

Installation Instructions: K-Safeguard Vee Plough Cleaner

Kinder Australia Product:	K-Safeguard Vee Plough Cleaner
Product Category:	Belt Cleaning System Products
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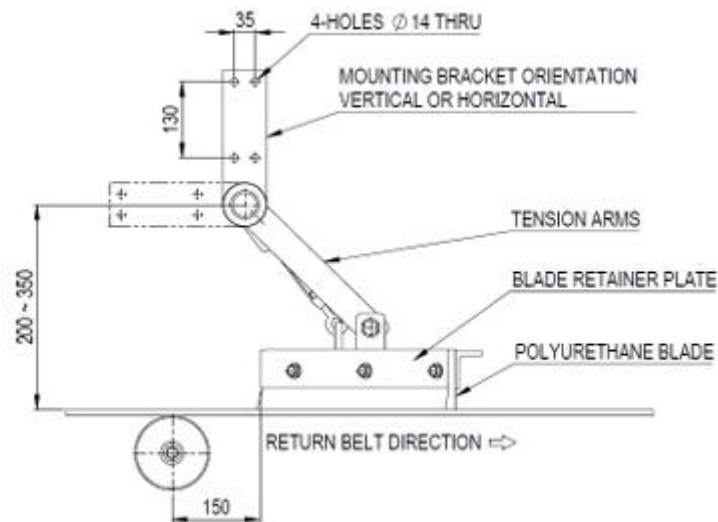
Overview:

The K-Safeguard Vee Plough Cleaner is a floating return side belt cleaner, suitable for single direction conveyors. This cleaner will rid all spillage and extraneous material from the belt in order to protect the tail pulley. This will also aid in belt tracking and reduced maintenance costs and down time.

Procedure:

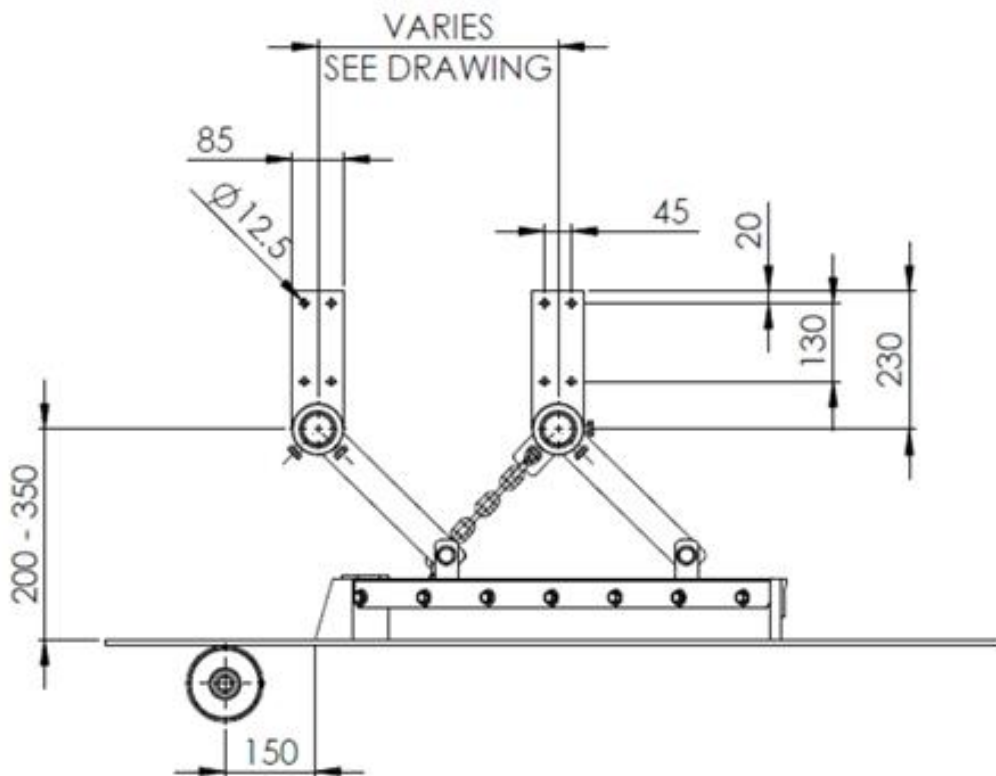
1. Run the conveyor until all the material is removed.
2. Isolate, lock and danger tag the conveyor at the main positive isolator in accordance with the appropriate health and safety regulations in force at your site to prevent unauthorized starting.
3. Loosely assemble the plough if not already provided as so.
4. Select a location to install the K-Safeguard Vee Plough Cleaner where there is constant height clearance of at least 240mm and where structure is available to mount the brackets. Ideally this location should be as close as practical to the tail pulley and 150mm from a return idler.

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5. Place the assembly on the return side of the belt in the selected location. With the mounting brackets in either a horizontal or vertical orientation, mark and drill 14mm diameter holes in the required location. The mount hole locations should correspond to a pole centre height of 200mm to 350mm above the return side of the belt to ensure the plough operates effectively. This is for standard cleaners only, for custom designs, please see the GA drawing. For dual pole "FailSafe" Vee Ploughs, please see the last page.
6. Bolt the brackets in place with M12 bolts and secure the pole with bracket collar bolts. Check the plough pole is horizontal and perpendicular to the belt. Use the clearance in the holes if required for adjustment.
7. Centralise the plough on the belt and lock shaft collars into position, ensuring the plough is still able to "float" up and down freely.
8. Adjust the turnbuckle so that the plough nose is supported, and the blades sit evenly across the belt.
9. Lubricate tension arm bolts with general purpose grease. Check all fasteners are tight.
10. Test run the conveyor. Inspect the plough for smooth operation. If there are any vibrations, stop and lock out the conveyor so the turnbuckle can be adjusted to lift the nose of the plough slightly.
11. Inspection and if necessary, adjustment, should be included in the normal inspection schedule. Checks should include:
 - A. A structural inspection to ensure the cleaner cannot become unrestrained. Check all bolts are tight whilst the cleaner is also still able to "float" up and down freely.
 - B. Belt return side cover inspection to ensure the cleaner is not damaging the belt cover. c. Polyurethane blade inspection.
 - C. Polyurethane blades should be replaced once the belt comes within 10mm of the retainer. These can be easily replaced by removing the blade retainer bolts/plates and replacing the two blade sections. Contact Kinder Australia for a replacement blade set.

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12. See above for dual pole “FailSafe’ systems. These HD vee ploughs have similar mounting brackets that must be installed so that both poles are mounted at the same height parallel to the belt (+/-2mm). If this is not adhered to, the floating cleaning edge may bind up. This lack of motion up and down due to wear of the blades and/or change in belt tension may cause an inability to adjust to be effective. Check for free motion once all locking collar grub screws are tightened.
13. Set the chain to ensure the steel body of the plough can move but also will not bottom out on the belt when the wear limit is reached. The chain should allow for max 30mm of movement downwards from new blades. Be sure to note the belt may be untensioned when setting this slack in the chain, therefore it may be possible to inadvertently give the chain too much slack which makes it possible that the cleaner body could contact and cause damage to the belt. Once the chain length is set, cut excess chain links from the assembly.