



BELT TRACKING  
SOLUTIONS

# CLIMAFLEX®

Return Tracker Roller

REACTIVE

DYNAMIC

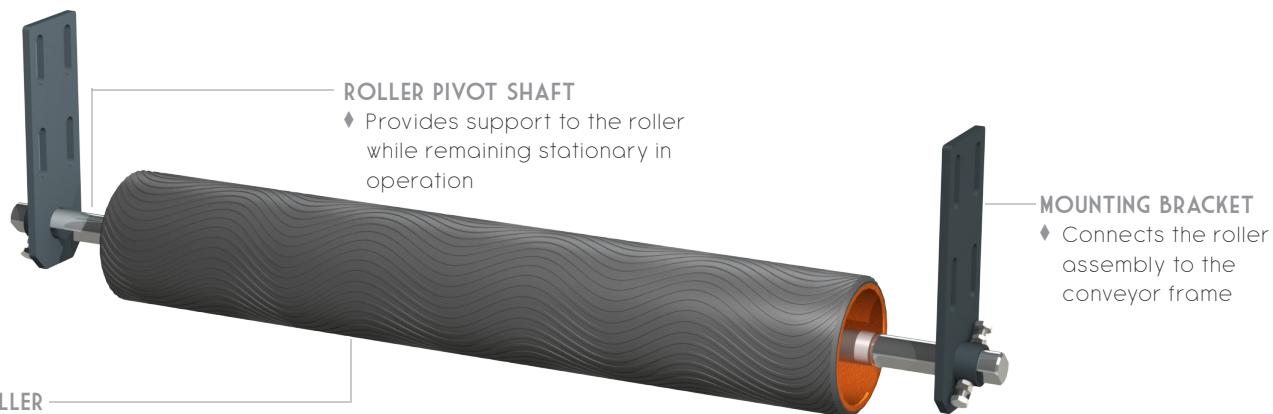
BALANCING



OCEAN RUBBER FACTORY LLC

# CLIMAFLEX®

## TRACKER ROLLERS



### ROLLER PIVOT SHAFT

- ◆ Provides support to the roller while remaining stationary in operation

### MOUNTING BRACKET

- ◆ Connects the roller assembly to the conveyor frame

### RUBBER LAGGED ROLLER

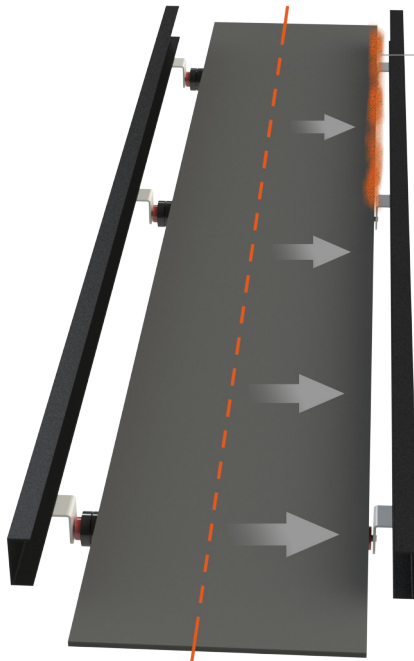
- ◆ The rotating element of the tracking system
- ◆ Rotates according to the belt speed
- ◆ The roller is pivoted at the shaft center
- ◆ The roller tilts if belt mistracking occurs & the 45 degree tilting technology forces the belt to its original path ensuring the correct tracking position of the belt
- ◆ The specially patterned rubber lagging provides the correction friction for the belt tracking
- ◆ Fully sealed rotating components for durability
- ◆ Smooth rotation & tilting movements using high quality bearings

## Advantages

- ◆ Maintenance-free
- ◆ Compact design
- ◆ Quick installation
- ◆ Wear resistant rubber lagging
- ◆ No wearing parts
- ◆ Durable sealed components
- ◆ Available for Normal and Reversible operations

**CLIMAFLEX® RETURN TRACKER ROLLERS** are specially designed to solve one of the most common issues in the conveyor field; '**Belt Mistracking**'. When the belt moves away from the centered running position on the conveyor, in extreme cases, belt edges can come in contact with the conveyor frames which will cause severe damage to the belt & conveyor Structure. The belt mistracking is more frequent on the return side & Climaflex return tracker roller ensures the correct tracking of conveyor belt every time.

**Belt Mistracking** is when the belt hits/rubs on the conveyor frame causing damage to the belt edge & to the conveyor structure.



Belt Mistracking  
[Belt is mistracking towards the right side]

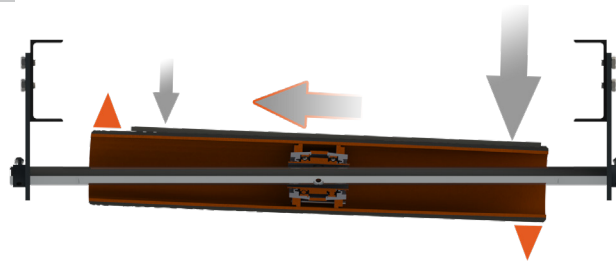
## THE PROBLEM

### WEIGHT IMBALANCE

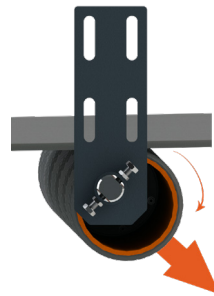
◆ Created by the mistracked belt on either sides initiating the tilting [Inclined Tilting Technology].

### FRictional FORCE

◆ Tilting induces a residual frictional force which steers the belt to the opposite of the mistracking direction.



Climaflex® Tracker Roller  
[Cross Section View showing Tilting Mechanism]



Climaflex® Tracker Roller  
[Right Side View showing Tilting Mechanism]

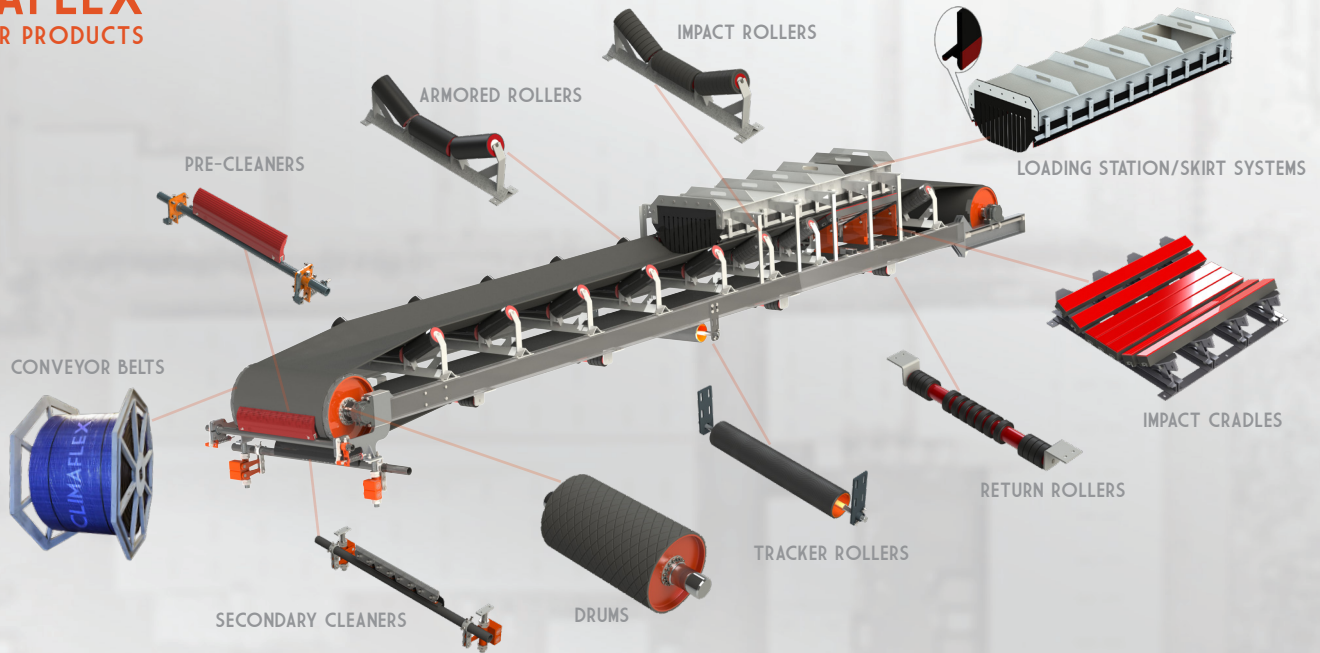
## THE SOLUTION (FRICTION TRACKING)

- ◆ Easy, large scale Tilting Movement
- ◆ Sensitive to the slightest mistracking
- ◆ High Frictional Coefficient through specially designed Rubber Logging



Climaflex® Tracker Roller Working  
[When the Belt is mistracking towards the right side]

## HOW IT WORKS



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