

Installation Instructions: K-Commander® Control Series S & R

Kinder Australia Product:	K-Commander® Control Series S & R
Product Category:	Conveyor Belt Tracking
Issue Date:	28.4.23
Revision:	4

Overview:

The K-Commander® Control Series is designed to promote correct conveyor belt alignment. As the return strand of the belt is critical to maintain belt alignment, the installation is intended only for the return side.

Benefits:

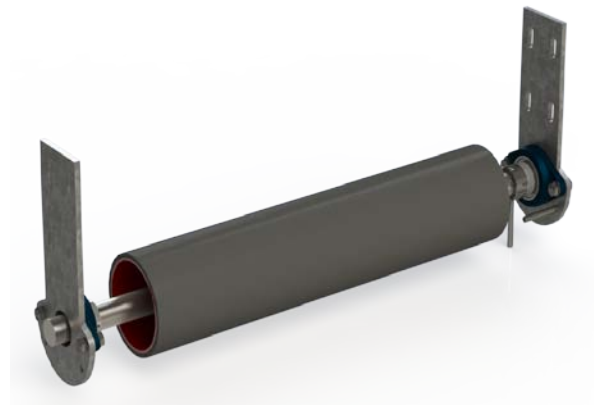
The unique engineered action of the central ball and socket link is encased in a rubber lagging covered steel tube. This protects the internal mechanics and ensures that the belt runs true. A key benefit of the K-Commander® is that it tracks without any external moving parts, pivots or service rollers and therefore requires no additional maintenance.

Key features:

- Rubber lagging for extreme wear resistance.
- No external pivoting parts or servo rollers.
- Heavy duty construction.
- Adjustable mounting brackets for ease of installation.
- Lagging can be replaced / reconditioned.
- Available in single or reversing models.



Single direction model show



Reversible model show

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Structure:

The K-Commander® is designed to keep the conveyor belt permanently centred by correcting any faults present that would otherwise prevent the right alignment.

It consists of a steel tube, which is connected by a special ball-and-socket link with the steel shaft.

The interior functionality of the K-Commander® Control Series is protected by a rubber lagging which keeps the idler clean and prevents any risk of interference from foreign objects. It also promotes better grip capabilities. Both of these features are critical for the efficient functioning of the conveyor system.

The K-Commander® Control Series is supplied with the mounting brackets (refer to drawing on page 5/6)

All K-Commander® Control Series are greased for longer life performance.

Operation:

When the belt misaligns, the K-Commander® Control Series is activated and forces the belt to run normal and straight again. This happens automatically due to the internal mechanism and the position of the idler and shaft. The force on the belt ends when the alignment of the belt is reached

SINGLE DIRECTION

When installing the Single direction version of the K-Commander®, the shaft's flat face must be installed at 45 degrees with respect to the belt.

Refer to page 3 for detailed instructions.

REVERSING DIRECTION

When installing the Reversible direction version of the K-Commander®, the shaft's flat face/positioning lever must be installed at 90 degrees with respect to the belt.

Refer to page 4 detailed instructions.

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SINGLE DIRECTION

Installation Procedure:

1. Isolate, lock and danger tag the conveyor at the main positive isolator in accordance with the appropriate health and safety regulations to prevent unauthorised starting.
2. Remove the existing return idler including the brackets and replace with the K-Commander® Control Series S.
3. **For belts of less than 30m in length, it is advised to use one K-Commander® Control Series S.**
4. **For very large belts the distance between two K-Commander® Control Series S should be about 25m.**
5. The K-Commander Control Series idler can be placed above or below the belt, so long as there is adequate pressure on the roller face.
6. The distance between tail drum and K-Commander® Control Series idler should be a minimum of 2.5m.
7. When placed below the belt, a K-Commander® Control Series S may replace a return idler.
8. **In a K-Commander® Control Series – Single Direction, the shaft's flat face must be installed at 45° with respect to the belt. (Refer to Pic 1).**
9. Remove personnel danger tags. Unlock main positive isolator and close. Start belt on test or manual control.
10. Return conveyor to service and observe performance. To increase tracker response/sensitivity, place more pressure on the roller face using the adjustment in the mount plate slot.

Maintenance:

Inspection:

It is advisable to complete a regular weekly inspection of the K-Commander® Control Series S or similar, depending on the type of material carried or duration of operation.

Cleaning:

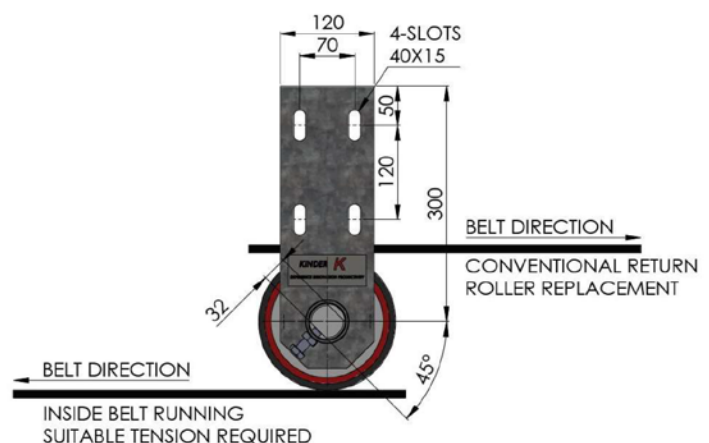
It is advisable to clean the K-Commander® Control Series S, to prevent any materials sticking or hardening on them. This ensures correct and long-lasting functionality.

Replacement Parts:

Contact Kinder Australia to order a replacement unit.

Troubleshooting:

Once installed, if you are having trouble tracking your conveyor belt and or the tracker has some mechanical problem, please contact Kinder Australia at your earliest convenience.



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REVERSING DIRECTION

Installation Procedure:

1. Isolate, lock and danger tag the conveyor at the main positive isolator in accordance with the appropriate health and safety regulations to prevent unauthorised starting.
2. Remove the existing return idler including the brackets and replace with the K-Commander® Control Series R.
3. **For belts of less than 30m in length, it is advised to use one K-Commander® Control Series R.**
4. **For very large belts the distance between two K-Commander® Control Series R should be about 25m.**
5. The K-Commander® Control Series R can be placed above or below the belt, so long as there is adequate pressure on the roller face.
6. The distance between tail drum and K-Commander® Control Series R should be a minimum 2.5m.
7. When placed below the belt, K-Commander® Control Series R may replace a return idler.
8. **In a K-Commander® Control Series - Reversing direction, the shaft's positioning lever must be installed at 90° with respect to belt. (Refer to Pic 2)**
9. Remove personnel danger tags. Unlock main positive isolator and close. Start belt on test or manual control.
10. Return conveyor to service and observe performance. To increase tracker response/sensitivity, place more pressure on the roller face using the adjustment in the mount plate slots.

Maintenance:

Inspection:

It is advisable to complete a regular weekly inspection of the K-Commander® Control Series R or similar, depending on the type of material carried or duration of operation.

Cleaning:

It is advisable to clean the K-Commander® Control Series R, to prevent any materials sticking or hardening on the lagging. This ensures correct and long-lasting functionality.

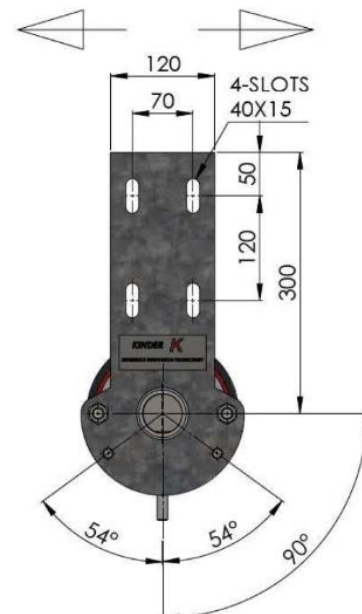
Replacement Parts:

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Troubleshooting:

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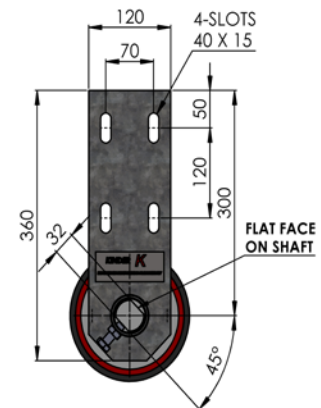
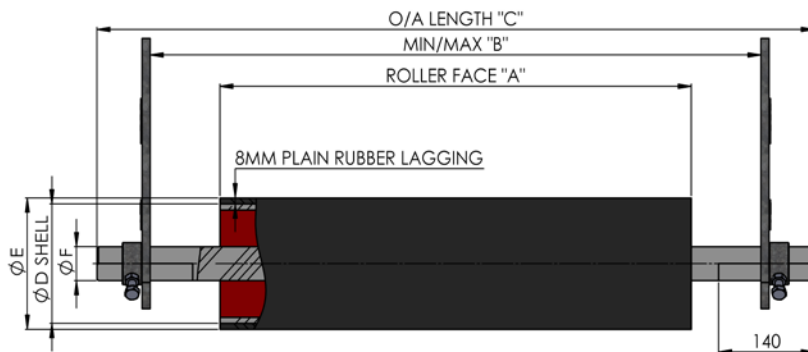
TWO WAY OPERATION
UPPER AND LOWER BELT INSTALLATION



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K-Commander® Control Series S

Belt Width mm	A mm	B mm	C mm	D mm	E mm	F mm	Description	Part Number Single Direction
450/500	540	900/620	900	159	175	45	K-Commander Control Series S to suit 450/500BW	K-TRA-SC-0450/500-S
600/650	690	1050/770	1050	159	175	45	K-Commander Control Series S to suit 600/650BW	K-TRA-SC-0600/650-S
750/800	840	1200/920	1200	159	175	45	K-Commander Control Series S to suit 750/800BW	K-TRA-SC-0750/800-S
900/1000	1040	1400/1120	1400	159	175	45	K-Commander Control Series S to suit 900/1000BW	K-TRA-SC-0900/1000-S
1050	1090	1450/1170	1450	159	175	45	K-Commander Control Series S to suit 1050BW	K-TRA-SC-1050-S
1200	1240	1600/1320	1600	159	175	45	K-Commander Control Series S to suit 1200BW	K-TRA-SC-1200-S
1400	1530	1850/1570	1850	193	209	55	K-Commander Control Series S to suit 1400BW	K-TRA-SC-1400-S
1500/1600	1730	2150/1870	2150	193	209	55	K-Commander Control Series S to suit 1500/1600BW	K-TRA-SC-1500/1600-S
1800	1930	2350/2070	2350	193	209	55	K-Commander Control Series S to suit 1800BW	K-TRA-SC-1800-S
2000	2130	2550/2270	2550	193	209	55	K-Commander Control Series S to suit 2000BW	K-TRA-SC-2000-S



Installation Instructions: K-Commander® Control Series S & R

K-Commander® Control Series R

Belt Width mm	A mm	B mm	C mm	D mm	E mm	F mm	Description	Part Number Reverse Direction
450/500	540	900/620	900	159	175	45	K-Commander Control Series R to suit 450/500BW	K-TRA-SC-0450/500- R
600/650	690	1050/770	1050	159	175	45	K-Commander Control Series R to suit 600/650BW	K-TRA-SC-0600/650- R
750/800	840	1200/920	1200	159	175	45	K-Commander Control Series R to suit 750/800BW	K-TRA-SC-0750/800- R
900/1000	1040	1400/1120	1400	159	175	45	K-Commander Control Series R to suit 900/1000BW	K-TRA-SC-0900/1000- R
1050	1090	1450/1170	1450	159	175	45	K-Commander Control Series R to suit 1050BW	K-TRA-SC-1050- R
1200	1240	1600/1320	1600	159	175	45	K-Commander Control Series R to suit 1200BW	K-TRA-SC-1200- R
1400	1530	1850/1570	1850	193	209	55	K-Commander Control Series R to suit 1400BW	K-TRA-SC-1400- R
1500/1600	1730	2150/1870	2150	193	209	55	K-Commander Control Series R to suit 1500/1600BW	K-TRA-SC-1500/1600- R
1800	1930	2350/2070	2350	193	209	55	K-Commander Control Series R to suit 1800BW	K-TRA-SC-1800- R
2000	2130	2550/2270	2550	193	209	55	K-Commander Control Series R to suit 2000BW	K-TRA-SC-2000- R

