



RADIAL TELESCOPICS





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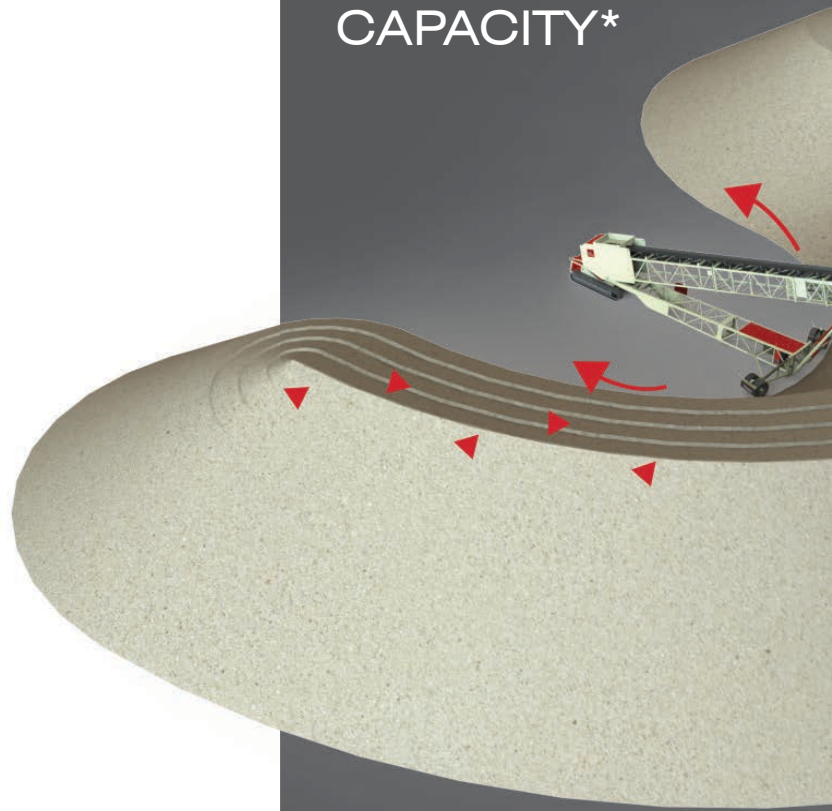
BENEFITS OF RADIAL TELESCOPICS

Telestack equipment has a proven record of performance and reliability, operating in all types of applications and climates around the world. Satisfied customers include Cemex, La Farge, Holcim, CRH, Anglo American, Rio Tinto, BHP Billiton, Mechel, Suek and many more.

- Stockpiling rates from 100TPH - 3000TPH*
- Lengths from 25 metres (82ft) to 58 metres (190ft)
- Stockpiling capacities from 1,200 tonnes to 200,000 tonnes at 270 degrees
- Stockpiling 'In specification material' reduces re-blending/ remixes process
- Telescopic stockpile approximately 30% increased capacity when comparing typical conical stockpile*
- Stockpile heights up to 20 metres (65ft)
- Stockpiling 0-300mm (12 inch down) material
- Easily packed into containers for shipment throughout the world
- Assembly on site 1 week, limited civils required - no welding, electrics, hydraulics

*Based on 1.6 t/m³ density

**30%
LARGER
STOCKPILE
CAPACITY***



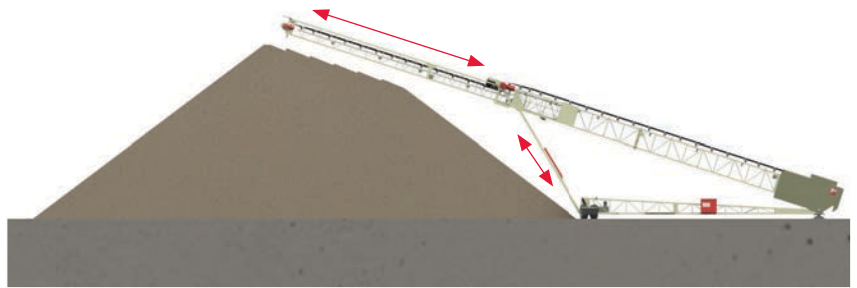
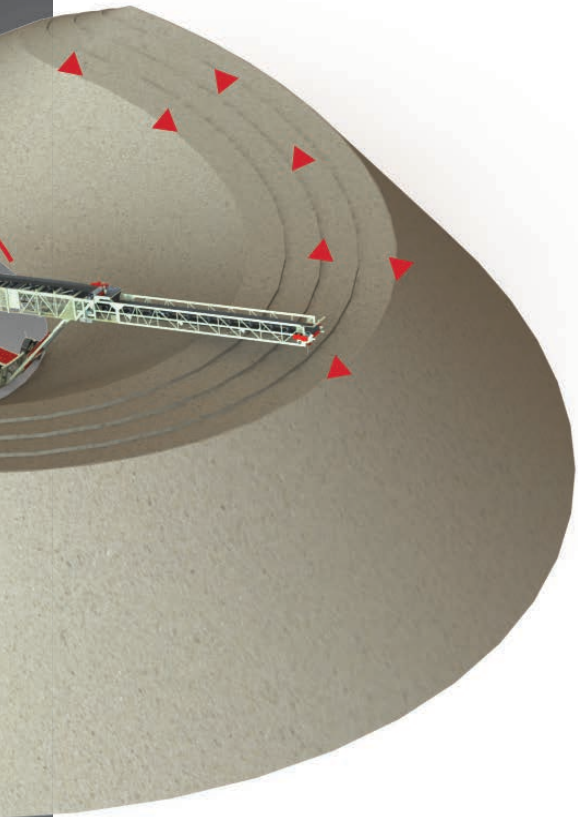
UNDERSTANDING THE TECHNOLOGY

The radial, telescopic and luffing features of the Telestack conveyor or range allows the operator full control when stockpiling a range of materials whilst eliminating segregation, degradation, contamination and compaction of material.

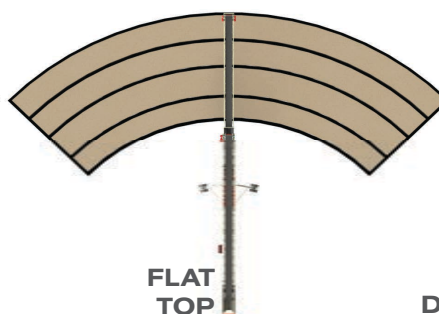
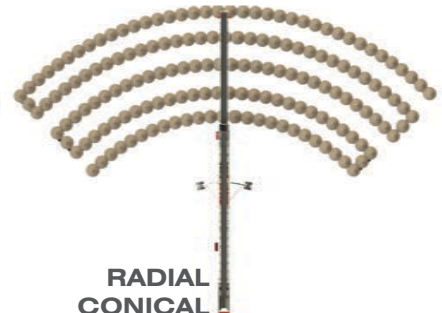
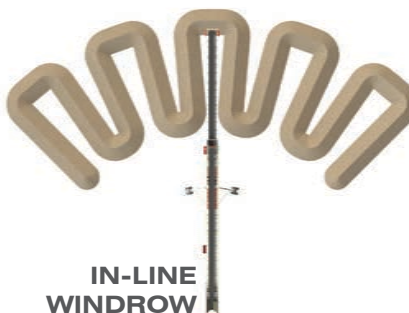
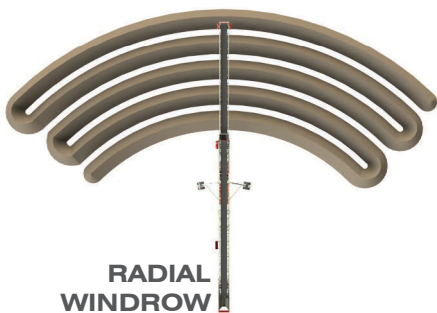
The innovative design allows for up to +30% larger stockpile to be achieved of "in-spec" material on the same footprint when compared to a standard conveyor design of the same length. The conveyor moves from left to right in a radial arc motion starting at a low luffing angle with the inner conveyor retracted. When the unit completes a full pass over the stockpile, the inner conveyor extends and continuous to radial over the stockpile. The luffing angle automatically increases as the stockpile height increases.

The Telestack Radial Telescopic Conveyor has in-built technology to meet the specific material specifications of the customer. Available in a range of lengths and widths, the Telestack radial telescopic conveyor range allows for greater stockpiles of "in-spec" material on a smaller footprint using fully-automated PLC technology.

The Telestack PLC technology is key to their products delivering a high-quality product efficiently. The technology prevents material segregation and degradation by stockpiling windrows of material in incremental lifts using a user friendly fully programmable PLC controller with numerous different programs available to the operator.

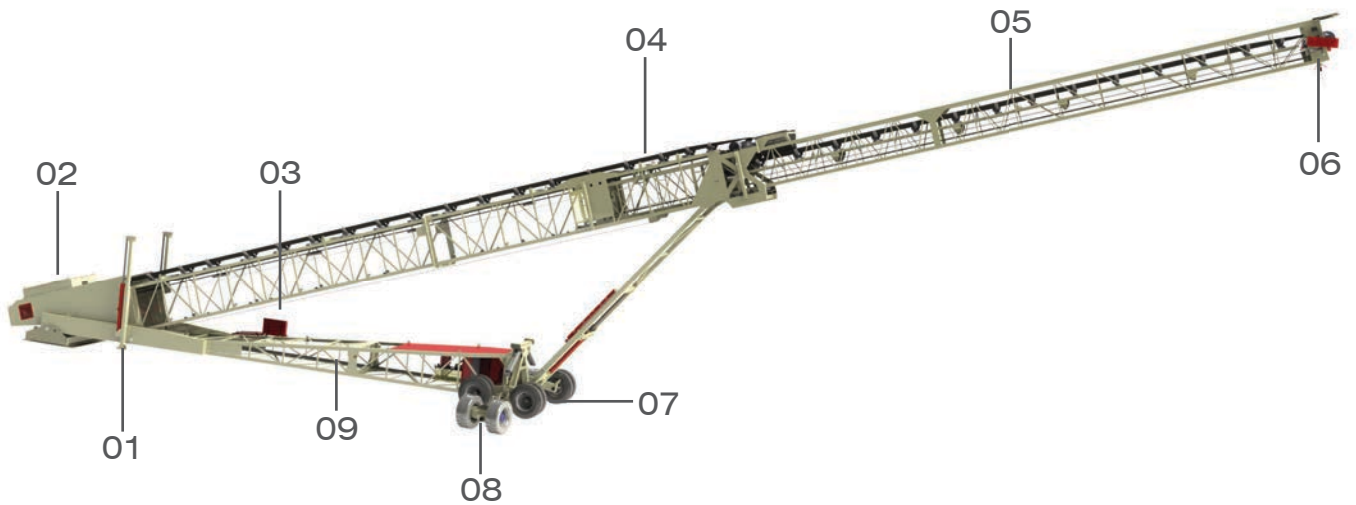


USER FRIENDLY FULLY AUTOMATED PLC PROGRAM





TYPICAL FEATURES - RADIAL TELESCOPIC



Typical features of a Radial Telescopic - Aggregates specified unit. Mining specified units also available



- 01 Hydraulic raised rear section to make the machine road transportable (option)
- 02 Impact centre rollers at feed point for large lump size material
- 03 Automatic stockpiling PLC with HMI (Human Machine Interface) selection and maintenance screen
- 04 Lattice frame heavy duty structures designed for maximum support
- 05 Telescopic stinger conveyor which extends and retracts for maximum capacity and flexibility
- 06 Discharge position with integrated height sensors for auto-raise/ lower operation
- 07 Radial potential of up to 270° for maximum stockpile capacity using radial wheels
- 08 Hydraulic folding gull wings to allow radial function (option for road transportable unit)
- 09 Range of power and control options available

OPERATING WITH MOBILE SYSTEMS



The Radial Telescopic units are fully mobile with optional tracks and integrated genset for ultimate flexibility when operating with mobile equipment.

- 01 TS stockpiling from mobile crushing & screening operation
- 02 TS stockpiling from mobile crushing & screening operation
- 03 TS with optional tracks and integrated generator stockpiling from mobile crusher



01



02

The Radial Telescopic units can easily integrate into a fixed plant system to ensure a quality finished product and large stockpile capacity reducing dust segregation, degradation, contamination and compaction of the material.



03



04

- 01** TS Radial Telescopic stockpiling aggregates from fixed plant
- 02** TS stockpiling in a coal fired Powerstation
- 03** TS Radial Telescopic fed from cement plant
- 04** TS stockpiling from fixed crushing & screening operation over reclaim tunnel

OPERATING WITH FIXED SYSTEMS/
TRIPPER CONVEYOR SYSTEMS

METHODS OF FEEDING



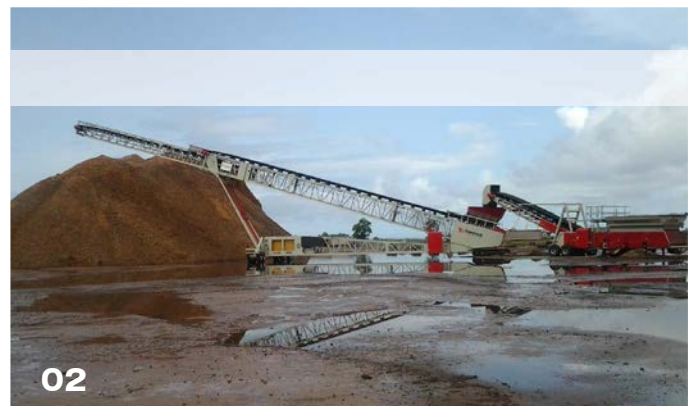
ELIMINATE/ REDUCE SEGREGATION, DEGRADATION, CONTAMINATION AND COMPACTION.

- Proven best method of stockpiling in the industry for maintaining material quality
- Provides a higher quality product at a lower stockpiling cost per tonne
- Fully automated operation for reduced labour

MOBILE HOPPER FEEDERS



01



02

TITAN BULK RECEPTION UNITS



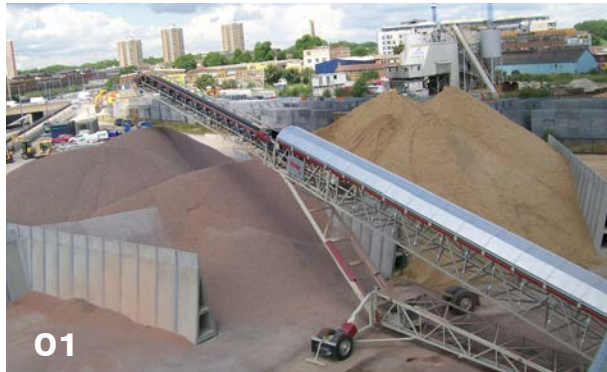
03



- 01 TS Radial Telescopic being fed from Tracked Hopper Feeder stockpiling in a stockyard from wheel loader
- 02 TS Radial Telescopic automatically stockpiling from a wheeled Mobile Hopper fed from Wheel Loader
- 03 Truck feeding direct to Titan which feeds TS Radial Telescopic in Heap Leaching application
- 04 Wheel loader feeds direct to Titan which feeds TS Radial Telescopic
- 05 Truck feeding direct to Titan which feeds TS Radial Telescopic stockpiling inside warehouse
- 06 Discharge grab feeds direct to Titan which feeds TS Radial Telescopic stockpiling in open stockyard
- 07 Static Link Conveyors feeding Mobile Radial Telescopic Stacker
- 08 Tracked Mobile Link Conveyors feeding a tracked Radial Telescopic in Heap Leaching Application
- 09 Wheeled Mobile Link Conveyor feeding Radial Telescopic in mobile crushing & screening operation

OTHER APPLICATIONS

RADIAL TELESCOPIC LOADING A RANGE OF MATERIALS INTO BAYS/ FRONT OF JETTY



RADIAL TELESCOPIC USED AS MOBILE LINK CONVEYORS



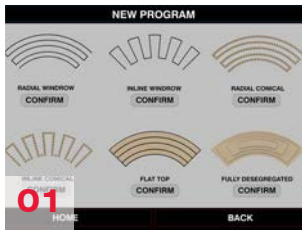
- 01 Radial Telescopic stockpiling differing grades of material into bays
- 02 Stockpiling over the top of a railway line in a port
- 03 Mobile Radial Telescopic as a variable length link conveyor
- 04 TS Radial Telescopic variable length Link Conveyor between Mobile Plant

TRANSPORTATION & CONTAINERISATION

The ease of transport of these units makes it very easy and cost efficient for transporting globally. The equipment can be easily packed into 40ft containers and shipped directly to site. As all the units are fully assembled and tested in the factory before dispatch, they are easily built on site in less than 1 x week. The sections are bolted together (no welding), electrics are plug and socket with an integrated hydraulic powerpack which eliminates any possible issues during installation. Some of the units can be road mobile for easy 'site to site' transport. (Depends on local road regulations)



OPTIONS



- 01** Automatic PLC Stockpiling Program
- 02** All function radio remote control
- 03** Integrated Gen-set into undercarriage
- 04** Tracked dolly unit for site movement
- 05** Towed wheel bogie for site movement
- 06** Outer and Inner Dust covers / discharge chutes
- 07** Dust suppression water spray bars
- 08** Gull Wing/ Push down axle
- 09** Low tail for reduced feed-in height
- 10** Dual Access walkways for maintenance
- 11** Emergency rope break system
- 12** Specialised paint colour and finish



Range	TPH @ 1.6 t/m ³ density (Metric)	Total length (fully extended)	Radial Stockpile capacity (120 degrees)	Radial Stockpile capacity (270 degrees)	Discharge Height (18° Degrees)
25 metre	From 200 Tonnes/Hr (220 Tons/Hr) up to 500 Tonnes/Hr (550 Tons/Hr)	25m (82ft)	10,530 Tonnes (11,610 Tons)	20,930 Tonnes (23,070 Tons)	9.3m (30ft 6")
32 metre	500 Tonnes/Hr (550 Tons/Hr)	32m (105ft)	20,975 Tonnes (23,120 Tons)	42,105 Tonnes (46,415 Tons)	10.5m (34ft 1")
42 metre	From 500 Tonnes/Hr (550 Tons/Hr) up to 1000 Tonnes/Hr (1100 Tons/Hr)	42m (140ft)	45,345 Tonnes (49,985 Tons)	91,785 Tonnes (101,175 Tons)	13.6m (44ft 3")
42 metre	From 1200 Tonnes/Hr (1320 Tons/Hr) up to 3000 Tonnes/Hr (3300 Tons/Hr)	42m (140ft)	50,390 Tonnes (55,545 Tons)	101,455 Tonnes (111,835 Tons)	14.6m (47ft 8")
50 metre	From 500 Tonnes/Hr (550 Tons) up to 3000 Tonnes/Hr (3300 Tons/Hr)	51m (170ft)	81,890 Tonnes (90,270 Tons)	166,145 Tonnes (183,145 Tons)	17.5m (56ft 11")
58 metre	Up to 3000 Tonnes/Hr (3300 Tons/Hr)	58m (190ft)	115,050 Tonnes (126,820 Tons)	234,365 Tonnes (258,345 Tons)	19.6m (63ft 7")

*Other Lengths, TPH, etc are available on request.



Telestack specialise in the complete design, manufacture, installation and commissioning of mobile bulk material handling systems. We have a global proven record in a range of applications including quarry and mining industries, ports & inland terminals, stockyard management, power stations, rail yards, steel mills, cement kilns and many other bulk material handling industries. Our mobile solutions offer significant operating cost savings compared to traditional methods of material handling (wheel loaders, haul trucks, static conveyors), as well as providing Environmental, Health and Safety and other benefits. Other significant benefits include reduced planning requirements due to product mobility and the flexibility to move Telestack mobile equipment around the site or from site to site.

EXPERIENCE

The Telestack team have 30 years international experience designing, manufacturing, installing and supporting equipment. We offer the right solution for the customer and customise the design to suit your specific requirements. Our long-standing Sales and Application Specialists are involved at every stage of the process and our Project Management department ensures that the unit is built to the agreed specification and within the agreed timeframe. Our company has naturally matured into two distinct divisions: Telestack

Aggregates and Mining and Telestack Ports and Inland Terminals. These specialist divisions truly understand their trade and our Clients benefit from our experience. There is also a wealth of reference sites in a range of applications across the globe that demonstrates this experience first-hand and an exceptionally high returning custom rate – well above industry standard! Our customers range in size, nature and requirements but we are steadfast in the conviction that the customer at the heart of our business – without them we cease to exist!

Telestack products can handle all free flowing bulk materials including ores, coal, aggregates, fertilizers, grains, woodchips, pellets and many more bulk materials! Working from their modern headquarters in the N. Ireland, Telestack offer a complete in-house design, manufacture and assembly of all units. All Telestack units are fully built and tested prior to dispatch. All electric/ hydraulics and operating functions are tested and recorded and comprehensive quality checks are recorded prior to dispatch (in strict accordance with ISO guidelines). Any issues are identified, resolved and re-tested before they leave our premises.

Extensive investment has been made to ensure our global supply chain is responsive to our needs and the needs of our customer. We source components that meet our high expectations and trade only with

suppliers who are best positioned to support our global Clients.

QUALITY

Quality has always been at the core of the Telestack brand and they have always been renowned throughout the industry for the high quality of their machines. As a UKAS accredited company, ((ISO 9001 (Quality Management), ISO 14001 (Environmental Management), OHSAS 18001 (Health & Safety Management)), the Telestack Integrated Management System (IMS) ensures that anything which has an effect on overall business performance is monitored, actioned and improved as a natural part of their business culture. Complimented by the Investors in People Award, Telestack take quality seriously at every stage from the people that they employ, to their supplier of components to the internal processes that they use on a daily basis.

There is an advanced lean manufacturing program in place and as well as an advanced in-house safety program for all employees. We have made significant investment in our facilities and can now boast one of the most technically advanced blasting/ painting facilities in the world.

In addition Telestack equipment can be designed for the onerous demands of mining applications and we are an approved supplier of equipment that meets Western Australian Mining Structural Stand-



ards (AS 4324.1), guarding (AS1755) and electrics (AS3000). We have also designed structures to operate safely in earthquake zones throughout the world. Our electrical design team can also design/specify to meet local electrical standards.

ASSEMBLY/ INSTALLATION

Site assembly can be less than one week with limited civil construction needed on site. Our service engineers can be arranged for dry and/or wet commissioning of units on-site and on-site training can be provided. Engineers can also support your equipment in the field as part of our Field Service Programme to ensure

uptime of the product. Additionally we also have a network of Dealers, Agents and Partners across the globe that are hand-picked for their expertise in the material handling field, and who are there to assist you on our behalf!

AFTERSALES

The Telestack after-sales department work continuously to put the customer at the heart of their department and they aim to solve problems quickly to ensure the safe and efficient operation of Telestack equipment in the field. Our parts packages are tailored to suit the equipment, the application and the location and our

team are focused on ensuring you receive the correct part the first time, on time, every time!

To support the Telestack units in the field, we have a product helpdesk that is manned by our Engineers who understand and have personally worked with Telestack units. If equipment in the field does experience issues, the Telestack support desk is committed to get the unit up and running as quickly as possible. We act with urgency and are responsive to the business needs of our customer!

Telestack has successfully established a reputation as a supplier of choice with many blue chip companies around the world including:

- Port of Panama City (USA)
- Port of Vostochny (Russia)
- Port of Alexandria (Egypt)
- Port of Gangavaram (India)
- Port of Brisbane (Australia)
- Port of Coquimbo (Chile)
- Port of Belfast (N.Ireland)
- Port of Dhamra (India)
- Port of Kembla (Australia)
- Port of Barranquilla (Colombia)
- Port of Ust Luga (Russia)
- Port of Imbituba (Brazil)
- Port of Kakinada (India)
- Port of Buchanan (Liberia)
- Port of Jaigarh (India)
- Riga Commercial Port
- Krishnapatnam Port
- Premier Periclane
- Cemex
- Mechel
- Nibulon
- BHP Billiton
- Holcim
- Ural Kili
- Norilsk Nickel
- La Farge
- Rusal
- Tarmac
- Fortescue
- Oldendorff
- Tata Steel
- Van Oord
- Fomento
- Thyssen Krupp
- La Farge
- Larsen + Toubro
- Glencore Xstrata
- Heidelberg Cement
- Martin Marietta
- Vulcan
- Glencore Xstrata
- Severstal
- Eurovia
- LKAB
- FLSmidth
- Anglo American
- Codelco
- JSW
- Ennstone Breedon
- Imerys
- CRH
- SUEK
- Jindal Steel
- Arcelor Mittal
- Electrosteel
- Peter Hambro
- Rio Tinto
- Qube

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THE
POWER
TO MOVE
MATERIALS