K-Commander® Series Conveyor Belt Tracking Solutions

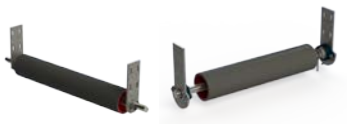
K-Commander® Series

Misaligned conveyor belts have the potential to cause many problems associated with the conveying of bulk materials. This includes material spillage and reduced life to conveyor belting and the conveyor structure.

Ideally a pivoting, self-centralising, belt training system, which rotates freely when the belt experiences mistracking behaviour should be installed. Other options include fixed tracking solutions without rotating structure.

Prime Tracker

Control Series S & R



Direct Series R

Direct Series TR HD

Direct Series TR SD

Direct Series VR SD

Guide Series INV

Conical Tracker

Tracking Discs

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

kinder.com.au

Issue: 202410

K-Commander® Series Conveyor Belt Tracking Solutions

K-Commander® Prime Tracker RETURN

Flexible, All-Direction Belt Tracking

K-Commander® Prime Tracker features flexible 360° rotational capability for correct and optimal conveyor belt tracking. The separate axial and rotational function mean the pivot bush can be utilised to achieve a completely free 360° pivot.

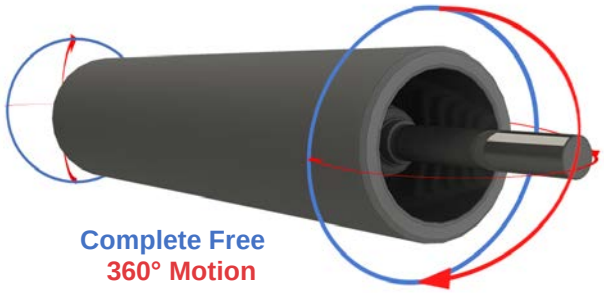
The K-Commander® Prime Tracker has been designed with two key stages. The first stage focuses on the inner shell which contains the shaft and an engineered pivoting bush allowing the axial movement of the tracker. The inner shell is protected by a flexible EPDM rubber boot.

The second stage focuses on the roller bearings, which allows the rotational movement of the tracker. Steering of the roller is activated by additional mass and friction to one side of the roller, which drags the roller drum forward and steers the belt back to centre. Results in the field have shown there is no downside to this design compared with a fixed axis design, and it has been found that the rubber coupling is a more reliable unit, due to its simplicity and given it is not affected by contamination like a conventional greased bearing.

In comparison to the conventional single axis pivots that restrict other belt trackers to the one plane of rotation, the K-Commander® Prime Tracker can be installed either above or below the conveyor belt and in reversing applications.

Key Features & Benefits:

- Thick rubber lagging provides extreme wear resistance.
- Low friction pivot design allows for instant correction of even minor misalignment.
- Tracker pivot design suits both single direction and bi-directional conveyors.
- Cylindrical (non-tapered) design extends service life and leads to uniform wear.
- Adjustable brackets allow for a more adaptive installation.
- Internalised design is suitably protected from dust and sand.



Complete Free 360° Motion

kinder.com.au

Issue: 202410

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

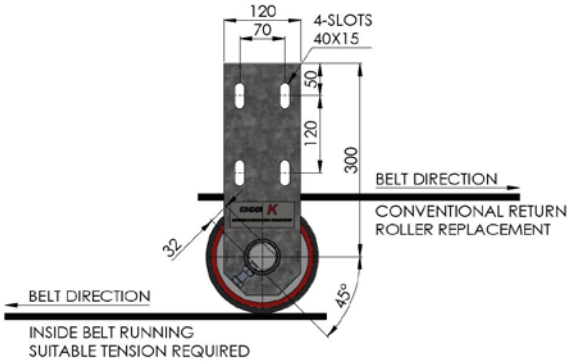
ABN: 28 006 489 238

K-Commander® Series Conveyor Belt Tracking Solutions

K-Commander® Control Series RETURN

Return Side Conveyor Belt Tracking

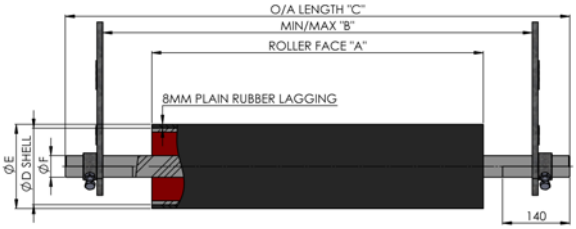
The installation of the K-Commander® Control Series is only for the return side, being the most critical surface of the belt in order to maintain belt alignment. The unique engineered action of the central ball and socket link is encased in a rubber covered steel tube. This protects the internal mechanics and ensures that the belt runs true.

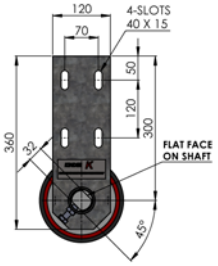


Key Features:

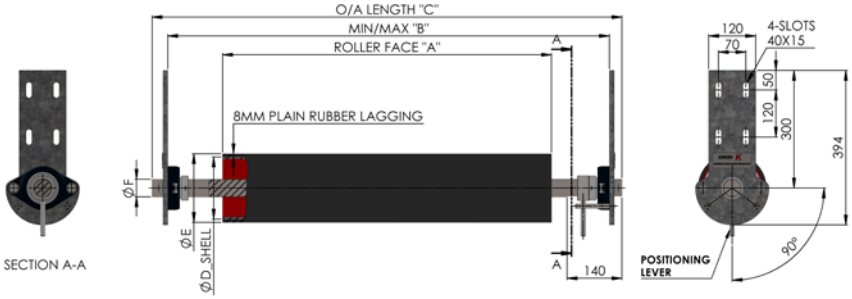
- Rubber lagging for extreme wear resistance.
- No external pivoting parts or servo rollers.
- Heavy duty construction.
- Adjustable mounting brackets for ease of installation.
- Available in single or reversing models.
- Flexibility to install above or below the belt.

K-Commander® Control Series S





K-Commander® Control Series R



kinder.com.au

Issue: 202410

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
🖷 +61 3 8587 9101

conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

K-Commander® Series Conveyor Belt Tracking Solutions

K-Commander® Direct Series

RETURN, TROUGH & VEE RETURN

The installation of K-Commander® Direct Series Conveyor Belt Tracking Solutions can also assist with correct conveyor belt tracking. These are a “pivoting base style”, available in both trough and return applications automatically providing belt centring. The outboard servo rollers cause the idler frame to pivot as they contact the belt edge and this swivel action causes the belt to realign automatically.

To further aid belt tracking, K-Commander® Coated Steel Rollers (rubber lagged trough and return rollers) comes standard on the K-Commander® Direct Series belt trackers. This results in the following:

- Better tracking performance in heavy duty applications.
- An increase in friction of approximately 20%, more in wet and sticky applications.
- Increased roller durability against the constant scuffing nature roller shells in trackers experience.
- Increased belt training response.

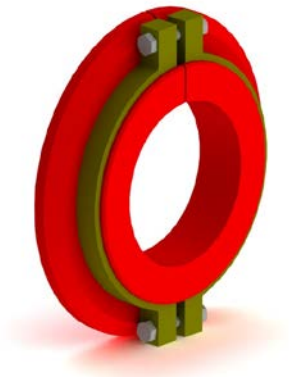
K-Commander® Direct Series TR HD

K-Commander® Tracking Discs

RETURN & CARRY SIDE

The K-Commander® Tracking Discs fits both flat and vee return rollers as well as some troughing rollers.

Ideally, they are located in pairs prior to the tail pulley to help align the conveyor belt, and so eliminating spillage from mis-tracked belts. They can also be installed after the feed area on troughing sets to help keep the belt aligned.



Key Benefits:

- Easy installation - split on one side to slip over the roller. No need to remove rollers.
- High wear resistant grade of Polyurethane used.
- No damage to belt edges.
- Can be used on the carry side also, (special frame required).

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

kinder.com.au

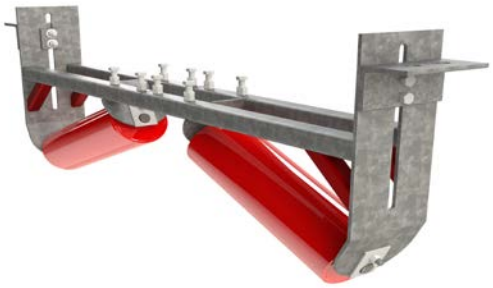
Issue: 202410

K-Commander® Series Conveyor Belt Tracking Solutions

K-Commander® Guide Series INV — RETURN

An all-purpose conveyor belt alignment idler ideally suited to short centred or reversing conveyor applications.

The two inverted vee rollers, put pressure down onto the belt, promoting centralised belt training. The universal frame adjusts to all types of mounting structures and is installed just after the head pulley, or prior to the tail pulley.



Key Benefits:

- Limits belt damage and controls spillage.
- Suitable for reversing belts and easy to install.
- Available for all belt widths.

K-Commander® Conical Tracker — TROUGH & RETURN

Kinder's proprietary designed and engineered K-Commander® Conical Tracker provides a solid and high-performance alternative to traditional side guide activated tracking systems.

The innovation behind K-Commander® Conical Tracker's "braking" technology is derived from understanding and utilising variations in tangential speed across the roller face to incite this "braking" action. This action drags the tracker forward on the side that the belt is mis-tracking towards.

Key Features:

- Cantilever rubber lagged wing rollers.
- Telescopic base frame to suit a range of mounting hole centre dimensions.

Key Benefits:

- Suits both reversing and non-reversing applications.
- Suitable for any system where belt lift off is experienced, e.g trippers, as the lack of side guide rollers fails to catch on the lifting belt.
- An active tracking system that continually responds to changes to belt deviation and delivers a better overall response.
- Cantilevered roller adjustment also acts to increase tracking response.

kinder.com.au

Issue: 202410

Kinder Australia Pty Ltd

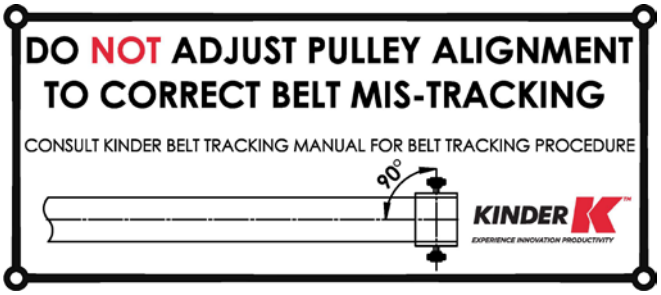
26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

K-Commander® Series Conveyor Belt Tracking Solutions



The **K-Warning Conveyor Belt Tracking Sign** is highly visible, when displayed **warns maintenance teams against adjusting belt tension at the pulley to compensate for a mis-tracking belt.**

Having the K-Warning Conveyor Belt Tracking sign on display, creates awareness of a common issue where maintenance team change the alignment of a pulley to track the belt. This action goes against the best practice for belt tracking that all pulleys should run parallel to each other.

The K-Warning sign should ideally be riveted to structure in a visible location near pulleys.

This type of adjustment can lead to uneven tension across the width of the belt. Under tensioning of the belt may cause drive traction issues and increases belt sag belt which leads to spillage. Over tensioning may damage the belt splice or plies.

K-Commander® Control Series

Issue: 202410

Kinder Australia Pty Ltd

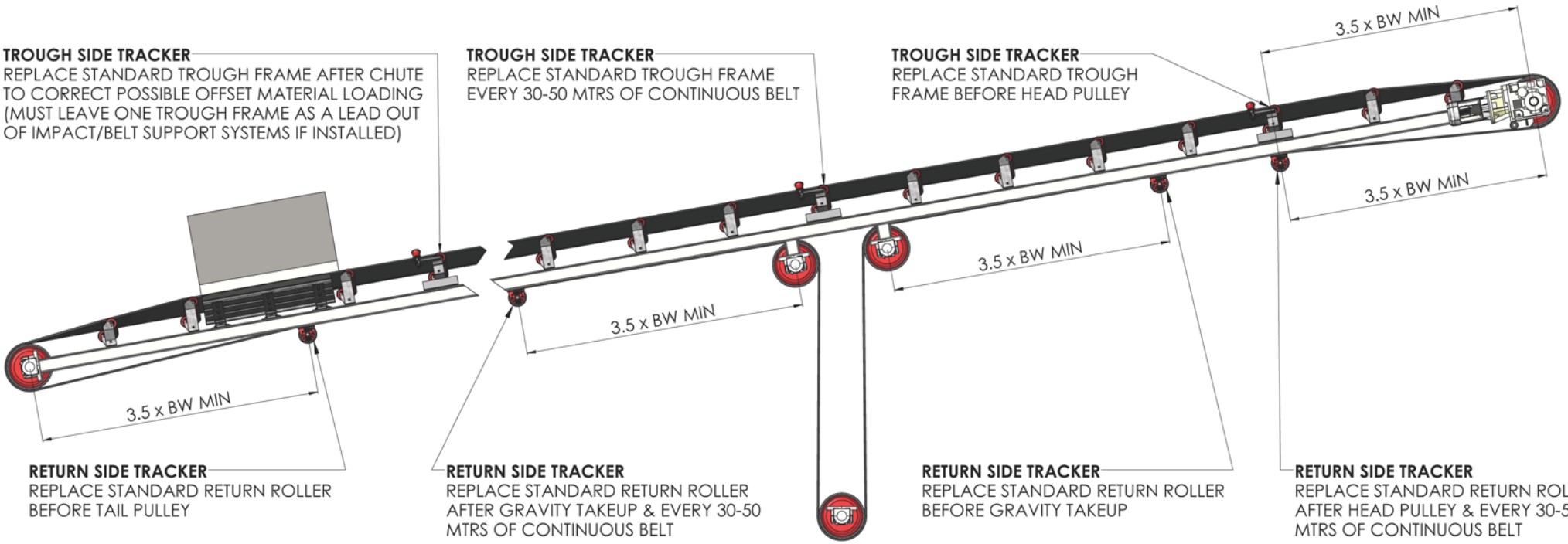
26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

ABN: 28 006 489 238

Recommended Conveyor Belt Tracker Placement Diagram



Kinder Australia Pty Ltd

ABN: 28 006 489 238

26 Canterbury Rd, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195
☎ +61 3 8587 9111
🖷 +61 3 8587 9101

kinder.com.au
conveyorsolutions@kinder.com.au

Issue: 202410