

EZ-SKIRT[®]

Conveyor Skirting System

Installation and Users Manual



Manufactured by

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May 2011

INTRODUCTION

The patented EZ-SKIRT® Conveyor Skirting System is a simple, effective and user-friendly system that is very easy to install and maintain. There are no nuts, bolts, clamps or fasteners to vibrate loose, break or corrode. The rubber sealing strips can be installed, adjusted and replaced easily by one person, substantially reducing maintenance time. EZ-SKIRT® can be installed a variety of configurations by using various stainless steel hangers and rubber skirting sizes.

WARNING!

Shut down, lockout and tagout conveyor and related accessories before installing equipment or conveyor accessories or working on or near conveyor. Before using cutting torch, welders or grinders, make sure there are no flammables in the area and test gas level and dust content to prevent fire or explosion. Adhere to all company, federal and O.S.H.A. rules and regulations when working on or near conveyors and related equipment. All work must be done by properly trained personnel in a safe manner.

TOOLS REQUIRED

Tape Measure
Marker or chalk line
Grinder
Clamps
Welder and proper electrodes
Torch (optional)
Non Flammable fire blanket to cover belt*
Rubber Mallet and Screwdriver

***Always cover conveyor belt and flammable surfaces with non flammable fire blanket when cutting and welding.**

***Always keep fire extinguisher and or water hose nearby during cutting or welding, have someone watch for hot spots or potential fires. Whenever leaving work area, inspect for hot spots or potential fires.**

BEFORE INSTALLATION

WARNING!

Use extreme caution when working near or around operating conveyor belts and accessories. Body or clothing may be caught or pulled into conveyor or other equipment causing severe injury or death.

Always wear hard hat, safety glasses, safety footwear, and other proper safety equipment when working near conveyors and related equipment. Keep work areas around conveyors and related equipment clean and always make sure safety guards and emergency stop devices are in proper operating condition. Beware of and correct anything that could cause a slip, trip or a fall. Observe all company and government safety rules and regulations applicable when working on or near conveyors and related equipment and accessories.

Observing conveyor before installation

1. Determine load point and direction of belt travel.
2. Observe conveyor belt tracking. Conveyor must track straight for proper operation of sealing systems. Belt wandering can cause belt to go behind skirting or run against supporting structure and cause damage.
3. Check for belt sagging in loading zone. For optimum performance of conveyor sealing systems, conveyor must not sag under load. Belt sag can cause material leakage and create entrapment points that will wear the conveyor and accessories prematurely. If belt sags under load, additional idlers, slider bed or impact/slider bed must be added in loading zone.
4. Skirtboard structure, chutewall and wear liners should be in good condition. Wear liners should be properly spaced above belt. (See preparation and installation)
5. Material should be loaded onto the center of the conveyor belt, preferably at or near the speed of the conveyor belt.
6. Conveyor belt and cleaning system should be in good operating condition.
7. Correct any problems before installation for proper operation.

PREPARATION AND INSTALLATION

Remove old skirting and hardware. Inspect conveyor chute wall and structure and make sure it is straight and structurally sound. If liners are used, make sure they are straight and at the proper height above conveyor belt to avoid entrapment points. Liner should be approximately .375" above belt at entry of load point widening to approximately .75" at exit of skirtboard.

Determine placement of stainless steel hangers. Mounting height variables include hanger angle, skirting size and durometer, conveyor trough angle and liner or no liner application. See typical installation diagrams. With skirting installed in hanger, it is recommended that at least 3" of the "T" lug are installed in the serrated channels.

Once correct height is determined, prepare the chute wall by removing paint and/or rust to ensure a proper surface for welding. After chute wall is prepared for welding, snap a chalk line or mark the proper distance above the belt for hanger location. Starting at the back or tail end of the conveyor, clamp or hold hanger in place and stitch weld 1" every 4 inches with stainless steel rod. 3/32" or 1/8" electrodes are recommended. The bottom of the hangers may be welded through the serrated slots if there is not enough clearance to weld from the bottom. Weld from the tail end to the exit end alternating from the top to the bottom. Hangers should be in tight contact with each other end to end for proper installation of sealing strips.

Once the hangers are attached to the structure, simply insert the "T" lugs of the skirting into the channels and tap into light contact with the belt. Note right and left sides of sealing strips and arrows for proper overlap of joints. Arrows go in the direction of the conveyor. Rubber lubricant or soapy water makes installation easier. To remove skirting, simply place large screwdriver behind rubber "T" lugs and pry outward and pull skirting downward and outward from hanger.



SEALING TAIL END OF CHUTE

Remove old tail skirt and hardware and prepare surface of chute for welding as above. On troughed belts, a minimum of 1" of clearance is needed on the outside lower edges measured from the hanger to the belt. Stitch weld the hanger to the chute with 1" welds every 4 inches. Trim the tail skirt to match the trough of the conveyor and install it so it lightly touches the belt. It is recommended that a flexible tail skirt be used that can "lay" lightly on the belt so any material sticking to belt can continue under the skirt. With a tailbox or EZ-ACCESS® PIVOTABLE™ tail box, the stainless hanger and skirt can be installed on the inside of the structure for simple No-Fastener tail skirt adjustment and replacement.

INSTALLATION OF TRANSITION AREAS

At transition areas, hangers may be cut to conform to the belt. (See installation diagram). The skirting will then conform to the transition area it is installed in the hanger.

ADJUSTING SKIRTING

Do not attempt to adjust the skirting with conveyor running. Lock out and tag out conveyor and use proper safety precautions at all times when doing conveyor maintenance. Where skirting needs adjustment or leakage is present, simply use a rubber or urethane mallet and tap the skirting into light contact with the belt. Change out skirting when top of skirting is approximately 1.5" from bottom of hanger. To remove skirting place a large screwdriver behind rubber "T" lugs and pry outward and pull skirting from hanger.

Transition



