

# TRU-TRAC® BELT TRACKERS



#### TRU-TRAC® BRANCHES

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- Steelpoort
- Richardsbay
- Rustenburg
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- Saldanha
- Port Elizabeth
- Springbok

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- DRC
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# TRU-TRAC® GLOBAL FOOTPRINT

# ABOUT US TRU-TRAC®

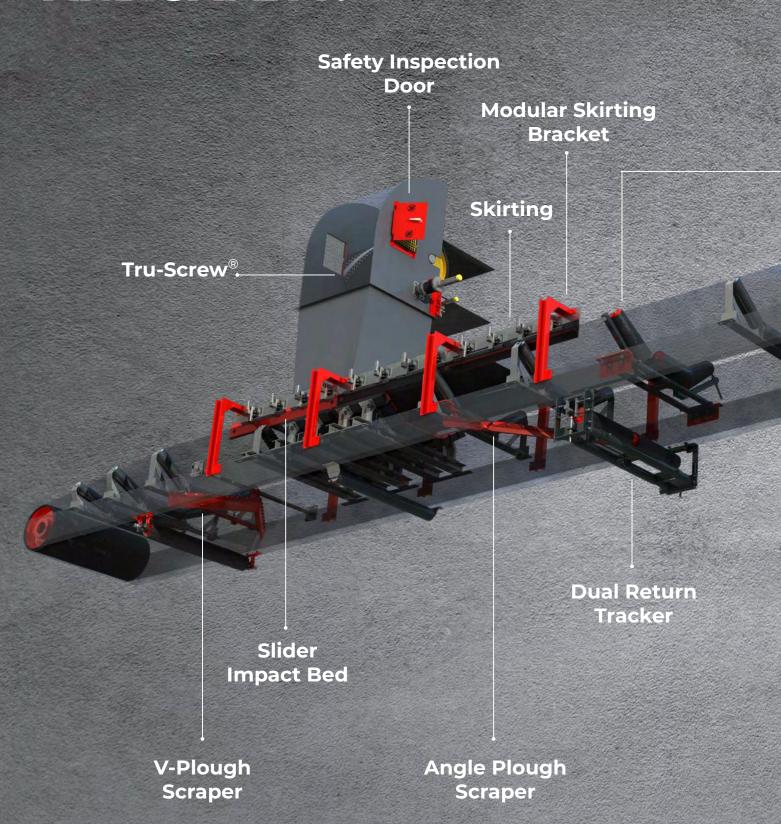
Tru-Trac<sup>®</sup> stands as a world-leading manufacturer and supplier of conveyor belt solutions and services, catering to the mining and bulk material handling industries globally. As a South African enterprise with a global reach, Tru-Trac<sup>®</sup> maintains a direct local technical sales and service presence across the African continent and a sales and distribution network spanning 80 countries.

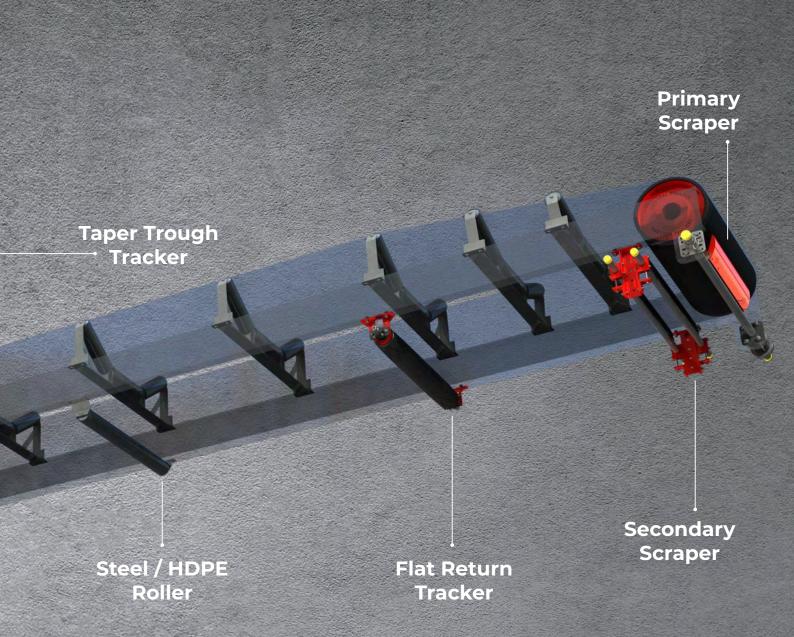
Conveyors serve as the lifeline for efficient bulk material handling operations, and for nearly 30 years, Tru-Trac<sup>®</sup> has been instrumental in assisting the world's prominent mining houses to process minerals with enhanced efficiency, reliability, and safety.

We have curated a repository of industry knowledge, technical expertise, and operational scale. This accumulation empowers us to assist our customers in overcoming nearly any conveyor system challenge they may encounter.



# MAXIMISE CONVEYOR SYSTEM PERFORMANCE, EFFICIENCY AND SAFETY.





The role of a conveyor system in a mining operation can be likened to an artery in the human body; both are essential for the efficient transportation of materials critical to the overall health and productivity of their respective systems. Similar to how the main artery carries oxygenated blood to different parts of the body, a conveyor system in a mine facilitates the transport of bulk material from one location to another, thereby supporting the seamless operation of the mining process. The effectiveness of a conveyor system is a pivotal factor in guaranteeing the efficiency and profitability of a mining operation.

# 10 CAUSES OF BELT

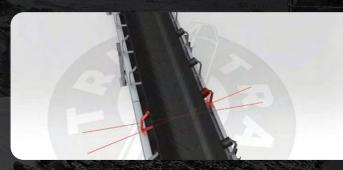
# O] IDLER FRAMES OUT OF ALIGNMENT:

Misalignment of idler frames in a conveyor system can lead to belt misalignment by disrupting the proper alignment of the idlers, causing the belt to deviate from its intended path.



### 02 SKEW IDLER FRAMES:

Skew idler frames in a conveyor system can lead to belt misalignment by introducing angular irregularities, causing the belt to deviate from its intended trajectory.



# O3 HIGH WIND CONDITIONS:

High wind conditions can induce belt misalignment in a conveyor system by exerting lateral forces on the exposed conveyor structure, leading to deviations in the belt's intended path.



# 04 IDLER FRAME VERTICALLY UNEVEN:

Vertically uneven idler frames in a conveyor system can cause belt misalignment, resulting in the belt straying from its intended path.



# 05 MATERIAL LOADING OFF CENTRE:

Material loading off-centre can cause belt misalignment in a conveyor system as it creates an uneven distribution of weight and tension, leading the belt to drift to one side.



# MISALIGNMENT

# 06 MATERIAL BUILD UP ON PULLEY SURFACE

Accumulation of material on the pulley surface in a conveyor system can induce belt misalignment by causing uneven friction and disrupting the smooth rotation of the pulley.



# 07 FOREIGN OBJECT STUCK IN CONVEYOR STRUCTURE:

object in conveyor structure can cause belt misalignment in a system by introducing irregularities and hindering smooth movement.



### 08 SKEW BELT SPLICE:

A skew belt splice in a conveyor system can induce belt misalignment by introducing angular irregularities in the splice, disrupting the smooth movement of the belt.



## 09 STRUCTURE DAMAGE:

Damage to the conveyor structure can lead to belt misalignment by compromising the system's integrity and disrupting the proper alignment of the belt.



## 10 CARRY BACK:

Accumulated carryback on a conveyor system can result in belt misalignment by introducing additional material and weight, disrupting the equilibrium and causing deviations in the belt's trajectory.





ELIMINATING BELT MISALIGNMENT WITH HIGH PERFORMANCE TRACKING SOLUTIONS.



# BELT TRACKERS

## Effective solutions for belt misalignment

Tru-Trac®'s trackers offer a lasting solution to the prevalent issue faced in conveyor systems across various bulk material handling industries - belt mistracking.

The distinctive and highly efficient tracking action of Tru-Trac®'s trackers is non-damaging to the belt and operates autonomously, ensuring immediate and continuous adjustments to re-center the belt.

# PROBLEM: BELT MISALIGNMENT

#### Belt misalignment can lead to:

- Material spillage
- Belt damage
- Structural damage
- Production downtime
- Increased power consumption
- · Increased labour costs

# SOLUTION: TRU-TRAC® TRACKERS

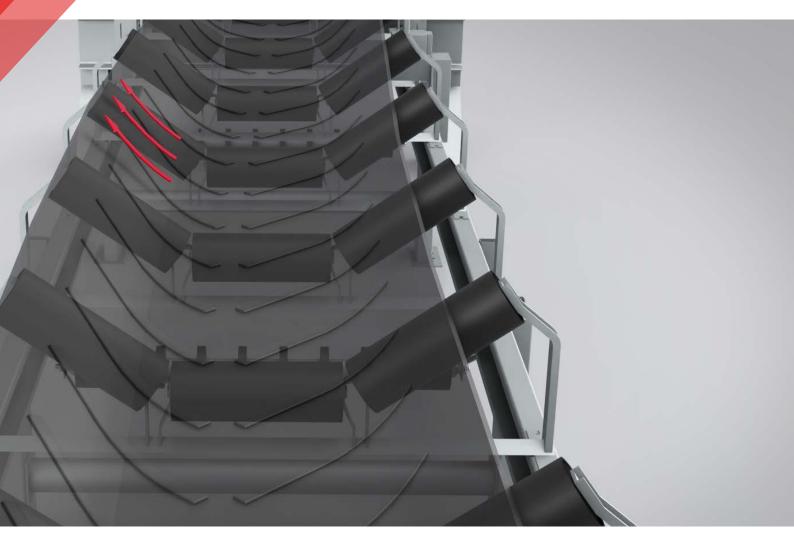
WE ARE THE BELT TRACKING SPECIALISTS.

With unparalleled expertise in the design and manufacturing of conveyor belt misalignment solutions, Tru-Trac® has pioneered and patented self-tracking roller systems. These systems have evolved into the gold standard for addressing conveyor belt misalignment challenges globally.

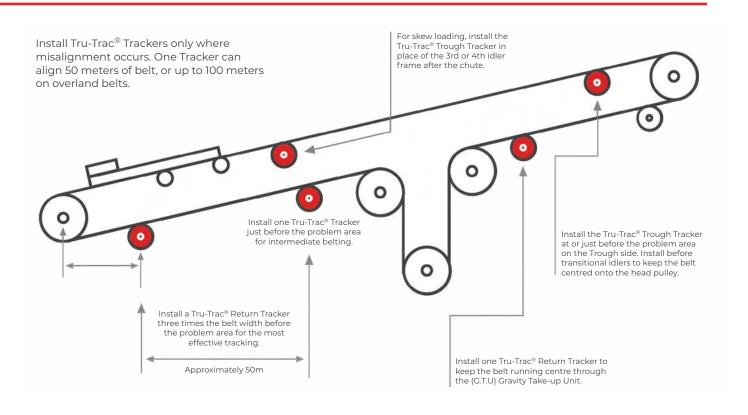
#### **AWARD-WINNING TRU-TRAC® TRACKING SYSTEM FEATURES**

- Innovative Proprietary Technology: Awarded multiple worldwide patents, continuous R&D.
- User-Friendly: Easy and versatile installation, low maintenance.
- Cost-Effective: Lowest total cost of ownership.
- Efficient Performance: Continuous and autonomous belt tracking.
- **Superior Design:** No belt edge contact, ensuring longevity and vibration-free rolling action.
- Versatile Application: Performs in all conditions wet or dry, reversible belts, above and underground.

A diverse range of trackers, offering a misalignment solution suitable for any application.



## **GUIDELINES FOR INSTALLATION**



# Tru-Trac® RETURN TRACKERS

#### PRINCIPLES OF OPERATION

The Tru-Trac<sup>®</sup> Return Tracker consists of two core components - an inner stationary drum that pivots laterally with the belt and an outer rotating drum. The outer drum tapers towards the ends, creating a smaller diameter on the edges.

When the belt drifts off-center, it encounters the tracker's tapered ends, causing a change in force. This compels the tracker to pivot in the opposite direction, guiding the belt back towards the center.

The intuitive design ensures the tracker achieves equilibrium between the forces on both tapered ends, keeping the belt precisely centered. A significant advantage of the Tru-Trac<sup>®</sup> Tracker is its independence from edge contact for belt guidance. Instead, the Tru-Trac<sup>®</sup> ensures efficient and effective belt tracking.



## PRODUCT SELECTION GUIDE

RETURN TRACKERS								
TYPE/ FRAME		BELT WIDTH (MM)	BELT THK (MM)	BELT TYPE	BELT SPEED (M/S)	ROLL DIA		
	STD	450 - 1200	10 - 20	FAB	1 - 3.5	170 - 174		
FLAT RETURN	HD	1350 - 1500	15 - 20	FAB	1 - 4	170 - 174		
	HD-THR	1200 - 1500	15-25	FAB	3.5 - 5	170 - 174		
	STD	1200 - 2100	15 - 20	FAB/SC	1 - 4	178 - 182		
DUAL DETUDN	HD	1200 - 2500	20 - 30	FAB/SC	3.5 - 5	178 - 182		
DUAL RETURN	EXHD	1500 - 2600	> 30	SC	5 - 10	215 - 219		
	SUPER-XHD	2800 - 3200	> 30	SC	5 - 10	215 - 219		
COMPACT DUAL RETURN	STD	1200 - 2600	15 - 20	FAB/SC	1 - 4	178 - 182		
RETURN	STD-THR	1200 - 2600	20 - 30	FAB/SC	3.5 - 5	178 - 182		
LOW SPEED RETURN TRACKERS								
LOW SPEED FLAT	STD	450 - 1200	<20	FAB	<1	170 - 174		
RETURN	HD	1350 - 1500	>20	FAB	<7	170 - 174		
LOW SPEED DUAL RETURN	STD	1200 - 2500	>20	FAB	<]	178 - 182		
LOW SPEED COMPACT DUAL RETURN	STD	1200 - 1500	>20	FAB	<1	178 - 182		



the Return Side (Return Trackers) and Top Side (Trough Trackers) of the belt. Each tracker is meticulously engineered to meet the requirements of specific applications and positions within the conveyor system. Please refer to the table below as a guide for suitable tracker selection.

V-RETURN TRACKERS								
TYPE/ FRAME		BELT WIDTH (MM)	BELT THK (MM)	BELT TYPE	BELT SPEED (M/S)	ROLL		
V-RETURN	STD	1200 - 2100	15 - 20	FAB/SC	0 - 4	178 - 182		
	HD	1200 - 2500	20 - 30	FAB/SC	3.5 - 5	178 - 182		
	EXHD	1500 - 2600	>30	FAB/SC	5 - 10	215 - 219		
	SUPER-EXHD	2800 - 3200	>30	SC	5 - 10	215 - 219		
COMPACT V-RETURN	STD	1200 - 2100	20 - 30	FAB/SC	0 - 4	178 - 182		
	HD	1200 - 2500	20 - 30	FAB/SC	3.5 - 5	178 - 182		

INDUSTRY TRACKERS									
TYPE/ FRAME	BELT WIDTH (MM)	BELT THK (MM)	BELT TYPE	BELT SPEED (M/S)	ROLL DIA	LAGGING	MATERIAL		
PACKAGING	200 - 1000	<10	FAB/PVC	<2.5	132 - 136	Rubber	Mild Steel		
	1050 - 1500	<10	FAB/PVC	<2.5	150 - 154	Rubber	Mild Steel		
FOOD	200 - 1000	<10	FAB/PVC	<2.5	132 - 136	Food Polyurethane	304 Stainless Steel		
	1050 -1500	<10	FAB/PVC	<2.5	150 - 154	Food Polyurethane	304 Stainless Steel		

## **ABOUT** FLAT RETURN TRACKERS

The Flat Return Tracker is an innovative solution, employing a patented design that ensures reliable and effective conveyor belt tracking for the return side of the belt, surpassing alternatives in both performance and number of successful installations on the global market.

The Tru-Trac® Flat Return Tracker harnesses the belt's speed, weight and tension to activate, instantly responding to belt misalignment as it occurs, reliably guiding the belt back to centre position.

- Effective belt tracking: performance in all conditions.
- Reversing Belts: Excellent performance in both directions.
- Operates in all conditions: Quick activation on both wet and dry belts, above and below ground.
- Low Cost of Ownership:
  - Install 1 Tru-Trac® tracker every 50m 1/3rd quantity of competitor products.
  - Up to 3x longer working life than competitor products.
  - 12 month Warranty on any mechanical failure.
- Easy Installation: Install above or below the belt (on the return side), adjust tension easily on mounting brackets.
- Maintenance Free: Sealed bearings do not require any greasing.
- Bearings: High quality seize resistant bearing, designed to perform for the duration of the extended working life.
- Improved Sealing System: End caps are pressed into the bearing housings, these also function as a 'flinger' seal to prevent ingress of material.
- Pipe Structure: Brackets also available.



#### STANDARD FLAT RETURN TRACKER - MAIN FEATURES



- Belt Widths: Available from 450mm 1200mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt Thicknesses: 10 20mm.
- Belt Speeds: 1 3.5m/s.



**ABOVE THE BELT** 



**BELOW THE BELT** 



#### **BELT MISALIGNMENT SOLUTION**

#### FLAT RETURN TRACKER INSTALLATION



After installation, before starting the belt.



Misalignment of the belt is resolved once the belt is running, and the flat return activates.

#### **SCAN THE QR** CODE FOR:

- Application Videos
- Application Images
- **Data Sheets**



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#### HD FLAT RETURN TRACKER



Tru-Trac® Heavy Duty Flat Return Trackers are designed for wider, heavier-duty conveyor belts. The shaft design has been reinforced, and the bearing housings and end caps have been upgraded to steel.

#### **MAIN FEATURES**

- Offers all the same features: and benefits as the STD Flat Return Trackers.
- Belt Widths: Available from 1350mm 1500mm.
- Bearings: Standard deep groove Roller Bearing.
- Heavy duty: Steel bearing housings are welded into the barrel with a reinforced solid shaft.
- Belt Thicknesses: 15 20mm.
- Belt Speeds: 1 4m/s.

#### **HD THRUST FLAT RETURN TRACKER**



Tru-Trac® Heavy Duty Thrust Flat Return Trackers are designed for wider, heavier-duty, and faster conveyor belts, incorporating additional reinforcements to ensure reliable performance in demanding applications.

#### **MAIN FEATURES**

- Offers all the same features: and benefits as the STD Flat Return Trackers.
- Belt Widths: Available from 1350mm 1500mm.
- Bearings: Thrust and Standard deep groove Roller Bearing.
- **Heavy duty:** Steel bearing housings are welded into the barrel with a reinforced solid shaft.
- Belt Thicknesses: 15 25mm.
- Belt Speeds: 3.5-5m/s.

#### LOW SPEED FLAT RETURN TRACKER



Tru-Trac® Low-Speed Flat Return Trackers are designed for low-speed conveyors running at 1m/s or slower. Activation guide rolls assist in speeding up the tracking action to steer the belt back to the center position.

#### **MAIN FEATURES**

- Offers all the same features: and benefits as the STD Flat Return Trackers.
- Belt Widths: Available from 450mm 1200mm.
- Bearings: Thrust and Standard deep groove Roller Bearing
- Belt Thicknesses: <20mm.
- Belt Speeds: <1m/s.

#### **HD LOW SPEED FLAT RETURN TRACKER**



Tru-Trac® HD Low-Speed Flat Trackers are specifically designed for low-speed conveyors with wider, heavy-duty conveyor belts running at 1m/s or slower. Activation guide rolls have been incorporated into the design to speed up the activation of the Tru-Trac® Tracker.

#### **MAIN FEATURES**

- Offers all the same features: and benefits as the STD Flat Return Trackers.
- Belt Widths: Available from 1350mm 1500mm.
- Bearings: Thrust and Standard deep groove Roller Bearing.
- Heavy duty: Steel bearing housings are welded into the barrel with a reinforced solid shaft.
- Belt Thicknesses: >20mm.
- Belt Speeds: <1m/s.



## **ABOUT** DUAL RETURN TRACK

The Tru-Trac® Dual Return Trackers, patented worldwide, are specifically designed and engineered to handle the heavy-duty forces associated with wide belts and heavy loads, as well as belts operating at speeds exceeding 4 m/s. Our design incorporates an innovative external central pivot mechanism, eliminating the necessity for a single, large drum. This sophisticated design supports a concentric and well-balanced rotation, leading to an extended bearing life. The outcome is a remarkably quick and efficient tracking system.

#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavier-duty conveyor belts.
- Improved Rugged Sealing System: Steel End caps are pressed into the bearing housings, that also function as a 'flinger' seal to prevent ingress of material.
- High-Speed Belts: Perfect for belt speeds, from 1 to 10m/s (refer to selection guide).
- Individual rollers for easy replacement: Separate tapered tracker rolls are mounted onto the centre pivot which can be individually replaced as wear occurs.
- Enhanced Centre Pivot: Highly reactive heavy duty pivot is designed with an internal thrust bearing which is greasable from the mounting bracket.
- Tensioning Bolts: Incorporated into the bracket design, enabling the correct tension to easily be achieved.
- Bearings: Standard deep groove Roller Bearings, Thrust Bearings in Heavy Duty Applications and Spherical Roller Bearing.
- Operates in all conditions: Quick activation on both wet and dry belts, both above and below ground.
- Reversing Belts: Excellent performance.
- Frame: Total Height of tracker is 550mm.
- Available: from 1200mm 3200mm (Additional sizes available on request).



LAGGING OPTIONS: NATURAL RUBBER 
HIGH ABRASION RUBBER 
FIRE RETARDANT RUBBER 
FIRE RETARDANT POLYURETHANE 
FRAS PU

#### STANDARD DUAL RETURN TRACKER



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Suitable for fabric and steel cord conveyor belts.
- Reversing Belts: Excellent performance.
- Frame Height: 550mm.
- Belt Widths: Available from 1200mm 2100mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt Thickness: 15-20mm.
- Belt Speeds: 1 4m/s.

#### **HD DUAL RETURN TRACKER**



#### **MAIN FEATURES**

- All the same features: and benefits of the Standard Dual Return Tracker.
- Traction: When lagged with polyurethane, it is then fully diamond grooved to provide better grip in wet conditions.
- Belt Widths: Available from 1200mm 2500mm.
- Bearings: Thrust and Standard deep groove Roller Bearing.
- Belt Thickness: 20-30mm.
- Belt Speeds: 3,5 5m/s.

#### **EXHD DUAL RETURN TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy duty steel cord conveyor belts with thickness >30mm.
- Reversing Belts: Excellent performance.
- Reinforced Enhanced Centre Pivot: Highly reactive heavy duty pivot is designed with an internal thrust bearing which is greasable from the mounting bracket.
- Frame Height: 716mm.
- Belt Widths: Available from 1500mm 2600mm.
- Bearings: Spherical Roller Bearing.
- Belt Thickness: >30mm. Belt Speeds: 5 - 10m/s.

#### LOW SPEED DUAL RETURN TRACKER



#### **MAIN FEATURES**

- Excellent tracking: performance on low-speed conveyors.
- Design prevents 90° contact: with belt edge, avoiding damage and promoting faster tracking.
- Reversing Belts: Not compatible.
- Frame Height: 550mm.
- Belt Widths: Available from 1200mm to 2600mm.
- Bearing: Standard deep groove Roller Bearing.
- Belt Thickness: >20mm.
- Belt Speeds: <1m/s.

# ABOUT COMPACT DUAL RETURN TRACKERS

The Tru-Trac<sup>®</sup> Compact Dual Return Tracker is a specialized design engineered for heavy-duty conveyors with restricted height clearance. Its compact form embodies all the advantages of the Dual Return Tracker design and is perfectly suited to fit within confined spaces, making it the ideal solution for installation inside horizontal take-up units.

The Compact Dual Return Trackers, patented globally, have been meticulously designed to handle the substantial forces associated with wide belts and heavy loads, as well as belts operating at speeds exceeding 4 m/s. They feature an innovative external central pivot mechanism, eliminating the requirement for a single, large drum. This facilitates a balanced and concentric rotation, resulting in a significant extension of bearing life. The result is a remarkably efficient tracking system.



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#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavier-duty conveyor belts.
- Improved Rugged Sealing System: Steel End caps are pressed into the bearing housings, these also function as a 'flinger' seal to prevent ingress of material.
- High-Speed Belts: Perfect for belt speeds, from 1 to 10m/s (refer to selection guide).
- Individual rollers for easy replacement: Separate tapered tracker rolls are mounted onto the centre pivot which can be individually replaced as wear occurs.
- Enhanced Centre Pivot: Highly reactive heavy duty pivot is designed with an internal thrust bearing which is greasable from the mounting bracket.
- Tensioning Bolts: Incorporated into the bracket design, enabling the correct tension to easily be achieved.
- Bearings: Standard deep groove Roller Bearings, Thrust Bearings in Heavy Duty Applications and Spherical Roller Bearing.
- Operates in all conditions: Quick activation on both wet and dry belts, both above and below ground.
- Reversing Belts: Excellent performance.
- Frame: Total Height of tracker is 400mm.
- Available: from 1200mm 3200mm (Additional sizes available on request).

LAGGING OPTIONS: NATURAL RUBBER 
HIGH ABRASION RUBBER 
FIRE RETARDANT RUBBER 
FIRE RETARDANT POLYURETHANE 
FRAS PU

#### STANDARD COMPACT DUAL RETURN TRACKER



#### **MAIN FEATURES**

- Adjustable Mounting: The mounting centres are adjustable, for more flexibility on fitting on non-standard structures and special brackets can be custom manufactured, if required.
- Reversing Belts: Excellent performance.
- Compact Frame Height: 400mm.
- Belt Widths: Available from 1200mm 2600mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt Thickness: 15-20mm.
- Belt Speeds: 1-4m/s.

#### **HD COMPACT DUAL RETURN TRACKER**



#### **MAIN FEATURES**

- Adjustable Mounting: Mounting centers are adjustable and custom brackets can be made for non-standard structures.
- Heavy Duty Robust Design: Built specifically for heavy duty steel cord, high tension conveyor belt.
- Compact Frame Height: 400mm.
- Belt Widths: Available from 1200mm 2600mm. (Smaller sizes can be made to order.)
- Bearings: Thrust and Standard deep groove Roller Bearing.
- Belt Thickness: 20-30mm.
- Belt Speed: 3.5-5m/s.

#### COMPACT LOW SPEED DUAL RETURN TRACKER



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy duty steel cord, high tension conveyor belt.
- Compact Frame Height: 400mm.
- Reversible Belts: Not compatible.
- Belt Widths: Available from 1200mm 2600mm.
- Bearings: Standard or Thrust and Standard deep groove Roller Bearing.
- Belt Thickness: >20mm.
- Belt Speed: <1m/s.





# ABOUT V-RETURN TRACKERS

Tru-Trac® V-Return Tracker, originally designed and patented by Tru-Trac®, was developed as a high-performance solution for effectively tracking V-Return conveyor belts. The V-Return configuration offers excellent tracking performance without the requirement to flatten the belt before installing the tracker.

#### **MAIN FEATURES**

- V-Return Configuration: Comes standard with 10-degree angle, compatible with 5 and 15-degree angle belts.
- Bearings: Standard or Thrust and Roller Bearing configuration available.
- Individual rollers for easy replacement: Separate tapered tracker rolls are mounted onto the centre pivot which can be individually replaced as wear occurs.
- Enhanced Centre Pivot: Highly reactive heavy duty pivot is designed with an internal thrust bearing which is greasable from the mounting bracket.
- Tensioning Bolts: Incorporated into the bracket design, enabling the correct tension to easily be achieved.
- Operates in all conditions: Quick activation on both wet and dry belts, both above and below ground.
- Reversing Belts: Excellent performance.

LAGGING OPTIONS: NATURAL RUBBER HIGH ABRASION RUBBER FIRE RETARDANT RUBBER FIRE RETARDANT POLYURETHANE FRAS PU



#### STANDARD V-RETURN TRACKER



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Belt Widths: Available from 1200mm 2100mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt thickness: 15mm to 20mm.
- Belt speeds: 0 4m/s.

#### **HD V-RETURN TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Belt Widths: Available from 1200mm 2500mm.
- Bearings: Thrust and Standard deep groove Roller Bearing.
- Belt thickness: 20mm to 30mm.
- Belt speeds: 3,5 to 5 m/s.

#### **EXHD V-RETURN TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Belt Widths: Available from 1500mm 2600mm.
- Bearings: Spherical Bearing configuration.
- Belt thickness: > 30mm.
- Belt speeds: 5 to 10 m/s.

#### SUPER EXHD V-RETURN TRACKER



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty steel cord conveyor belts.
- Belt Widths: Available from 2800mm 3200mm.
- Bearings: Spherical Bearing configuration.
- Belt thickness: > 30mm.
- Belt speeds: 5 to 10 m/s.

# **ABOUT COMPACT V-RETURN** TRACKERS

Tru-Trac® Compact V-Return Tracker, originally designed and patented by Tru-Trac®, serves as a high-performance solution for effectively tracking V-Return conveyor belts in applications with restricted height clearance or for fitting onto non-standard mounting centers. The Compact V-Return configuration offers excellent performance without the requirement to flatten the belt before installing the tracker. It is designed to fit into confined spaces and has adjustable mounting widths.

#### **MAIN FEATURES**

- V-Return Configuration: Comes standard with 10-degree angle, compatible with 5 and 15-degree angle belt.
- Heavy Duty Robust Design: Built specifically for heavy-duty steel cord conveyor belts.
- Improved Rugged Sealing System: Steel End caps are pressed into the bearing housings, these also function as a 'flinger' seal to prevent ingress of material.
- Individual rollers for easy replacement: Separate tapered tracker rolls are mounted onto the centre pivot which can be individually replaced as wear occurs.
- Enhanced Centre Pivot: Highly reactive heavy duty pivot is designed with an internal thrust bearing which is greasable from the mounting bracket.
- Tensioning Bolts: Incorporated into the bracket design, enabling the correct tension to easily be achieved.
- Operates in all conditions: Quick activation on both wet and dry belts, both above and below ground.
- Reversing Belts: Excellent performance.
- Adjustable Mounting: The mounting centres are adjustable, for more flexibility on fitting on non-standard structures.
- Special brackets: Can be custom manufactured, if required.

LAGGING OPTIONS: NATURAL RUBBER 
HIGH ABRASION RUBBER 
FIRE RETARDANT RUBBER 
FIRE RETARDANT POLYURETHANE 
FRAS PU







#### STANDARD COMPACT V-RETURN TRACKER



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Belt Widths: Available from 1200mm 2100mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt thickness: 20mm to 30mm.
- Belt speeds: 0 4 m/s.

#### **HD COMPACT V-RETURN TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Belt Widths: Available from 1200mm 2500mm.
- **Bearings:** Thrust and Standard deep groove Roller Bearing.
- Belt thickness: 20mm to 30mm.
- High-Speed Belts: 3.5 5 m/s.



# ABOUT INDUSTRY TRACKERS

The Tru-Trac<sup>®</sup> Industry Trackers provide an effective conveyor belt tracking system designed for centralizing lightweight industry conveyor belts in sectors such as packaging, food, tobacco, and airports. The center pivot is unique and simple, consisting of a mild steel pin with a stainless steel shaft perpendicular to the plane of the belt. Its hot-vulcanized rubber cover and tapered edges ensure the tracker activates immediately as the belt moves off-center. The tracker reacts continuously and autonomously to ensure the belt stays centered.

#### **MAIN FEATURES**

- Design: Specifically designed for effective tracking on light duty conveyor belt applications.
- Reliable Performance: The Tru-Trac® Tracker has proven itself to be robust, reliable, long lasting and provide effective performance in all conditions.
- Maintenance Free: Sealed bearings do not require any greasing.
- **Versatile Installation:** Can be installed on the clean side of the belt, and then tension can be adjusted easily with the supplied mounting brackets.
- Reversing Belts: Excellent performance.



#### **BELT MISALIGNMENT SOLUTION**







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#### **PACKAGING INDUSTRY TRACKER**



Tru-Trac<sup>®</sup> Packaging Industry Trackers offer the most reliable and effective conveyor belt tracking system for lightweight packing industry belts. Its patented design with a unique centre pivot consisting of a stainless steel pin and a rubberised drum with a tapered edge ensures the tracker reacts immediately to keep the belt centred.

#### **MAIN FEATURES**

- Designed for effective tracking: on light duty fabric and PVC belts.
- Roll Diameter: Available from 132mm 154mm.
- Bearings: Standard deep groove Roller Bearing.
- Belt Widths: Available from 200mm 1500mm.
- Belt thickness: <10mm.
- Speed Belts: <2,5m/s.

#### OOD INDUSTRY TRACKER

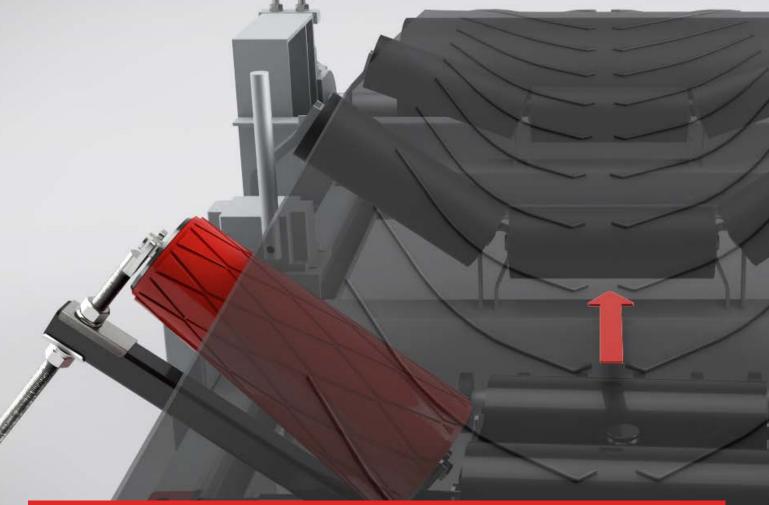


The Tru-Trac<sup>®</sup> Food Industry Trackers are a patented design that offers effective conveyor belt tracking for lightweight food industry slow moving conveyor belts. The centre pivot is unique and simple, consisting of a stainless steel shaft with a mild steel pin that is perpendicular to the plane of the belt, and its food grade polyurethane covered drum and tapered edge ensures the tracker activates immediately as the belt misaligns.

#### **MAIN FEATURES**

- **Specifically designed:** for light duty conveyor belt applications in the food industry.
- **Manufactured:** with 304 316 Stainless Steel, including the bracket.
- Lagging: Covered with EU Approved Food Grade Polyurethane
- Roll Diameter: Available from 132mm 154mm.
- Belt Widths: Available from 200mm 1500mm.
- Belt thickness: <10mm.
- Speed Belts: <2,5m/s.</li>





## **PRODUCT SELECTION GUIDE**

TAPER TROUGH TRACKERS - STANDARD   APEX									
TYPE/FRAME	BELT WIDTH (MM)	BELT THK (MM)	BELT TYPE	BELT SPEED (M/S)	TPH (T/H)	REVERSIBLE BELTS			
STD	450 - 1200	<15	FAB	<3.5	0 - 3000	YES			
HD	900 - 1500	<20	FAB/SC	2 - 3.5	0 - 4000	YES			
X-HD	1200-1800	20-30	FAB/SC	3.5 - 6	4000-8000	YES			
EXHD	1350 - 2600	>30	FAB/SC	5 - 10	>8000	YES			
EXHD SUPER	2800 - 3000	>30	SC	6 - 10	>8000	YES			

## TRU-TRAC® TAPER TROUGH TRACKERS:

#### PATENTED MISALIGNMENT SOLUTIONS FOR THE LOAD-CARRYING SIDE **OF CONVEYOR BELTS**

The Taper Trough Tracker offers the ultimate in belt tracking. Mastered over 30 years of design and innovation, this design is highly responsive and quick to activate on both loaded and unloaded conveyor systems. It is equally effective in both directions and is belt-friendly.

#### PRINCIPLES OF OPERATION

The unique design developed by Tru-Trac® features an in-line, individually adjustable idler frame incorporating tapered wing rolls mounted on an extremely robust and efficient swivel bearing, supported on an adjustable base.

The belt tracking response is triggered by variations in peripheral speed across the rubber-lagged, tapered surface of the wing rolls as the belt starts to veer off-centre.

Immediately as deviation occurs, the tracker swiftly pivots, counteracting the drift by steering the belt back towards the centre. As the belt begins to realign, the tracker reinstates balance by reverting to the neutral, centralised position.

The result is a highly efficient, consistent solution to belt misalignment.



TYPE/FRAME		(MM)	THK (MM)	TYPE	(M/S)	TPH (T/H)	BELTS
LOAD TROUGH	STD	450 - 1200	<20	FAB	1 - 3.5	0 - 3000	NO
DD TROUGH	HD	1350 - 2100	<20	FAB	1 - 5	0 - 4000	NO

# **ABOUT** PER TROUGH TRACKE

The patented Tru-Trac® Taper Trough Tracker offers the ultimate in tracking performance on the load-carrying side of conveyor belts. Mastered over 15 years of design and innovation, this design is highly responsive and guick to activate on both loaded and unloaded conveyor systems.

Due to the taper wing rollers being inline, the Taper Trough Tracker can operate on both Uni-directional or Bi-directional conveyor belts. The tracking is done by the tapered wing rollers which are lagged, designed to be compatible with 35° and 45° belts. The tapered wing rollers activate the tracker immediately, as the belt moves off centre, ensuring that there is no 90 degree contact with the belt edges.

#### **MAIN FEATURES**

- Exceptional Performance: The combination of the tapers and unique centre pivot, provide fast, reactive and continual tracking in all conditions.
- Individual rollers for easy replacement: Both the taper wing and centre roller can be individually replaced as wear occurs.
- Enhanced Centre Pivot: The unique heavy duty pivot design provides instant activation to centralise the belt to keep it running centre.
- Bearings: Standard deep groove Ball bearings and Spherical Roller Bearings.
- Maintenance Free: Bearings do not require any greasing.
- Operates in all conditions: Quick activation on both wet and dry conveyor belts.
- Versatile Installation: Minimum tension is required on the centre rolls, which can be easily adjusted with the supplied mounting brackets.



LAGGING OPTIONS: NATURAL RUBBER 
HIGH ABRASION RUBBER 
FIRE RETARDANT RUBBER 
FIRE RETARDANT POLYURETHANE 
FRAS PU





#### **BELT MISALIGNMENT SOLUTION**

#### TAPER TROUGH TRACKER INSTALLATIONS



Standard Taper Trough Tracker Installation



Standard Taper Trough Tracker available in stainless steel frame

#### **SCAN THE QR** CODE FOR:

- Application Videos
- Application Images
- **Data Sheets**



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#### STANDARD TAPER TROUGH TRACKER



#### **MAIN FEATURES**

- The original Taper Trough Tracker: pioneered and patented by Tru-Trac®
- Reversing Belts: Excellent performance.
- Belt Widths: Available from 450mm to 1200mm.
- Bearings: Standard deep groove Roller Bearings.
- Belt Thickness: <15mm.
- Belt Speeds: <3,5m/s.

#### **HD TAPER TROUGH TRACKER**



#### **MAIN FEATURES**

- Offers all the same features: and benefits as the STD Taper Trough Trackers.
- Designed: for heavier duty applications.
- Belt Widths: Available from 900mm 1500mm.
- Bearings: Spherical Bearing in Wing Rollers, Deep Groove Roller Bearings in Centre Rolls.
- Belt Thickness: <20mm.
- Belt Speeds: 2 3,5m/s.

#### **EXHD TAPER TROUGH TRACKERS**



#### **MAIN FEATURES**

- Offers all the same features: and benefits as the Standard Taper Trough Trackers, incorporating additional reinforcements offering reliable performance in demanding applications.
- Reversing Belts: Excellent performance.
- Belt Widths EXHD: Available from 1350mm to 2600mm.
- Belt Widths Super EXHD: Available up to 2800mm-3000mm.
- Bearings: Spherical Roller bearings.
- Belt Thickness: >30mm.
- Belt Speeds EXHD: 5 10m/s.
- Belt Speeds Super EXHD: 6 10m/s.



#### NR SUPER EX-HD TAPER TROUGH TRACKER



#### **MAIN FEATURES**

- Compact Design: Enhances safety and versatility.
- Easily Adjustable: Manually adjust angle of wing rollers.
- Longer life: Upgraded premium rubber lagging on wing rolls.
- Individual rollers: Replace taper wing and center rollers separately.
- **Reversing Belts:** Excellent performance in both directions.
- Belt Widths: Available from 2900mm 3000mm.



# APEX SERIES PATENT PENDING

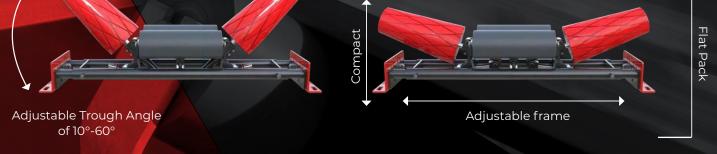
- **Exceptional Performance:** The combination of the tapers and unique centre pivot, provide fast, reactive, autonomous and continuous tracking in all conditions.
- Compact Design: Flat packed easy handling and installation, the compact design enhances safety and versatility of application on any structure, and can be fitted under hoods and tripper cars.
- Easily Adjustable: Manually adjust angle of wing rollers to ensure optimal performance.
- Longer Life: Improved custom-compounded rubber lagging and unique tread pattern on wing rolls and premium Tru-Trac® HDPE centre rolls, offer extended working life of tracker unit reducing total cost of ownership.
- **Patented Design:** Cantilevered easily adjustable wing rolls, troughing angles 10-60 degrees.
- **Increased Responsiveness:** Optimized centre of gravity and weight distribution offers improved stability, control, and balance. Enhances sensitivity to belt misalignment and tracking performance by increasing efficiency and responsiveness.

# Tru-Trac® APEX TAPER TROUGH TRACKERS

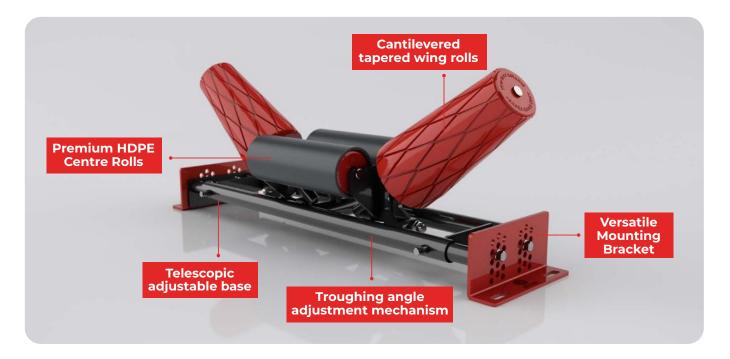
The Next Leap Forward in Belt Tracking Technology

Designed for exceptional performance, the Apex Taper Trough Tracker offers fast, autonomous, and continuous tracking in all conditions. Thanks to its compact design, it can be installed anywhere - under hoods, on tripper cars, or any structure. Adjustments are a breeze, with the ability to quickly set the angle of the wing rollers. With premium rubber lagging for heavy-duty applications, expect an extended working life and reduced cost of ownership. Its inline taper wing rollers are designed for compatibility with trough angles up to 60 degrees and can flatten as low as 10 degrees for easy installation and transportation.





# ABOUT APEX TAPER TROUGH TRACKERS



#### **MAIN FEATURES**

- **Exceptional Performance:** The combination of the tapers and in-line idler configuration mounted on a unique centre pivot, provide fast, reactive and continuous belt tracking in all conditions.
- Individual rollers for easy replacement: Taper wing rolls and HDPE centre rolls can be individually replaced as wear occurs.
- Enhanced Centre Pivot: The unique heavy duty pivot design, with a life time guarantee, provides instant activation to centralise the belt to keep it running centre.
- Maintenance Free: Bearings do not require any greasing.
- Operates in all conditions: Quick activation on both wet and dry conveyor belts.
- **Reversing Belts:** Excellent performance.

Adjustable Trough Angle

of 10°-60°

- **Versatile Installation:** Compact design allows for installation in any application, with adjustable troughing angle up to 60deg, telescopic frame and staggered hole mounting brackets accommodating fine adjustments.
- Lagging: Improved custom-compounded rubber lagging and unique tread pattern on wing rolls offer extended working life with enhanced performance.

Narrow Narrow Narrow

Adjustable frame

LAGGING OPTIONS: NATURAL RUBBER 
HIGH ABRASION RUBBER 
FIRE RETARDANT RUBBER 
FIRE RETARDANT POLYURETHANE 
FRAS PU

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#### STANDARD APEX TAPER TROUGH TRACKER



#### **MAIN FEATURES**

- Rugged Sealing System: Extends bearing life and prevent ingress of material.
- Belt Widths: Available from 450mm-1200mm.
- Bearings: Roller Bearing configuration.
- Belt thickness: <15mm.
- Belt speeds: <3.5m/s.

#### **HD APEX TAPER TROUGH TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty fabric and steel cord conveyor belts.
- Rugged Sealing System: extends bearing life and prevent ingress of material.
- Belt Widths: Available from 900mm-1500mm.
- Bearings: Spherical Bearing in Wing Rollers, Deep Groove Roller Bearings in Centre Rolls.
- Belt thickness: <20mm.
- Belt speeds: 2 3.5m/s.

#### **EXHD APEX TAPER TROUGH TRACKER**



#### **MAIN FEATURES**

- Heavy Duty Robust Design: Built specifically for heavy-duty steel cord conveyor belts.
- Rugged Sealing System: Extends bearing life and prevent ingress of material.
- Belt Widths: Available from 1350mm-2600mm.
- Bearings: Premium grade spherical Roller Bearing.
- Belt thickness: <30mm.
- Belt speeds: 5 to 10 m/s.



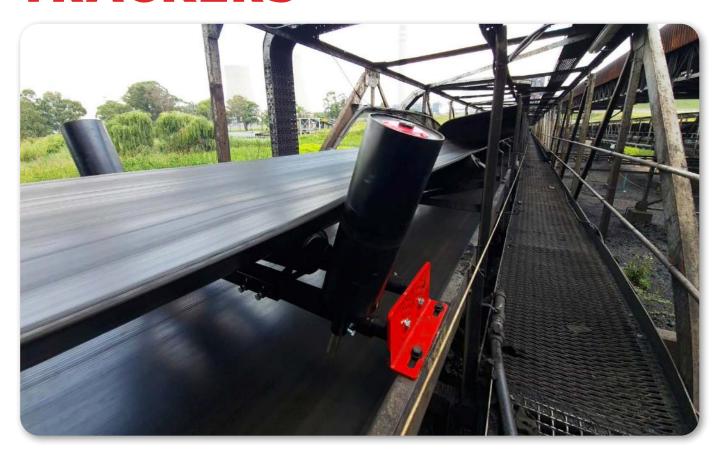
#### **SCAN THE QR** CODE FOR:

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# ABOUT SPECIALITY TROUGH TRACKERS



Specialty Trough Trackers are meticulously engineered solutions, finely tuned to combat belt misalignment challenges in conveyor systems. Adept at various applications, they excel in heavy-load belts, robustly countering forces to preserve precise alignment even under extreme loads. Their competence extends to high-speed settings, swiftly responding to deviations for consistent tracking, vital in preventing wear and ensuring seamless operations.

In installations with unique constraints like decking plates, specialty trough trackers adeptly navigate structural intricacies while maintaining reliable belt alignment. Their adaptability also shines in picking belt applications, ensuring uninterrupted item transport. With exceptional performance tailored to diverse scenarios, Specialty Trough Trackers enhance efficiency, reduce maintenance costs, and extend conveyor system lifespan across applications.



#### **BELT MISALIGNMENT SOLUTION**

**SPECIALITY TROUGH TRACKER INSTALLATIONS** 





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#### TRU-TRAC® TROUGH LOAD TRACKER



The patented Tru-Trac® Load Design Trough Tracker was specifically developed to accommodate the load-carrying side of the belt. The offset wing rollers are incorporated into the design to activate our standard central pivot system. The wing rollers are compatible with 35°- 45° belts, ensuring that there is no 90-degree contact with the belt edges.

#### **MAIN FEATURES**

- Compact Height: Allows for installation above decking plates.
- Reliable Performance: The Tru-Trac® Tracker has proven itself to be both robust, reliable, long lasting and provide effective performance in all conditions.
- Bearings: Standard Roller Bearing configuration available.
- Belt Widths: Available from 450mm 1200mm | No other sizes available.
- Belt Speeds: up to 3.5m/s.

#### TRU-TRAC® DD TROUGH TRACKER



The Tru-Trac® Heavy Duty Trough Tracker accommodates wide belts, heavy loads, and high speeds (exceeding 4m/s). It features offset wing rollers that activate our central pivot system. The rollers are fixed at 70 degrees, allowing the belt to slide up and activate the tracker as it moves off-center. This design eliminates 90-degree contact with the belt edges.

#### **MAIN FEATURES**

- Heavy duty: The combination of strengthened shaft and double pipe base prevents the shaft from bending. Steel bearing housings are welded into the barrel.
- Improved Rugged Sealing System: Steel End caps are pressed into the bearing housings, these also function as a 'flinger' seal to prevent ingress of material.
- High-Speed Belts: Perfect for belt speeds exceeding 4m/s.
- Bearings: Standard or Thrust and Roller Bearing configuration available.
- Belt Widths: Available from 1350mm 2100mm.
- Belt Speeds: up to 5m/s.

#### $\mathsf{TRU} ext{-}\mathsf{TRAC}^{ ext{@}}$ PICKING TROUGH TRACKER



The Tru-Trac<sup>®</sup> Picking Trough Tracker is designed specifically for resolving conveyor belt misalignment on picking conveyor belts. The picking conveyor idler assembly features a longer middle roller than the wing rollers.

#### **MAIN FEATURES**

- Installed: on the load carrying side of the conveyor belt.
- **Used with:** a variety of conveyor belt types, including picking trough
- Available: in a variety of sizes and configurations to suit the specific needs of your conveyor system.
- Easy to install: and maintain.

If you are interested in learning more about Tru-Trac<sup>®</sup> Picking Trough Trackers, please contact us with application specific information. We would be happy to discuss your specific needs and recommend a product that is right for you.

# FIELD SERVICES

Tru-Trac® provides integrated solutions and support services to optimise and sustain conveyor systems, enabling customers to reach their financial and operational objectives.

#### **HOW IT WORKS**

Tru-Trac<sup>®</sup> has been offering conveyor maintenance services for over 15 years, and is uniquely positioned to offer customers a comprehensive scope of conveyor service and maintenance solutions.



# INSTALLATION & COMMISSION

Tru-Trac<sup>®</sup>'s skilled **conveyor technicians** ensure products are **expertly installed** and perform optimally, meeting **local safety standards** and tailored to your site's needs.

#### **BENEFITS:**

- Ensure Optimal Installation:
   Guarantees best performance of new equipment.
- On-Site Training: Equips your personnel with hands-on knowledge.
- Reduce Downtime: Faster installation and troubleshooting.
- Installation Reporting: Comprehensive updates for peace of mind.



# PLANNED SHUTDOWN SERVICES

Tru-Trac® works closely with clients to ensure efficient planned shutdowns. We excel in optimizing installations and repairs through meticulous planning and resource coordination, consistently meeting project timelines and budgets.

#### **BENEFITS:**

- **Efficient Planning:** Boosts efficiency and safety through careful scheduling.
- Resource Allocation: Optimizes the use of manpower and equipment.
- **Cost & Time Savings:** Ensures budget-friendly, on-time completion.
- Proactive Maintenance: Prevents breakdowns and extends equipment life.

# CONVEYOR MAINTENANCE SERVICE PACKAGES

Tailored to your needs, we offer 4 Service Packages featuring flexible commercial models, customizable Scope of Work, payment options, inventory plans, reporting requirements, and contract periods.

Our close collaboration ensures continuous improvement and optimization of your conveyor performance.

#### **KEY SERVICES:**

- Installation and Commission: Expert setup for optimal performance.
- Planned Shutdown Services: Scheduled maintenance without downtime.
- Full Conveyor Maintenaince: Comprehensive care for long-term reliability.
- Breakdown Emergency Services: Rapid response for unplanned events.





# FULL CONVEYOR MAINTENANCE

Tru-Trac<sup>®</sup>'s **full maintenance service agreements** offer expert **on-site resources**, ensuring **optimal conveyor system performance**, cost control, and adherence to high standards.

#### **BENEFITS:**

- On-Site Teams: Combines dedicated and trained conveyor maintenance teams on site.
- Operational Efficiency: Daily reports, spare parts management, & improved planning for maximized uptime.
- Proactive Care: Preventative maintenance and enhanced safety protocols
- Focus: Concentrate on your core business operations while we handle conveyor maintenance.



# BREAKDOWN -EMERGENCY SERVICES

Tru-Trac<sup>®</sup>'s **local service teams** promptly handle **emergency call-outs** in your region, efficiently diagnosing and resolving issues to **safely restore production** in minimal time.

#### **BENEFITS:**

- Fast Expert Support: Get help when you need it most.
- Decrease Downtime: Quick resolution of issues.
- Customizable Support: Tailored to your specific needs.

# CONVEYOR TRAINING

## TRU-TRAC® CONVEYOR TRAINING: Empowering Your Team for Excellence

At Tru-Trac®, we believe that offering high-quality products is just the beginning. Ensuring your team knows how to maximize these tools is where real progress begins. Dive deep with our specialized conveyor training modules, designed not only to address the how-tos but also to impart a comprehensive understanding of common conveyor issues and their solutions.

Invest in training that promises more than just theory. With Tru-Trac<sup>®</sup>, empower your employees to bring innovative and efficient practices back to the heart of your operations.



#### **COURSES OFFERED INCLUDE:**

- Conveyor 101
- Conveyor Maintenance and Safety
- Conveyor Belt Alignment
- Effective Conveyor Cleaning
- Tru-Screw Splicing Training
- Tru-Trac<sup>®</sup> Product Installation and Maintenance Training courses



## WHY CHOOSE TRU-TRAC® CONVEYOR TRAINING?

- Broad Understanding: Equip your team to identify and correct common conveying challenges.
- **Safety First:** Prioritize and enhance safety protocols in your conveyor operations.
- Regulatory Compliance: Stay ahead with practices that meet industry regulations.
- Boost Productivity: Learn strategies to ramp up production.
- **Operational Cost-Efficiency:** Drive down operation costs with informed decision making.



#### **TRU-TRAC® ONSITE TRAINING:**

Tru-Trac<sup>®</sup> provides onsite training for its customers in remote areas, ensuring that they receive the same degree of experience and technical competence as those who attend training at the Tru-Trac<sup>®</sup> training facility at our Head Office in Centurion.

This hands-on training is provided by certified trainers who are sent to a specific area to assist customers in running their plants efficiently and effectively.

# **ABOUT** MOBILE SHOWROOM

#### The Tru-Trac® Mobile Showroom showcases the full range of Tru-Trac® products

Our mobile showroom is fully equipped with our products and you will be able to handle and inspect our products for both quality and features. Your team will have the opportunity to engage with our conveyor experts and discuss any conveyor related issues that they might be grappling with.



# **ABOUT** CONVEYOR SURVEYS

Tru-Trac® offers comprehensive conveyor system surveys using our proprietary digital Conveyor Audit reporting system. Our technicians conduct holistic audits, providing real-time feedback via email. You'll receive detailed reports, including component condition, performance, photos, maintenance needs, and optimization recommendations.

- Highly experienced and trained technicians conduct our conveyor inspections.
- Conveyor audits are carried out daily at customer sites across the African continent.
- Digital reports are directly distributed to relevant parties.
- Inspection records are stored centrally for easy reference.







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