

Tru-Trac Trough Tracker (New Design)

Installation Instructions



1. After identifying the problem area on the load-carrying side of the belt, looking particularly for the high spot, prepare to install the Tru-Trac Trough Tracker at or just before the problem area, ensuring that it is installed before transitional idlers and after loading chutes.
2. Remove a standard troughing frame at the problem area. Remove the wing rollers from the Tru-Trac Trough Tracker.
3. Fit the Tru-Trac Trough Tracker onto the structure. Before tightening L-shaped brackets, ensure both brackets are knocked fully forwards or backward to ensure the L-shaped brackets are perpendicular to the structure and lined up exactly opposite each other. Once completed, tighten all bolts.
4. **Very important:** Ensure the Tru-Trac Trough Tracker is installed in the correct direction. The wing rollers once installed must touch the oncoming conveyor belt first.



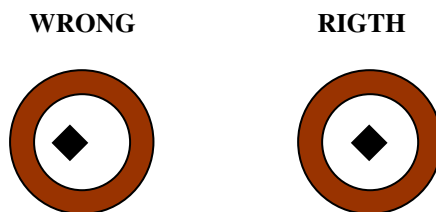
5. Set the space from the mounting bracket and the end of the protruding square tubing evenly, on both sides, to ensure the Tru-Trac Trough Tracker will be centre on the structure.
6. Before tightening the Tru-Trac Trough Tracker height adjustment bolts to the L-shaped brackets, ensure that it has got sufficient tension between the belt and the rubberised centre roll, by pushing it backwards and forwards. It should be quite stiff and tight. If it moves easily backwards and forwards, there is not enough tension.
7. Loosen the height adjustment bolts and move it upward one hole on the L-shaped bracket. Recheck tension, if tension is insufficient move up another hole until sufficient tension is achieved. Once you're satisfied with amount of tension, tighten height adjustment bolts. *
8. Install the Tru-Trac Trough Tracker slightly higher than the normal existing idlers to ensure good traction.
9. Set the sliding bracket to be completely to the outside of flat bar and perpendicular. On the sliding brackets tighten the inside bolts and only slightly tighten the outside bolts, thus allowing the sliding bracket to swivel. Then insert the wing rollers into the sliding bracket, ensuring the end of the shaft is flush with the bottom of the bush and the wing rollers clear the flat bar by +/- 10mm, allowing the rollers to rotate freely.
10. Swivel the wing rollers upwards until they begin to touch the underneath side section of the belt, so that only 100mm or 1/3 of the wing roller is touching the top outer section of the unloaded belt. (Ensuring that the bottom section of the belt remains in contact with the rubberised centre roll) **
11. Check that the angle of the wing rollers is similar. Then inspect to which side the belt is misaligning and swivel the roller on the misaligned side slightly higher and drop the opposite roller by the same amount.
12. The distance between the end of the flat bar and the sliding brackets, should be the same on both sides.
13. Finally, tighten all bolts
14. Manual test before start up. Belt **NOT** running.
 - Move the wing rollers backwards and forwards to ensure that both wing rollers remain in contact with the belt throughout the motion, obviously the roller on the opposite side will lose some tension against the belt. If not, adjust the sliding bracket accordingly until the correct contact is achieved.
15. Installation is now complete, start the conveyor belt to test the Tru-Trac Trough Tracker.

Caution – Danger! Take care.

16. Test that the Tru-Trac Trough tracks the belt from both sides. Using a blunt object, manually de-track the belt by pushing the outside of the Tru-Trac Trough fully in one direction. When you release it, ...
... The Tru-Trac Trough should automatically centre the belt. Repeat this test by pushing the outside of the Tru-Trac Trough fully in the opposite direction. If installed correctly, it should centralise the belt from both sides.
17. If the belt is still misaligning to the same side. STOP the belt. Then swivel the roller on the misaligned side slightly higher and lower the opposite roll. Tighten the bolts. Restart the belt and re-test.
18. If the belt is now misaligning to the opposite side. STOP the belt. Then swivel the roller on the misaligned side slightly higher. Do not adjust the opposite roller. Tighten the bolts. Restart the belt and re-test.
19. If the problem still persists, knock the existing standard trough frames perpendicular to the structure before and after the Tru-Trac Trough.
20. Remove any other tracking devices in front of or behind the Tru-Trac Trough, as they will reduce or interfere with the performance of the Tru-Trac.

21. Important for Severely Misaligned Belts

After installation, if the tracker remains kicked in to one side or does not centralise the belt enough move the L-shaped brackets forwards or backwards, depending on direction of misalignment, until the shaft is in the centre of the inner tube, to ensure equal movement to both sides.



Additional Notes:

* Point 7

Provided the wing rollers are set correctly and have good belt contact the Tru-Trac Trough tracker will still work on belts conveying light aggregate, or sections of conveyor belt that lift, even though you will be unable to achieve sufficient tension on the rubberised centre roll,

** Point 10

If you have a 45° troughing angle on the belt, you will also need to adjust the sliding brackets on the flat bar inwards, in order to achieve sufficient contact on the wing rollers.