

Installation Instructions: K-Commander® Direct Series

Kinder Australia Product:	K-Commander® Direct Series
Product Category:	Conveyor Belt Tracking
Issue Date:	9.3.22
Revision:	3



⚠ WARNING ⚠

**Always obey all applicable safety rules.
Be sure all power to the conveyor has been disconnected and controls are locked out.**

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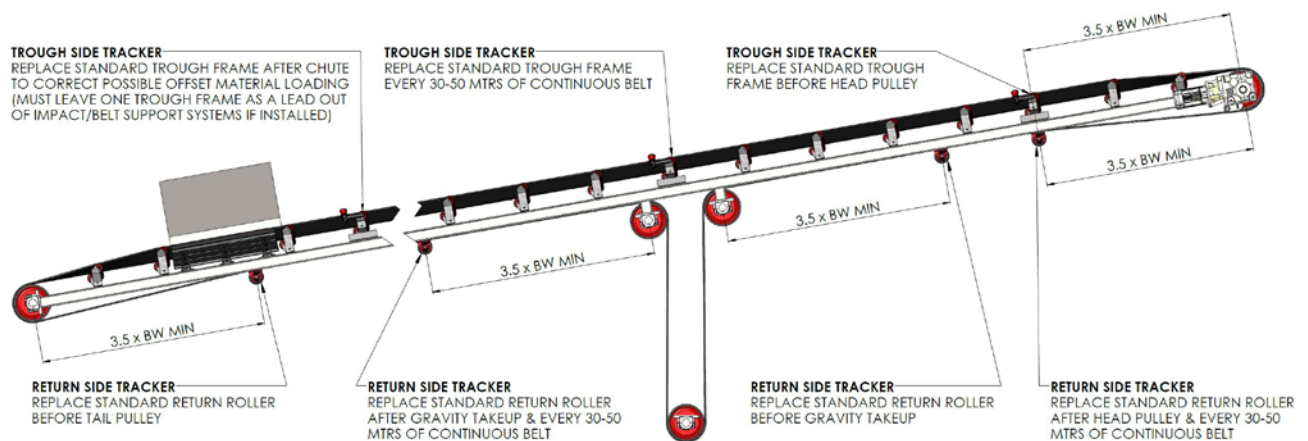
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Conveyor Belt Tracker Installation

Correct installation of the any tracker is essential to ensure it not only works as intended, but also because poor tracker installation can exacerbate tracking issues instead of resolving them.

Placing tracking idlers in the correct locations will allow for the best overall tracking of the belt. Kinder recommends placing a tracker in the following locations:

- Prior to every pulley.
- After the head pulley (and drive pulley when these are separate instances)
- After the gravity take-up (or any other series of non-drive pulley, such as trippers)
- After the loading point to counter the possibility of off-centre loading
- Every 30-50 metres of continuous belt



Ideally trackers should not be placed less than $3.5 \times BW$ to the nearest pulley or within the transition area (even if an adjustable tracker is used). This is due to the greater belt wrap of the pulley allowing it greater control over the belt; which the tracker has to overcome. This is heavily limited by the amount of friction the tracker can apply to direct the belt, which will generally never be enough to completely overcome the pulley, however, when installing at this distance is not an option, having a tracker two times the belt width from a pulley, for example, is better than not having one at all.

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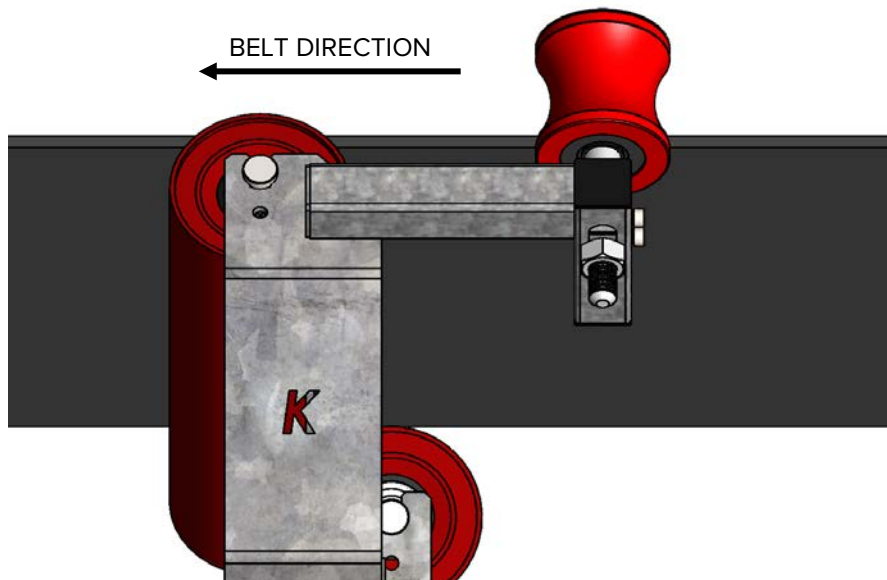
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K-Commander® Direct Series Idler Installation Considerations

Both the trough and return K-Commander® Direct Series trackers should be installed in place of regular idlers on the belt. Adhere to typical safety procedures in place at the site of install and complete the installation as if the tracker was a normal idler. Mounting bolts are not included, please use an M16 bolt of suitable length for your application.



When installing the direct series trackers, it is important to ensure that the side guide rollers are positioned before the idler. Trackers installed with the side guide rollers after the idler will suffer from worsened tracking of the belt due to the reversed tracking motion.



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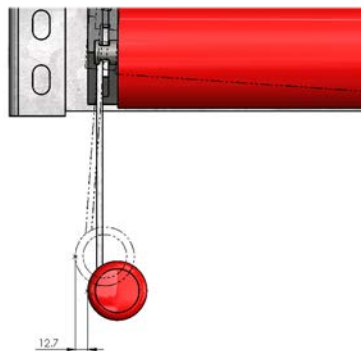
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The K-Commander® Direct Series trackers operate using friction with the belt and the tracker. This means that it is not recommended to run special rollers, such as polymer or rubber disc return rollers, in the trackers, as these types of rollers have lower friction either through surface area or a smaller friction coefficient.

Note: K-Commander® Coated Steel Rollers are the recommended product for use with tracking idlers due to their superior friction.

K-Commander® Direct Series trackers are designed to sit at least 12mm higher than the standard idler frame, but shims can be used to increase this height up to 18mm higher. This is to increase the tension on the tracker, wrap angle on the roller, and friction provided by the tracker, which all help to improve tracking response.

K-Commander® Direct Series side guide rollers require approximately 25mm of clearance to allow for proper rotation. Extra consideration must be given when fitting the return model into stringers, as the mounting may interfere with the tracker's operation. In situations where this clearance cannot be guaranteed, alternative trackers may be appropriate, such as the K-Commander® Prime Tracker.



K-Commander® Direct Series Adjustable Trackers are intended to suit multiple trough angles for stock availability. They are NOT intended for use in transition zones and will not operate at full effectiveness if installed in one.

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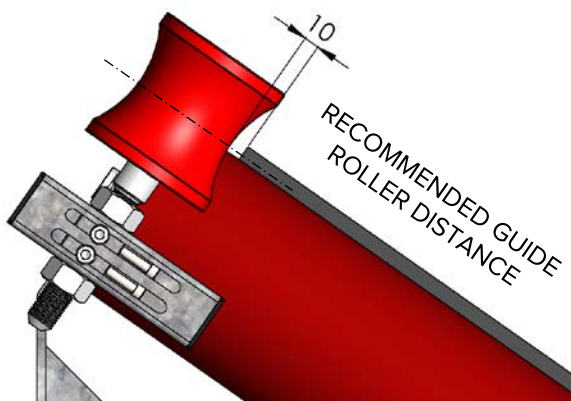
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Positioning Guide Rollers

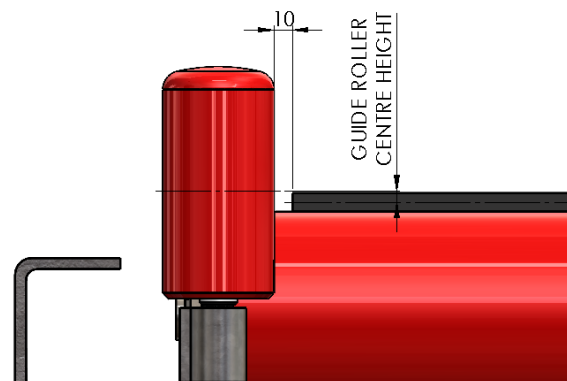
The recommended gap between the belt edge and the side guide rollers is 10mm, however, the rollers can be installed closer for a more responsive system, or further if surge feeding introduces temporary mistracking that self-corrects. While the system will track more aggressively when guide rollers are closer, they will also wear faster. Similarly, when guide rollers are further, they will wear more slowly, but potential mistracking will be larger.

The height of the side guide roller should be set so that the centre of the roller is in line with the belt. This is most important with the HD guide rollers, which should be as close to perfect alignment as possible. Due to the consistent profile of the SD guide rollers, they will operate optimally without perfect alignment, and so misalignment is allowable up to $\pm 10\text{mm}$.

ADJUSTABLE ARM AND HD GUIDE ROLLER



FIXED ARM AND SD GUIDE ROLLER



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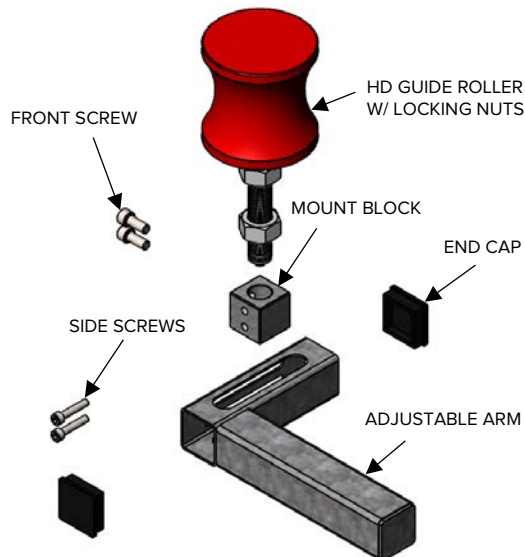
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The adjustable guide roller arm allows for two degrees of freedom. The rollers can be adjusted vertically in the mounting block, and the block itself can be shifted horizontally.

Once a satisfactory vertical position has been achieved, remove the end cap to allow access to the side screws and tighten those.

The roller can then be adjusted to the desired distance from the belt edge by moving the mount block inside the tube. It can then be locked in place by fastening the front screws up against the tube face.

The HD guide roller also has locking nuts which can be tightened to the outside of the tube to provide extra protection against movement.

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