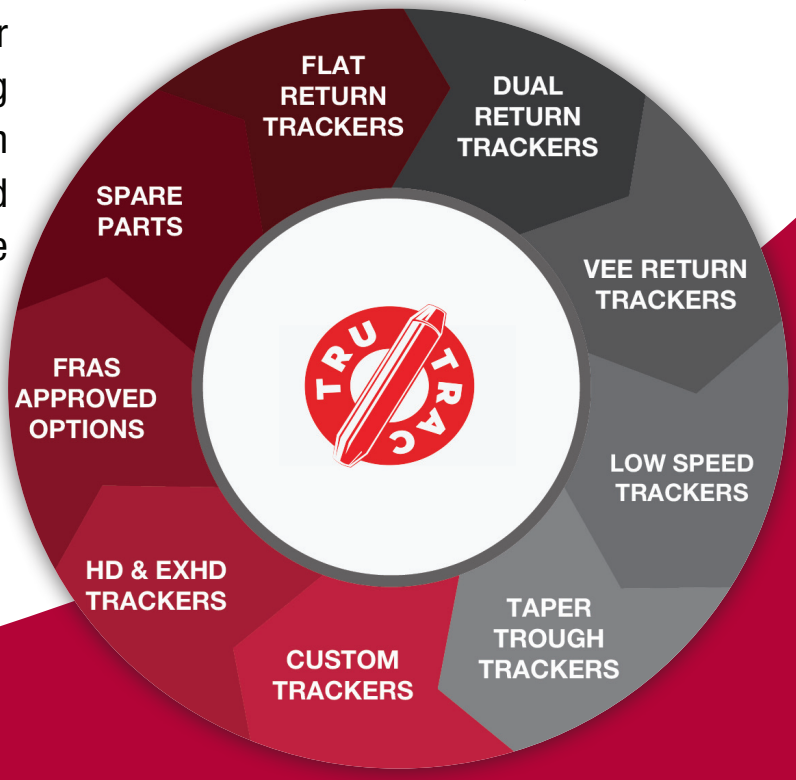
Conveyor
Belt Trackers

TSGlobal®
Conveyor & Polyurethane Specialists

With more than two decades of experience, TS Global is a proudly Australian-owned company that specialises in producing a diverse array of premium-grade conveyor accessories and polyurethane components. We boast an exceptional team of engineers and manufacturers who possess the skills and expertise to create cutting-edge solutions that can withstand even the most challenging conditions.

Our suite of services encompasses everything from the design and fabrication of conveyor belt cleaners to the installation and maintenance of these systems. We are driven by a commitment to deliver products that are both high-performing and low-maintenance, resulting in improved plant availability, reduced downtime, and minimised maintenance costs for our valued clients.



- Australian Owned
- Proven Performance
- Quality Product
- Flexibility in Design
- On-time Delivery


4x4
PROTECTOR

WHY

Conveyor belt tracking is a critical aspect on every conveyor system. There are many variables within a conveyor that can impact on belt tracking such as product loading, chute design, splice alignment, structure alignment, pulley alignment, idler alignment, build-up on, or worn pulley lagging. The installation of belt tracking devices in strategic locations protects your conveyor belt and structure from damage due to belt wander. Keeping your belt on track eliminates any unwanted down-time which impacts on conveyor availability and production.

WHERE

It is industry standard to install tracking units prior to head/tail pulleys and loading zones. In addition to these standard locations, trackers can be installed in trouble areas such as high tension areas or where the structure is poorly aligned.

When installing tracking devices, they should be installed 6-8 times the belt width prior to the tracking problem. This distance provides ample time for the tracker to react and adjust any misaligned belt.

Tracking units are also usually installed 10-20mm (3/8"-13/16") higher than all standard idlers within the system. This allows an increase of friction between the belt and rollers, which in-turn increases performance of the tracking device.

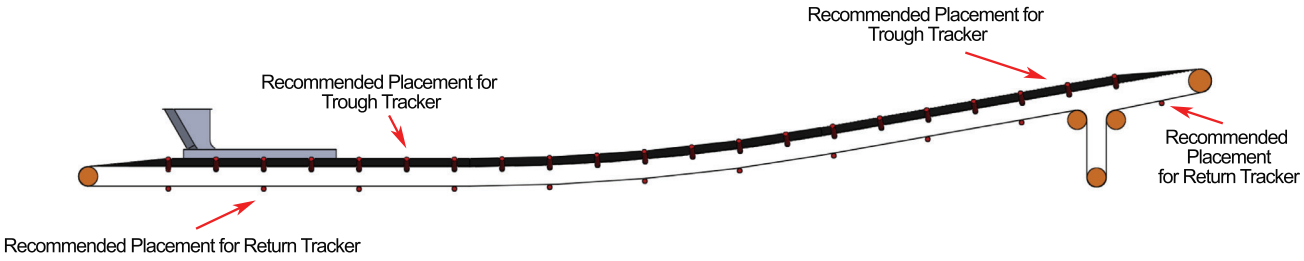
STANDARD INSTALLATION LOCATIONS

- Trough - Prior to head pulley
- Return - Prior to take-up
- Return - Prior to drive
- Return - Prior to tail pulley
- Trough - After every loading zone

HOW

While conveyors are designed to run true, industry standard is to install a number of tracking units throughout every conveyor system.

The benefit of installing tracking units along your conveyor is that they react to operational change within the conveyor system. Most tracking units utilise guide rollers or friction to determine the location of the belt. As the belt moves off centre either the guide rollers are moved or there is a frictional differential between the wing rollers. These changes activate the tracking device by altering the alignment of the rollers within the tracking unit to redirect the belt back to the centre of the conveyor.



TS Global delivers world-class products manufactured from 304 grade stainless steel to withstand the harshest conditions. Our high performing products are designed to minimise the costs associated with the total ownership of the plant without compromising performance.

TUFF TRACKERS

Our range of Tuff trackers encompasses our standard duty, heavy duty and extra heavy duty product. These trackers are available in:

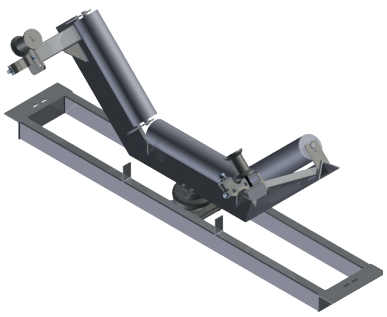
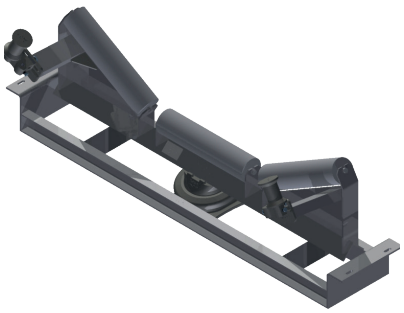
- 1 Roll Flat Return
- 3 Roll Trough
- 5 Roll Trough
- 2 Roll Flat/Vee Return
- 4 Roll Trough
- Non standard configurations are available upon request.

All of our trackers are manufactured from 304 grade stainless steel and are custom built to suit your site requirements, meaning there is no need to modify the conveyor structure. Trackers are designed and manufactured to suit existing rollers on your site, eliminating the need to add additional rollers to site inventory.

** Tracker questionnaires can be located on our website and must be completed in full to allow design to be undertaken.*

The critical centre pivot point of our tracking unit does not rely on traditional roller or spherical bearings which constantly fail in service. We utilise a specifically formulated poly thrust plate that is self-lubricating. The thrust plate has no moving parts and as such superior life expectancy is achieved.

Our tracker utilises servo rollers which are manufactured from solid stainless steel to ensure a wall thickness of over 10mm (⅜"). This offers a significant advantage over traditional servo rollers that are manufactured from mild steel with a 3mm (⅛") wall thickness, reducing the potential of belt damage.

Standard Duty Trough Tracker	Heavy Duty Trough Tracker	Extra Heavy Duty Trough Tracker
		

INVERTED VEE TRACKERS

The Inverted Vee tracker assists with locking the belt into position. These trackers apply a fixed tension to either side of the belt to minimise belt wander.

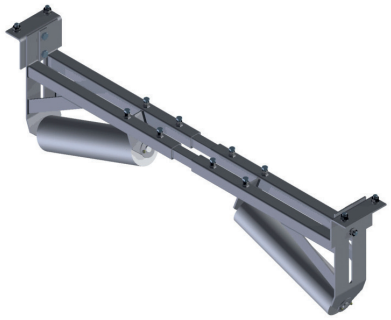
The trackers are manufactured from 304 grade stainless and are available in three sizes:

Minimum Belt Width mm (inches)	Maximum Belt Width mm (inches)
450mm (18)	650mm (24)
750mm (30)	1200mm (48)
1350mm (54)	1800mm (72)

The design of the tracker is such that it can be adjusted onsite to suit any conveyor structure. This style of tracker needs to be manually adjusted and locked during maintenance windows. The trackers utilises industry standard rollers.

The Inverted Vee tracker is most commonly used on short centred or slow moving conveyor belts.

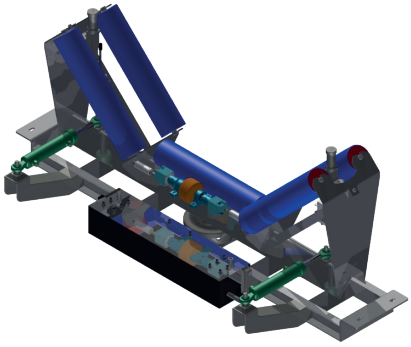
Inverted Vee Tracker



HYDRAULIC TRACKERS

The Tuff Hydraulic tracker is a specialised option which has been designed for demanding applications where traditional trackers are not sufficient, for example on shiploaders, reclaimers and boom belts.

Hydraulic Tracker



Features of our Hydraulic tracker include:

- The unit is self powered, meaning no external power source is required. Power is generated by attaching a wheel to the return side of the conveyor belt, which then powers the hydraulic motor.
- The unit does not require servo/guide rollers. The tracker has limit switches mounted on each side of the tracker in place of a servo/guide roller. The limit switch communicates belt wander to a control panel. Two hydraulic cylinders allow the position of the tracking unit to be automatically adjusted and redirect the belt back to the centre of the conveyor.
- The main pivot bearing on the tracker utilises a thrust plate as opposed to traditional bearings. This overcomes potential failure modes such as brinelling or seizure.
- Structural components of the tracker are manufactured from 304 grade stainless steel.

TSGlobal®

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APM Poly Products

TSG Site Services

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TRU TRAC

RKM INTERNATIONAL ROLLER COMPANY

MCE Conveyor Pulleys & Equipment

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