



Sanitary Support Stands

Installation, Maintenance and Parts Manual



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Introduction

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.

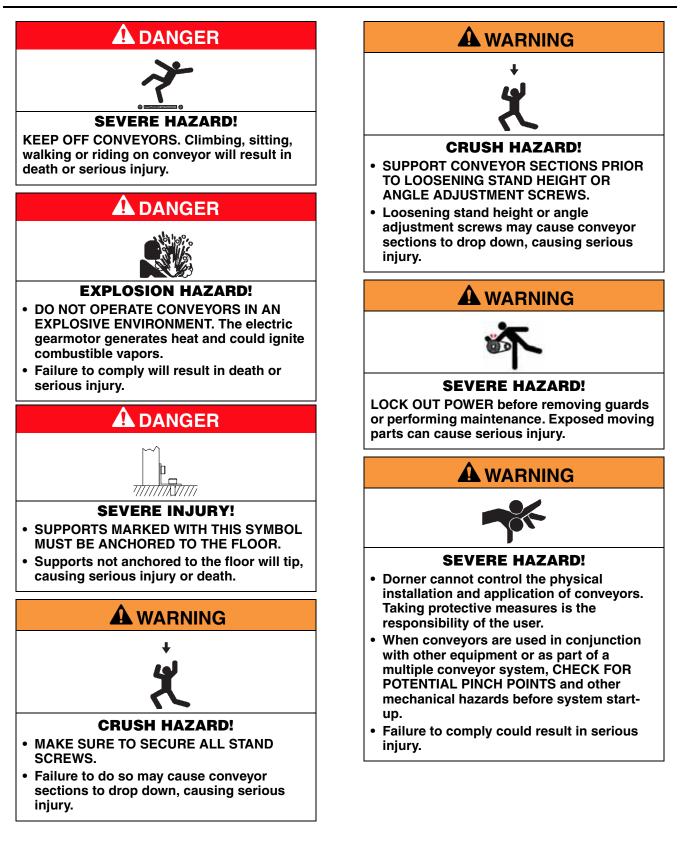
The Dorner Limited Warranty applies.

Dorner 7200 Series, 7300 Series and 7400 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.

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



Product Description

Refer to (Figure 1) for typical support stand components.

Typical Components

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

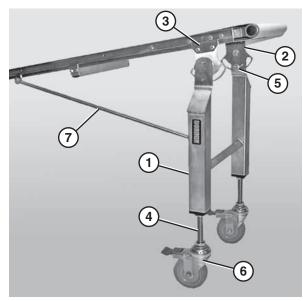
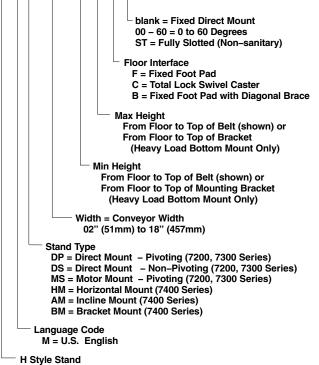


Figure 1

Specifications

Sanitary Support Stand Models

<u>39 M TT WW – HH HH F AA</u>



Example: 39MDS04-2226B

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

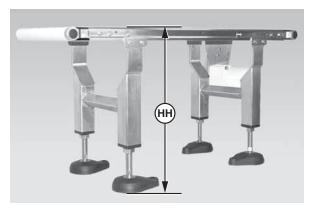


Figure 2

Installation

Installation

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.
- 3. Adjust the stand height and level.

Stand Attachment to the Conveyor



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).

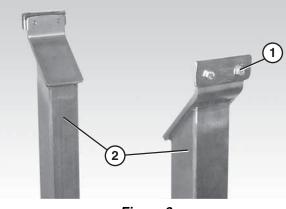


Figure 3

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).

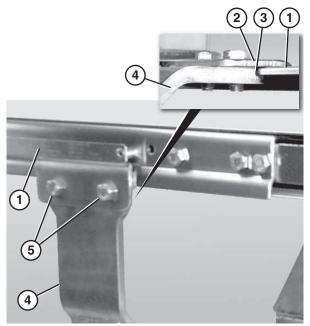


Figure 4

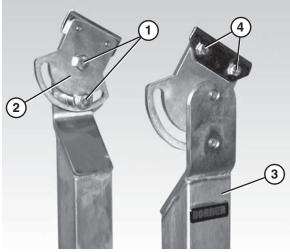


- Attach the stand (Figure 4, item 4) to the conveyor (Figure 4, item 1) and tighten the four screws (Figure 4, item 5) to 80 in•lb (9 N•m).
- 4. Repeat steps 2 and 3 for the other stands.
- 5. Adjust the stand height. Refer to "Stand Height Adjustment" on page 10.

Installation

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.





7200 and 7300 Series

 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).

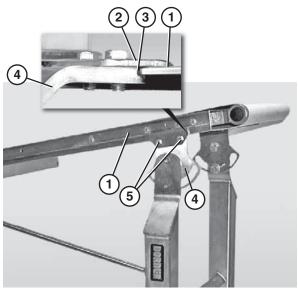


Figure 6

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).



- sections to drop down, causing serious injury. Adjust the bracket angle on the slotted brackets
- 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 10.

7400 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 12mm hex head cap screws (Figure 7, item 3).

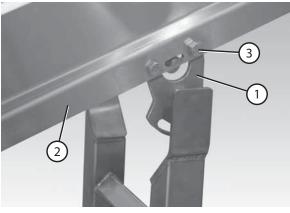


Figure 7

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



- 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 10.

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

- 1. Properly support the conveyor.
- 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.

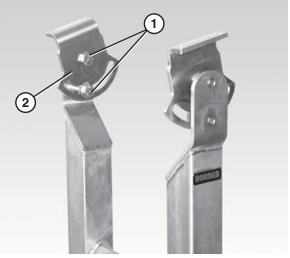


Figure 8

 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).

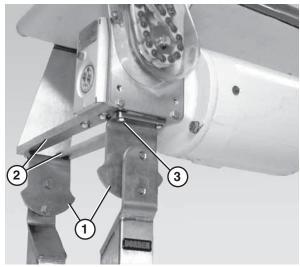


Figure 9

- 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)

Installation



6. Adjust the stand height. Refer to "Stand Height Adjustment" on page 10.

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

- 1. Properly support conveyor or place 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 12mm hex head cap screws (Figure 10, item 3).

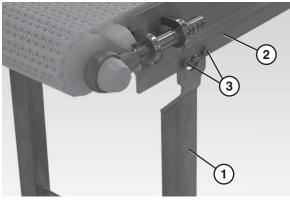


Figure 10

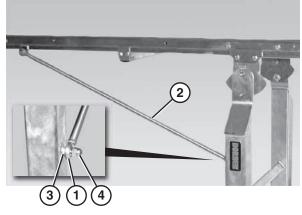
3. Tighten the stand screws (Figure 10, item 3) to 80 in•lb (9 N•m).



4. Adjust the stand height. Refer to "Stand Height Adjustment" on page 10.

Diagonal Brace Attachment for 7200 and 7300 Series

 Install the rod end (Figure 11, item 1) of the diagonal brace (Figure 11, item 2) on the stud (Figure 11, item 3) and secure it with an M8 acorn nut (Figure 11, item 4).





 Slip the clip (Figure 12, item 1) onto the conveyor (Figure 12, item 2). Loosen the M6 screw (Figure 12, item 3), if necessary.

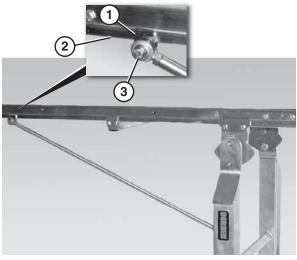


Figure 12

3. Tighten the M6 screw (Figure 12, item 3) to 80 in•lb (9 N•m).

Installation

Diagonal Brace Attachment for 7400 Series

1. Attach the bracing bar (Figure 13, item 1) to the stand and secure it with an M10 acorn nut (Figure 13, item 2).

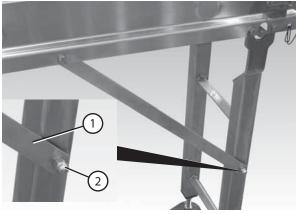


Figure 13

Attach the opposite end of the bracing bar 2. (Figure 14, item 1) to the conveyor with an M10 screw (Figure 14, item 2).

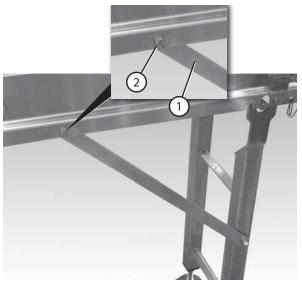


Figure 14

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



1. Loosen the nut (Figure 15, item 1) on the foot stem (Figure 15, item 2).

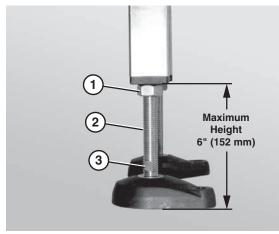


Figure 15



- 2. Rotate the foot stem using an adjustable wrench on the foot stem flats (Figure 15, 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 16, item 1) to verify that both stand legs are the same height.

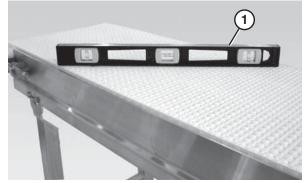


Figure 16

5. Tighten the nut (Figure 15, item 1) on the foot stem (Figure 15, item 2) to secure each foot assembly.

Preventive Maintenance and Adjustment

Stands with Casters



1. Loosen the upper nut (Figure 16, item 1) on the caster stem (Figure 16, item 2).

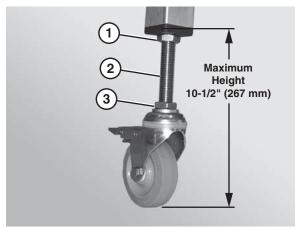


Figure 17



- 2. Rotate the lower nut (Figure 16, item 3) on the caster stem (Figure 16, 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 18, item 1) to verify that both stand legs are the same height.

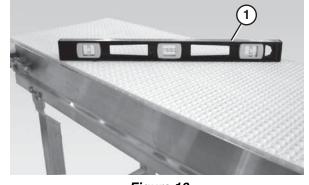


Figure 18

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

Preventive Maintenance and Adjustment

Conveyor Angle Adjustment

NOTE

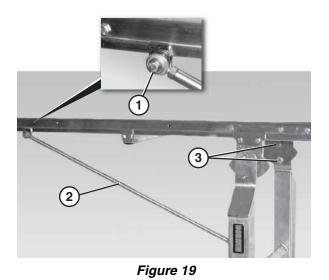
This procedure only applies to stands with slotted brackets.

Required Tools

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



1. Loosen the screw (Figure 19, item 1) on the diagonal brace (Figure 19, item 2), if applicable.



- 2. Loosen the bracket screws (Figure 19, item 3) on both sides of the stand.
- 3. Adjust the conveyor to the desired length and the stands to the desired angle.



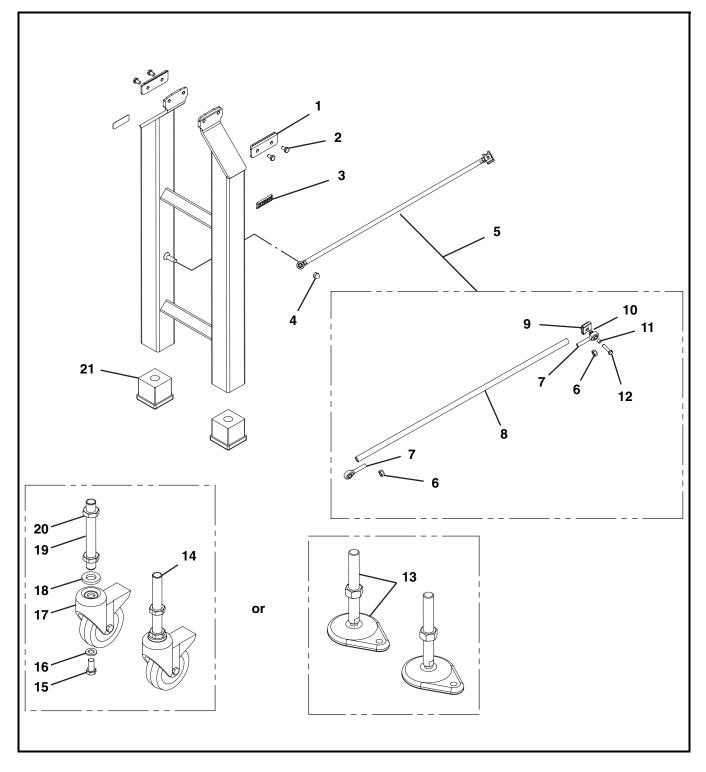
- Tighten the bracket screws (Figure 19, item 3) to 50 ft•lb (72 N•m)
- Tighten the screws on the diagonal brace, if applicable, to 80 in•lb (9 N•m).

Notes

NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory.

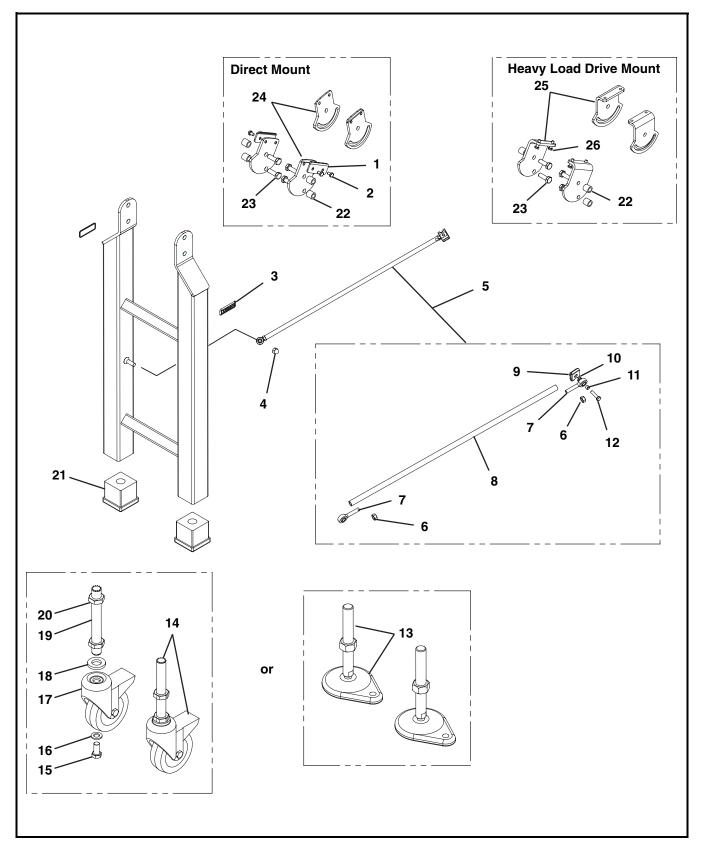
Direct Mount Sanitary Support Stand (Type DS)



Item	Part Number	Description
1	492564SS	Clamp Plate (x2)
2	960610MSS	Hex Head Cap Screw M6-1.0 x 10mm (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

Item	Part Number	Description
12	960625MSS	Hex Head Cap Screw M6-1.0 x 25mm
13	807-1321	Teardrop Foot Assembly
14	458309	Caster Assembly (Includes Items 15 through 20)
15	961225MSS	Hex Head Cap Screw M12-1.75 x 25mm
16	911-519	Washer
17	807-1322	Caster
18	911-520	Washer
19	458308	Caster Stem
20	992010MSS	Jam Nut M20-2.50 (2x)
21	807-1304	Threaded Tube End

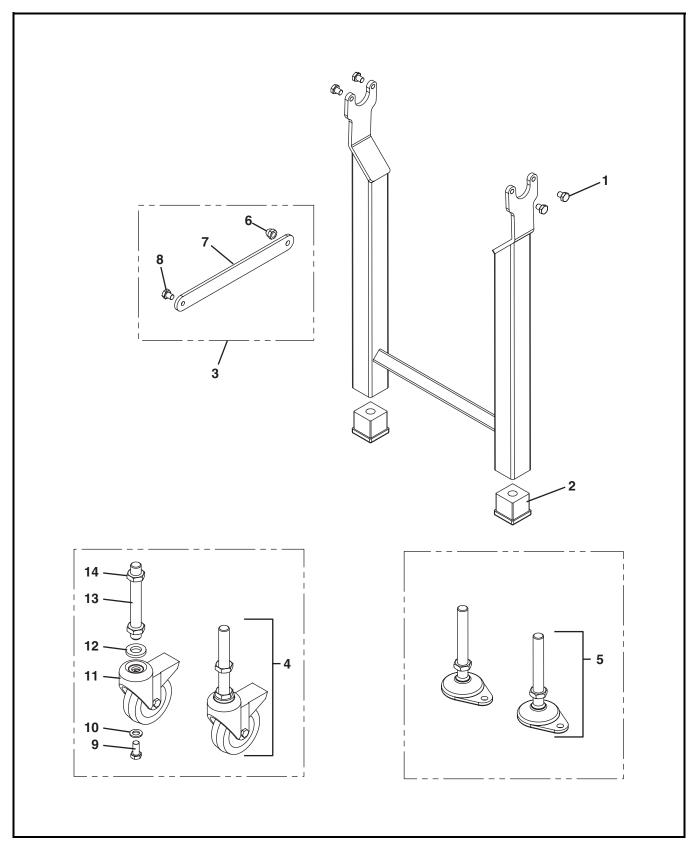
Pivot Mount Sanitary Support Stand (Type DP and MS)



Item	Part Number	Description
1	492564SS	Clamp Plate (x2)
2	960610MSS	Hex Head Cap Screw M6-1.0 x 10mm (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 25mm
13	807-1321	Teardrop Foot Assembly
14	458309	Caster Assembly (Includes Items 15 through 20)
15	961225MSS	Hex Head Cap Screw M12-1.75 x 25mm
16	911-519	Washer
17	807-1322	Caster
18	911-520	Washer
19	458308	Caster Stem
20	992010MSS	Jam Nut M20-2.50 (x2)

ltem	Part Number	Description
21	807-1304	Threaded Tube End
22	458311	Post - 2" (51mm) and 3" (76mm)
	458310	Post - 4" (102mm) through 18" (457mm)
23	961045MSS	Hex Head Cap Screw, M10-1.5 x 45mm - 2" (51mm) and 3" (76mm)
	961030MSS	Hex Head Cap Screw, M10-1.5 x 30mm - 4" (102mm) through 18" (457mm)
24	458312L <u>AA</u> *	Fixed Angle, Direct Mount Pivot Bracket LH
	458312R <u>AA</u> *	Fixed Angle, Direct Mount Pivot Bracket RH
	450527**	Direct Mount Slotted Pivot Bracket
25	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
26	960620MSS	Hex Head Cap Screw M6-1.0 x 20mm
* <u>AA</u> = Angle 00 through 60 degrees in 01 degree increments		
** Bra degre		es mounting from 0 through 60

Horizontal Mount Sanitary Support Stand (Type HM)



Item	Part Number	Description
1	961012MSS	Hex Head Cap Screw M10-1.5 x 12mm
2	807-1304	Threaded End Tube
3	39MB- <u>LLL</u>	Bracing Assembly (Includes Items 6 through 8)
4	458309	Caster Assembly (Includes Items 9 through 14)
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 12mm
9	961225MSS	Hex Head Cap Screw M12-1.75 x 25mm
10	911-519	Washer
11	807-1322	Caster

Item	Part Number	Description	
12	911-520	Washer	
13	458308	Caster Stem	
14	992010MSS	Jam Nut M20-2.50	
LLLLL	<u>LLLLL</u> = Bracing bar length in inches with two decimal places		
Exam	Example: Bracing bar length = 21.75" <u>LLLLL</u> = 02175		

LLL Length Formula

<u>LLL = LLLLL</u> - 125

100

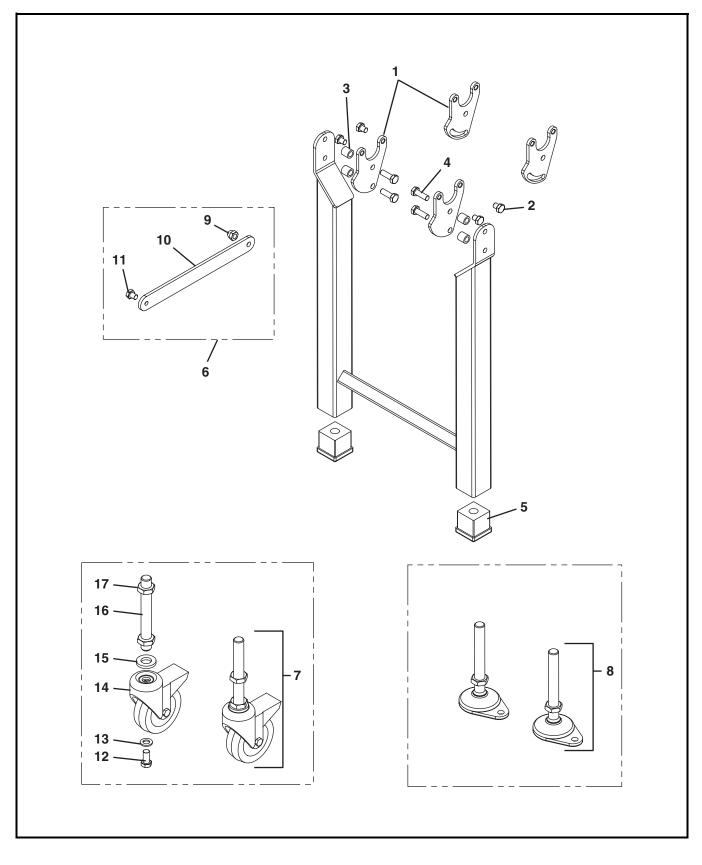
with one decimal place

Example: <u>LLL</u> = 02175 - 125 = 20.5

100

<u>LLL</u> = 205

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-
3	458310	Stand Post Standoff
4	961030MSS	Hex Head Cap Screw M10-1.5 x 30mm
5	807-1304	Threaded End Tube
6	39MB- <u>LLL</u>	Bracing Assembly (Includes Items 9 through 11)
7	458309	Caster Assembly (Includes Items 12 through 17)
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 12mm
12	961225MSS	Hex Head Cap Screw M12-1.75 x 25mm
13	911-519	Washer

Item	Part Number	Description	
14	807-1322	Caster	
15	911-520	Washer	
16	458308	Caster Stem	
17	992010MSS	Jam Nut M20-2.50	
<u>AA</u> = /	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

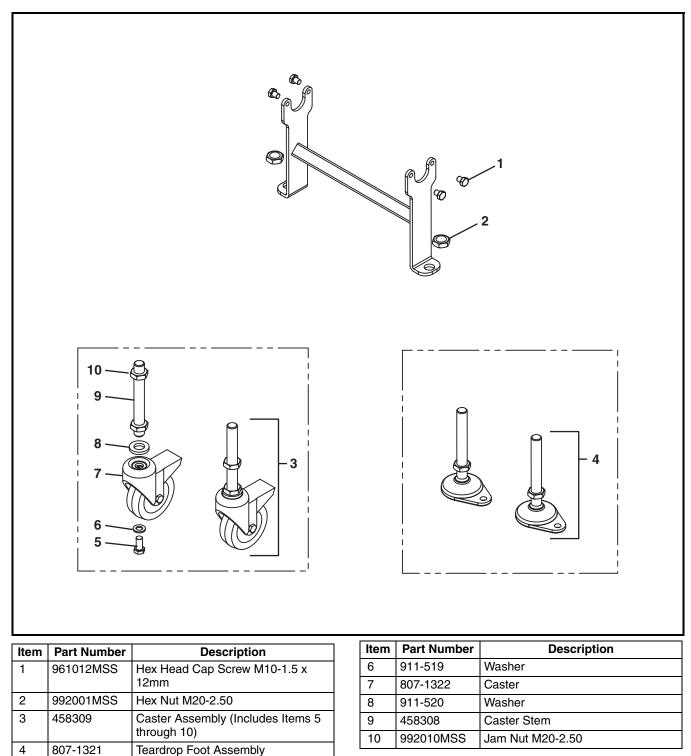
<u>LLL</u> = <u>LLLLL</u> - 125

100 with one decimal place

Example: <u>LLL</u> = 02175 - 125 = 20.5

100 <u>LLL</u> = 205

Bracket Mount Sanitary Support Stand (Type BM)



961225MSS

25mm

Hex Head Cap Screw M12-1.75 x

5

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.

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	30%
MPB Series, cleated and specialty belt conveyors	50%
7400 & 7600 Series conveyors	non-returnable items
Engineered special products	case by case
Drives and accessories	30%
Sanitary stand supports	non-returnable items

Parts Standard stock parts MPB, 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 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. 2005

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