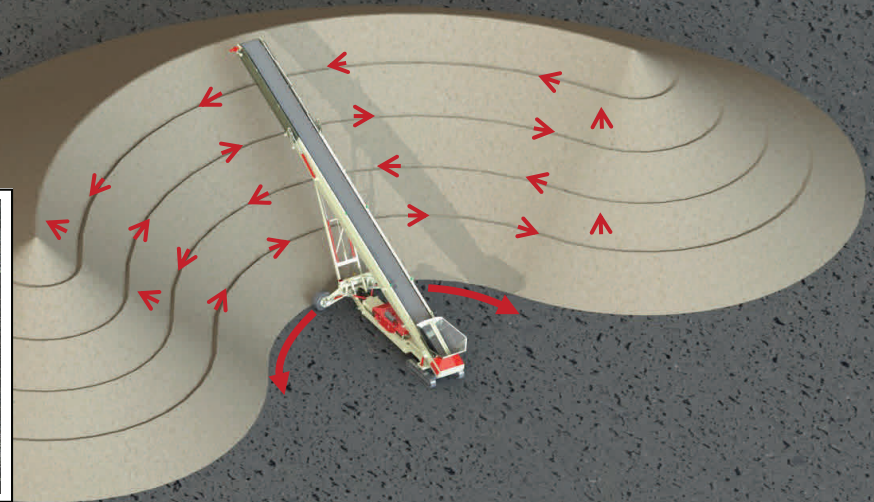


# NEW RADIAL TRACKED CONVEYOR AUTOMATIC STOCKPIILING SYSTEM



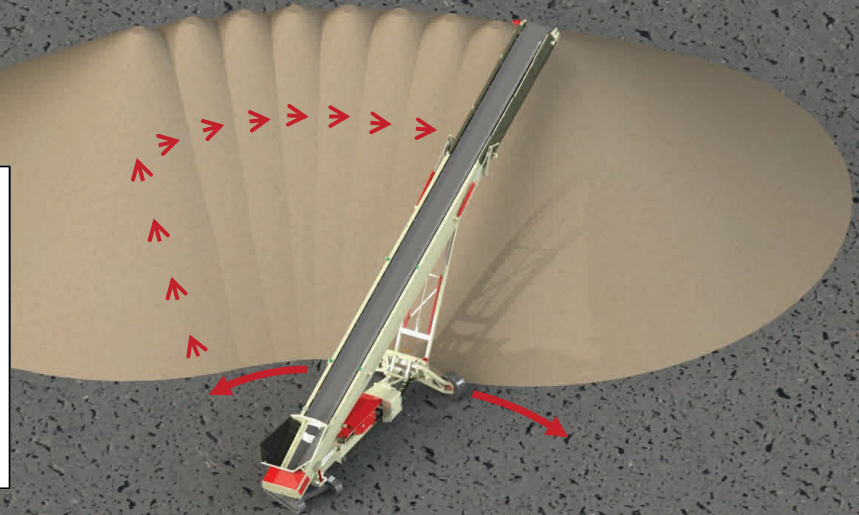
## Option 1 - Continual Arc, Auto Stockpiling Program

Conveyor continually moves from left to right in a radial arc motion starting at a low luffing angle. The luffing angle increases as the stockpile increases.



## Option 2 - Conical Incremental, Auto Stockpiling Program

Conveyor creates a stockpile and when maximum height it reached the conveyor radials slightly. It then continues until the maximum height is again reached, the process is then repeated.



- Reduce / Eliminate segregation, degradation, contamination and compaction of material
- Produce high quality, evenly blended product
- Lower capital investment than traditional radial telescopic conveyors
- Stockpile capacities up to 20,000 Tonnes
- Stockpile product direct from processing plant *(Eliminate building costly secondary piles with wheel loaders)*
- Track mobile allows for ease of site movement
- Removes the need for a dedicated wheel loader to remove material from Crusher / Screen
- Removing / reducing loading shovel movement, reducing operating costs
- Reduced labour & fuel costs & carbon footprint
- Less loader movements on site = safer site
- Reduces productivity idle time, increasing production *(no down time waiting on loaders)*
- Increased production capacities
- Optional Electric drive / Dual Power

Available on - TC 421R - TC 424R - TC 621R - TC 624R

## General Information

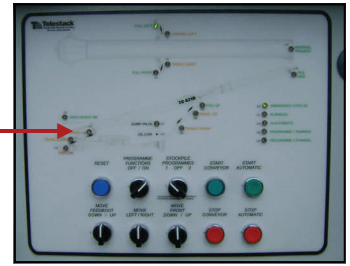
### Continual Arc (Option 1):

The unit starts off at its lowest luffing angle and continually radials left and right. The unit is fitted with limit switches to detect when the maximum left / right position has been reached. When the maximum position is reached the unit stops and continues in the opposite direction. As the unit is continually radialing, the pile high sensor at the head of the conveyor ensures the head of the conveyor stays 500mm - 1000mm (adjustable) above the material. When the pile high sensor reads there is material within range of the head of the conveyor, the front luffing rams activate and rise for 3 seconds (adjustable). The programme then continues to stockpile material like this until the maximum luffing angle is reached using a limit switch. When this happens an alarm sounds to warn operator the maximum size stockpile has been reached.

### Conical Incremental (Option 2):

The unit begins at its lowest angle and creates a conical stockpile. The conveyor automatically raises as the stockpile increases as the pile high sensor activates the front luffing rams when material comes within 500mm - 1000mm (adjustable) of the head of the conveyor. When the maximum luffing angle is achieved, and the pile high sensor senses material, the unit radials right for 2 seconds and continues stockpiling. When the unit reaches its maximum right position and activates the limit switch, the unit will begin to radial left. As the unit radials back over the stockpile, the pile high sensor checks for any gaps in the stockpile. When a gap is sensed, the unit stops and fills the gap in, when filled the unit continues to radial to check for other gaps. When the unit completes two passes over the stockpile with no gaps an alarm will sound to alert the operator that the maximum stockpile has been achieved.

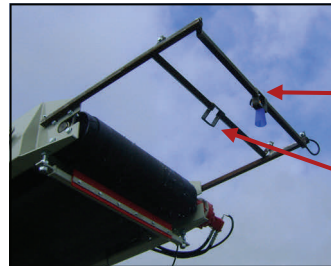
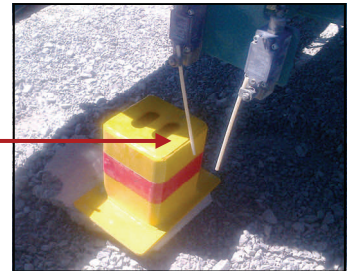
Control Panel:  
Allows user to select between different functions and run fault diagnostic. Comes with PLC.



Rear Telescopic Design:  
Allows conveyor angle to increase without changing feed in height.

### Radial Travel Limit Switches:

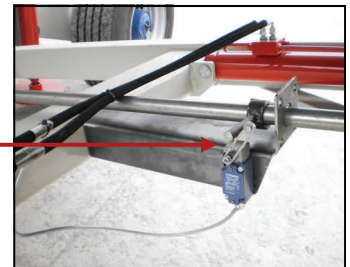
Activated when unit reaches maximum position on left / right.



Pile High Sensor:  
Senses when stockpile comes within a certain range of conveyor head.

Material Flow Sensor:  
Senses when no material is flowing at head drum & stops radial movement until material arrives.

Incline Limit Switch:  
To set max conveyor working angle.



## Stockpile Capacities

21m Conveyor, 23 Degrees Working Angle				
Radial Angle	Capacity (m <sup>3</sup> )	Capacity (Tonne)	Capacity (Yards <sup>3</sup> )	Capacity (Ton)
0°	1215	1945	1590	2140
90°	4340	6940	5675	7650
120°	5380	8610	7035	9490
180°	7465	11940	9760	13160

24m Conveyor, 23 Degrees Working Angle				
Radial Angle	Capacity (m <sup>3</sup> )	Capacity Tonne	Capacity (Yards <sup>3</sup> )	Capacity (Ton)
0°	2105	3370	2755	3710
90°	7115	11380	9305	12545
120°	8780	14050	11485	15490
180°	12120	19395	15855	21375

### Distributed by:



### For Further Information

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