

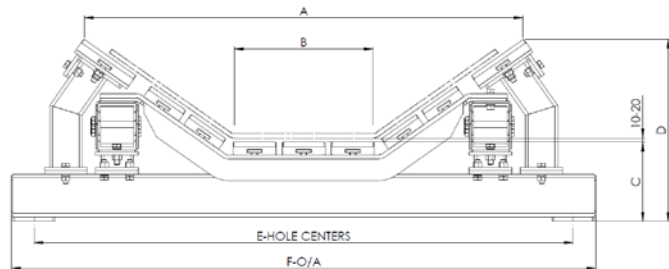
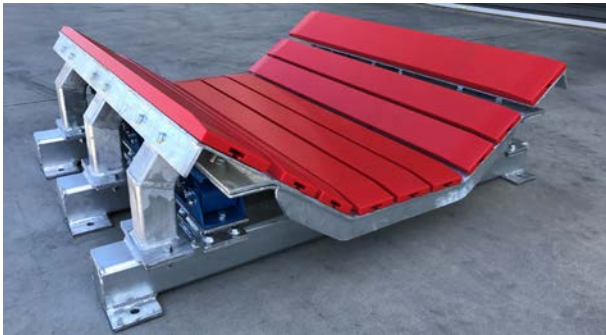
Installation Instructions - K-Shield® Dynamax Impact Belt Support System

Kinder Australia
product: Product
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K-Shield® Dynamax Impact Belt Support System
Belt Support
27.03.2017
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Overview:

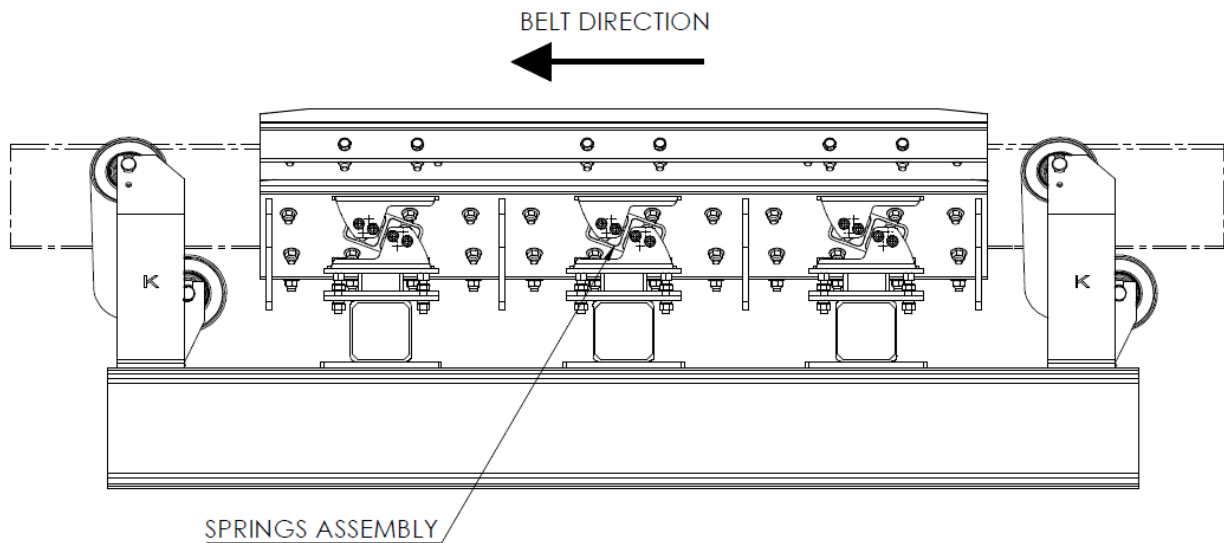
The K-Shield® Dynamax Impact Belt Support System is used to provide proper belt support under a conveyor transfer point and protect the belt from early failure due to pinch point damage. It is used for heavy duty applications where high impact loading is expected and works in addition to what a static impact belt support system would allow by having the impact cradle on springs. Dimensions on the drawing below are provided by the customer prior to fabrication to match the current belt profile and allow a straightforward fitment.



Procedure:

1. Shut down and lock out conveyor before doing any maintenance. A belt lifter in place near the impact zone will improve access for installation.
2. Remove the existing impact idlers from the conveyor structure. Inspect the structure for damage or misalignment.
3. The location of the dynamic impact cradle must have clearances at the leading end from structure, frames and consecutive impact cradles as the torsion springs allow movement forward as they compress downward. The amount varies depending on the specification, however most should allow 10mm between the leading edge of the cradle and other components.
4. Drill holes as required in the stringers of the conveyor for the mounting holes (Dimension E) at the required pitch.
5. Mount the impact bed with spring assemblies in such an orientation that the belt travels in the shown direction. (Wing support structure removed for clarification).

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6. Ensure that the unit is preceded and completed by a fixed or adjustable idler set so that the belt leads both on and off the impact slider bars. Failure to do this will result in reduced impact slider bar life and belt wear.

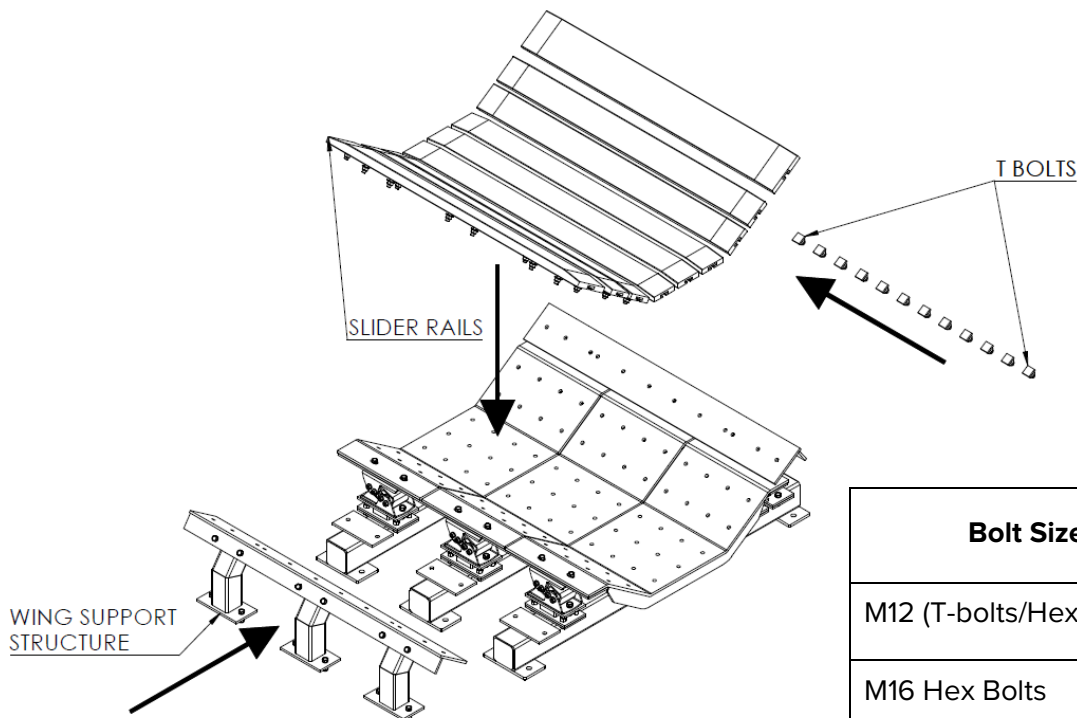


7. Check the alignment of the cradle with respect to the belt profile and nearest idler sets. The cradle centre should sit slightly lower than the nearest idler set centre roll as designed.

It is critical that the unit is aligned with the conveyor system; any misalignment will cause belt training problems.

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8. Check all fasteners on the assembly are tight, including any mounting hardware. Refer the table on page 4 for the torque settings.
9. Test run conveyor. Inspect the underside of the belt for any damage.
10. The system should be inspected after 8 hours of operation for any loose bolts or damage. Regular inspection should be included in the normal inspection schedule.
11. Minimum thickness of slider rails is 18mm. Slider rails should be replaced at this wear thickness.
12. To replace slider rails, slide the required amount of T bolts into the slider rail and space them out so they fit into their mounting holes. Fasten them with their respective nut and washer. Ideally a belt lifter would be in place to perform this maintenance task, however removal of the wing support structure may provide additional access as shown below.



Bolt Size	Torque Requirement
M12 (T-bolts/Hex Bolts)	92 N.m.
M16 Hex Bolts	215 N.m.