



Conveyor Idler Installation and Operation Manual

READ ALL INSTRUCTIONS THOROUGHLY PRIOR TO INSTALLATION

Short Term Storage

If conveyor idlers are to be stored for an short period (less than 3 months) prior to installation, the following steps should be taken.

- A rust preventative should be used on all exposed metal areas that are not painted or galvanized.
- Be sure to protect the idlers from exposure to the elements (sunlight, rain, snow, etc.) Avoid storing outdoors if possible.
- Remember to clean idlers and check to ensure rollers turn freely before installation.

Safety

Make sure all OSHA and any other safety standards or requirements are met.

Review CEMA safety program recommendations

Safety Standard for Conveyors and Related Equipment National Standard ANSI/ASME B20.1-2012 Should be used as a guide for conveyor safety standards.

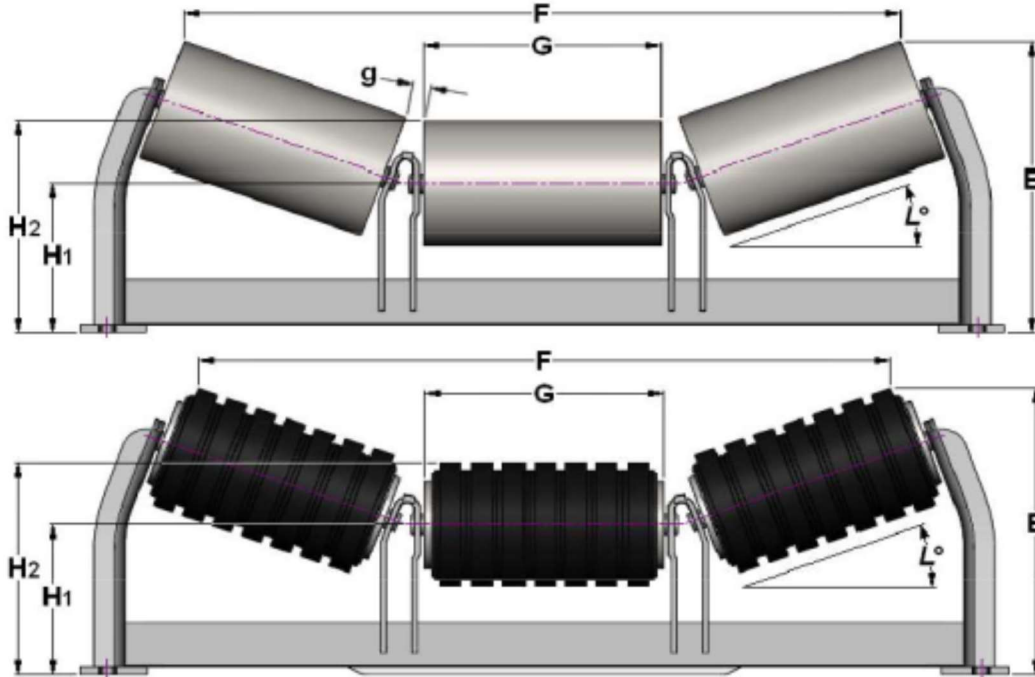
Disconnect power before installation and maintenance. Failure to do so can result in severe injury or death. Use proper lockout/ Tagout procedures.



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Installation of Troughing And Impact idlers

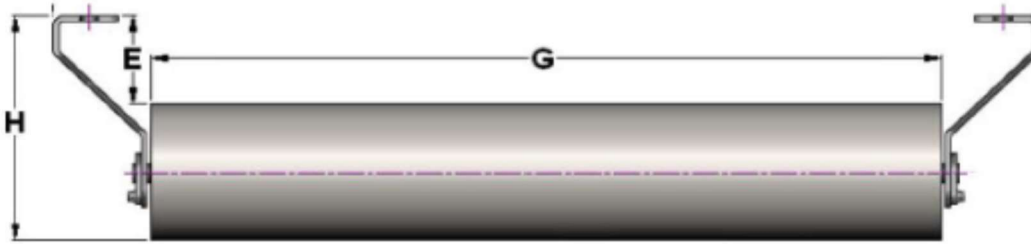


1. Using approved lifting equipment, Place idler on conveyor frame.
2. If an idler is being installed on an existing conveyor that has been in service, remove any debris, fugitive material, etc. from the frame area where the idler is to be installed.
3. Align the slots in the idler with the holes in the conveyor frame.
4. Install bolts but do not tighten.
5. Slide both sides of the idler towards the head pulley.
6. Tighten bolts. A final check for alignment and center height of idler must be done prior to operation.



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Installation of Return Idlers

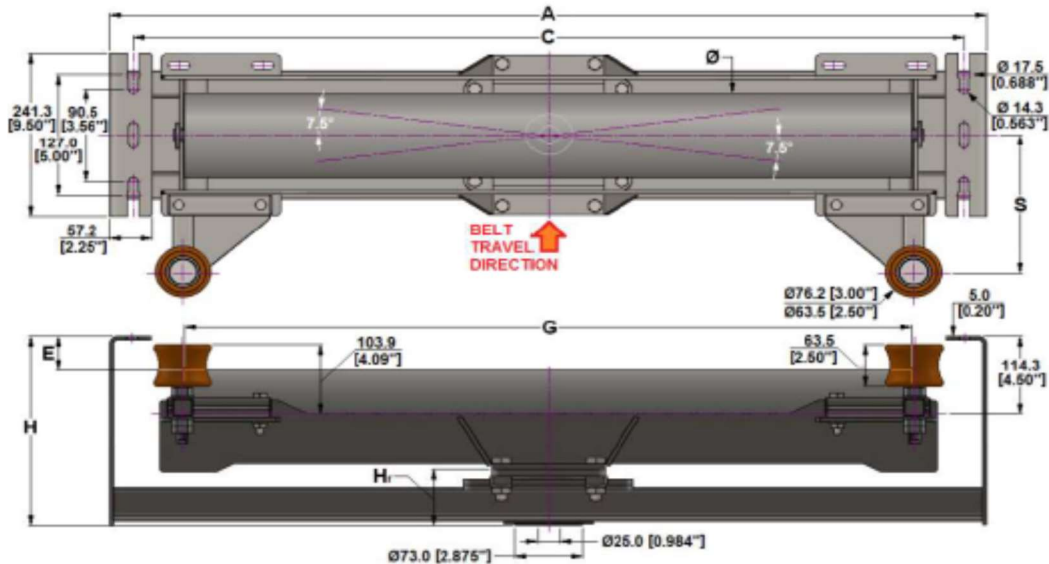


1. Install hanger brackets on the underside of the conveyor frame, do not tighten bolts completely
2. Insert the roller into the hanger brackets. Ensure that the slots in the shafts fit securely and are seated in the hanger brackets.
3. Attach the end retainer clips to hanger brackets. The clips will fit over the end of the shaft and the hole in the clip will align with the clip in the frame will properly positioned.
4. Ensure that the roller is perpendicular to the frame.
5. Tighten the bolts.
6. A final check for alignment of the idler must be done prior to operation.



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Installation of Self Aligning Return Idlers



1. Locate self aligning return idler assembly on the underside of the conveyor frame with the guide arms pointing towards the head pulley.
2. Install bolts but do not tighten bolts completely
3. Ensure that the idler frame is perpendicular to the conveyor frame.
4. Tighten the bolts.



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Final Alignment Check

1. Once the conveyor is assembled including the belt, all tools and installation equipment should be moved away from the conveyor.
2. The conveyor should be started while empty to check for alignment.
3. Misalignment will cause the belt to track unevenly on the idler rolls.
4. Alignment can be corrected by adjusting rolls at or upstream of the misalignment.
5. To adjust stop conveyor
6. Follow all safety procedures
7. Loosen the bolts of the misaligned idlers
8. Adjust the idler frame by moving towards the head pulley the side of the idler that belt is contacting more than the other side.



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Idler Inspection and Maintenance

1. Periodic inspection and maintenance is required of all idlers.
2. A walking inspection of the conveyor should be conducted to detect unusual sounds or visible issues.
3. Listen for excessive noise that could indicate an issue.
4. Visually inspect to ensure all guarding is in place.
5. Visually inspect rollers to ensure they are turning.
6. Visually inspect belt to ensure it is tracking in the middle of the idlers.
7. Visually inspect for build up of fugitive materials on idler rolls, both the face and the ends of the rolls.
8. Use proper Lockout/Tagout methods prior to working on any conveyor.
9. Correct any of the above issues to ensure proper function of the conveyor.
10. Failure to correct any of the above operation and maintenance issues will decrease the life of the idler and the belt, as well as decrease the performance of the conveyor system.