



# **Sanitary Support Stands**

Installation, Maintenance and Parts Manual







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#### 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 7200 Series, 7300 Series, 7400 Series and 7600 Series conveyors are covered by Patent Nos. 5174435, 6109427 and corresponding patents and patent applications in other countries.

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

## Warnings - General Safety

#### **A** DANGER



#### **SEVERE HAZARD!**

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

#### **A** 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.

#### **A** DANGER



#### **SEVERE INJURY!**

- SUPPORTS MARKED WITH THIS SYMBOL MUST BE ANCHORED TO THE FLOOR.
- Supports not anchored to the floor will tip, causing serious injury or death.

#### **A** WARNING



#### **CRUSH HAZARD!**

- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing 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



#### **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 support stand components.

#### **Typical Components**

- Support stand
- 2 Stand mounting bracket
- 3 Clamp plate
- 4 Height adjustment point
- 5 Angle adjustment point
- 6 Optional casters
- 7 Optional diagonal brace

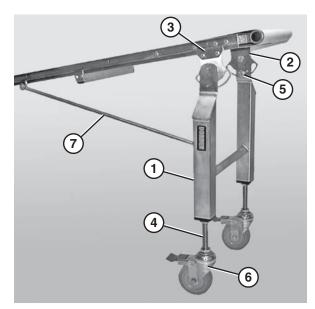
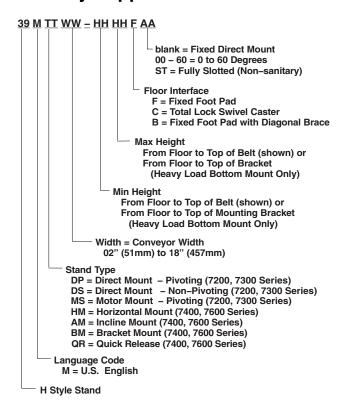


Figure 1

# **Specifications**

#### **Sanitary Support Stand Models**



#### **Example: 39MDS04-2226B**

AquaPruf<sup>®</sup> direct mount sanitary support stand for a 4" (102 mm) wide conveyor with a minimum height of 22" (559 mm) and a maximum height of 26" (660 mm). It comes with swivel foot pads, diagonal bracing, and U.S. English documentation.

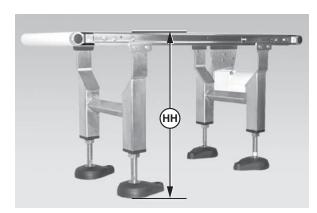


Figure 2

#### **Required Tools**

- Wrenches: 10 mm, 13 mm, 17 mm, 30 mm (for hex head cap screws)
- Level
- Torque wrench

#### **Recommended Installation** Sequence

- 1. Attach the stand(s) to the conveyor.
- 2. Attach the diagonal bracing, if applicable.
- Adjust the stand height and level.

#### **Stand Attachment to the Conveyor**



#### **SEVERE HAZARD!**

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

#### **Direct Mount Stands (DS Type)**

- 1. Properly support the conveyor or place the conveyor upside down on a flat surface.
- 2. Loosen the M6 clamp plate screws (Figure 3, item 1) on each side of the stand (Figure 3, item 2).

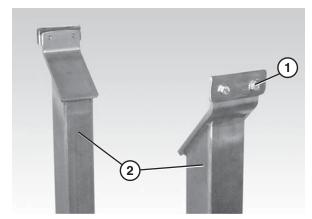


Figure 3

#### **CAUTION**

Make sure the conveyor (Figure 4, item 1) is seated between the clamp plate (Figure 4, item 2) and the lip (Figure 4, item 3) at the top of the stand (Figure 4, item 4) before tightening the clamp plate screws (Figure 4, item 5).

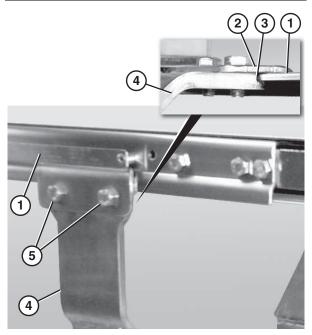


Figure 4



- MAKE SURE TO SECURE ALL STAND SCREWS.
- · Failure to do so may cause conveyor sections to drop down, causing serious
- 3. Attach the stand (Figure 4, item 4) to the conveyor (Figure 4, item 1) and tighten the four screws (Figure 4, item 5) to 80 in•lb (9 N•m).
- 4. Repeat steps 2 and 3 for the other stands.
- 5. Adjust the stand height. Refer to "Stand Height Adjustment" on page 11.

#### **Pivot Mount Stands (DP and AM Types)**

- 1. Properly support the conveyor or place the conveyor upside down on a flat surface.
- For slotted brackets, loosen the two bracket screws (Figure 5, item 1) and adjust the bracket (Figure 5, item 2) so that the top is at approximately the same angle as the conveyor. Do not tighten the screws.

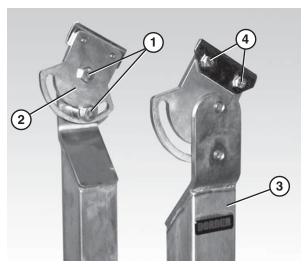


Figure 5

#### 7200 and 7300 Series

3. Loosen the two M6 clamp plate screws (Figure 5, item 4) on each side of the stand (Figure 5, item 3).

#### **CAUTION**

Make sure the conveyor (Figure 6, item 1) is seated between the clamp plate (Figure 6, item 2) and the lip (Figure 6, item 3) at the top of the stand (Figure 6, item 4) before tightening the clamp plate screws (Figure 6, item 5).

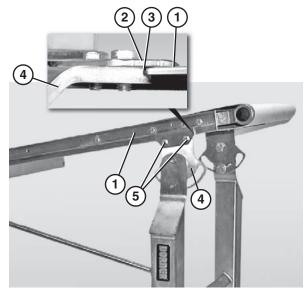


Figure 6

4. Attach the bracket (Figure 6, item 4) to the conveyor (Figure 6, item 1) and tighten the four screws (Figure 6, item 5) to 80 in•lb (9 N•m).



#### **CRUSH HAZARD!**

- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing serious injury.
- 5. Adjust the bracket angle on the slotted brackets (Figure 5, item 2) to match the conveyor angle and tighten the screws (Figure 5, item 1) to 50 ft•lb (72 N•m).
- 6. Repeat steps 2 and 4 for the other stands.
- 7. Adjust the stand height. Refer to "Stand Height Adjustment" on page 11.

#### 7400 and 7600 Series

- 8. Position the stand so that the holes in the brackets line up with the appropriate holes in the conveyor frame.
- 9. Attach the bracket (Figure 7, item 1) to the conveyor (Figure 7, item 2) using four M10-1.5 x 12 mm hex head cap screws (Figure 7, item 3).

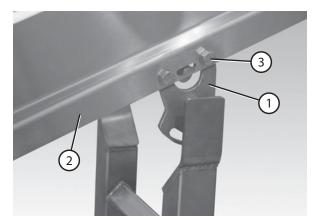


Figure 7

10. Tighten the four M10 screws (Figure 7, item 3) to 80 in•lb (9 N•m).



#### **CRUSH HAZARD!**

- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing serious injury.
- 11. Adjust the bracket angle on the slotted brackets (Figure 7, item 1) to match the conveyor angle and tighten the screws to 50 ft•lb (72 N•m).
- 12. Repeat steps 2 and 4 for the other stands.
- 13. Adjust the stand height. Refer to "Stand Height Adjustment" on page 11.

#### Pivot Mount Stand (MS Type) Connected to Heavy Load Drive Mount for 7200 and 7300 Series

- 1. Properly support the conveyor.
- 2. For slotted brackets, loosen the two bracket screws (Figure 8, item 1) and adjust the bracket (Figure 8, item 2) so that the top is at approximately the same angle as the conveyor. Do not tighten the screws.

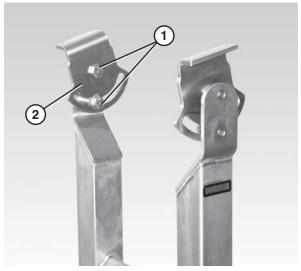


Figure 8

3. Attach both brackets (Figure 9, item 1) to the heavy mount gearhead support bars (Figure 9, item 2) using four M6 - 1.0 x 20 mm hex head cap screws (Figure 9, item 3).

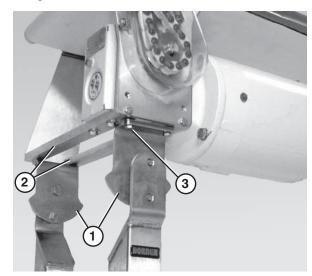


Figure 9

- 4. Tighten the heavy mount gearhead support bar screws (Figure 9, item 3) to 80 in•lb (9 N•m).
- 5. Tighten the bracket screws (Figure 9, item 1) to 50 ft•lb (72 N•m).

# **▲** WARNING

#### **CRUSH HAZARD!**

- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing serious injury.
- 6. Adjust the stand height. Refer to "Stand Height Adjustment" on page 11.

# Horizontal and Bracket Mount Stands (HM and BM Types) for 7400 and 7600 Series

- 1. Properly support the conveyor or place the conveyor upside down on a flat surface.
- 2. Attach the stand (Figure 10, item 1) to the conveyor (Figure 10, item 2) using four M10-1.5 x 12 mm hex head cap screws (Figure 10, item 3).

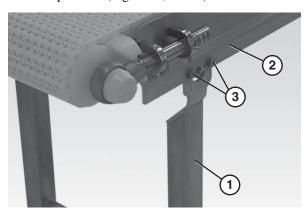


Figure 10

3. Tighten the stand screws (Figure 10, item 3) to 80 in•lb (9 N•m).

# **▲** WARNING

#### **CRUSH HAZARD!**

- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing serious injury.

4. Adjust the stand height. Refer to "Stand Height Adjustment" on page 11.

# Quick Release Stands (QR Type) for 7400 and 7600 Series

- 1. Properly support the conveyor.
- 2. Attach the non-quick release side of the stand (Figure 11, item 1) to the MOTOR SIDE of the conveyor (Figure 11, item 2) using two M10-1.5 x 12 mm hex head cap screws (Figure 11, item 3).

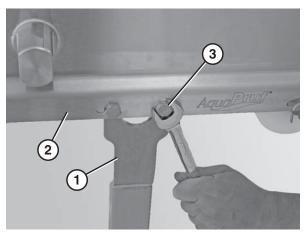


Figure 11

- 3. Tighten the screws (Figure 11, item 3) to 80 in•lb (9 N•m).
- 4. Loosen the inside knob (Figure 12, item 1) on the quick release side of the stand.

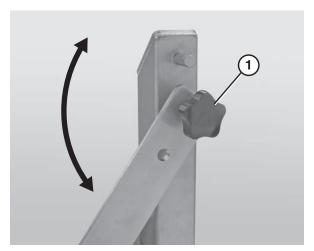


Figure 12

5. Rotate the bracket arm (Figure 13, item 1) so that the locking pin on the stand (Figure 13, item 2) and the locking pin on the frame (Figure 13, item 3) are positioned securely within the holes.

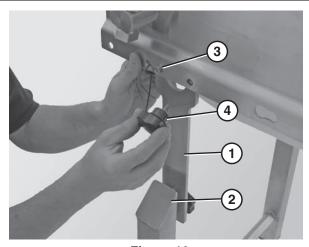


Figure 13

- 6. Secure the bracket arm to the stand by attaching the cutoff knob (Figure 13, item 4).
- 7. Tighten both knobs.



- SUPPORTS MARKED WITH THIS SYMBOL MUST BE ANCHORED TO THE FLOOR.
- Supports not anchored to the floor will tip, causing serious injury or death.



- MAKE SURE TO SECURE ALL STAND SCREWS.
- Failure to do so may cause conveyor sections to drop down, causing serious injury.

# **Diagonal Brace Attachment for 7200** and 7300 Series

1. Install the rod end (Figure 14, item 1) of the diagonal brace (Figure 14, item 2) on the stud (Figure 14, item 3) and secure it with an M8 acorn nut (Figure 14, item 4).

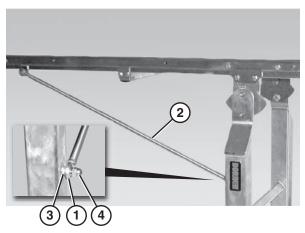


Figure 14

2. Slip the clip (Figure 15, item 1) onto the conveyor (Figure 15, item 2). Loosen the M6 screw (Figure 15, item 3), if necessary.

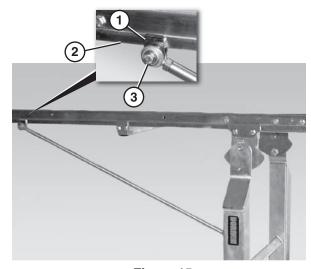


Figure 15

3. Tighten the M6 screw (Figure 15, item 3) to 80 in•lb (9 N•m).

# **Diagonal Brace Attachment for 7400** and 7600 Series

1. Attach the bracing bar (Figure 16, item 1) to the stand and secure it with an M10 acorn nut (Figure 16, item 2).

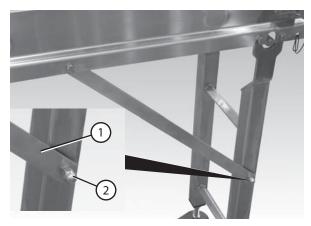


Figure 16

2. Attach the opposite end of the bracing bar (Figure 17, item 1) to the conveyor with an M10 screw (Figure 17, item 2).

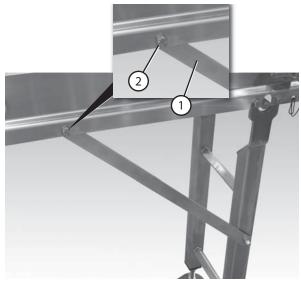


Figure 17

3. Tighten the screw and the acorn nut to 80 in•lb (9 N•m).

# **Preventive Maintenance and Adjustment**

#### **Stand Height Adjustment**

#### **Required Tools**

- 30 mm wrench
- 0 1 1/4" span adjustable wrench (stands with feet)
- Adjustable wrenches (stands with casters)
- Level

#### Stands with Feet



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

1. Loosen the nut (Figure 18, item 1) on the foot stem (Figure 18, item 2).

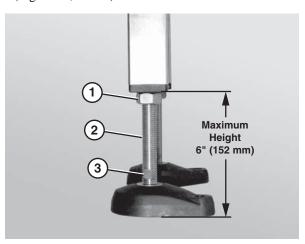


Figure 18



- DO NOT EXCEED THE MAXIMUM HEIGHT OF 6" (152 mm) from the floor to the bottom of the stand.
- Exceeding the maximum height will allow parts to separate and may cause serious injury.

- 2. Rotate the foot stem using an adjustable wrench on the foot stem flats (Figure 18, item 3) to raise or lower the stand to the desired height.
- 3. Repeat steps 1 and 2 on the opposite stand leg.
- 4. Use a level (Figure 19, item 1) to verify that both stand legs are the same height.

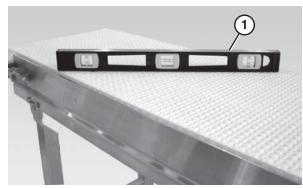


Figure 19

5. Tighten the nut (Figure 18, item 1) on the foot stem (Figure 18, item 2) to secure each foot assembly.

#### **Stands with Casters**



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

1. Loosen the upper nut (Figure 20, item 1) on the caster stem (Figure 20, item 2).

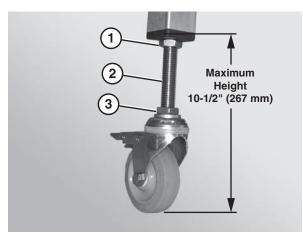


Figure 20

# **Preventive Maintenance and Adjustment**

# A WARNING

#### **SEVERE HAZARD!**

- DO NOT EXCEED THE MAXIMUM HEIGHT OF 10-1/2" (267 mm) from the floor to the bottom of the stand.
- Exceeding the maximum height will allow parts to separate and may cause serious injury.
- 2. Rotate the lower nut (Figure 20, item 3) on the caster stem (Figure 20, item 2) to raise or lower the stand to the desired height.
- 3. Repeat steps 1 and 2 on the opposite stand leg.
- 4. Use a level (Figure 21, item 1) to verify that both stand legs are the same height.

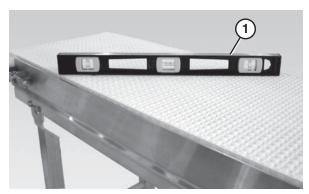


Figure 21

5. Tighten the nut on the caster stem to secure each caster assembly.

# Quick Release Stand - Pivoting / Disconnect



#### **WARNING**



#### **SEVERE HAZARD!**

- ONLY DISCONNECT ONE PIVOT BRACKET AT A TIME AND ONLY IF THE STANDS ARE BOLTED TO THE FLOOR.
- Disconnecting more than one pivot bracket at a time or not bolting the stands to the floor can cause the conveyor to tip and may result in serious injury.
- 1. Disconnect the cutoff knob (Figure 22, item 1).

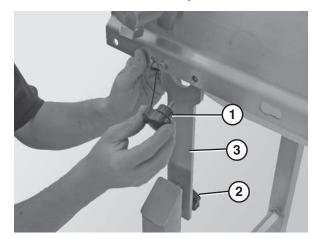


Figure 22

- 2. Loosen the lobed knob (Figure 22, item 2) and push in on the pivot bracket (Figure 22, item 3). *Note: The lobed knob will need to be loose enough that the locking pins are no longer holding the bracket in place.*
- 3. Lower the pivot bracket (Figure 23, item 1).

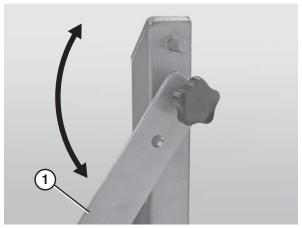


Figure 23

# **Preventive Maintenance and Adjustment**

#### **Conveyor Angle Adjustment**

#### NOTE

This procedure only applies to stands with slotted brackets.

#### **Required Tools**

- 10 and 17 mm wrenches (for hexagonal head screws)
- Torque wrench



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



#### **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.
- 1. Loosen the screw (Figure 24, item 1) on the diagonal brace (Figure 24, item 2), if applicable.

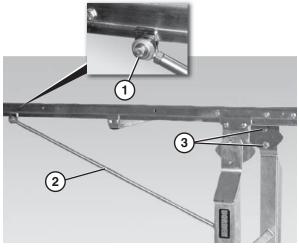


Figure 24

- 2. Loosen the bracket screws (Figure 24, item 3) on both sides of the stand.
- 3. Adjust the conveyor to the desired length and the stands to the desired angle.

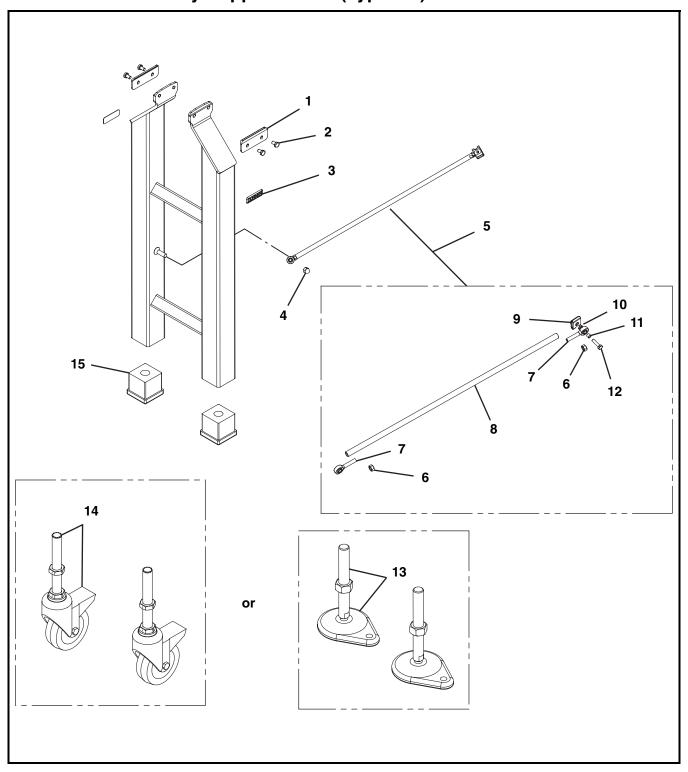


- 4. Tighten the bracket screws (Figure 24, item 3) to 50 ft•lb (72 N•m).
- 5. Tighten the screws on the diagonal brace, if applicable, to 80 in•lb (9 N•m).

#### **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.

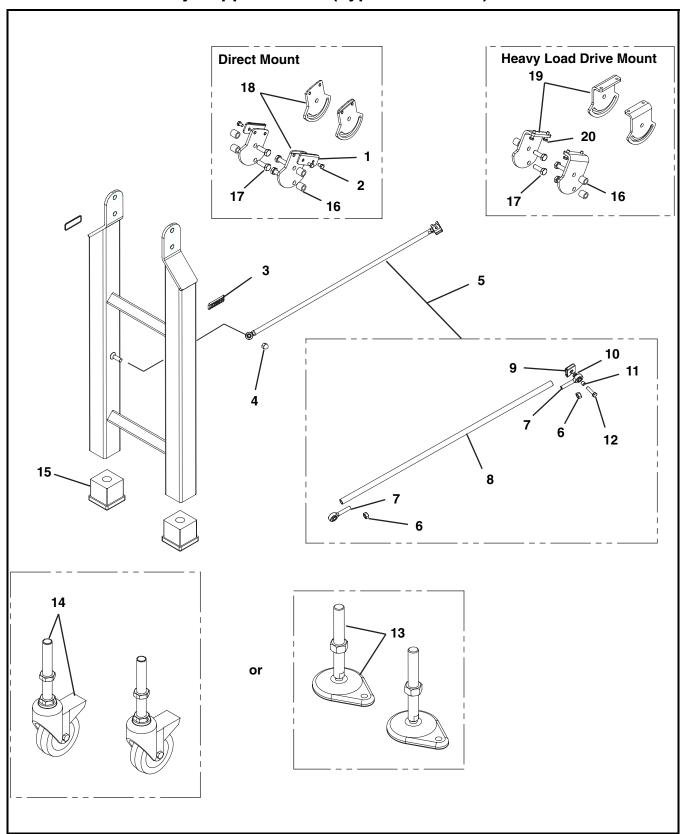
## **Direct Mount Sanitary Support Stand (Type DS)**



Item	Part Number	Description
1	492564SS	Clamp Plate (x2)
2	960610MSS	Hex Head Cap Screw M6-1.0 x 10 mm (x4)
3	240339	Dorner Nameplate (x2)
4	990808MSS	Acorn Nut M8-1.25
5	711119	Brace Assembly (Includes Items 6 through 12)
6	910-195	Hex Nut 5/16-18NF (x2)
7	801-131	Rod End Bearing SS (x2)
8	711117	Brace Tube

Item	Part Number	Description
9	450186MSS	Clip
10	990609MSS	Jam Nut M6-1.0
11	450226SSP	Sleeve
12	960625MSS	Hex Head Cap Screw M6-1.0 x 25 mm
13	807-1321	Teardrop Foot Assembly
14	458309	Caster Assembly
15	807-1304	Threaded Tube End

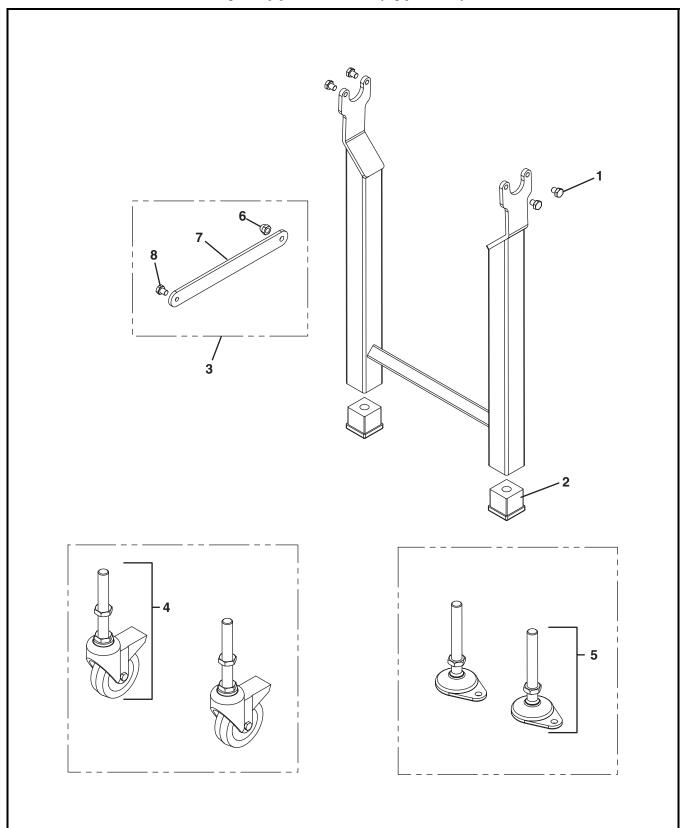
# **Pivot Mount Sanitary Support Stand (Type DP and MS)**



Item	Part Number	Decembries
		Description
1	492564SS	Clamp Plate (x2)
2	960610MSS	Hex Head Cap Screw M6-1.0 x
		10 mm (x4)
3	240339	Dorner Nameplate (x2)
4	990808MSS	Acorn Nut M8-1.25
5	711119	Brace Assembly (Includes Items 6
		through 12)
6	910-195	Hex Nut 5/16-18NF (x2)
7	801-131	Rod End Bearing SS (x2)
8	711117	Brace Tube
9	450186MSS	Clip
10	990609MSS	Jam Nut M6-1.0
11	450226SSP	Sleeve
12	960625MSS	Hex Head Cap Screw M6-1.0 x 25 mm
13	807-1321	Teardrop Foot Assembly
14	458309	Caster Assembly
15	807-1304	Threaded Tube End
16	458311	Post - 2" (51 mm) and 3" (76 mm)
	458310	Post - 4" (102 mm) through 18"
		(457 mm)

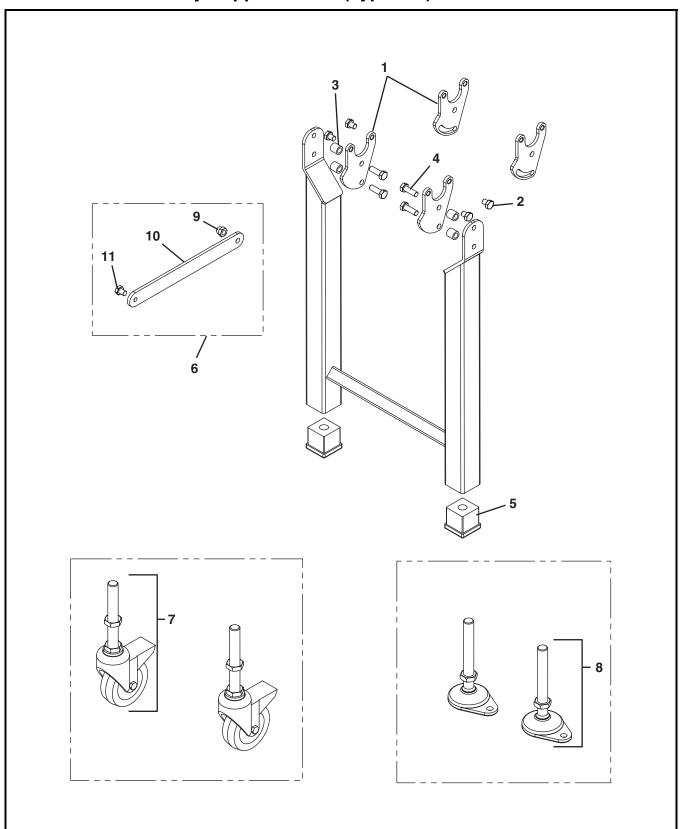
Item	Part Number	Description
item	Part Nulliber	Description
17	961045MSS	Hex Head Cap Screw, M10-1.5 x 45 mm
		- 2" (51 mm) and 3" (76 mm)
	961030MSS	Hex Head Cap Screw, M10-1.5 x 30 mm
		- 4" (102 mm) through 18" (457 mm)
18	458312L <u>AA</u> *	Fixed Angle, Direct Mount Pivot Bracket
		LH
	458312RAA*	Fixed Angle, Direct Mount Pivot Bracket
		RH
	450527**	Direct Mount Slotted Pivot Bracket
19	458307L <u>AA</u> *	Fixed Angle, Heavy Load Drive Mount
		Bracket LH
	458307R <u>AA</u> *	Fixed Angle, Heavy Load Drive Mount
		Bracket RH
	450526**	Heavy Load Drive Mount Slotted Bracket
20	960620MSS	Hex Head Cap Screw M6-1.0 x 20 mm
* AA = Angle 00 through 60 degrees in 01 degree increment		60 degrees in 01 degree increments
** Bracket slot provides mounting from 0 through 60 degrees		mounting from 0 through 60 degrees

# **Horizontal Mount Sanitary Support Stand (Type HM)**



Item	Part Number	Description
1	961012MSS	Hex Head Cap Screw M10-1.5 x 12 mm
2	807-1304	Threaded End Tube
3	39MB- <u>LLL</u>	Bracing Assembly (Includes Items 6 through 8)
4	458309	Caster Assembly
5	807-1321	Teardrop Foot Assembly
6	991008MSS	Acorn Nut M10-1.50
7	500287- <u>LLLLL</u>	Bracing Bar
8	961012MSS	Hex Head Cap Screw M10-1.5 x 12 mm
LLLLL = Bracing bar length in inches with two decimal places		
Exam	Example: Bracing bar length = 21.75" LLLLL = 02175	

# Incline Mount Sanitary Support Stand (Type AM)



Item	Part Number	Description	
1	500276- <u>AA</u>	Pivot Mount Plate	
	500276-ST	Slotted Pivot Mount Plate	
2	961012MSS	Hex Head Cap Screw M10-1.5x12 mm	
3	458310	Stand Post Standoff	
4	961030MSS	Hex Head Cap Screw M10-1.5 x 30 mm	
5	807-1304	Threaded End Tube	
6	39MB- <u>LLL</u>	Bracing Assembly (Includes Items 9	
		through 11)	
7	458309	Caster Assembly	
8	807-1321	Teardrop Foot Assembly	
9	991008MSS	Acorn Nut M10-1.50	
10	500287- <u>LLLLL</u>	Bracing Bar	
11	961012MSS	Hex Head Cap Screw M10-1.5 x 12 mm	
AA = Angle 00 through 60 in 01 degree increments			
LLLLL = Bracing bar length in inches with two decimal			
	places		
Example: Bracing bar length = 21.75" <u>LLLLL</u> = 02175			

LLL Length Formula

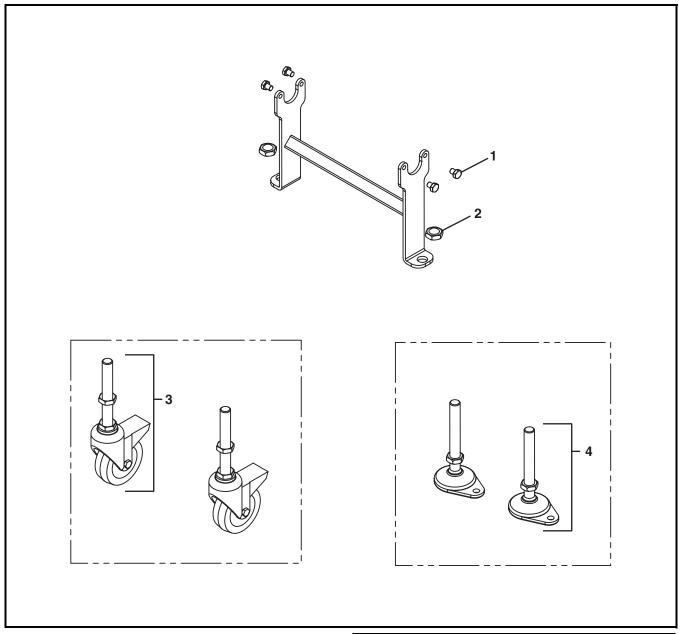
LLL = 
$$\frac{\text{LLLLL} - 125}{100}$$

with one decimal place

Example:  $\frac{\text{LLL}}{100} = \frac{02175 - 125}{100} = 20.5$ 

LLL = 205

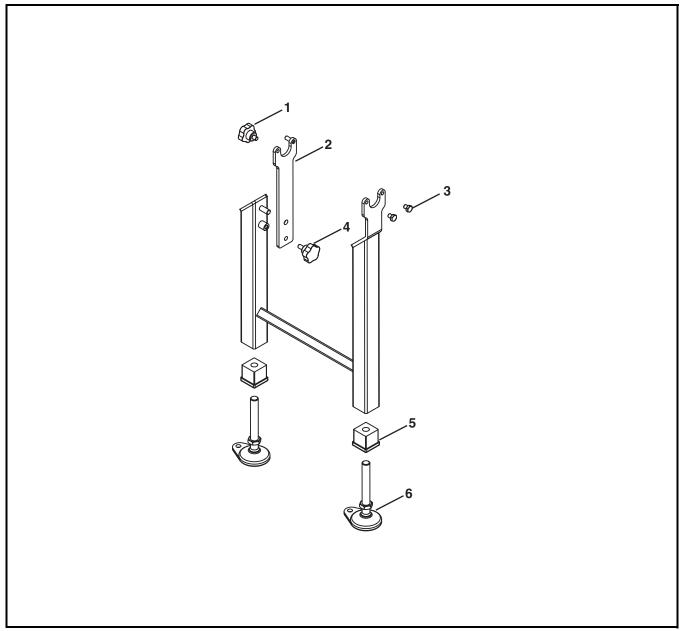
# **Bracket Mount Sanitary Support Stand (Type BM)**



Item	Part Number	Description
1	961012MSS	Hex Head Cap Screw M10-1.5 x 12 mm
2	992001MSS	Hex Nut M20-2.50

Item	Part Number	Description
3	458309	Caster Assembly
4	807-1321	Teardrop Foot Assembly

# **Quick Release Sanitary Support Stand (Type QR)**



Item	Part Number	Description
1	500885	Cutoff Knob
2	500886	Quick Disconnect Arm Assembly
3	961012MSS	Hex Head Cap Screw M10-1.50 x
		12 mm

Item	Part Number	Description
4	807-1538	5 Lobed Knob M10 x 20 mm
5	807-1304	Threaded Tube End
6	807-1321	Teardrop Foot Assembly

## **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.

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization number for reference.

There will be a return charge on all new undamaged items returned for credit where Dorner was not at fault. Dorner is not responsible for return freight on such items.

#### Conveyors and conveyor accessories

Standard catalog conveyors

MPB Series, cleated and specialty belt conveyors

7400 & 7600 Series conveyors

Engineered special products

Drives and accessories

Sanitary stand supports

30%

30%

30%

30%

30%

30%

**Parts** 

Standard stock parts 30% MPB, 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 Technical Sales, Catalog Sales and Service Teams 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. 2006

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