

## Industrial Single Post Support Stand

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### Set-up, Operation & Maintenance Manual

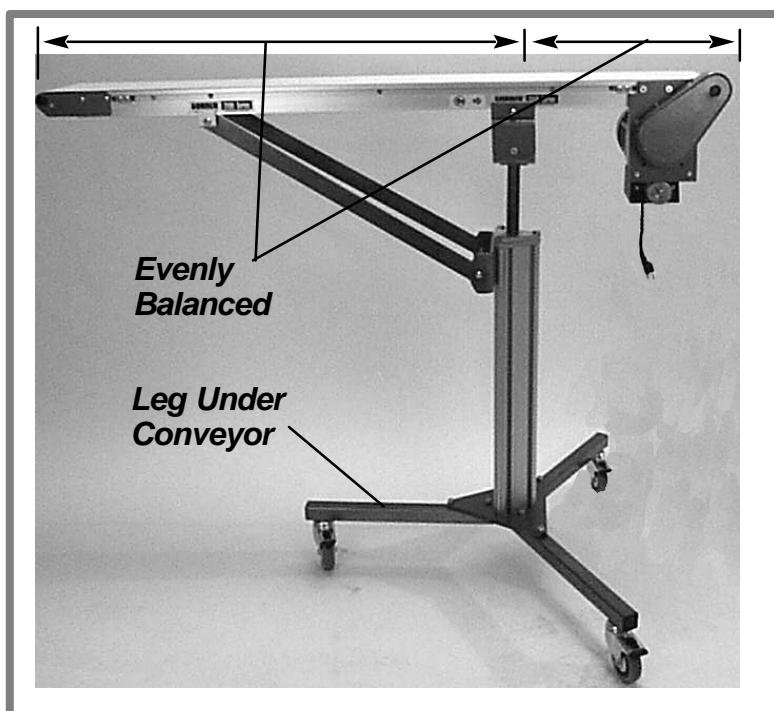


## WARNING



- The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.
- When only one single post support stand is used to support a conveyor, diagonal bracing must be used to properly secure the conveyor to the stand to help prevent personal injury from possible collapse or tip-over.
- Standing on a conveyor or transporting people is prohibited.
- When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, check for potential pinch points and other mechanical hazards before system start-up. Because Dorner Mfg. Corp. cannot control the physical installation and applications of multiple conveyor systems, taking protective measures is the responsibility of the user.
- Operating Dorner conveyors in an explosive environment is prohibited.
- NEVER operate equipment without guards or other protective devices properly secured in place. In addition, to prevent injury, make sure all electrical and pneumatic power sources have been disconnected and locked-out before you perform any maintenance, make any adjustments or replace any components.
- Due to the wide variety of conveyor and stand options, along with possible configurations, stability of the final setup is the responsibility of the end user.

## Special Safety Considerations for Single Stand Installations with Maximum 4-ft (1219 mm) long Conveyors



### WARNING



For maximum stability, position and balance conveyor on stand as shown. Failure to follow these instructions could lead to conveyor instability and possible tip-over, causing personal injury.

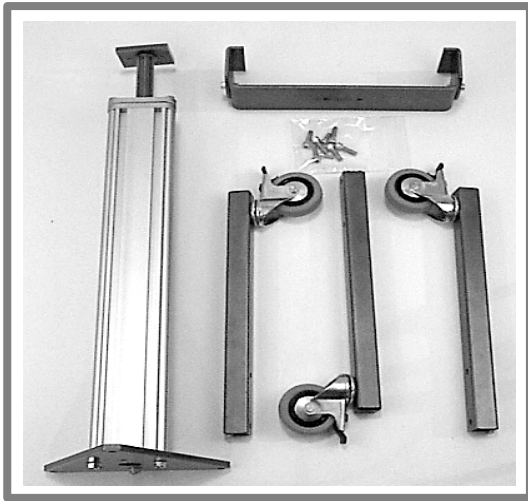
To help maintain stability, do not attempt to mount a heavy load bottom drive to only one single post support stand. Due to the weight of the gearmotor, it must be supported by a stand which must be anchored to the bottom of the drive; thus, requiring at least two stand assemblies for a conveyor and drive combination. Refer to the heavy load bottom drive assembly instructions for additional details.

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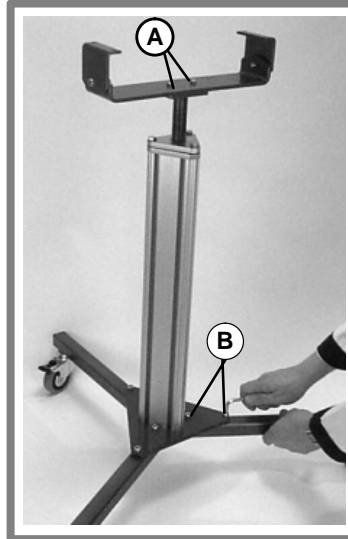
**NOTE:** When stands are ordered and installed with a heavy load bottom drive, be sure to note the height difference between the bottom of the drive support and the conveyor's return belt roller assembly is 8" (203 mm). If only one Support Stand is used, refer to the special Safety Consideration information above.

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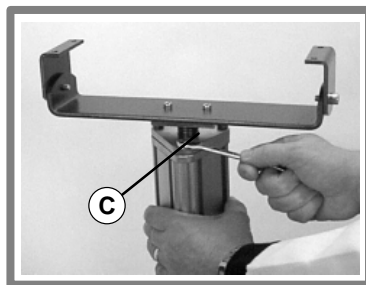
## Standard Component Assembly



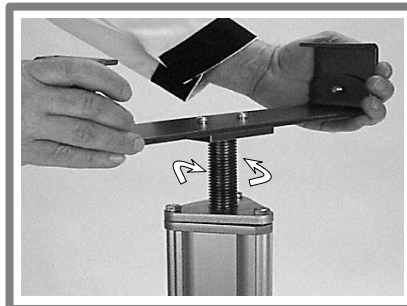
**Step 1: Typical Components \***



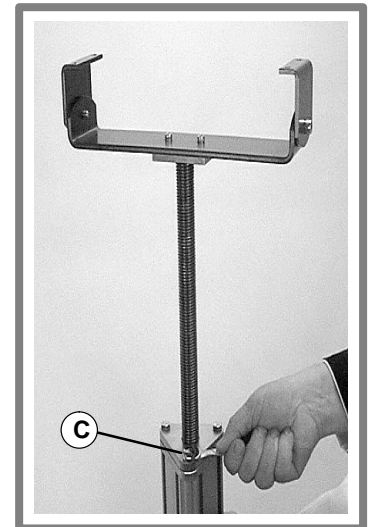
**Step 2: Assemble Components As Shown \***



**Step 3: Height Adjustment - Loosen Screws to Adjust**



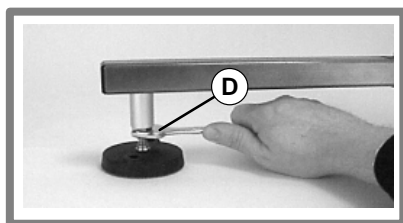
**Step 4: Adjust Up or Down, As Required**



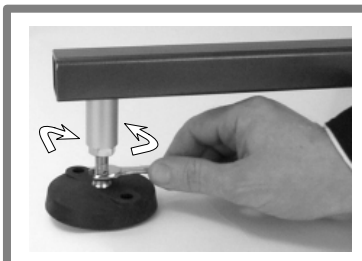
**Step 5: Adjusted Height - Tighten Screws (3) After Adjusting**

- A M6 x 16 mm Socket Head Cap Screws (2x)
- B M8 x 40 mm Socket Head Cap Screws (2x each Leg)
- C M8 x 45 mm Hexagon Head Screw (3x)
- \* Caster Option Shown – Foot Pads Similar

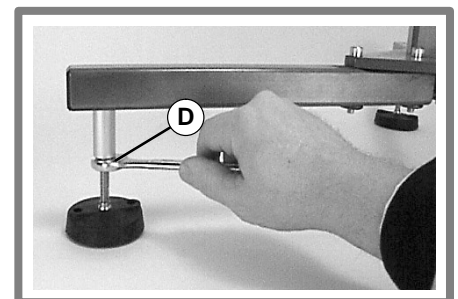
## Leveling Foot Pads



**Step 6: Loosen Jam Nut to Level Stand**



**Step 7: Rotate Pad to Level**

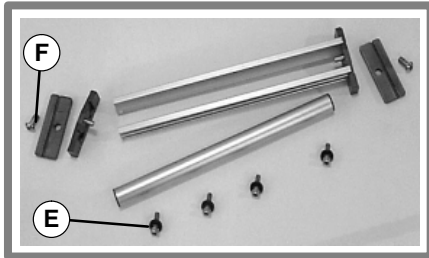


**Step 8: Level Stand & Tighten Jam Nut**

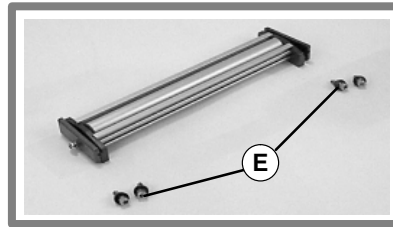
- D M10 Jam Nut (Each Foot Pad)

# Flat Belt Conveyor Attachment

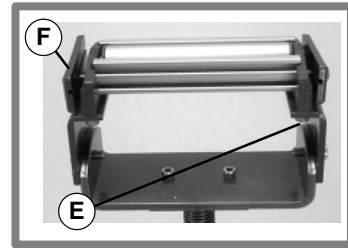
*For 2100 Series, 3100 Series or LPZ Conveyors*



**Step 9a: 2100, 3100 or LPZ Components \*\***

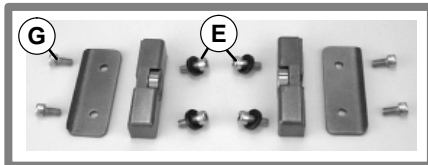


**Step 10a: Sub-assemble Components As Shown \*\***

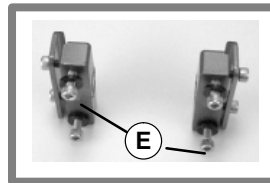


**Step 11a: Assemble and loosely attach the Mounting Bracket with Return Roller to Stand \*\*. Leave all hardware (E & F) loosely attached at this time.**

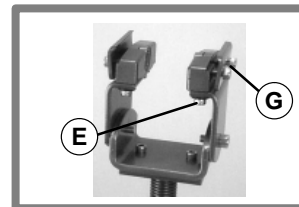
*For 6100 Series Conveyors*



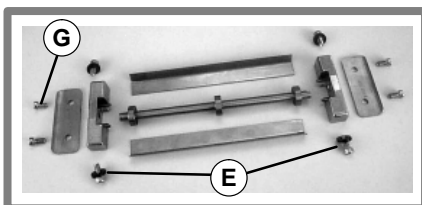
**Step 9b: For 2" to 6" (44 mm to 152 mm) Wide Conveyors**



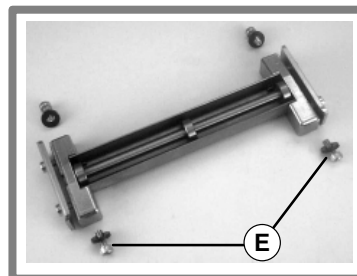
**Step 10b: Sub-assemble Components As Shown**



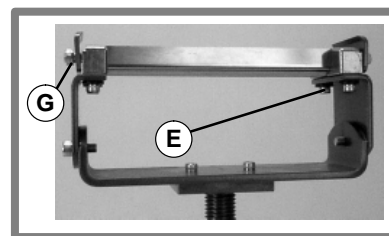
**Step 11b: Assemble and loosely attach the Mounting Bracket with Return Roller to Stand. Leave all hardware (E & G) loosely attached at this time.**



**Step 9c: For 8" (203 mm) and Wider Conveyors**



**Step 10c: Sub-assemble Components As Shown**

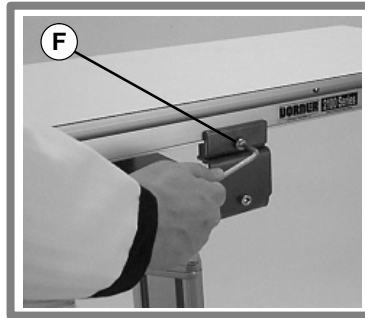


**Step 11c: Assemble and loosely attach the Mounting Bracket with Return Roller to Stand. Leave all hardware (E & G) loosely attached at this time.**

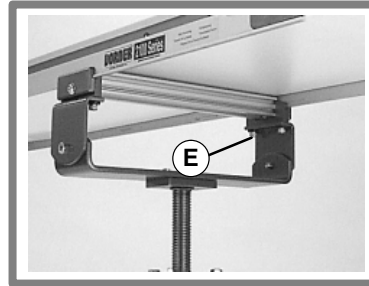
## Flat Belt Conveyor Attachment (continued)

**NOTE:** If only one Support Stand is used, refer to the special Safety Consideration information on page 2 and complete steps 17a & 18a or 17b & 18b before mounting the conveyor per the following steps 12a & 13a or 12b & 13b.

### *For 2100 Series, 3100 Series or LPZ Conveyors*

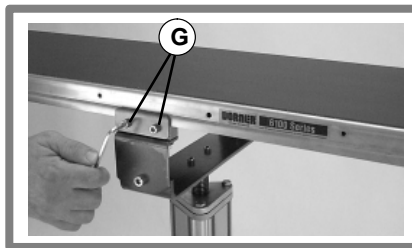


**Step 12a: Attach Clamp Plate on Each Side \*\*. Make sure all hardware (F & E) is tightly secured at this time.**

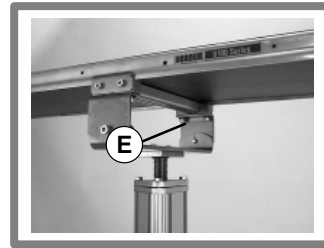


**Step 13a: Make Sure Return Belt Is Free to Move \*\***

### *For 6100 Series Conveyors*



**Step 12b: Attach Clamp Plate on Each Side. Make sure all hardware (G & E) is tightly secured at this time.**



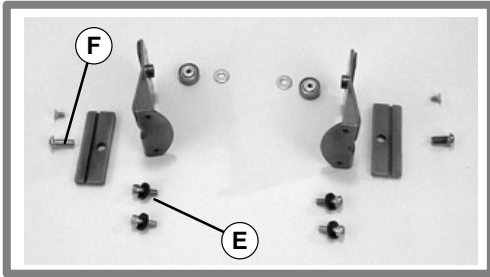
**Step 13b: Make Sure Return Belt Is Free to Move**

**\*\* 2100 Series Shown – 3100 Series & LPZ Similar**

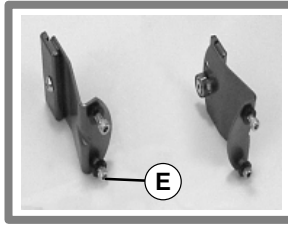
E	M6 x 18 Socket Head Cap Screw & Hard Washer Assembly (4x)
F	M8 x 18 Button Head Cap Screw (2x)
G	M6 x 12 Socket Head Cap Screw (4x)

# Cleated Belt Conveyor Attachment

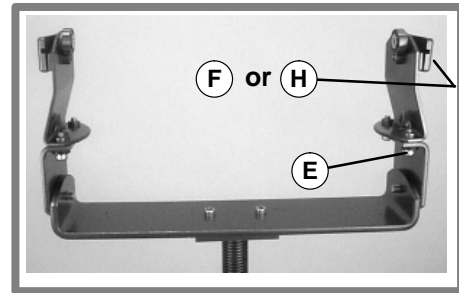
## For 2100 or 3100 Series Cleated Belt Conveyors



**Step 14a: Mounting Brackets with Return Rollers \*\***

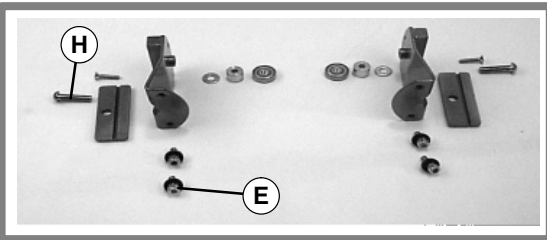


**Step 15a:  
Sub-assemble  
Components  
As Shown \*\***

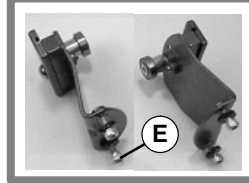


**Step 16 a & b: Mount Cleated Belt Roller Assemblies [leaving all hardware (E & F or H) loosely attached at this time] to Stand. Then, mount Conveyor to Stand (see Step 12a on page 5).**

## For LPZ Conveyors Only

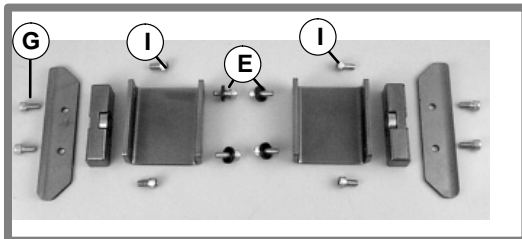


**Step 14b: Mounting Brackets with Return Rollers**

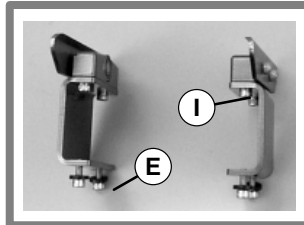


**Step 15b:  
Sub-assemble  
Components  
As Shown**

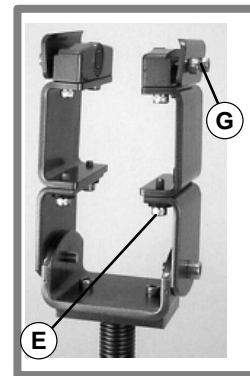
## For 6100 Series Conveyors Only



**Step 14c: Mounting Brackets with Return Rollers**



**Step 15c:  
Sub-assemble  
Components  
As Shown**



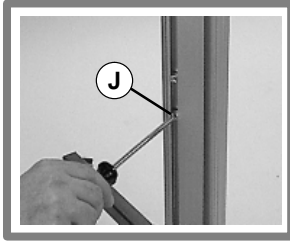
**Step 16 c: Mount Cleated Belt Roller Assemblies [leaving all hardware (E & G) loosely attached at this time] to Stand. Then, mount Conveyor to Stand (see Step 12b on page 5).**

**\*\* 2100 Series Shown – 3100 Series Similar**

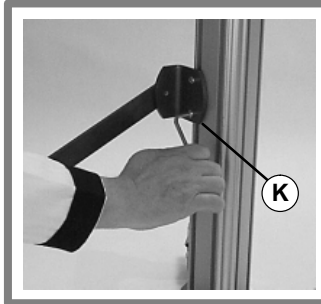
H	M8 x 30 mm Button Head Cap Screw(2x)
I	M6 x 16 mm Button Head Cap Screw (4x)

## Attaching Optional Diagonal Braces

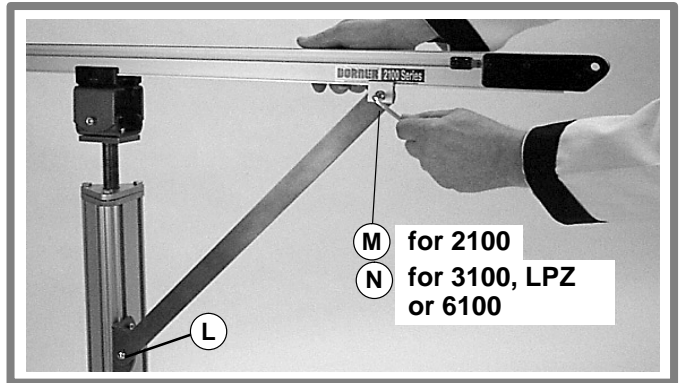
For 2" (44 mm) Wide Conveyors Only



**Step 17a: Insert Spring Nuts (2x) for 2" (44 mm) Wide Conveyor Only**

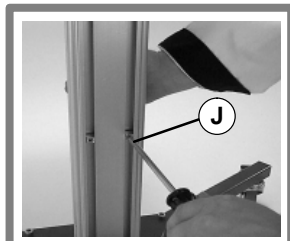


**Step 18a: Attach Brace Bracket for 2" (44 mm) Wide Conveyor Only**

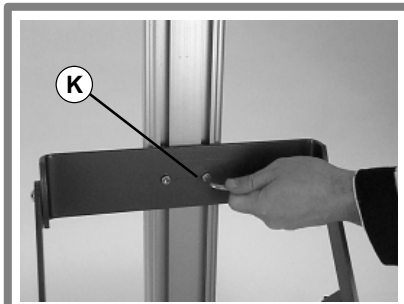


**Step 19a: Attach Single Diagonal Brace for 2" (44 mm) Wide Conveyor Only**

For 3" (70 mm) & Wider Conveyors



**Step 17b: Insert Spring Nuts (2x)**



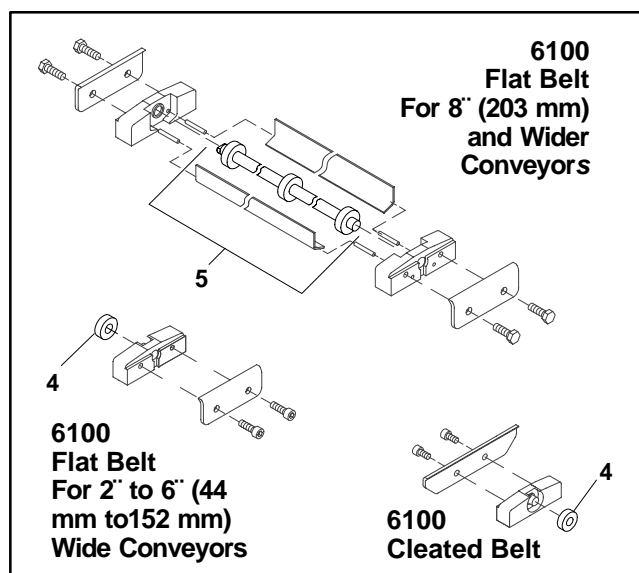
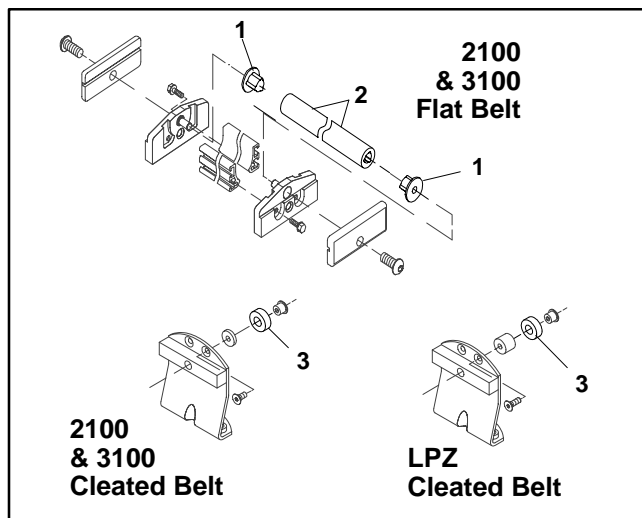
**Step 18b: Attach Brace Bracket**



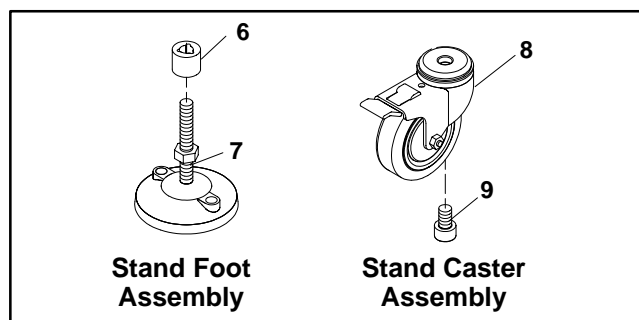
**Step 19b: Attach Diagonal Brace**

- J M6 Spring Nut (2x)
- K M6 x 16 mm Socket Head Cap Screw (2x)
- L M8 x 12 mm Button Head Screw (1 Per Brace)
- M M8 x 12 mm Button Head Screw (1 Per Brace)
- N M8 x 18 mm Button Head Screw (1 Per Brace)

## Replacement Component Part Numbers



Item	Part No.	Part Description
1	202311P	Return Roller Bearing
2	2077WW	Return Roller Tube
3	802-027	Sealed Ball Bearing
4	802-123	Ball Bearing
5	4531WWSS	Return Roller Assembly
6	688054	Stand Foot Spacer Tube
7	807-930	3" (70 mm) Dia. Leveling Foot
8	807-936	Caster Assy, 3" (70 mm) Dia.
9	921020M	Socket Head Cap Screw, M10-1.5 x 20 mm



WW (conveyor width reference)

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

# DORNER®

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