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Light duty Gravity Roller Conveyor Assembly Guide

Straight, H-Stand, and Accessories

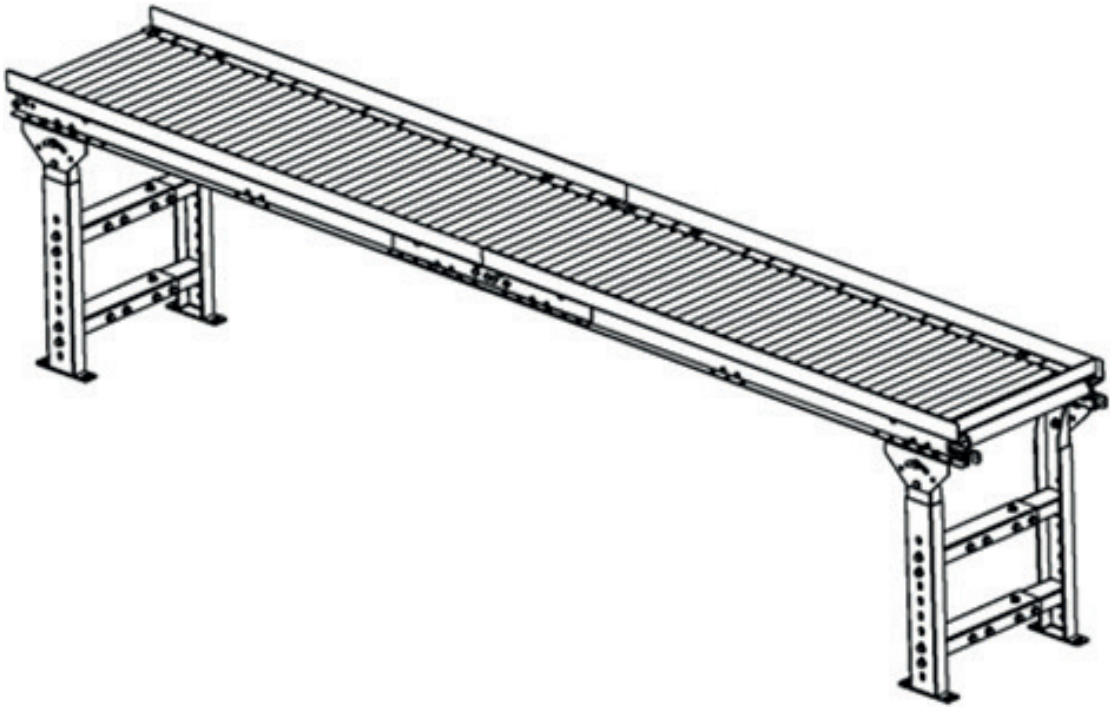


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GENERAL DATA

Please read the instructions completely and save for reference. Upon receiving, inspect the unit for any damage. These products must be handled with caution by trained operators with proper safety gear and equipment. Installation and assembly must be in compliance with ANSI/CEMA Standard No. 401 and local OSHA regulatory codes and requirements. Pay attention to safety warning labels, pinch points and surrounding environment when in use. Failure to comply with instructions could result in serious injury.

SAFETY AND WARNINGS

- Only trained personnel must be permitted to operate a conveyor.
- Keep area around conveyors clear of all obstructions and safety hazards.
- Be aware of all pinch points and warning labels when in use.
- DO NOT SIT, STAND, OR RIDE the conveyor at any time.
- DO NOT OVERLOAD – check capacity chart for maximum weights.
- DO NOT use the conveyor if there is any damage or loose parts.
- DO NOT alter, modify, or tamper with the conveyor under any circumstances.
- Alert all personnel to potential hazards in the rollers such as long hair, jewelry, etc.
- Fully tighten all bolts and ensure unit is fully stable. Check bolts regularly.

MAINTENANCE AND INSPECTION

Maintenance and service must be performed by qualified personnel only. Do not perform any maintenance when a conveyor is in operation. Routine inspections with preventative and corrective maintenance programs should be conducted to ensure the conveyors are maintained and function properly. All personnel should inspect for hazardous conditions at all times and repair/replace worn or damaged parts immediately. Apply lubrication as needed to ensure rollers continuously operate smoothly. Light cleaning may be required at joints and connection points.



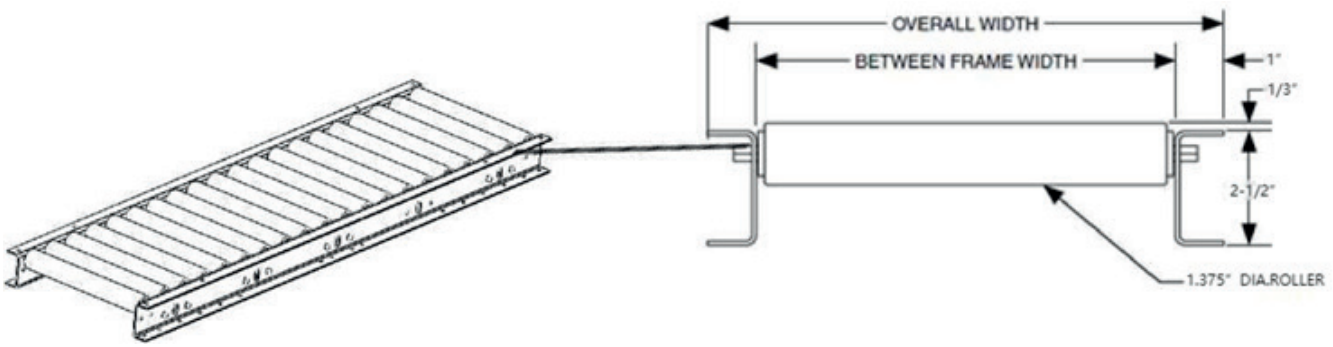
GRAVITY ROLLER CONVEYOR SPECS AND CAPACITIES

Gravity Roller Conveyor systems are fast, simple and effective solutions for handling and transporting products in warehouses, shipping departments, and assembly areas. These conveyors are cost efficient and excellent for both permanent and temporary applications. The gravity roller bed conveyor section includes the conveyor frames and rollers.

FEATURES AND SPECS

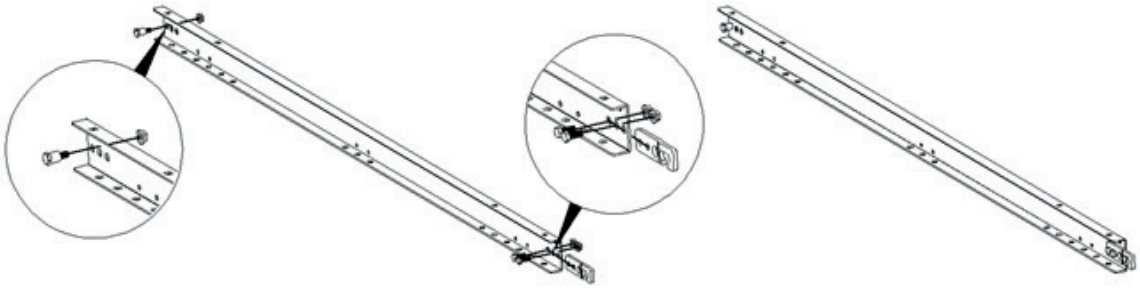
Color – standard conveyor green
Frame – 2 ½ in. deep x 1 in. flange x 12 gauge powder coated steel rails.
Cross Ties – Bolt in cross members. 5' sections (3) cross ties and 10' section includes (4) cross ties.
Length & Width – 5' or 10' straight sections in 18" or 24" overall widths. 10' straight sections include (4) 5' frames that are connected by (2) Steel C-Channels.
Couplings – Butt type for bolting sections together. Each Rail includes (2) couplings.
Rollers – 1-3/8 in. dia. X 18 ga. Galvanized steel tube, 15/64 in. spring hex retained axle, grease packed ball bearings both ends. Roller Centers are 3 in., 4 ½ in., or 6 in. Capacities shown below.
H-Stands – 12 gauge powder coated steel. Adjustable Height (24"-36") and Width (18" or 24").
Guide Rail – 2"H x 5'L x 12 gauge powder coated steel.
End Stops – 12 gauge powder coated steel.

Model no.	Length [Ft]	Overall Width [in.]	Between Frame (In.)	Roller Centers (In.)	# of rollers	# of Cross Ties	Capacity (lbs.)
293316	5'	18"	16"	3"	20	3	1250
293317	5'	18"	16"	4.5"	13	3	940
293318	5'	18"	16"	6"	10	3	940
293319	5'	24"	22"	3"	20	3	1250
293320	5'	24"	22"	4.5"	13	3	940
293321	5'	24"	22"	6"	10	3	940
293322	10'	18"	16"	3"	40	4	310
293323	10'	18"	16"	4.5"	26	4	250
293324	10'	18"	16"	6"	20	4	250
293325	10'	24"	22"	3"	40	4	310
293326	10'	24"	22"	4.5"	26	4	250
293327	10'	24"	22"	6"	20	4	250

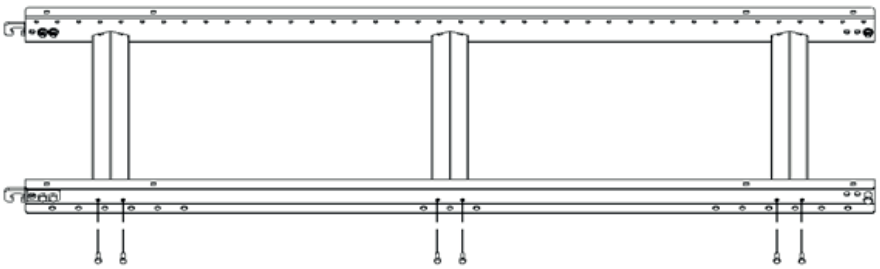


5' CONVEYOR ASSEMBLY

1. For both rails, install the end plates using 1x bolt per plate.
Hardware & qty: H1 x 4 , H3 x 6, H9 x 2



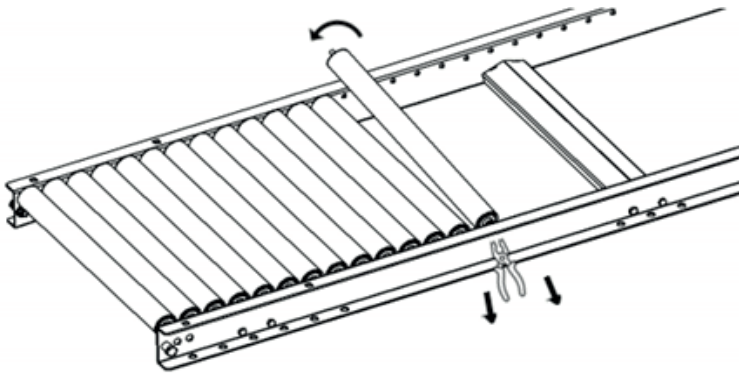
2. Install Cross ties at designated locations for each configuration. Use 4x Bolts per cross-tie. *Hardware & qty: H10 x 12*



3. Each roller has a rigid and flexible end.

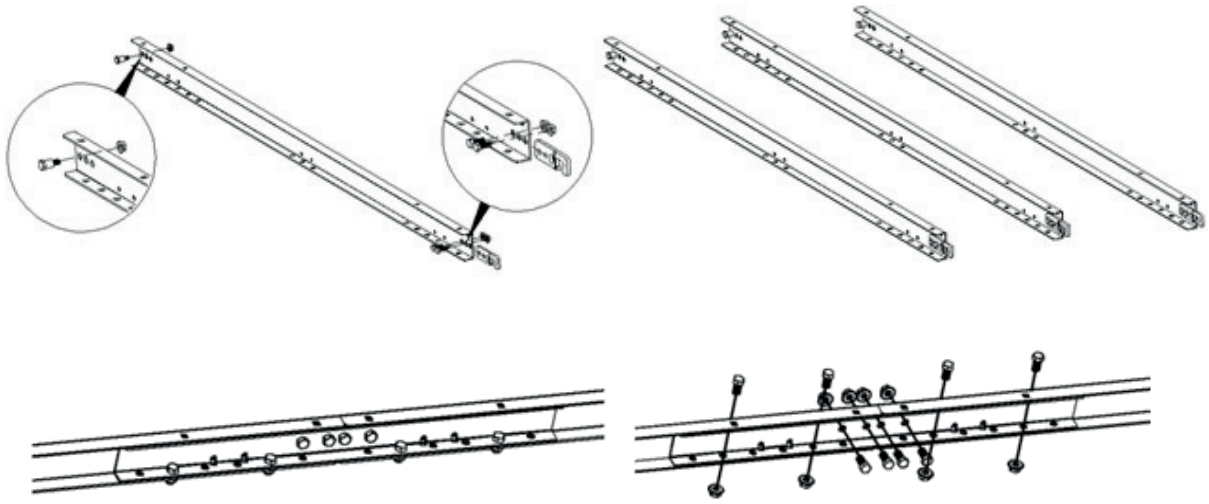
The flexible end can be pressed inward. 

Insert each roller into the frame at the desired spacing. Insert the roller rigid-end first. Once inserted, using pliers, pull the rigid end and rotate the roller into place. Release the end with pliers to lock each roller.

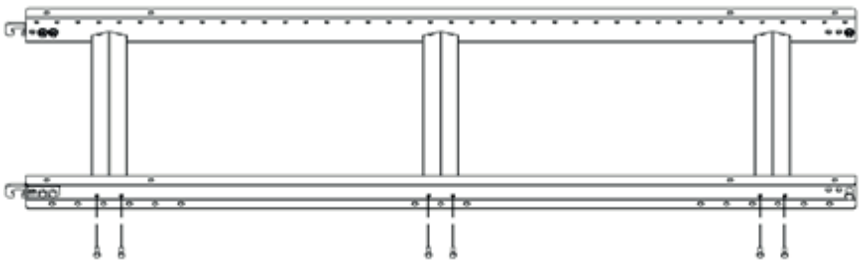


10' CONVEYOR ASSEMBLY

1. For 10' rails, connect two 5' Rails using C Channel connector. Repeat this step to assembled 2x 10' rails. *Hardware & qty: H1 x 16, H3 x 16*



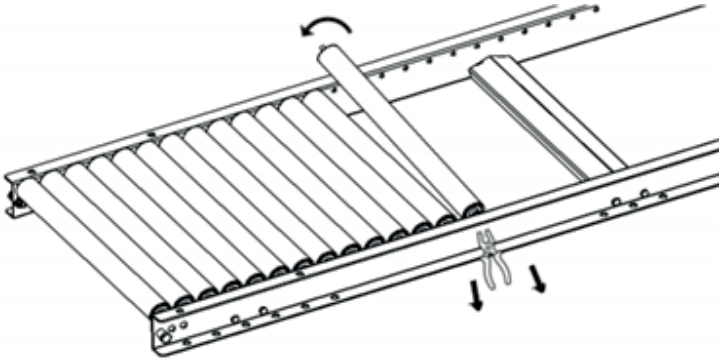
2. Install cross-ties at designated locations for each configuration. Use 4 bolts per cross-tie. *Hardware & qty: H10 x 24*



3. Each roller has a rigid and flexible end. The flexible end can be pressed inward.

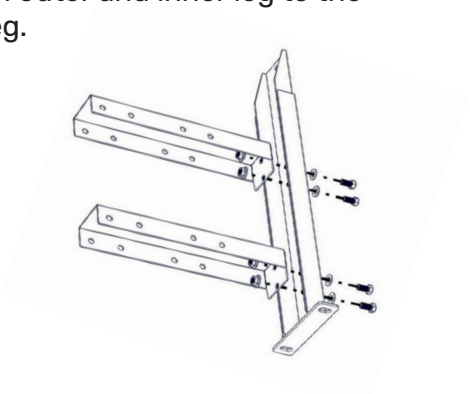
The flexible end can be pressed inward. 

Insert each roller into the frame at the desired spacing. Insert the roller rigid-end first. Once inserted, using pliers, pull the rigid end and rotate the roller into place. Release the end with pliers to lock each roller.

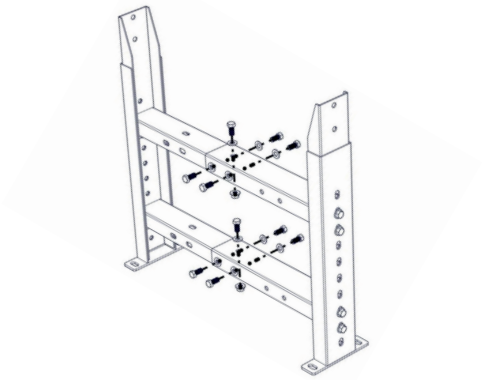


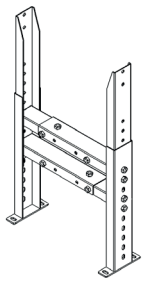
H-STAND ASSEMBLY

1. Select desired height. Place the outer leg over the inner leg and attach two adjustable cross beam pieces to the leg. When possible, bolt both outer and inner leg to the cross-beams. Repeat this step for both sides of the leg.
Hardware & qty: H1 x 8, H3 x 8, H7 x 8

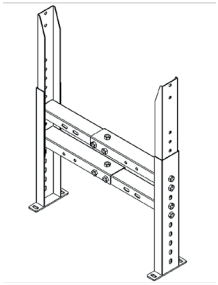


2. Select desired width to match conveyor width. Bolt the cross-beam pieces together. Use 5 bolts per cross beam. *Hardware & qty: H1 x 10, H3 x 10, H7 x 10*



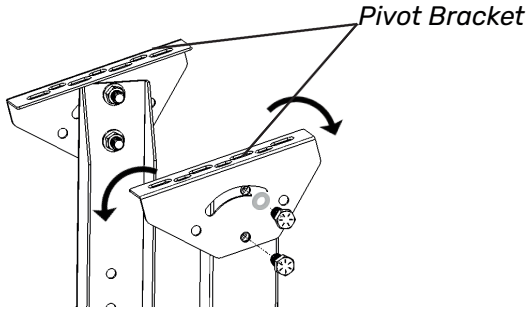


18"W Configuration

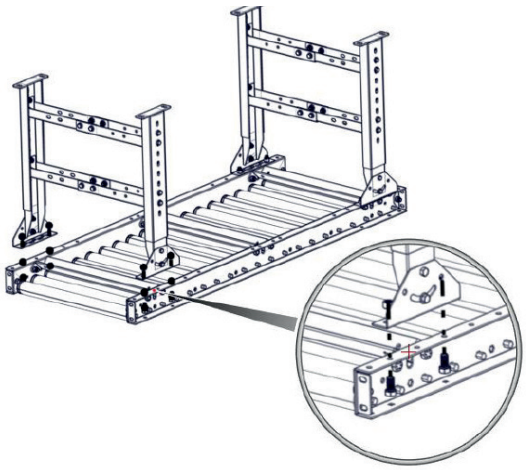


24"W Configuration Hard-

3. Install the pivot brackets by bolting the two bolts in the top bolt. Adjust the angle of the bracket to the angle. *Hardware & qty: H1 x 4, H3 x 4, H7 x 2*

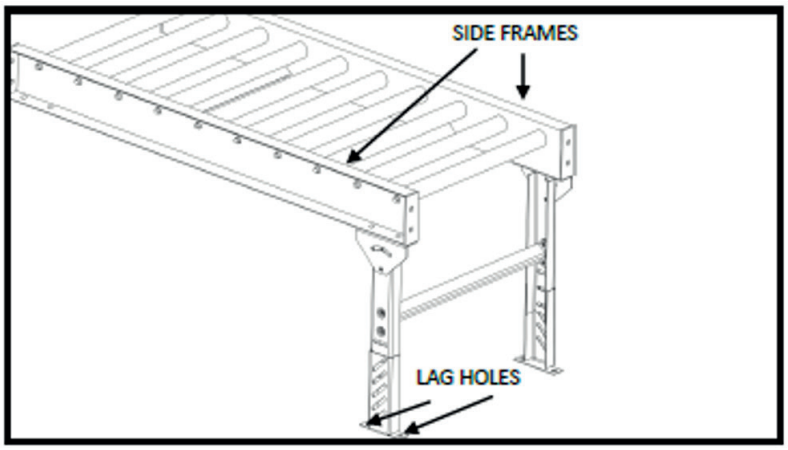


4. Follow the directions to connect the H Stand to the conveyor or table.
Hardware & qty: H1 x 8, H3 x 8



LEG SUPPORTS AND INSTALLATION: BOLT-TOGETHER

Permanent installation of legs: Secure leg supports to the floor utilizing the lag holes in the adjustable leg boot.

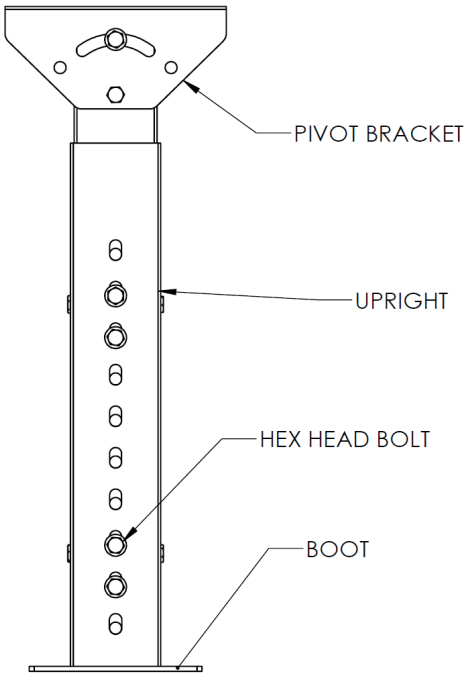


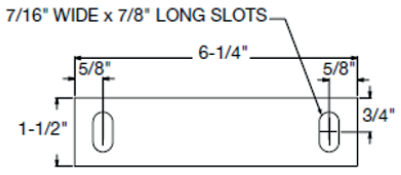
NOTE: Lag bolts are not included.

Make sure the conveyor is level by placing a level on the conveyor side frames. If the conveyor is not level, adjust the legs appropriately as shown below.

Leg adjustment:

1. Remove all load from the conveyor.
2. Position conveyor in the location to be installed.
3. Support conveyor section with jack, hoist or forklift.
4. Carefully loosen the fasteners within the slots.
5. Lift or lower conveyor until it is at the desired height.
6. Ensure that the conveyor is completely level. (reference leveling note below)
7. Tighten fasteners using torque appropriate tool for each fastener's size and grade. (Grade 5 fasteners provided)

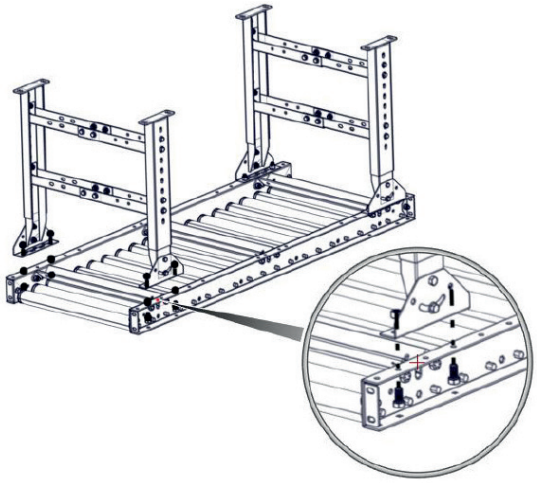




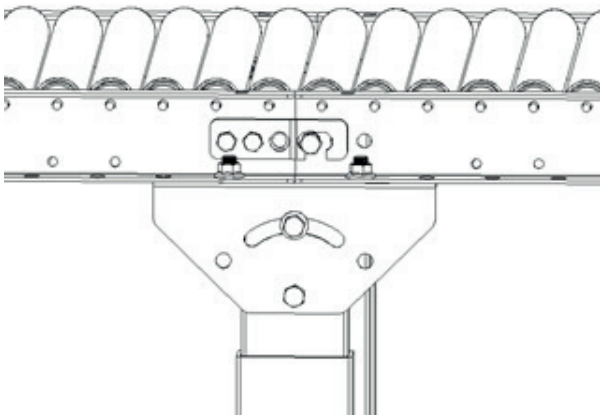
FOOT PLATE FOR FLOOR SUPPORT

CONVEYORS AND STAND ASSEMBLY

BOLTING TWO H-STANDS TO ONE CONVEYOR FRAME
Position H-stands with two holes on the end of the conveyor frame. On the end, tighten bolts. Fasten bolts through conveyor and H-Stand. *Hardware & qty: H1 x 8, H3 x 8*

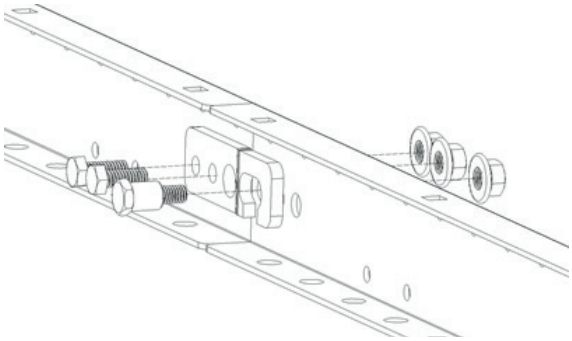


BOLTING A SINGLE H-STAND TO TWO CONVEYOR FRAMES
Place the H-Stand in the middle of two conveyor frame ends. Position the H-Stand to align one hole on each conveyor. Fasten bolts through conveyors and H-Stand.



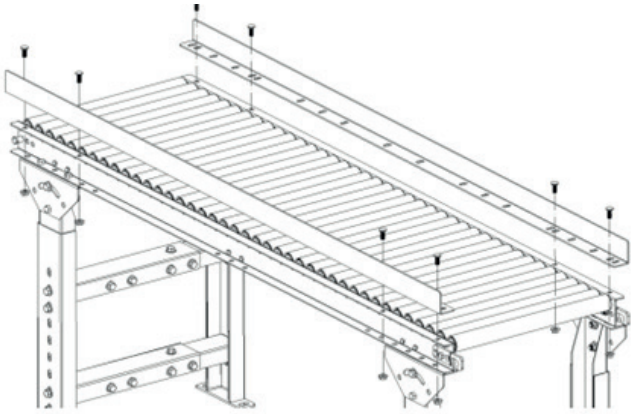
NOTE: Each Conveyor frame has mounting holes for a center leg support, which is optional. The addition of a third support increases weight capacity.

BOLTING MULTIPLE CONVEYOR FRAMES TOGETHER
Using the holes, fasten the bolts through the ends of both conveyor frames.
Hardware & qty: H1 x 4, H3 x 6, H9 x 2



ACCESSORIES INSTALLATION
for Straight Gravity Conveyors

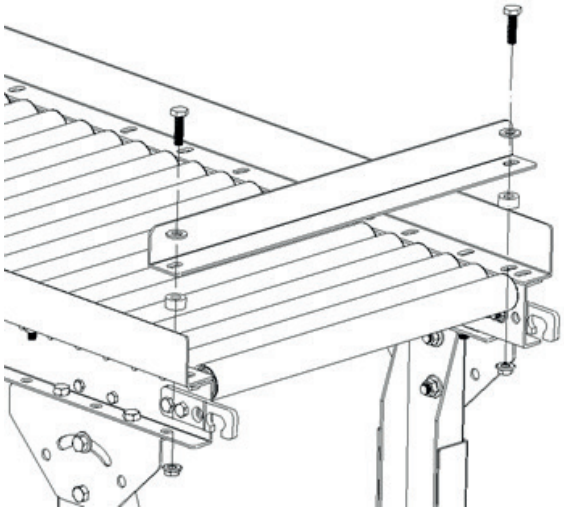
5’ Guide rail kit (Model no. B3186085)
Using the carriage bolts, bolt the guide rail through the holes closest to the edge on top of the conveyor. Be sure that the carriage bolt points down and nothing is in the way for items on the conveyor to cause interference. *Hardware & qty: H4 x 8 , H6 x 8*



Angle End Stop
18”W Model no. B3186083 *Hardware & qty: H2 x 2, H6 x 2, H7 x 2, H8 x 2*
24”W Model no. B3186084 *Hardware & qty: H2 x 2, H6 X 2, H7 X 2, H8 X 2*

Using the bolts, bolt the end stop through the holes closest to the edge on top of the conveyor.

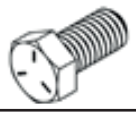
If installing both angle end stops and guide rail kit, be sure to install guide rail kit first.



REPLACEMENT PARTS

Model no.	Description
B3186074	5’ Side Rail Kit for LD Gravity Conveyor
B3186075	10’ Side Rail Kit for LD Gravity Conveyor
B3186076	LD 16” Roller BF Pack of 3
B3186078	LD 22” Roller BF Pack of 3
B3186079	LD 16” Roller BF Pack of 10
B3186080	LD 22” Roller BF Pack of 10
B3186081	Light Duty Cross Tie, 16”BF
B3186082	Light Duty Cross Tie, 22”BF
B3186083	18” End Stop & Hardware for LD Roller Conveyors
B3186084	24" End Stop & Hardware for LD Roller Conveyors
B3186085	5' Guide Rail Kit for LD & HD Roller Conveyors
293184	KD Adjustable Height H-Stand, 24” to 36”, 2000 lb cap.

HARDWARE REFERENCE TABLE

HARDWARE ID	DESCRIPTION	IMAGE
H1	Hex Head Bolt, 3/8'-16 Thread Size, 3/4" Long	
H2	Hex Head Bolt M8x1.25mm Thread Size, 30mm Long	
H3	Hexagon Flange Nut 3/8'-16 Thread Size	
H4	Semi-round Head Square Neck Bolt M8x1.25mm Thread Size,20mm Long	
H5	Steel Washers for 3/8" Screw Size	
H6	Hex Flange Nut, M8 x 1.25 mm Thread Size	
H7	Steel Washers for M8 Screw Size	
H8	Axle Sleeve	
H9	Non-standard Bolts	
H10	Hex Head Bolt M6x1.0mm Thread Size, 15mm Long	

WARRANTY PAGE

REGISTER ONLINE AT

http://www.globalindustrial.com/wr or http://www.globalindustrial.ca/wr

Global Limited 1 Year Warranty

1. LIMITED WARRANTY

Global Equipment Company Inc. (DBA Global Industrial) ("Global") hereby warrants to you, the original purchaser and end user ("you" or "your"), that the products that you purchased which accompany this Limited Warranty. ("Products") shall be free from defects in materials and workmanship under normal use consistent with the accompanying documentation for 1 year commencing upon the date of purchase (the "Warranty Period"). Global will repair or replace any Product determined to be defective and which has been returned, as set forth in section 3 herein, to Global. A Product may be replaced with a new or used product and/or current or prior revision. Where Global determines in its sole judgment that repair or replacement of such Product is not reasonable, Global will keep the non-conforming Product and refund to you the amount you paid for such Product. Returned Products shall be subject to the balance of the Warranty Period otherwise applicable. Any reconditioned parts used by Global shall be subject to all the same provisions as otherwise applicable to new parts.

THE FOREGOING DESCRIBES THE SOLE LIABILITY OF GLOBAL, AND YOUR SOLE REMEDY, FOR ANY BREACH OF WARRANTY. IF YOU DO NOT AGREE WITH THE TERMS OF THIS LIMITED WARRANTY, YOU MUST RETURN THE PRODUCTS UNUSED AND IN THEIR ORIGINAL PACKAGING WITHIN THREE (3) DAYS AND YOUR PURCHASE PRICE WILL BE REFUNDED.

2. WARRANTY EXCLUSIONS AND LIMITATION OF LIABILITY

This Limited Warranty does not cover: (i) defects or damages resulting from acts of God, casualty, accident, misuse or abuse, overloading, exceeding the recommended weight capacity, neglect, alterations, modification, service or repair by other than Global or its independent third party service providers, including without limitation by you; (ii) improper assembly or installation or deinstallation, operation or maintenance, improper connections with peripherals or other causes not arising out of defects in the materials or workmanship of Products; (iii) any Product for which the warranty sticker has been removed, modified or defaced; (iv) shipping containers, batteries, cabinets, media, software or accessories; (v) normal wear and tear; (vi) damage to or loss of repaired or replaced Products during shipping by Global except when such damage or loss is caused by poor or inadequate packaging by Global; or (vii) Products purchased outside the United States or Canada.

UNDER NO CIRCUMSTANCES WILL GLOBAL BE LIABLE FOR ANY LOSS OF USE, INTERRUPTION OF BUSINESS OR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING LOST PROFITS) REGARDLESS OF THE FORM OF ACTION WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT PRODUCT LIABILITY OR OTHERWISE, EVEN IF GLOBAL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE TOTAL LIABILITY OF GLOBAL HEREUNDER EXCEED THE GREATER OF $50 OR THE AMOUNT YOU ACTUALLY PAID FOR THE PRODUCT GIVING RISE TO SUCH LIABILITY, REGARDLESS OF THE CAUSE OF ACTION, IN CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE. NOT ALL JURISDICTIONS ALLOW SUCH LIMITATIONS OF DAMAGES SO THE FOREGOING LIMITATIONS MAY NOT APPLY TO YOU.

3. PROCEDURE FOR WARRANTY SERVICE

Prior to returning any Products to Global for warranty service, you must first contact Global, by telephone at (800) 645-2986 (US) or (888) 645-0878 (Canada) to confirm that such Products are covered by this Limited Warranty. If such Products are so covered, you shall obtain from Global a return materials authorization ("RMA") number and shipping instructions prior to any shipment of such Products to Global, and you must include such RMA number with any corresponding Product shipment, along with a true and correct copy of the original receipt showing the date of Product purchase by you, and a detailed, written description of any associated Product problems.

Please note that you are responsible for all shipping charges incurred in returning an item for exchange or repair. Global shall pay for return shipping of repaired and/or replaced Products to addresses within the United States and Canada only, and return shipments to all other addresses outside of the United States or Canada is your responsibility. If Global determines that any Product is not covered by this Limited Warranty, you must pay all parts, labor charges and return shipping for such Product.

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5. CHOICE OF LAW AND JURISDICTION

FOR PURCHASES WITHIN THE US - This Limited Warranty shall be subject solely to the laws of the State of New York as applied to contracts entered into in the State of New York between New York residents. Any dispute arising hereunder shall be subject to the sole jurisdiction of the State and Federal Courts located in Nassau County, New York. The parties hereby consent to the personal jurisdiction of such courts.

FOR PURCHASES WITHIN CANADA - This Limited Warranty shall be subject solely to the laws of the Province of Ontario. Any dispute arising hereunder shall be subject to the sole jurisdiction of Ontario, Canada. The parties hereby consent to the personal jurisdiction of such courts