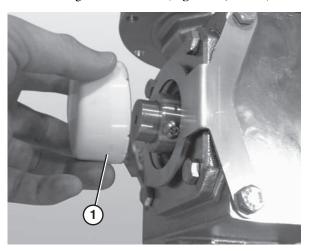


Figure 37

7. Remove the drainage plugs (**Figure 38, item 1**) on the bottom side of the motor.



Figure 38

CE Version Nose Bar Drive Package

₩ WARNING

SEVERE HAZARD!

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



PUNCTURE HAZARD!

Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

Nose Bar Drive Mounting Positions

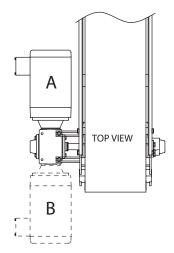


Figure 39

Typical Nose Bar Drive Package Components (Figure 40

- Bore Plug
- 2 Nose Bar Side Plate (Installed on Conveyor)
- 3 Gearhead Mounting Post (x2)
- 4 Gearmotor assembly
- 5 Socket head screw, M10 0.50 x 35 mm
- 6 Hex head cap screw, M8 1.25 x 30 mm (x4)
- 7 Hex head cap screw M10 1.50 x 16 mm (x2)

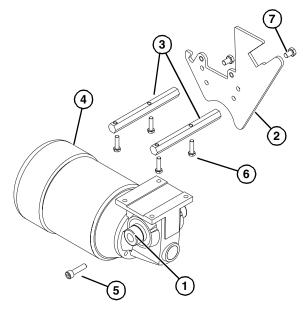


Figure 40

1. Attach the gear reducer mounting posts (Figure 41, item 1) to the nose bar side plate (Figure 41, item 2).

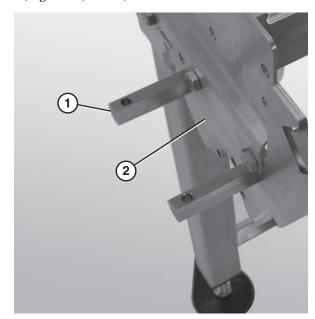


Figure 41

2. Insert the drive spindle key (**Figure 42, item 1**) into the drive spindle keyway (**Figure 42, item 2**).

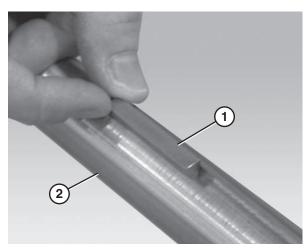


Figure 42

3. Slide the gearmotor assembly (**Figure 43, item 1**) onto the drive spindle (**Figure 43, item 2**).

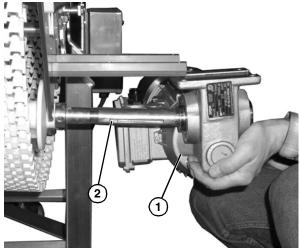


Figure 43

4. Attach the gearmotor assembly (**Figure 44, item 1**) to the gearhead mounting posts (**Figure 44, item 2**).

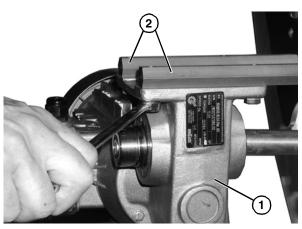


Figure 44

5. Attach the bore plug (**Figure 45, item 1**) and tighten the socket head screw (**Figure 45, item 2**). Snap cover onto bore plug (**Figure 45, item 1**).

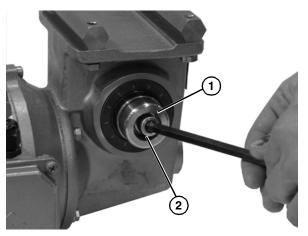


Figure 45

Required Tools

- 5 / 16 wrench
- 4 mm hex wrench
- 8 mm hex wrench
- 13 mm open end wrench
- Large flat-head screwdriver

Checklist

- Keep service parts on hand. Refer to the "Service Parts" section starting on page 26 for recommendations.
- Replace any worn or damaged parts.

US Version Gear Reducer Replacement



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



DO NOT TOUCH the motor while operating, or shortly after being turned off. Motors may be HOT and can cause serious burn injuries. 1. Remove the bolts that connect the motor (Figure 46, item 1) to the gear reducer (Figure 46, item 2).

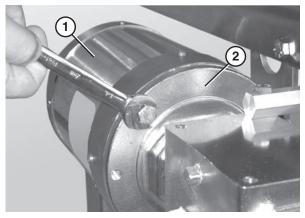


Figure 46



- SUPPORT MOTOR PRIOR TO LOOSENING THE BOLTS.
- Loosening motor bolts may cause it to drop down, causing serious injury.
- 2. Detach the motor (**Figure 47**, **item 1**) from the gear reducer (**Figure 47**, **item 2**) and set the motor aside.

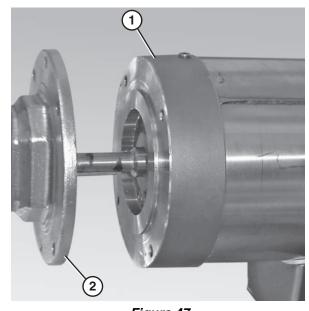


Figure 47

NOTE

Be sure to retain the motor output shaft key.

3. Remove the gearmotor cover (**Figure 48, item 1**). Use a screwdriver to pry it loose, if necessary.

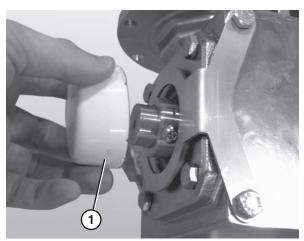


Figure 48

4. Loosen the drive spindle fasteners (**Figure 49, item 1**) located on the inside and outside of the gearmotor assembly using a hex wrench (**Figure 49, item 2**).

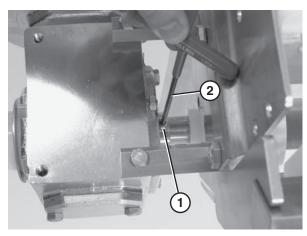


Figure 49

Unbolt the gear reducer mounting bars / posts
 (Figure 50, item 1) from the gear reducer
 (Figure 50, item 2) (horizontal drive shown in figure).

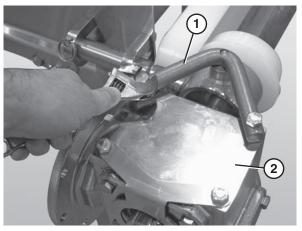


Figure 50



Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

6. Slide the gearmotor assembly (**Figure 51, item 1**) off the drive spindle (**Figure 51, item 2**).

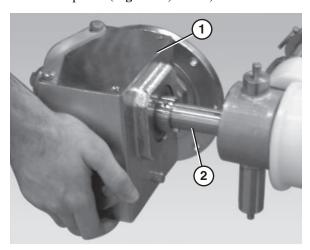


Figure 51

NOTE

Be sure to retain the drive spindle key.

7. Replace the gear reducer.

8. Insert the gearmotor output shaft key (Figure 52, item 1) into the gearmotor output shaft keyway (Figure 52, item 2).

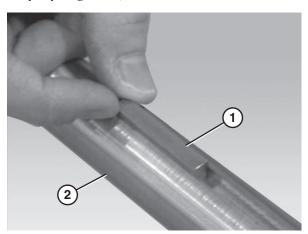


Figure 52

9. Connect the new gear reducer to the motor.

CAUTION

Ensure the O-ring (Figure 53, item 1) and gearmotor output shaft key (Figure 52, item 1) are situated properly before attaching the motor to the gear reducer.

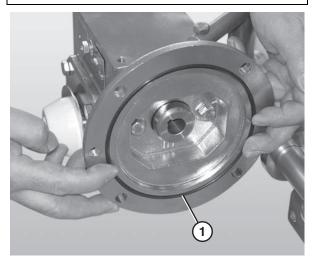


Figure 53

10. Reinstall the gearmotor assembly. Refer to "Drive Package Installation" starting on page 7.

CE Version Gearmotor Replacement



SEVERE HAZARD!

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



DO NOT TOUCH the motor while operating, or shortly after being turned off. Motors may be HOT and can cause serious burn injuries.



 Loosen the screws and remove the cover (Figure 54, item 1) from the junction box located on the side of the motor (Figure 54, item 2).

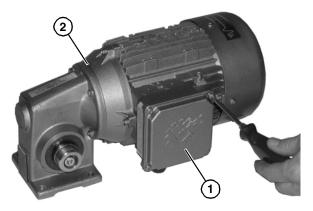


Figure 54

2. Refer to the wiring diagram (**Figure 55, item 1**) on the inside of the junction box cover.

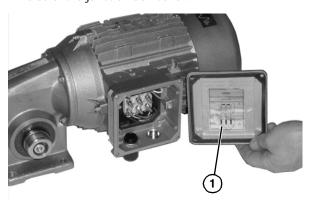


Figure 55

- 3. Loosen the wire terminals and disconnect the wires.
- 4. Loosen the cord grip and remove the cord.



- SUPPORT MOTOR PRIOR TO LOOSENING THE BOLTS.
- Loosening motor bolts may cause it to drop down, causing serious injury.

5. Remove the bolts that connect the gearmotor (Figure 56, item 1) to the gearhead mounting posts (Figure 56, item 2).

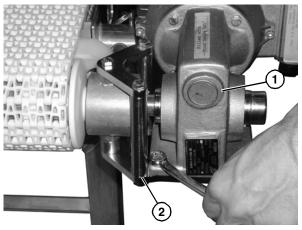


Figure 56

6. Remove the plastic cap on the end of the motor and remove the socket head screw (**Figure 57**, **item 1**) and the bore plug (**Figure 57**, **item 2**).

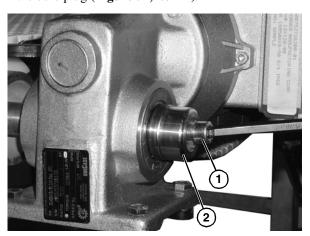


Figure 57

NOTE

Be sure to retain the motor output shaft key.

7. Slide the gearmotor off of the drive spindle.

US Version Motor Replacement

WARNING



SEVERE HAZARD!

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

⚠ WARNING



BURN HAZARD!

DO NOT TOUCH the motor while operating, or shortly after being turned off. Motors may be HOT and can cause serious burn injuries.

A DANGER



ELECTRICAL HAZARD!

LOCK OUT POWER BEFORE WIRING.

Exposure to high voltage current can cause death or serious injury.

 Loosen the screws and remove the cover (Figure 58, item 1) from the junction box located on the side of the motor (Figure 58, item 2).

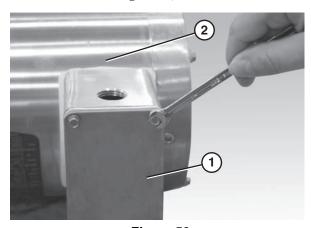


Figure 58

2. Refer to the wiring diagram (**Figure 59, item 1**) on the inside of the junction box cover.

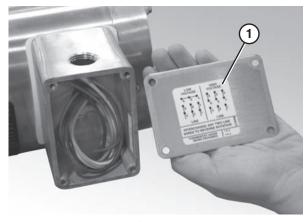


Figure 59

- 3. Loosen the wire nuts and disconnect the wires.
- 4. Loosen the cord grip and remove the cord.

▲ WARNING

CRUSH HAZARD!

- SUPPORT MOTOR PRIOR TO LOOSENING THE BOLTS.
- Loosening motor bolts may cause it to drop down, causing serious injury.
- 5. Remove the bolts that connect the motor (Figure 60, item 1) to the gear reducer (Figure 60, item 2).

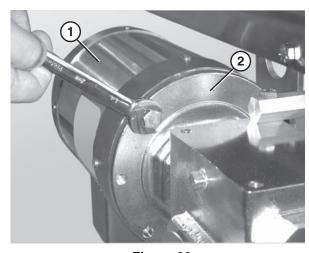


Figure 60

6. Detach the motor (**Figure 61, item 1**) from the gear reducer (**Figure 61, item 2**).

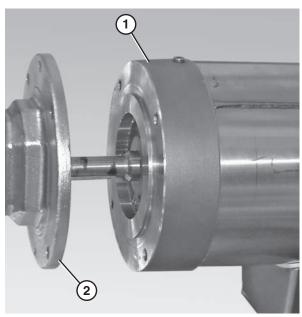


Figure 61

NOTE

Be sure to retain the motor output shaft key.

7. Insert the motor output shaft key (**Figure 62, item 1**) into the motor output shaft keyway (**Figure 62, item 2**).

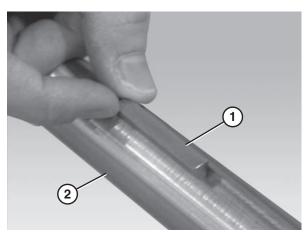


Figure 62

8. Align the motor output shaft key with the access hole in the gear reducer and connect the new motor to the gear reducer.

A CAUTION

Ensure the O-ring (Figure 63, item 1) and motor output shaft key (Figure 63, item 1) are situated properly before attaching the motor to the gear reducer.

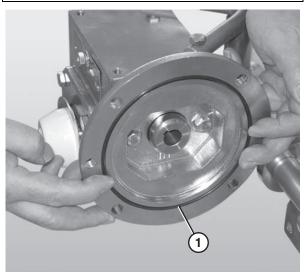


Figure 63

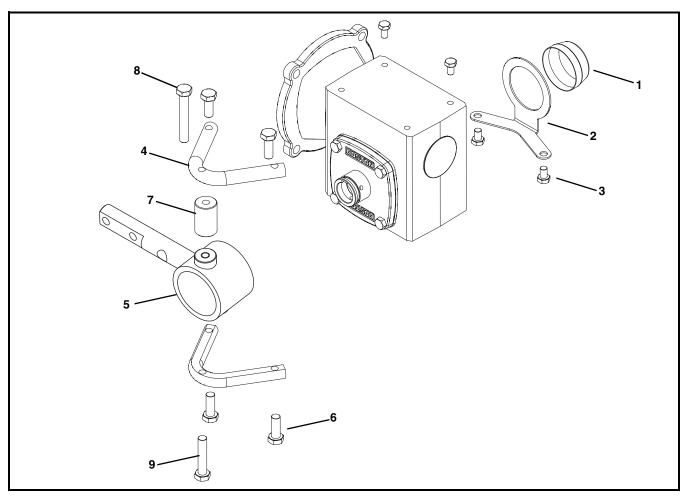
9. Rewire the motor and attach the junction box cover.

NOTES

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.

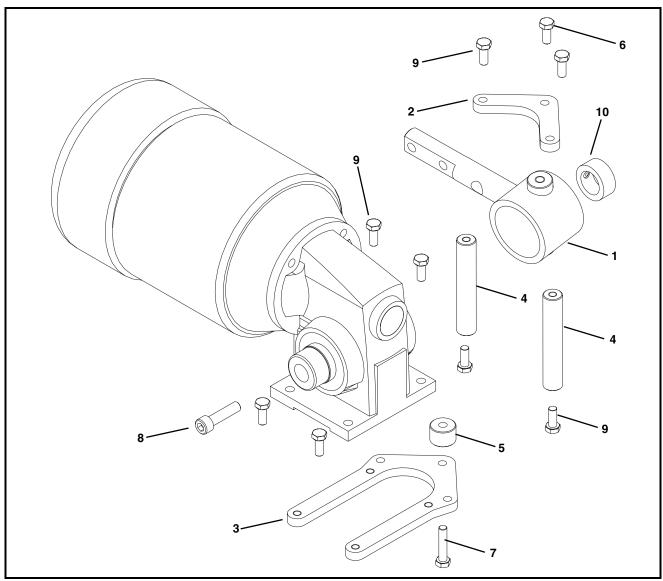
US Version Horizontal Drive



Item	Part Number	Description
1	807-1454	Cover
2	500492	Cover Bracket
3	906-067SS	Hex Head Cap Screw, 5/16-18x0.50
4	500380	Gear Reducer Mounting Bent Bar
5	506368	Motor Mounting Bracket (7400 Series)
	506395	Motor Mounting Bracket (7400 Ultimate Series)

Item	Part Number	Description
6	906-061SS	Hex Head Cap Screw, 5/16-18 x 0.75
7	500375	Horizontal Drive Spacer
8	906-072SS	Hex Head Cap Screw, 5/16-18 x 2.50
9	906-070SS	Hex Head Cap Screw, 5/16-18 x 1.12

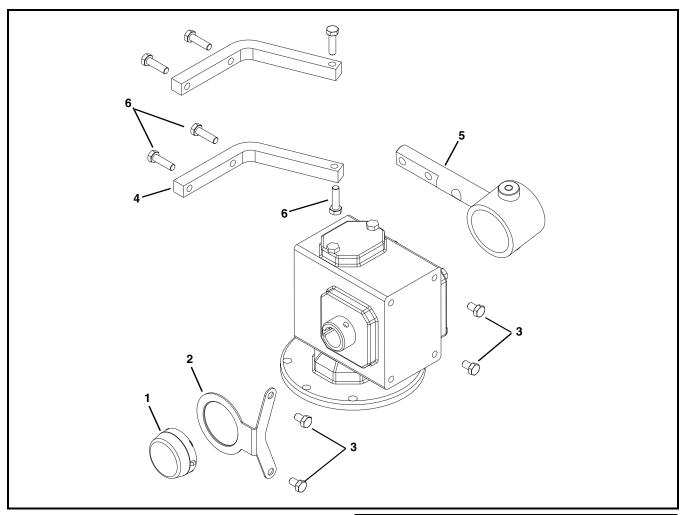
CE Version Horizontal Drive



Item	Part Number	Description
1	506368	Motor Mounting Bracket (7400 Series)
	506395	Motor Mounting Bracket (7400 Ultimate Series)
2	506202	Upper Gearhead Mounting Bar
3	506203	Lower Gearhead Mounting Bar
4	506204	Upper Mounting Drive Spacer
5	506205	Lower Mounting Drive Spacer

Item	Part Number	Description
6	906-061SS	Hex Head Cap Screw, 5/16-18 x 0.75
7	906-064SS	Hex Head Cap Screw, 5/16-18 x 1.50
8	921040MSS	Socket Head Screw, M10 - 0.50 x 35 mm
9	960820MSS	Hex Head Cap Screw, M8 - 1.25 x 20 mm
10	807-1817	Set Screw Collar

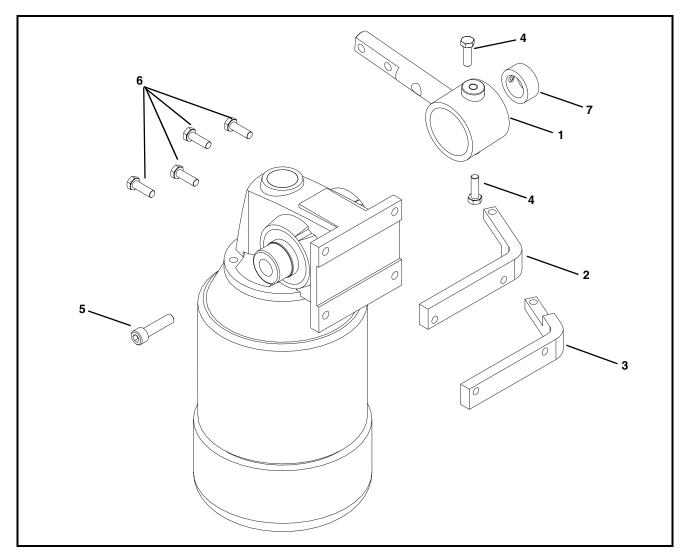
US Version Vertical Drive



Item	Part Number	Description
1	807-1454	Cover
2	500492	Cover Bracket
3	906-067SS	Hex Head Cap Screw, 5/16-18x0.50
4	500381	Vertical Drive Bent Bar

Item	Part Number	Description
5	506368	Motor Mounting Bracket (7400 Series)
	506395	Motor Mounting Bracket (7400 Ultimate Series)
6	906-070SS	Hex Head Cap Screw, 5/16-18 x 1.12

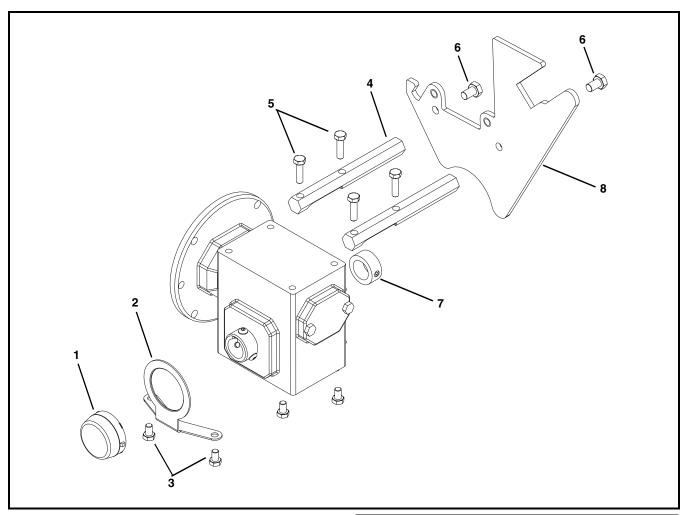
CE Version Vertical Drive



Item	Part Number	Description
1	506368	Motor Mounting Bracket (7400 Series)
	506395	Motor Mounting Bracket (7400 Ultimate Series)
2	506200	Vertical Drive Bent Bar, Left
3	506201	Vertical Drive Bent Bar, Right

Item	Part Number	Description
4	906-063SS	Hex Head Cap Screw, 5/16 - 18 x 1.00
5	921040MSS	Socket Head Screw, M10 - 0.50 x 35 mm
6	960825MSS	Hex Head Cap Screw, M8 - 1.25 x 25 mm
7	807-1817	Set Screw Collar

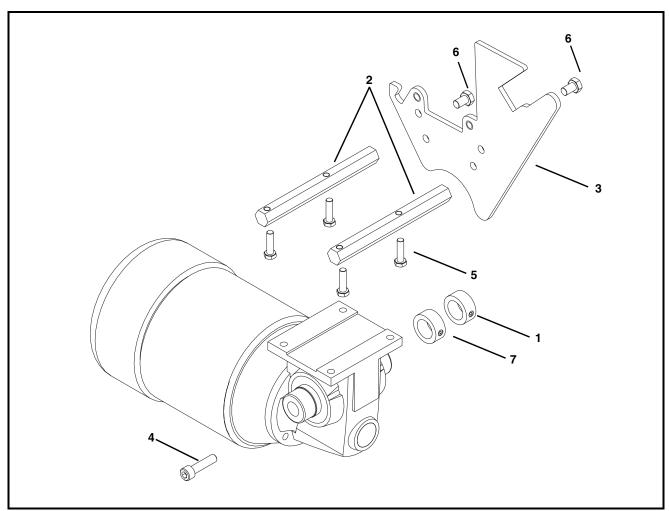
US Version Nose Bar Drive



Item	Part Number	Description
1	807-1454	Cover
2	500492	Cover Bracket
3	906-067SS	Hex Head Cap Screw, 5/16-18x0.50
4	500485	Nose Bar Gear Reducer Mounting Posts (7400 Series Only)
5	906-070SS	Hex Head Cap Screw, 5/16-18 x 1.12
6	961016MSS	Hex Head Cap Screw, M10-1.5x16 mm (7400 Series Only)
7	807-1458	Set Screw Collar

Item	Part Number	Description
8	500280	Side Plate (7400 Series)
	501390	Side Plate Assembly A-Position (7400 Ultimate - Straight Conveyors)
	501395	Side Plate Assembly A-Position (7400 Ultimate - Curve Conveyors)
	501491	Side Plate Assembly D-Position (7400 Ultimate - Straight Conveyors)
	501493	Side Plate Assembly D-Position (7400 Ultimate - Curve Conveyors)

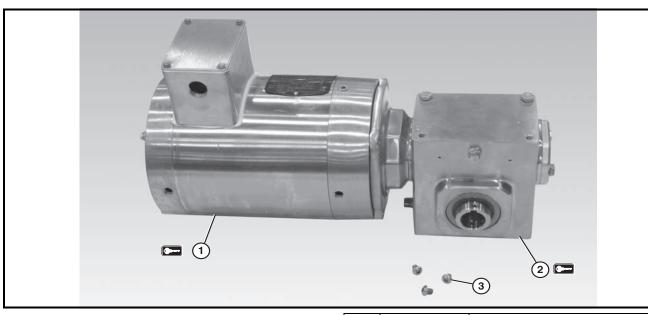
CE Version Nose Bar Drive



Item	Part Number	Description
1	807-1458	Set Screw Collar
2	506206	Gearhead Mounting Post (7400 Series Only)
3	506214	Nose Bar Side Plate, for 7400 Series, Straight Conveyors
	506207	Nose Bar Side Plate, for 7400 Series, Curve Conveyors
	506224	Nose Bar Side Plate, A-Position, for 7400 Ultimate, Straight Conveyors
	506225	Nose Bar Side Plate, D-Position, for 7400 Ultimate, Straight Conveyors
	506226	Nose Bar Side Plate, A-Position, for 7400 Ultimate, Curve Conveyors
	506227	Nose Bar Side Plate, D-Position, for 7400 Ultimate, Curve Conveyors

Item	Part Number	Description
4	921040MSS	Socket Head Screw, M10 - 0.50 x 35 mm
5	960830MSS	Hex Head Cap Screw, M8 - 1.25 x 30 mm
6	961016MSS	Hex Head Cap Screw, M10 - 1.50 x 16 mm (7400 Series Only)
7	807-1817	Set Screw Collar

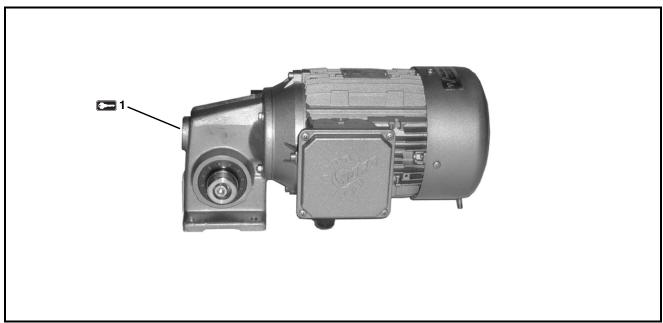
US Version Gearmotor Assembly



Item	Part Number	Description
1	62MZ411	Painted Motor, 0.50 Hp (0.37Kw) 115 Volts, 60Hz, 1 Phase
	62MZ423	Painted Motor, 0.50 Hp (0.37Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MHS423-10	Painted Motor, 1.00 Hp (0.74Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MHS423-15	Painted Motor, 1.50 Hp (1.11Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	62MZS423	Stainless Steel Motor, 0.50 Hp (0.37Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MZS423-10	Stainless Steel Motor, 1.00 Hp (0.74Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MZS423-15	Stainless Steel Motor, 1.50 Hp (1.11Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase

Item	Part Number	Description
2	74M005HS	Painted Gear Reducer, 5:1, 56C
	74M007HS	Painted Gear Reducer, 7:1, 56C
	74M010HS	Painted Gear Reducer, 10:1, 56C
	74M015HS	Painted Gear Reducer, 15:1, 56C
	74M020HS	Painted Gear Reducer, 20:1, 56C
	74M030HS	Painted Gear Reducer, 30:1, 56C
	74M040HS	Painted Gear Reducer, 40:1, 56C
	74M060HS	Painted Gear Reducer, 60:1, 56C
	74M080HS	Painted Gear Reducer, 80:1, 56C
	74M005HZ	Stainless Steel Gear Reducer, 5:1, 56C
	74M007HZ	Stainless Steel Gear Reducer, 7:1, 56C
	74M010HZ	Stainless Steel Gear Reducer, 10:1, 56C
	74M015HZ	Stainless Steel Gear Reducer, 15:1, 56C
	74M020HZ	Stainless Steel Gear Reducer, 20:1, 56C
	74M030HZ	Stainless Steel Gear Reducer, 30:1, 56C
	74M040HZ	Stainless Steel Gear Reducer, 40:1, 56C
	74M060HZ	Stainless Steel Gear Reducer, 60:1, 56C
	74M080HZ	Stainless Steel Gear Reducer, 80:1, 56C
3	917-104	Stainless Steel Socket Head Cap Screw 10-32 x 0.25 for Painted Gearmotor
	916-126	Stainless Steel Button Head Cap Screw 1/4-20 x 0.31 for Stainless Steel Gearmotor

CE Version Gearmotor Assembly



Item	Part Number	Description
1	74U060HS423FN	Motor, 0.37Kw (0.5 Hp), 23 RPM, 50Hz
	74U030HS423FN	Motor, 0.74Kw (1.00 Hp), 46 RPM, 50Hz
	74U025HS423FN	Motor, 0.74Kw (1.00 Hp), 55 RPM, 50Hz
	74U015HS423FN	Motor, 1.11Kw (1.50 Hp), 93 RPM, 50Hz
	74U010HS423FN	Motor, 1.11Kw (1.50 Hp), 140 RPM, 50Hz
	74U007HS423FN	Motor, 1.49Kw (2.00 Hp), 186 RPM, 50Hz
	74U005HS423FN	Motor, 1.49Kw (2.00 Hp), 279 RPM, 50Hz
	74U060HS423EN	Motor, 0.37Kw (0.5 Hp), 23 RPM, 50Hz, 230/400 Volts
	74U030HS423EN	Motor, 0.74Kw (1.00 Hp), 46 RPM, 50Hz, 230/400 Volts
	74U025HS423EN	Motor, 0.74Kw (1.00 Hp), 55 RPM, 50Hz, 230/400 Volts
	74U015HS423EN	Motor, 1.11Kw (1.50 Hp), 93 RPM, 50Hz, 230/400 Volts
	74U010HS423EN	Motor, 1.11Kw (1.50 Hp), 140 RPM, 50Hz, 230/400 Volts
	74U007HS423EN	Motor, 1.49Kw (2.00 Hp), 186 RPM, 50Hz, 230/400 Volts
	74U005HS423EN	Motor, 1.49Kw (2.00 Hp), 279 RPM, 50Hz, 230/400 Volts

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

DORNER MFG. CORP.

975 Cottonwood Ave., PO Box 20 Hartland, WI 53029-0020 USA TEL 1-800-397-8664 (USA) FAX 1-800-369-2440 (USA) Internet: www.dorner.com

Outside the USA: TEL 1-262-367-7600 FAX 1-262-367-5827