SUPERIOR CONVEYING EQUIPMENT

STACKING CONVEYORS
P/3  TeleStacker® Conveyor
P/13 Pinnacle® Conveyor
P/19 PowerStacker® Conveyor
P/25 Portable Radial Stacking Conveyor
P/29 Radial Stacking Conveyor
P/33 Geotrek® Conveyor
P/35 Tripper Conveyor

TRANSFER CONVEYORS
P/37 Trailblazer® Conveyor
P/39 Zipline™ Conveyor
P/43 Overland Conveyors
P/47 Slide-Pac™ and Slide-Stac™ Conveyors
P/49 Jump Conveyors
P/51 Stackable Conveyors

FEED SYSTEMS
P/55 RazerTail® Truck Unloader
P/59 Razerlink™ Conveyor
P/61 Portable Feed Hopper
P/63 Tunnel Reclaim

PORTABLE PLANTS
P/65 Portable Screen Plant

MOBILE SHIPLOADERS
P/67 Passport™ Mobile Shiploader

CONVEYOR SIZING
P/73 Conveyor Incline Chart
P/73 Maximum Belt Capacities
P/74 Stockpile Capacities

CONVEYOR COMPONENTS
P/75-76 Superior Idlers, Pulleys and Accessories
With more than 1,000 units manufactured and capacities up to 5,000 TPH, Superior is the world’s leading builder of telescopic conveyors.

Our commitment to cutting-edge technology means we’re working to identify, create and perfect the TeleStacker Conveyor.

Our legacy of structurally sound engineering and manufacturing is vital for safety and endurance in all applications.

Defeat costly material segregation and build the highest volume, in-spec stockpiles.
1/ CHEVRON® PULLEY: Patented v-shaped pulley deflects fugitive material to extend pulley life and lessen belt wear. In addition, constant belt contact reduces vibration and noise generation by 50 decibels.

2/ SEALING SYSTEM: Prevents material spillage in load zone by maintaining a tight seal between belt and hopper skirting.

3/ SONICSCOUT™ MATERIAL SENSOR: If no material is present, sensor sends signal to automation program, sounding an alarm and pauses automation until action is taken.

4/ METAL GUARDING: Safeguards are essential to protect workers from injury. Superior’s guarding is identified easily with safety yellow paint.

5/ EXTERRA® BELT CLEANERS: Patented Superior brand scraper blades designed with thicker edge, for extra material at crucial point of attack, providing longer life.

6/ MATERIAL LEVEL SENSOR: No contact sensor feeds automation program stockpile height. Sensor is not affected by dust.

7/ NAVIGATOR® RETURN TRAINER: Patented return roller constantly guides and centers belt to prevent misalignment, common to conveyors that constantly move.

8/ CAM ROLLERS: Patented center pivot design supports the weight of the entire stinger conveyor equally across all rollers, which reduces stress on frame which provides longer life.

9/ STINGER SAFETY STOPS: Designs that protect your investment. Safety stops immediately react in the event of stinger cable failure, minimizing structure damage.

10/ CABLE CARRIER: Cable is enclosed and contained, free flows in trough and the innovative design keeps fugitive materials out and relieves stress from linkage.

11/ RAISE CYLINDERS: Used to raise and lower stacker and are specially designed for safety. Counterbalance valve keeps the raise cylinders from lowering if there is a hydraulic failure.

12/ FB® UNDERCARRIAGE: Patented for maximum undercarriage support and the most rigid lateral stability. Load sharing hydraulic cylinders add even greater structural support and safety.

13/ AXLE CONFIGURATION: Three styles of road/radial travel axles for applications from exceptionally road portable to fixed radial stacking.

14/ PILEPRO™ AUTOMATION: Tested and proven automation program solves pile segregation issues and produces a uniformed quality spec material. Automation program signals operator when service maintenance is required.
COMPENSATION LINKAGE (FD AXLE)
4-WHEEL DRIVE (FD AXLE)
EXTERRA® BELT CLEANER
POWER TRAVEL SENSOR
SELF-ALIGNING IDLERS
PORTABLE JACKS
AXLE JACKS
WALKWAYS
DUAL POWER TRAVEL (XTP AXLE)
URATHON® RETURN ROLL
WALKWAY (ON MAIN CONVEYOR)

WIRED REMOTE SYSTEM
DUAL POWER SOURCE
SHIELD-ALL® GUARD
COLD WEATHER KIT
WIRELESS REMOTE
SPRAY BARS
MAINFRAME CONVEYOR COVERS
STINGER CONVEYOR COVER
HYDRAULIC LANDING JACKS
PILEPRO™ AUTOMATION

AUTO GREASER
MOXIE® ROLLS
BELT UPGRADE
IMPACT IDLERS
ON-BOARD COUNTERWEIGHT (XTP AXLE)
GALVANIZED
BELT SCALE
TOW EYE
SAFETY

A/ FB® UNDERCARRIAGE
- Patented undercarriage support system is designed with more steel for rock solid bracing.
- Fully braced inner structure glides within fully braced outer structure to ensure stability and safety.
- Mounting position of hydraulics allow cylinders to aid in structural support.

B/ STINGER SAFETY CATCH
- Continuously monitor cable tension to stinger conveyor.
- Immediately reacts in event of stinger cable failure.
- Spring loaded mechanical device is field tested and proven.

C/ STINGER CROSS BRACING
- Increased bracing maintains structural rigidity under heavy material and wind loads.

D/ ROBUST TRUSS
- Condensed lattice spacing increases structural integrity of conveyor truss design.

E/ CAM ROLLERS
- Patented, large 8” diameter rollers support the stinger conveyor as it travels.
- Center pivot design supports conveyor weight equally on all rollers.
- Rollers at top and bottom of stinger conveyor for extra stability.
**PATENTED FD AXLE**

- Hydraulically transfer from road to operation in seconds
- Hydraulically adjust tires to offset uneven terrain
- Enclosed drive protects gearing from debris
- Tracks conquer low pressure soils

**XTP SWING AXLE**

- Physically transfer from road to operation in minutes
- Concrete pad provides level runway
- Pull T-handle to engage power travel; no chain drive
- Link arms secure road and radial tires

In-house automation engineers reduce reliance on third parties.

Step by step program is easy to setup and understand.

Exclusive zoning technique builds higher volume stockpile on same footprint.

Special diagnostics screen allows users to quickly pinpoint faults.

Proactive maintenance reminders signal operators to complete conveyor upkeep tasks.

Onscreen pile volume estimator reports approximate tonnage based on parameters set.

Save settings for up to four unique pile configurations.
LOW PROFILE ELIMINATES TRANSFER CONVEYOR BETWEEN PLANT AND STACKER

72” X 190’ STOCKPILES AT 5,000 TPH

FD AXLE TRANSFERS FROM ROAD TO STOCKPILE MODE IN SECONDS

RADIAL WINDROW STOCKPILING ACHIEVES IN-SPEC MATERIAL MIX

EQUIPPED WITH FD TRACKS, THIS UNIT CONQUERS LOW PRESSURE SOILS

AT A RAILYARD, THIS UNIT CREATES EIGHT UNIQUE MATERIAL STOCKPILES

THE MOST EFFECTIVE SOLUTION FOR CONTROLLING SEGREGATION

A 190’ TSXTP IS CAPABLE OF PRODUCING A 209,300 CUBIC YARD STOCKPILE
### FD AXLE TSFD Specifications

#### OPERATING DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>110'</th>
<th>130'</th>
<th>136' *</th>
<th>150'</th>
<th>158' *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>110'-0&quot; (33.5)</td>
<td>130'-0&quot; (39.6)</td>
<td>136'-0&quot; LP (41.5)</td>
<td>150'-0&quot; (45.7)</td>
<td>158'-0&quot; LP (48.0)</td>
</tr>
<tr>
<td>Highest Extended Discharge Height (m)</td>
<td>41'-3&quot; (12.6)</td>
<td>45'-5&quot; (13.8)</td>
<td>44'-0&quot; (13.4)</td>
<td>52'-9&quot; (16.1)</td>
<td>48'-10&quot; (14.8)</td>
</tr>
<tr>
<td>Lowest Extended Discharge Height (m)</td>
<td>18'-10&quot; (5.7)</td>
<td>19'-4&quot; (5.9)</td>
<td>18'-6&quot; (5.6)</td>
<td>19'-6&quot; (5.9)</td>
<td>19'-6&quot; (5.9)</td>
</tr>
<tr>
<td>Highest Retracted Discharge Height (m)</td>
<td>25'-0&quot; (7.6)</td>
<td>27'-3&quot; (8.3)</td>
<td>27'-1&quot; (8.2)</td>
<td>30'-10&quot; (9.4)</td>
<td>30'-10&quot; (9.4)</td>
</tr>
<tr>
<td>Lowest Retracted Discharge Height (m)</td>
<td>11'-8&quot; (3.5)</td>
<td>13'-1&quot; (4.0)</td>
<td>12'-8&quot; (3.8)</td>
<td>12'-6&quot; (3.8)</td>
<td>12'-4&quot; (3.7)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>39'-8&quot; (12.1)</td>
<td>49'-0&quot; (15.0)</td>
<td>55'-4&quot; (16.9)</td>
<td>54'-9&quot; (16.7)</td>
<td>70'-11&quot; (21.6)</td>
</tr>
</tbody>
</table>

#### STOCKPILE DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>110'</th>
<th>130'</th>
<th>136' *</th>
<th>150'</th>
<th>158' *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pile Height (m)</td>
<td>39'-2&quot; (11.9)</td>
<td>43'-0&quot; (13.1)</td>
<td>43'-2&quot; (13.1)</td>
<td>50'-0&quot; (15.2)</td>
<td>47'-3&quot; (14.4)</td>
</tr>
<tr>
<td>Lowered Stockpile Height (m)</td>
<td>15'-6&quot; (4.7)</td>
<td>15'-10&quot; (4.8)</td>
<td>14'-9&quot; (4.5)</td>
<td>16'-7&quot; (5.0)</td>
<td>18'-10&quot; (5.7)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Pile (m)</td>
<td>100'-2&quot; (30.5)</td>
<td>115'-8&quot; (35.2)</td>
<td>126'-4&quot; (38.5)</td>
<td>132'-6&quot; (40.4)</td>
<td>145'-6&quot; (44.3)</td>
</tr>
</tbody>
</table>

#### TRAVEL DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>110'</th>
<th>130'</th>
<th>136' *</th>
<th>150'</th>
<th>158' *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Length - Kingpin to Rear (m)</td>
<td>60'-0&quot; (18.2)</td>
<td>70'-0&quot; (21.3)</td>
<td>80'-0&quot; (24.4)</td>
<td>80'-0&quot; (24.4)</td>
<td>97'-6&quot; (29.7)</td>
</tr>
<tr>
<td>Travel Height (m)</td>
<td>12'-5&quot; (3.8)</td>
<td>13'-9&quot; (4.2)</td>
<td>13'-0&quot; (3.9)</td>
<td>13'-10&quot; (4.2)</td>
<td>14'-0&quot; (4.3)</td>
</tr>
<tr>
<td>Travel Width (m)</td>
<td>11'-11&quot; (3.5)</td>
<td>11'-11&quot; (3.6)</td>
<td>11'-11&quot; (3.6)</td>
<td>11'-11&quot; (3.6)</td>
<td>11'-6&quot; (3.5)</td>
</tr>
<tr>
<td>Kingpin to End of Tow Eye (m)</td>
<td>5'-10&quot; (1.7)</td>
<td>5'-10&quot; (1.7)</td>
<td>5'-10&quot; (1.7)</td>
<td>5'-11&quot; (1.8)</td>
<td>6'-0&quot; (1.9)</td>
</tr>
<tr>
<td>Kingpin to Axle (m)</td>
<td>37'-11&quot; (11.5)</td>
<td>47'-7&quot; (14.5)</td>
<td>54'-0&quot; (16.4)</td>
<td>53'-10&quot; (16.4)</td>
<td>70'-0&quot; (21.3)</td>
</tr>
<tr>
<td>Axle to Head Pulley (m)</td>
<td>22'-0&quot; (6.7)</td>
<td>22'-4&quot; (6.8)</td>
<td>25'-6&quot; (7.7)</td>
<td>26'-1&quot; (7.9)</td>
<td>27'-6&quot; (8.3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FD Axle Size</th>
<th>FD40</th>
<th>FD40</th>
<th>FD40</th>
<th>FD50</th>
<th>FD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight at Axle - 36&quot; Belt Width (kg)</td>
<td>30,500 (13,830)</td>
<td>34,800 (15,785)</td>
<td>36,000 (16,329)</td>
<td>40,000 (18,144)</td>
<td>53,200 (24,131)</td>
</tr>
<tr>
<td>Weight at Kingpin - 36&quot; Belt Width (kg)</td>
<td>12,500 (5,670)</td>
<td>18,300 (8,300)</td>
<td>13,000 (5,897)</td>
<td>24,600 (11,158)</td>
<td>16,000 (7,257)</td>
</tr>
</tbody>
</table>

* Denotes Low Profile Model
### Operating Dimensions

<table>
<thead>
<tr>
<th></th>
<th>130’</th>
<th>150’</th>
<th>170’</th>
<th>190’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>130’-0” (39.6)</td>
<td>150’-0” (45.7)</td>
<td>170’-0” (51.8)</td>
<td>190’-0” (57.9)</td>
</tr>
<tr>
<td>Highest Extended Discharge Height (m)</td>
<td>47’-0” (13.8)</td>
<td>52’-6” (16.0)</td>
<td>60’-0” (18.5)</td>
<td>67’-8” (20.5)</td>
</tr>
<tr>
<td>Lowest Extended Discharge Height (m)</td>
<td>14’-5” (6.0)</td>
<td>15’-10” (6.0)</td>
<td>14’-11” (4.5)</td>
<td>16’-1” (5.0)</td>
</tr>
<tr>
<td>Highest Retracted Discharge Height (m)</td>
<td>27’-3” (8.0)</td>
<td>30’-10” (3.0)</td>
<td>38’-6” (11.0)</td>
<td>53’-7” (16.5)</td>
</tr>
<tr>
<td>Lowest Retracted Discharge Height (m)</td>
<td>13’-1” (4.0)</td>
<td>12’-6” (4.0)</td>
<td>10’-8” (4.0)</td>
<td>11’-4” (3.5)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>48’-6” (14.5)</td>
<td>56’-4” (17.0)</td>
<td>73’-10” (22.5)</td>
<td>73’-10” (22.5)</td>
</tr>
</tbody>
</table>

### Stockpile Dimensions

<p>| | | | | |</p>
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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pile Height (m)</td>
<td>44’-5” (13.5)</td>
<td>50’-0” (15.2)</td>
<td>58’-3” (17.7)</td>
<td>66’-1” (20.1)</td>
</tr>
<tr>
<td>Lowered Stockpile Height (m)</td>
<td>11’-5” (3.4)</td>
<td>12’-10” (3.9)</td>
<td>11’-11” (3.6)</td>
<td>14’-3” (4.3)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Pile (m)</td>
<td>116’-2” (35.4)</td>
<td>125’-0” (38.1)</td>
<td>153’-9” (46.8)</td>
<td>163’-1” (49.7)</td>
</tr>
</tbody>
</table>

### Travel Dimensions

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Length - Kingpin to Rear (m)</td>
<td>80’-0” (24.3)</td>
<td>80’-0” (24.3)</td>
<td>100’-0” (30.5)</td>
<td>115’-0” (35.0)</td>
</tr>
<tr>
<td>Travel Height (m)</td>
<td>12’-3” (3.7)</td>
<td>13’-9” (4.2)</td>
<td>13’-9” (4.2)</td>
<td>14’-0” (4.2)</td>
</tr>
<tr>
<td>Travel Width (m)</td>
<td>11’-11” (3.6)</td>
<td>11’-11” (3.6)</td>
<td>11’-11” (3.6)</td>
<td>11’-11” (3.6)</td>
</tr>
<tr>
<td>Kingpin to End of Tow Eye (m)</td>
<td>5’-10” (1.7)</td>
<td>5’-11” (1.8)</td>
<td>5’-11” (1.8)</td>
<td>5’-11” (1.8)</td>
</tr>
<tr>
<td>Kingpin to Axle (m)</td>
<td>52’-3” (15.9)</td>
<td>59’-9” (18.2)</td>
<td>77’-3” (23.5)</td>
<td>94’-6” (28.8)</td>
</tr>
<tr>
<td>Axle to Head Pulley (m)</td>
<td>27’-5” (8.3)</td>
<td>20’-4” (6.1)</td>
<td>22’-10” (6.9)</td>
<td>22’-10” (6.9)</td>
</tr>
<tr>
<td>Weight at Axle - 36’ Belt Width (kg)</td>
<td>37,500 (17,000)</td>
<td>38,000 (17,235)</td>
<td>46,000 (20,865)</td>
<td>47,000 (21,318)</td>
</tr>
<tr>
<td>Weight at Kingpin - 36’ Belt Width (kg)</td>
<td>13,600 (6,168)</td>
<td>18,550 (8,414)</td>
<td>20,865 (9,464)</td>
<td>22,500 (10,205)</td>
</tr>
</tbody>
</table>
## STOCKPILE CAPACITIES

**MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)**  
Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Conical Stockpile Volume in Cubic Yards (m³)</th>
<th>Conical Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>90°  180°  270°</td>
<td>90°  180°  270°</td>
</tr>
<tr>
<td><strong>110 TSFD</strong></td>
<td>39'-0&quot; (11.8)</td>
<td>4,900 19,700 34,400</td>
<td>6,600 26,600 46,500</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>130 TSFD</strong></td>
<td>42'-0&quot; (12.8)</td>
<td>6,200 27,300 48,300</td>
<td>8,400 36,800 65,200</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>130 TSXTP</strong></td>
<td>45'-6&quot; (13.8)</td>
<td>6,700 27,700 48,700</td>
<td>9,000 37,400 65,800</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>136 TSFD-LP</strong></td>
<td>41'-6&quot; (12.6)</td>
<td>6,900 30,000 53,300</td>
<td>9,300 40,600 71,900</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>150 TSFD</strong></td>
<td>50'-0&quot; (15.2)</td>
<td>9,300 41,000 72,600</td>
<td>12,600 55,300 98,100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>150 TSXTP</strong></td>
<td>50'-0&quot; (15.2)</td>
<td>9,200 40,100 71,000</td>
<td>12,400 54,100 95,900</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>158 TSFD-LP</strong></td>
<td>47'-0&quot; (14.3)</td>
<td>9,400 49,800 90,100</td>
<td>12,700 67,200 121,700</td>
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<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>170 TSXTP</strong></td>
<td>58'-0&quot; (17.6)</td>
<td>12,900 56,100 99,300</td>
<td>17,500 75,800 134,000</td>
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<tr>
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</tr>
<tr>
<td><strong>190 TSXTP</strong></td>
<td>66'-0&quot; (20.1)</td>
<td>18,700 82,300 145,800</td>
<td>25,300 111,100 196,800</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>72x190 TSPP</td>
<td>61'-0&quot; (18.6)</td>
<td>16,700 75,700 134,800</td>
<td>22,500 102,200 181,600</td>
</tr>
</tbody>
</table>

### PHOTO GALLERY

![Photo Gallery Image 1](image1)

![Photo Gallery Image 2](image2)

![Photo Gallery Image 3](image3)
Pinnacle Conveyor stockpiles at 22° incline (standard is 18°), with a set-back axle, which prevents stockpile from burying axle.

- Patented FD Axle allows quickest, safest transition from road to stockpile mode.
- Fully enclosed power travel gearing offers protection from dust and fugitive material.
- Patented power fold protects hydraulic cylinder rods from damaging debris during operation.
HIGHLIGHTS

1/ RADIAL RECEIVING HOPPER: Gathering trough includes adjustable rubber flashing.
2/ CONVEYOR FRAME: Rigid designs up to 42" deep truss.
3/ V-PLow: Clean return side of belts and protect tail pulley from damaging material.
4/ FOLD SUPPORT: Protects the conveyor and belt integrity during folding and unfolding.
5/ POWERFOLD: Patented design protects hydraulic cylinder rods from damaging debris during operation.
6/ ENCLOSED POWER TRAVEL: Protects gearing from dust and debris common in conveying applications.
7/ FD AXLE: Patented technology allows operators to transition from road travel to stockpile mode in just seconds.
8/ CHEVRON® PULLEY: Patented v-shaped wing pulley prevents fugitive material from trapping between wings; extends belt life.
9/ TOWING EYE: Rugged adjustable eye pintle hitch/hook provides a more secure coupling. (Not shown)
**A/ 22° INCLINE**
- Increased incline creates higher stockpile suitable for smaller footprints.
- Set back axle design avoids burying tires in material.

**B/ PATENTED FD AXLE ASSEMBLY**
- Transfer from road travel to radial travel mode in seconds.
- Enclosed planetary wheel drive protects gearing from dust and debris.
- Independently raise and lower FD tires to level conveyor on uneven ground.
- Off-the-road (OTR) tires conquer low ground pressure applications.

**XTP AXLE ASSEMBLY**
- Go from radial travel to transport mode in less than 3 minutes.
- Eliminates time consuming set-up time by using a direct drive instead of traditional chain drive.

**C/ PATENTED POWER FOLDS**
- Cylinder rod not exposed to elements during operation.
- Lever actuated folding and unfolding of conveyor.
- Very quick transition from transport to stockpile positions.
- **MOXIE® ROLLS**: Non-steel rolls shed sticky material.
- **BELT COVERS**: Limit dust generation; protect material.
- **BELT SCALE**: Evaluate inventory more accurately.
- **EXTERRA® SFL DUAL BELT CLEANER**: Primary and secondary blades on one pole.
- **GALVANIZED**: Resist corrosion; prevent rusting.
- **IMPACT BED**: Protect belt in transfer zones.
- **IMPACT ROLLS**: Protect belt in load zones.
- **3-Ply Conveyor Belt**: Larger size ores; rugged service.
- **ANCHOR PIVOT PLATE**: Maintains tail position during radial travel.
- **ALL WHEEL DRIVE**: Dependability in low pressure soils.
- **XTP AXLE**: Same tires for road and radial travel.
- **AUTO GREASERS**: Program to automatically discharge grease.
- **ONBOARD POWER**: Self-contained diesel engine.
- **RECEIVING HOPPER**: Wider target for material transfer.
- **SEALING SYSTEM**: Prevent spillage between hopper skirting and belt.
- **URATHON® RETURN ROLL**: Shed wet, sticky material.
# Specifications

**General Specs**

<table>
<thead>
<tr>
<th>Tons Per Hour (TPH): Up to 1,200</th>
<th>Belt Widths (inches): Up to 42</th>
<th>Belt Speed (FPM): 350</th>
<th>Incline Angle: 22°</th>
</tr>
</thead>
</table>

## Operating Dimensions

<table>
<thead>
<tr>
<th></th>
<th>80'</th>
<th>100'</th>
<th>125'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>80'-0” (24.4)</td>
<td>100'-0” (30.5)</td>
<td>125'-0” (38.1)</td>
</tr>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>72'-3” (22.0)</td>
<td>91'-0” (27.7)</td>
<td>116'-4” (35.4)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>32'-5” (9.9)</td>
<td>39'-4” (12.0)</td>
<td>50'-8” (15.4)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>18'-1” (5.5)</td>
<td>20'-1” (6.1)</td>
<td>18'-2” (5.4)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>32'-2” (9.8)</td>
<td>39'-8” (12.1)</td>
<td>46'-5” (14.2)</td>
</tr>
</tbody>
</table>

## Stockpile Dimensions

<table>
<thead>
<tr>
<th>Stockpile Height (m)</th>
<th>Raised Stockpile Height (m)</th>
<th>Lowered Stockpile Height (m)</th>
<th>Radius of Pile (m)</th>
<th>Anchor Pivot to Center of Pile (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80'</td>
<td>33'-0” (10.1)</td>
<td>18'-1” (5.5)</td>
<td>42'-2” (12.9)</td>
<td>74'-6” (22.7)</td>
</tr>
<tr>
<td>100'</td>
<td>40'-0” (12.2)</td>
<td>20'-1” (6.1)</td>
<td>51'-7” (15.8)</td>
<td>93'-0” (28.4)</td>
</tr>
<tr>
<td>125'</td>
<td>50'-0” (15.2)</td>
<td>18'-2” (5.5)</td>
<td>66'-5” (20.3)</td>
<td>114'-7” (35.0)</td>
</tr>
</tbody>
</table>

## Travel Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Travel Length - Kingpin to Rear (m)</th>
<th>Travel Height (m)</th>
<th>Travel Width (m)</th>
<th>Kingpin to End of Tow Eye (m)</th>
<th>Kingpin to Axle (m)</th>
<th>Axle to Head Pulley (m)</th>
<th>FD Axle Size</th>
<th>Weight at Axle - 36” Belt Width (kg)</th>
<th>Weight at Kingpin - 36” Belt Width (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80'</td>
<td>53'-7” (16.4)</td>
<td>13'-5” (4.0)</td>
<td>11'-2” (3.4)</td>
<td>5’-1” (1.5)</td>
<td>34'-7” (10.6)</td>
<td>19'-0” (5.8)</td>
<td>FD15</td>
<td>20,000 (9,072)</td>
<td>6,500 (2,948)</td>
</tr>
<tr>
<td>100'</td>
<td>68'-8” (21.0)</td>
<td>13'-2” (4.0)</td>
<td>11'-5” (3.4)</td>
<td>5’-0” (1.5)</td>
<td>39'-7” (12.1)</td>
<td>29'-1” (8.9)</td>
<td>FD20</td>
<td>27,250 (12,360)</td>
<td>6,300 (2,858)</td>
</tr>
<tr>
<td>125'</td>
<td>84'-2” (25.7)</td>
<td>13'-11” (4.2)</td>
<td>11'-6” (3.5)</td>
<td>5’-6” (1.7)</td>
<td>49'-4” (15.1)</td>
<td>34'-10” (10.6)</td>
<td>FD40</td>
<td>39,500 (17,917)</td>
<td>9,500 (4,309)</td>
</tr>
</tbody>
</table>

## Maximum Stockpile Capacities (Manual Piles)

Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Stockpile Volume in Cubic Yards (m³)</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conical</td>
<td>90°</td>
<td>180°</td>
</tr>
<tr>
<td></td>
<td>Conical</td>
<td>90°</td>
<td>180°</td>
</tr>
<tr>
<td>80’</td>
<td>33'-0” (10.1)</td>
<td>2,500 (1,900)</td>
<td>8,600 (6,600)</td>
</tr>
<tr>
<td></td>
<td>90°</td>
<td>3,300 (3,000)</td>
<td>11,700 (10,600)</td>
</tr>
<tr>
<td>100’</td>
<td>40'-0” (12.2)</td>
<td>4,500 (3,500)</td>
<td>16,300 (12,500)</td>
</tr>
<tr>
<td></td>
<td>90°</td>
<td>6,100 (5,500)</td>
<td>21,900 (20,000)</td>
</tr>
<tr>
<td>125’</td>
<td>50'-0” (15.2)</td>
<td>8,500 (6,500)</td>
<td>31,000 (23,700)</td>
</tr>
<tr>
<td></td>
<td>90°</td>
<td>11,400 (10,300)</td>
<td>41,400 (37,600)</td>
</tr>
</tbody>
</table>
## SIDE BY SIDE COMPARISON

<table>
<thead>
<tr>
<th></th>
<th>PowerStacker Conveyor</th>
<th>Pinnacle Conveyor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tons Per Hour (TPH)</strong></td>
<td>Up to 1,500</td>
<td>Up to 1,200</td>
</tr>
<tr>
<td><strong>Belt Widths (inches)</strong></td>
<td>30, 36, 42, 48</td>
<td>30, 36, 42</td>
</tr>
<tr>
<td><strong>Standard Lengths (feet)</strong></td>
<td>95, 110, 125, 150</td>
<td>80, 100, 125</td>
</tr>
<tr>
<td><strong>Belt Speed (FPM)</strong></td>
<td>400</td>
<td>350</td>
</tr>
<tr>
<td><strong>Incline</strong></td>
<td>18°</td>
<td>22°</td>
</tr>
</tbody>
</table>

### CONVEYOR SPLICE OPTIONS
- Bolt Splice
- Manual Fold
- Power Fold

### UNDERCARRIAGE OPTIONS
- Manual Raise Undercarriage
- Hydraulic Raise Undercarriage

### AXLE OPTIONS
- FD Axle
- XTP Axle
- Power Radial Travel

### LANDING LEGS OPTIONS
- Slide Tube
- Crank Down

### ADDITIONAL OPTIONS
- 5 ft. Radial Receiving Hopper
- Rock Box
- 5th Wheel Hitch
- Brakes/Lights/Mudflaps
- Tow Eye
- Anchor Pivot Plate/Base

### CUBIC YARDS - PINNACLE VS. POWERSTACKER STOCKPILE COMPARISON

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Volume in Cubic Yards (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conical</td>
</tr>
<tr>
<td>80' PS</td>
<td>2,500 (1,900)</td>
</tr>
<tr>
<td>100' PC</td>
<td>4,500 (3,500)</td>
</tr>
<tr>
<td>125' PC</td>
<td>8,500 (6,500)</td>
</tr>
<tr>
<td>95' PS</td>
<td>2,300 (1,800)</td>
</tr>
<tr>
<td>110' PS</td>
<td>3,500 (2,700)</td>
</tr>
<tr>
<td>125' PS</td>
<td>4,900 (3,700)</td>
</tr>
<tr>
<td>150' PS</td>
<td>8,200 (6,300)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conical</td>
</tr>
<tr>
<td>80' PC</td>
<td>3,300 (3,000)</td>
</tr>
<tr>
<td>100' PC</td>
<td>6,100 (5,500)</td>
</tr>
<tr>
<td>125' PC</td>
<td>11,400 (10,300)</td>
</tr>
<tr>
<td>95' PS</td>
<td>3,100 (2,800)</td>
</tr>
<tr>
<td>110' PS</td>
<td>4,700 (4,300)</td>
</tr>
<tr>
<td>125' PS</td>
<td>6,700 (6,100)</td>
</tr>
<tr>
<td>150' PS</td>
<td>11,100 (10,100)</td>
</tr>
</tbody>
</table>

Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 ± m³) material density.
POWERSTACKER® CONVEYOR

95' / 110' / 125' / 150'

Patented FD Axle allows **quickest, safest transition** from road to stockpile mode.

- Start stockpiling sooner since only **one person needed** for fast and easy setup.
- Fully enclosed power travel gearing offers **protection from dust** and fugitive material.
- Patented power fold **protects hydraulic cylinder rods** from damaging debris during operation.
**HIGHLIGHTS**

1/ **RADIAL RECEIVING HOPPER:** Gathering trough includes adjustable rubber flashing.

2/ **CONVEYOR FRAME:** Rigid designs up to 42” deep truss.

3/ **POWERFOLD:** Patented design protects hydraulic cylinder rods from damaging debris during operation.

4/ **FOLD SUPPORT:** Protects the conveyor and belt integrity during folding and unfolding.

5/ **HYDRAULIC RAISE:** Hydraulically raise, lower, fold and unfold.

6/ **ENCLOSED POWER TRAVEL:** Protects gearing from dust and debris common in conveying applications.

7/ **FD AXLE:** Patented technology allows operators to transition from road travel to stockpile mode in just seconds.

8/ **V-PLOW:** Clean return side of belts and protect tail pulley from damaging material.

9/ **CHEVRON® PULLEY:** Patented v-shaped wing pulley prevents fugitive material from trapping between wings; extends belt life.

10/ **TOWING EYE:** Rugged adjustable eye pintle hitch/hook provides a more secure coupling.

For applications on limited footprints, consider Superior’s Pinnacle® Conveyor to stockpile at a higher 22° angle.

(See page 13)
A/ HYDRAULIC CONTROL CENTER
- Folds and unfolds conveyor.
- Raises and lowers conveyor.
- Operates FD Axle.
- Controls radial travel.

B/ PATENTED FD AXLE ASSEMBLY
- Transfer from road travel to radial travel mode in seconds.
- Enclosed planetary wheel drive protects gearing from dust and debris.
- Independently raise and lower FD tires to level conveyor on uneven ground.
- Off-the-road (OTR) tires conquer low ground pressure applications.

C/ PATENTED POWER FOLDS
- Cylinder rod not exposed to elements during operation.
- Lever actuated folding and unfolding of conveyor.
- Very quick transition from transport to stockpile positions.
- **ALL WHEEL DRIVE**: Dependability in low pressure soils.
- **ANCHOR PIVOT PLATE**: Maintains tail position during radial travel.
- **EXTERRA® SFL DUAL BELT CLEANER**: Primary and secondary blades on one pole.
- **3-PLY CONVEYOR BELTING**: Larger size ores; rugged service.
- **URATHON® RETURN ROLL**: Shed wet, sticky material.
- **BELT SCALE**: Evaluate inventory more accurately.
- **GALVANIZED**: Resist corrosion; prevent rusting.
- **MOXIE® ROLLS**: Non-steel rolls shed sticky material.
- **IMPACT BED**: Protect belt in transfer zones.
- **IMPACT ROLLS**: Protect belt in load zones.
- **SEALING SYSTEM**: Prevent spillage between hopper skirting and belt.
- **SONICSCOUT™ MATERIAL SENSOR**: Detect material on belting.
- **ONBOARD POWER**: Self-contained diesel engine.
- **RECEIVING HOPPER**: Wider target for material transfer.
# OPERATING DIMENSIONS

<table>
<thead>
<tr>
<th>Conveyor Length (m)</th>
<th>95'</th>
<th>110'</th>
<th>125'</th>
<th>150'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>95' -0&quot; (29.0)</td>
<td>110' -0&quot; (33.5)</td>
<td>125' -0&quot; (38.1)</td>
<td>150' -0&quot; (45.7)</td>
</tr>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>88' -4&quot; (26.9)</td>
<td>102' -0&quot; (31.1)</td>
<td>118' -11&quot; (36.2)</td>
<td>140' -4&quot; (42.8)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>32' -3&quot; (9.8)</td>
<td>36' -4&quot; (11.1)</td>
<td>41' -4&quot; (12.6)</td>
<td>48' -0&quot; (14.6)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>13' -8&quot; (4.2)</td>
<td>17' -2&quot; (5.2)</td>
<td>17' -7&quot; (5.4)</td>
<td>15' -2&quot; (4.6)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>47' -7&quot; (14.5)</td>
<td>56' -3&quot; (17.2)</td>
<td>60' -2&quot; (18.3)</td>
<td>79' -6&quot; (24.1)</td>
</tr>
</tbody>
</table>

# STOCKPILE DIMENSIONS

| Raised Stockpile Height (m)           | 32' -0" (9.8) | 37' -0" (11.3) | 42' -0" (12.8) | 50' -0" (15.2) |
| Lowered Stockpile Height (m)          | 12' -4" (3.8) | 16' -2" (4.9) | 17' -3" (5.3) | 13' -8" (4.2) |
| Radius of Pile (m)                    | 41' -1" (12.5) | 47' -2" (14.4) | 54' -6" (16.6) | 61' -8" (18.8) |
| Anchor Pivot to Center of Pile (m)    | 91' -0" (27.7) | 104' -6" (31.9) | 118' -6" (36.2) | 144' -0" (43.9) |

# TRAVEL DIMENSIONS

| Travel Length - Kingpin to Rear (m)   | 78' -8" (24.0) | 60' -10" (18.6) | 70' -9" (21.6) | 80' -7" (24.6) |
| Travel Height (m)                     | 13' -6" (4.2) | 14' -1" (4.3) | 14' -0" (4.3) | 13' -11" (4.2) |
| Travel Width (m)                      | 11' -11" (3.6) | 12' -8" (3.9) | 11' -11" (3.6) | 11' -11" (3.6) |
| Kingpin to End of Tow Eye (m)         | 5' -1" (1.6) | 5' -11" (1.8) | 6' -0" (1.8) | 5' -11" (1.8) |
| Kingpin to Axle (m)                   | 50' -11" (15.5) | 29' -2" (8.9) | 33' -6" (10.2) | 49' -6" (15.1) |
| Axle to Head Pulley (m)               | 22' -8" (6.9) | 25' -8" (7.9) | 31' -3" (9.5) | 25' -3" (7.7) |
| FD Axle Size                          | FD15      | FD20      | FD40      | FD50      |
| Weight at Axle - 36" Belt Width (kg)  | 17,750 (8,051) | 19,940 (9,044) | 33,000 (14,969) | 34,200 (15,513) |
| Weight at Kingpin - 36" Belt Width (kg) | 4,000 (1,814) | 3,060 (1,388) | 3,500 (1,588) | 10,200 (4,627) |

# MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)

Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Conical</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>95'</td>
<td>32' -0&quot; (9.8)</td>
<td>2,300 (1,800)</td>
<td>9,600 (7,300)</td>
<td>16,900 (12,900)</td>
<td>24,200 (18,500)</td>
<td>Conical</td>
</tr>
<tr>
<td>110'</td>
<td>37' -0&quot; (11.3)</td>
<td>3,500 (2,700)</td>
<td>14,500 (11,100)</td>
<td>25,600 (19,600)</td>
<td>36,600 (28,000)</td>
<td>4,700 (4,300)</td>
</tr>
<tr>
<td>125'</td>
<td>42' -0&quot; (12.8)</td>
<td>4,900 (3,700)</td>
<td>20,800 (16,000)</td>
<td>36,700 (28,100)</td>
<td>52,600 (40,200)</td>
<td>6,700 (6,100)</td>
</tr>
<tr>
<td>150'</td>
<td>49' -0&quot; (14.9)</td>
<td>8,200 (6,300)</td>
<td>35,000 (26,800)</td>
<td>61,900 (47,300)</td>
<td>88,700 (67,800)</td>
<td>11,100 (10,100)</td>
</tr>
</tbody>
</table>
## PowerStacker Conveyor vs. Pinnacle Conveyor

<table>
<thead>
<tr>
<th>Feature</th>
<th>PowerStacker Conveyor</th>
<th>Pinnacle Conveyor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tons Per Hour (TPH)</td>
<td>Up to 1,500</td>
<td>Up to 1,200</td>
</tr>
<tr>
<td>Belt Widths (inches)</td>
<td>30, 36, 42, 48</td>
<td>30, 36, 42</td>
</tr>
<tr>
<td>Standard Lengths (feet)</td>
<td>95, 110, 125, 150</td>
<td>80, 100, 125</td>
</tr>
<tr>
<td>Belt Speed (FPM)</td>
<td>400</td>
<td>350</td>
</tr>
<tr>
<td>Incline</td>
<td>18°</td>
<td>22°</td>
</tr>
</tbody>
</table>

### Conveyor Splice Options

<table>
<thead>
<tr>
<th>Splice Type</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt Splice</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Manual Fold</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Power Fold</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Undercarriage Options

<table>
<thead>
<tr>
<th>Undercarriage Type</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual Raise</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Hydraulic Raise</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Axle Options

<table>
<thead>
<tr>
<th>Axle Type</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD Axle</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>XTP Axle</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Power Radial Travel</td>
<td>●</td>
<td>–</td>
</tr>
</tbody>
</table>

### LANDING LEGS OPTIONS

<table>
<thead>
<tr>
<th>Leg Type</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide Tube</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Crank Down</td>
<td>●</td>
<td>–</td>
</tr>
</tbody>
</table>

### Additional Options

<table>
<thead>
<tr>
<th>Option</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ft. Radial Receiving Hopper</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Rock Box</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>5th Wheel Hitch</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Brakes/Lights/Mudflaps</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Tow Eye</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>Anchor Pivot Plate/Base</td>
<td>●</td>
<td>–</td>
</tr>
</tbody>
</table>

## Cubic Yards - Pinnacle vs. PowerStacker Stockpile Comparison

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>PowerStacker</th>
<th>Pinnacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>80’ PC</td>
<td>2,500 (1,900)</td>
<td>8,600 (6,600)</td>
</tr>
<tr>
<td></td>
<td>14,900 (11,400)</td>
<td>21,100 (16,100)</td>
</tr>
<tr>
<td>100’ PC</td>
<td>4,500 (3,500)</td>
<td>16,300 (12,500)</td>
</tr>
<tr>
<td></td>
<td>28,000 (21,400)</td>
<td>39,700 (30,400)</td>
</tr>
<tr>
<td>125’ PC</td>
<td>8,500 (6,500)</td>
<td>31,000 (23,700)</td>
</tr>
<tr>
<td></td>
<td>52,900 (40,500)</td>
<td>75,000 (57,400)</td>
</tr>
<tr>
<td>95’ PS</td>
<td>2,300 (1,800)</td>
<td>9,600 (7,300)</td>
</tr>
<tr>
<td></td>
<td>16,900 (12,900)</td>
<td>24,200 (18,500)</td>
</tr>
<tr>
<td>110’ PS</td>
<td>3,500 (2,700)</td>
<td>14,500 (11,100)</td>
</tr>
<tr>
<td></td>
<td>25,600 (19,600)</td>
<td>36,600 (28,000)</td>
</tr>
<tr>
<td>125’ PS</td>
<td>4,900 (3,700)</td>
<td>20,800 (16,000)</td>
</tr>
<tr>
<td></td>
<td>36,700 (28,100)</td>
<td>52,600 (40,200)</td>
</tr>
<tr>
<td>150’ PS</td>
<td>8,200 (6,300)</td>
<td>35,000 (26,800)</td>
</tr>
<tr>
<td></td>
<td>61,900 (47,300)</td>
<td>88,700 (67,800)</td>
</tr>
</tbody>
</table>

Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 ± m³) material density.
PORTABLE RADIAL STACKING CONVEYOR

Engineered to be the quickest from road transportation to field operation.
Superior offers the industry standard with more sizes available than anyone else.
Equipped with a heavy duty undercarriage for stability, safety and support.
In-house engineers calculate and design truss to your specific application needs.
### FEATURES AND OPTIONS

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANUAL FOLD TOP</td>
<td><img src="image1" alt="Manual Fold Top" /></td>
</tr>
<tr>
<td>AIR BRAKES / ROAD PACKAGE</td>
<td><img src="image2" alt="Air Brakes/Road Package" /></td>
</tr>
<tr>
<td>TOWING EYE</td>
<td><img src="image3" alt="Towing Eye" /></td>
</tr>
<tr>
<td>FD AXLE</td>
<td><img src="image4" alt="FD Axle" /></td>
</tr>
<tr>
<td>AUTO GREASER</td>
<td><img src="image5" alt="Auto Greaser" /></td>
</tr>
<tr>
<td>HYDRAULIC RAISE</td>
<td><img src="image6" alt="Hydraulic Raise" /></td>
</tr>
<tr>
<td>ANCHOR PIVOT PLATE</td>
<td><img src="image7" alt="Anchor Pivot Plate" /></td>
</tr>
<tr>
<td>SWIVEL WHEELS FOR ROAD/RADIAL</td>
<td><img src="image8" alt="Swivel Wheels" /></td>
</tr>
<tr>
<td>LIGHT PACKAGE</td>
<td><img src="image9" alt="Light Package" /></td>
</tr>
<tr>
<td>TANK HEATER</td>
<td><img src="image10" alt="Tank Heater" /></td>
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</tbody>
</table>

- HEAVY DUTY UNDERCARRIAGE
- MOXIE® ROLLS
- FD AXLE
- URATHON® RETURN ROLLS
- FIFTH WHEEL HITCH
- BELTING UPGRADE
- CHEVRON® PULLEY
- MANUAL TOP FOLD
- RADIAL TRAVEL
- POWER TOP FOLD
- TOWING EYE
- EXTERRA® PRIMARY BELT CLEANER
- BELT SCALE
- POWER TRAVEL
- NAVIGATOR® RETURN TRAINER
- EXTERRA® SFL DUAL BELT CLEANER
- AIR BRAKE PACKAGE
- HYDRAULIC AXLE JACKS
- MANUAL FOLD
- ANCHOR PIVOT PLATE
- AUTO GREASER
- HYDRAULIC RAISE
- IMPACT BED
- LANDING GEAR
- HYDRAULIC RAISE
**OPERATING DIMENSIONS**

<table>
<thead>
<tr>
<th>Conveyor Length (m)</th>
<th>50' - 0&quot; (15.2)</th>
<th>60' - 0&quot; (18.2)</th>
<th>80' - 0&quot; (24.4)</th>
<th>95' - 0&quot; (29.0)</th>
<th>100' - 0&quot; (30.4)</th>
<th>110' - 0&quot; (33.5)</th>
<th>125' - 0&quot; (38.1)</th>
<th>150' - 0&quot; (45.7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>45' - 9&quot; (14.0)</td>
<td>55' - 2&quot; (16.8)</td>
<td>74' - 4&quot; (22.7)</td>
<td>89' - 0&quot; (27.1)</td>
<td>93' - 0&quot; (28.5)</td>
<td>102' - 0&quot; (31.1)</td>
<td>116' - 2&quot; (35.4)</td>
<td>139' - 9&quot; (42.6)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>17' - 11&quot; (5.5)</td>
<td>21' - 0&quot; (6.4)</td>
<td>28' - 1&quot; (8.3)</td>
<td>33' - 0&quot; (10.1)</td>
<td>35' - 4&quot; (10.8)</td>
<td>36' - 0&quot; (11.0)</td>
<td>40' - 11&quot; (12.2)</td>
<td>49' - 6&quot; (15.1)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>12' - 5&quot; (3.8)</td>
<td>12' - 5&quot; (3.8)</td>
<td>14' - 6&quot; (4.3)</td>
<td>14' - 0&quot; (4.2)</td>
<td>13' - 6&quot; (4.1)</td>
<td>17' - 0&quot; (5.2)</td>
<td>19' - 5&quot; (5.9)</td>
<td>17' - 11&quot; (5.5)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>25' - 5&quot; (7.8)</td>
<td>31' - 2&quot; (9.5)</td>
<td>39' - 9&quot; (12.1)</td>
<td>48' - 4&quot; (14.6)</td>
<td>51' - 5&quot; (15.6)</td>
<td>56' - 7&quot; (16.9)</td>
<td>60' - 2&quot; (18.4)</td>
<td>77' - 3&quot; (23.6)</td>
</tr>
</tbody>
</table>

**STOCKPILE DIMENSIONS**

| Raised Stockpile Height (m) | 18' - 6" (5.7) | 21' - 6" (6.5) | 28' - 0" (8.5) | 32' - 0" (9.7) | 34' - 0" (10.4) | 37' - 0" (11.3) | 42' - 0" (12.8) | 49' - 0" (14.9) |
| Lowered Stockpile Height (m) | 11' - 2" (3.4) | 11' - 0" (3.4) | 13' - 3" (4.1) | 13' - 0" (4.0) | 16' - 2" (4.9) | 17' - 3" (5.3) | 17' - 3" (5.3) | 13' - 8" (4.2) |
| Radius of Pile (m) | 21' - 0" (6.4) | 27' - 0" (8.2) | 36' - 6" (11.2) | 41' - 4" (12.6) | 42' - 9" (13.0) | 47' - 0" (14.3) | 55' - 4" (16.9) | 61' - 10" (18.9) |
| Anchor Pivot to Center of Pile (m) | 47' - 10" (14.6) | 57' - 6" (17.6) | 76' - 5" (23.3) | 90' - 6" (27.6) | 95' - 3" (29.1) | 104' - 6" (31.9) | 119' - 0" (36.2) | 143' - 4" (43.7) |

**TRAVEL DIMENSIONS**

| Travel Length - Kingpin to Rear (m) | 49' - 5" (15.1) | 59' - 5" (18.1) | 63' - 7" (19.4) | 73' - 8" (22.3) | 78' - 8" (24.0) | 60' - 10" (18.6) | 70' - 9" (21.6) | 80' - 7" (24.6) |
| Travel Height (m) | 11' - 8" (3.6) | 11' - 10" (3.6) | 14' - 2" (4.3) | 13' - 7" (4.2) | 13' - 6" (4.2) | 14' - 1" (4.3) | 14' - 0" (4.3) | 13' - 11" (4.2) |
| Travel Width (m) | 11' - 6" (3.5) | 11' - 0" (3.3) | 11' - 9" (3.5) | 11' - 9" (3.5) | 11' - 9" (3.5) | 12' - 8" (3.9) | 11' - 11" (3.6) | 11' - 11" (3.6) |
| Kingpin to End of Tow Eye (m) | 5' - 3" (1.6) | 5' - 3" (1.6) | 5' - 2" (1.6) | 5' - 2" (1.6) | 5' - 3" (1.6) | 5' - 11" (1.8) | 6' - 0" (1.8) | 5' - 11" (1.8) |
| Kingpin to Axle (m) | 24' - 8" (7.6) | 30' - 10" (9.4) | 40' - 9" (12.5) | 48' - 5" (14.8) | 53' - 8" (16.4) | 29' - 2" (8.9) | 33' - 6" (10.2) | 49' - 6" (15.1) |
| Axle to Head Pulley (m) | 24' - 9" (7.6) | 28' - 7" (8.7) | 22' - 10" (7.0) | 25' - 3" (7.3) | 24' - 11" (7.6) | 25' - 8" (7.9) | 31' - 3" (9.5) | 25' - 3" (7.7) |
| FD Axle Size (If Equipped) | FD15 | FD15 | FD15 | FD15 | FD20 | FD40 | FD40 | FD50 |
| Weight at Axle - 36" Belt Width (kg) | 7,000 (3,175) | 7,500 (3,402) | 11,300 (6,124) | 14,000 (6,350) | 18,000 (8,165) | 33,000 (14,969) | 33,000 (14,969) | 34,200 (15,513) |
| Weight at Kingpin - 36" Belt Width (kg) | 625 (283) | 925 (420) | 3,000 (1,361) | 2,500 (1,134) | 2,000 (1,769) | 3,500 (1,588) | 3,500 (1,588) | 10,200 (4,627) |
### STOCKPILE CAPACITIES

**MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)** Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Stockpile Volume in Cubic Yards (m³)</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conical 90° 180° 270°</td>
<td>Conical 90° 180° 270°</td>
<td></td>
</tr>
<tr>
<td>50' 18' -6&quot; (5.7)</td>
<td></td>
<td>Conical 1010 (9.5)</td>
<td></td>
</tr>
<tr>
<td>60' 21' -6&quot; (6.6)</td>
<td></td>
<td>Conical 2490 (14.5)</td>
<td></td>
</tr>
<tr>
<td>80' 28' -0&quot; (8.5)</td>
<td></td>
<td>Conical 4800 (27.5)</td>
<td></td>
</tr>
<tr>
<td>95' 32' -0&quot; (9.8)</td>
<td></td>
<td>Conical 4800 (27.5)</td>
<td></td>
</tr>
<tr>
<td>100' 34' -0&quot; (10.4)</td>
<td></td>
<td>Conical 6200 (34.5)</td>
<td></td>
</tr>
<tr>
<td>110' 37' -0&quot; (11.3)</td>
<td></td>
<td>Conical 6200 (34.5)</td>
<td></td>
</tr>
<tr>
<td>125' 42' -0&quot; (12.8)</td>
<td></td>
<td>Conical 8600 (47.5)</td>
<td></td>
</tr>
<tr>
<td>150' 49' -0&quot; (14.9)</td>
<td></td>
<td>Conical 8600 (47.5)</td>
<td></td>
</tr>
</tbody>
</table>

**PHOTO GALLERY**
RADIAL STACKING CONVEYOR

125’ / 150’ / 180’ / 200’

Added bracing and support of patented FB® Undercarriage ensures unrivaled safety and support.

- Designed to convey material at high capacities up to and exceeding 8,000 TPH.
- Pit portable option allows radial tires to swivel for transportation around quarry or mine.
- In-house engineers calculate and design truss to specific application needs.
1/ **CHEVRON® PULLEY**: Patented v-shaped pulley deflects fugitive material to extend pulley life and lessen belt wear. In addition, constant belt contact reduces vibration and noise generation by 50 decibels.

2/ **SEALING SYSTEM**: Prevents material spillage in load zone by maintaining a tight seal between belt and hopper skirting.

3/ **METAL GUARDING**: Safeguards are essential to protect workers from injury. Superior’s guarding is identified easily with safety yellow paint.

4/ **EXTERRA® BELT CLEANERS**: Patented Superior brand scraper blades designed with thicker edge for extra material at crucial point of attack.

5/ **NAVIGATOR® RETURN TRAINER**: Patented return roller constantly guides and centers belt to prevent misalignment, common to conveyors that constantly move.

6/ **FB® UNDERCARRIAGE**: Patented for maximum undercarriage support and the most rigid lateral stability. Load sharing hydraulic cylinders add even greater structural support and safety.

7/ **RAISE CYLINDERS**: Used to raise and lower stacker and are specially designed for safety. Counterbalance valve keeps the raise cylinders from lowering if there is a hydraulic failure.

8/ **WEIGHTED TAKE-UP**: Snub drive pulley with weight take-up helps eliminate belt slippage on high capacity applications.

9/ **SONICSCOUT™ MATERIAL SENSOR**: If no material is present, sensor sends signal to automation program sounding an alarm and disabling conveyor until action is taken. (Not Shown)
PATENTED FB® UNDERCARRIAGE

- Fully braced inner structure glides within a fully braced outer structure to ensure stability, safety and support.
- Cylinders are covered to protect from material spillage.

PIT PORTABLE AXLE ASSEMBLY

- For in-pit mobility, FD Axle can be raised or swing axle can be rotated parallel to conveyor so stacker can be towed.

FIXED AXLE ASSEMBLY

- Specifically designed so pivot point is anchored and tires follow the radial travel arc, effectively eliminating tire scuffing.

OPTIONS

- EXTERRA® PRIMARY BELT CLEANER
- NAVIGATOR® RETURN TRAINER
- URATHON® RETURN ROLLS
- CROSSEOVER PLATFORMS
- ZERO SPEED SENSOR
- POWER TRAVEL
- RADIAL HOPPER
- TANK HEATER
- BELT SCALE
- WEIGHTED TAKE-UP
- WALKWAY
- LIGHTING PACKAGE
- DISCHARGE HOOD
- HYDRAULIC RAISE
- GALVANIZED
- V-PLow
- E-STOP
SPECIFICATIONS

GENERAL SPECS

Tons Per Hour (TPH): **Up to 8,000**  
Belt Widths (inches): **Up to 96**  
Incline Angle: **18°**

MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)  
Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Stockpile Volume in Cubic Yards (m³)</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conical</td>
<td>90°</td>
<td>180°</td>
</tr>
<tr>
<td><strong>125’</strong></td>
<td>42'-0” (12.8)</td>
<td>4,900 (3,700)</td>
<td>20,800 (15,900)</td>
</tr>
<tr>
<td><strong>150’</strong></td>
<td>49'-0” (14.9)</td>
<td>8,200 (6,300)</td>
<td>35,000 (26,800)</td>
</tr>
<tr>
<td><strong>180’</strong></td>
<td>59'-0” (18.0)</td>
<td>13,000 (10,600)</td>
<td>59,200 (45,300)</td>
</tr>
<tr>
<td><strong>200’</strong></td>
<td>65'-0” (19.8)</td>
<td>18,600 (14,200)</td>
<td>80,300 (61,400)</td>
</tr>
</tbody>
</table>

PHOTO GALLERY
Optional proportional track drive technology allows for steady and smooth acceleration and deceleration.

Directly links with portable crushing and screening equipment in applications that require stockpiling.

Independent hydraulic cylinders allow the unit to be used as a mobile transfer or stockpile conveyor.

Set back tracks allow conveyor to stockpile at 23° incline (standard is 18°) for higher stockpiles on smaller footprints.
A/ PATENTED POWER FOLD: Protects hydraulic cylinders during operation.

B/ REMOTE CONTROLS: Hand-held control operates the belt and tracks.

C/ TRACK DRIVE: Allows for steady travel.

D/ CONTAINERIZED: Transport dimensions allow for a fit inside a 40-foot shipping container.

ON-BOARD POWER: 77HP diesel engine supplies hydraulic power.

TRUSS FRAME: Designed to be heavy enough to handle the job but lightweight for shipping.

CHANNEL FRAME: Heavy duty conveyor frame built for optimal in-field performance and portability.

**OPERATION MODE**

(Shown with Truss Frame)

**CONTAINER/TRANSPORT MODE**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>CONVEYOR DIMENSIONS</th>
<th>77'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length ft (m)</td>
<td>77'-0&quot; (23.4)</td>
</tr>
<tr>
<td>Conveyor Ground Length ft (m)</td>
<td>65'-0&quot; (19.8)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley ft (m)</td>
<td>32'-8&quot; (10.0)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley ft (m)</td>
<td>6'-5&quot; (2.0)</td>
</tr>
<tr>
<td>Transport Length ft (m)</td>
<td>38'-9&quot; (11.9)</td>
</tr>
<tr>
<td>Transport Height ft (m)</td>
<td>8'-0&quot; (2.4)</td>
</tr>
<tr>
<td>Transport Width ft (m)</td>
<td>7'-6&quot; (2.3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Goodek* Conveyor Dims</th>
<th>Maximum Stockpile Height (m)</th>
<th>Maximum Conical Stockpile Capacity Cubic Yard (m³)</th>
<th>Tons Based on 100 PCF tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>77'-0&quot;</td>
<td>34'-0&quot; (10.4)</td>
<td>2700 (2,064)</td>
<td>3700 (3,356)</td>
</tr>
</tbody>
</table>

Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 ± m³) material density.
TRIPPER CONVEYOR

Build and maintain large volume stockpiles on limited, linear footprints. Discharge material on either side of conveyor and create custom heights, lengths and locations of stockpiles. Heavier, more robust truss design requires fabrication of fewer pillars, reducing up-front costs. Versus high capacity stockpiling with trucks, conveyors are the safest and most cost-efficient way to pile material.
HOW IT WORKS

1. A tripper car travels along a truss-mounted track guided by flanged wheels.

2. Designed with a one or two-sided chute, the cars discharge material at one or both sides of the truss.

3. Driven by an electric drive, the cars are powered by a switch gear, which powers the drive.

4. Concrete pillars are erected to lift the structure, engineered to withstand the pressure of the stockpiles.
500-foot pre-assembled portable groundline conveyor (including belting) transports from site to site in one 84-foot towable load.

Compared to several transfer conveyors, a single transfer point reduces maintenance cleanup and power cable management.

One conveyor drive and a single belt reduces energy costs produced by several transfer conveyors.

Experienced crews can unfold/fold the 500-foot package in as little as an hour.
## SPECIFICATIONS AND PHOTO GALLERY

<table>
<thead>
<tr>
<th>OPERATING DIMENSIONS</th>
<th>36&quot; BW</th>
<th>42&quot; BW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Height to Hopper (m)</td>
<td>4’-2” (1.3)</td>
<td>4’-2” (1.3)</td>
</tr>
<tr>
<td>Discharge Height to Center of Head Pulley (m)</td>
<td>12’-6” (3.8)</td>
<td>12’-6” (3.8)</td>
</tr>
<tr>
<td>Conveyor Length (m)</td>
<td>500’-0” (152.4)</td>
<td>500’-0” (152.4)</td>
</tr>
<tr>
<td>Tons per Hour (tonnes per hour)</td>
<td>1,000 (907)</td>
<td>1,500 (1,360)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>TRAVEL DIMENSIONS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Length (m)</td>
<td>83’-3” (25.4)</td>
<td>86’-7” (26.4)</td>
</tr>
<tr>
<td>Travel Height (m)</td>
<td>14’-0” (4.3)</td>
<td>14’-0” (4.3)</td>
</tr>
<tr>
<td>Travel Width (m)</td>
<td>11’-4” (3.5)</td>
<td>11’-10” (3.6)</td>
</tr>
<tr>
<td>Weight at Axle (kg)</td>
<td>41,500 (18,824)</td>
<td>47,500 (21,545)</td>
</tr>
<tr>
<td>Weight at Kingpin (kg)</td>
<td>28,000 (12,700)</td>
<td>40,000 (18,143)</td>
</tr>
</tbody>
</table>

See video at [bit.ly/trailblazer](bit.ly/trailblazer)
Pre-engineered, modular overland system designed for quick, toolless installations.

Compared to spec-by-spec highly engineered system, this unit is a lower cost overland alternative.

Designed with off-the-shelf components for easy sourcing of replacement idlers, pulleys and accessories.

Modular design allows for easy structural additions in the future.
Standard Features

- Galvanized Stands and Intermediates
- Pre-Engineered Head Assembly
- Pre-Assembled Tail Section
- Toolless Intermediate Installation
- Standard, Off-the-Shelf Idlers
- Toolless Idler Installation
- Integrated Return Idler Brackets
- Sections Span 10-Feet
- Chevron® Pulley in Tail Section
DISCHARGE HOOD
SLOPED OR ROCKBOX RECEIVING HOPPER
GRAVITY OR SCREW TAKE-UP

NAVIGATOR® RETURN TRAINER
SELF-ALIGNING TROUHGING IDLERS
MOXIE® ROLLS

EXTERRA® SFL DUAL BELT CLEANER
IDLER GUARDS
E-STOP CORD

SLOPED OR ROCKBOX RECEIVING HOPPER
GRAVITY OR SCREW TAKE-UP

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# Specifications

## General Specs

<table>
<thead>
<tr>
<th>Tons Per Hour (TPH): Up to 1,500</th>
<th>Belt Widths (inches): Up to 42</th>
<th>Belt Speed (FPM): 400-450</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Belt Widths</strong></td>
<td><strong>30”</strong></td>
<td><strong>36”</strong></td>
</tr>
<tr>
<td>Max. Tons per Hour (tonnes/hour)</td>
<td>500 (453.6)</td>
<td>500 (453.6)</td>
</tr>
<tr>
<td>Max. Length at 6° Incline (m)</td>
<td>250’-0” (76.2)</td>
<td>500’-0” (152.4)</td>
</tr>
<tr>
<td>Max. Lift at 6° Incline (m)</td>
<td>30’-0” (9.9)</td>
<td>52’-6” (16.0)</td>
</tr>
<tr>
<td>Max Length at Flat (m)</td>
<td>500’-0” (152.4)</td>
<td>1,000’-0” (304.8)</td>
</tr>
<tr>
<td>Max Lift at Flat (m)</td>
<td>10’-0” (3.9)</td>
<td>10’-0” (3.9)</td>
</tr>
<tr>
<td>Horsepower (kwh)</td>
<td>30HP (22.4)</td>
<td>50HP (37.3)</td>
</tr>
<tr>
<td>Belt Speed (m)</td>
<td>400’-0” (121.9)</td>
<td>400’-0” (121.9)</td>
</tr>
</tbody>
</table>

## Additional Dimensions

| Head Section Length (m)          | 39’-8” (12.9)                  |
| Discharge Height to Center of Pulley (m) | 8’-6” (2.6)                  |
| Rock Box Hopper Feed Height (m)  | 4’-11” (1.5)                  |
| Sloped Hopper Feed Height (m)    | 5’-7” (1.7)                   |
| Intermedial Channel Section Length (m) | 9’-11” (3.0)               |
| Stand Height to Center of Return Roll (m) | 1’-1” (0.6)                |

## Standards

- **4” (10.2cm) Structural Channel**
- **Medium Duty Pillow Block Bearings**
- **CEMA C5 Idlers**
- **4’-0” (1.2) to 5’-0” (1.5) Idler Spacing**
- **Galvanized Intermediate Sections**

---

See video at: [bit.ly/zipline](bit.ly/zipline)
In-house engineering staff custom designs each system and its components to match diverse application variables.

Robust design and manufacturing standards including hefty 8” channel, truss frame options and performance-matched drive packages.

Tried-and-true Superior brand conveyor components hand picked by our engineers to best fit the application.

Eliminate unpredictable costs associated with haul trucks, while providing an environmentally-friendly means to transfer material.
OPTIONS

- TRUSS FRAME CONVEYOR
- CHANNEL FRAME CONVEYOR
- GRAVITY TAKE-UP TOWER
- PERFORMANCE MATCHED DRIVES
- WALKWAYS
- AREA LIGHTING

- EXTERRA® PRIMARY BELT CLEANER
- EXTERRA® SFL DUAL BELT CLEANER
- NAVIGATOR® RETURN TRAINER
- CHANNEL FRAME STRUCTURE
- TRUSS FRAME STRUCTURE
- CHANNEL FRAME SUPPORTS
- COMBINATION TRUSS/CHANNEL FRAME DESIGN
- RADIAL RECEIVING HOPPER
- URATHON® RETURN ROLLS
- GATHERING TROUGH WITH ADJUSTABLE FLASHING
- PLUGGED CHUTE SENSOR
- SELF-ALIGNING IDLERS
- RETURN ROLL GUARDS
- ZERO SPEED SENSOR
- GALVANIZED FINISH
- DISCHARGE HOODS
- IMPACT ROLLS
- IMPACT BEDS
- BRAKING SYSTEM
- SEALING SYSTEM
- DRIVE PACKAGES
- MOXIE® ROLLS
- WIND HOOPS
- WALKWAYS
- TAKE-UPS
- COVERS
- E-STOP
- BELTING
- BELT MISALIGNMENT SENSOR
- BELT RIP DETECTOR
- BELT SCALE
Operating Cost Comparison: Conveyor vs Haul Truck

Cost per Ton (2,500-foot transfer)

- **Conveyor**: $0.06 per ton
- **Haul Truck**: $0.57 per ton

Cost per Ton by Degree of Incline

- **Conveyor**
- **Haul Truck**

Environmental Impact

- **Haul Truck**: 55,000 pounds of PM-10 emissions per year
- **Conveyor**: 0 pounds of PM-10 emissions per year
SLIDE-PAC™ AND SLIDE-STAC™ CONVEYORS

Specially designed field truss conveyors stack one on top of the other for transport, saving you on shipping costs.
A portable transfer conveyor designed for swift, reliable and safe setup for operation or transportation.
Engineered truss supports head end rollers for an effortless glide to and from stacked mode.
Only one operator for setup or teardown.
SPECIFICATIONS AND OPTIONS

GENERAL SPECS
Tons Per Hour (TPH): **Up to 1,200**  
Belt Widths (inches): **Up to 42**  
Belt Speed (FPM): **350**

<table>
<thead>
<tr>
<th>OPERATING DIMENSIONS</th>
<th>SLIDE-PAC CONVEYORS</th>
<th>SLIDE-STAC CONVEYORS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60'</td>
<td>70'</td>
</tr>
<tr>
<td>Conveyor Length (m)</td>
<td>60’-0” (18.3)</td>
<td>70’-0” (21.3)</td>
</tr>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>58’-9” (18.0) to 59’-7” (18.2)</td>
<td>68’-10” (21.8) to 69’-7” (21.2)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>Varies</td>
<td>Varies</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>Varies</td>
<td>Varies</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>TRAVEL DIMENSIONS</th>
<th>SLIDE-PAC CONVEYORS</th>
<th>SLIDE-STAC CONVEYORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Length (m)</td>
<td>59’-8” (18.2)</td>
<td>73’-4” (22.3)</td>
</tr>
<tr>
<td>Travel Height (m)</td>
<td>13’-6” (4.1)</td>
<td>13’-6” (4.1)</td>
</tr>
<tr>
<td>Travel Width (m)</td>
<td>10’-1” (3.1)</td>
<td>9’-11” (3.0)</td>
</tr>
<tr>
<td>Kingpin to Axle (m)</td>
<td>44’-9” (13.6)</td>
<td>54’-9” (16.6)</td>
</tr>
<tr>
<td>Weight at Axle (kg)</td>
<td>19,000 (8,618)</td>
<td>21,000 (9,525)</td>
</tr>
<tr>
<td>Weight at Kingpin (kg)</td>
<td>10,000 (4,535)</td>
<td>12,700 (5,760)</td>
</tr>
</tbody>
</table>

SLIDE-STAC UNDERCARRIAGE
- EXTERRA® PRIMARY BELT CLEANER
- EXTERRA® SFL DUAL BELT CLEANER
- URATHON® RETURN ROLL
- LIGHTING PACKAGE

ROLL-ON/ ROLL-OFF CAPABILITY
- ADJUSTABLE HEIGHT DISCHARGE
- RADIAL HOPPER
- MOXIE® ROLLS
- IMPACT IDLERS

SLIDE-PAC OPERATION
- BELT COVERS
- AUTO GREASERS

Flexible conveyors easily shift in and out of operation depending on transfer length requirement. Custom-engineered conveyor truss design extends conveyor life in rugged applications. Adjustable height discharge achieves more accurate on target feeding reducing transfer point maintenance. Tried and true Superior brand components require fewer changeouts, which lowers operating cost.
## Specifications and Options

### General Specs
- **Tons Per Hour (TPH):** Up to 1,200
- **Belt Widths (inches):** Up to 42
- **Belt Speed (FPM):** 400

### Operating Dimensions
<table>
<thead>
<tr>
<th></th>
<th>50’</th>
<th>60’</th>
<th>80’</th>
<th>100’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>50’-0” (15.2)</td>
<td>60’-0” (18.3)</td>
<td>80’-0” (24.4)</td>
<td>100’-0” (30.5)</td>
</tr>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>45’-10” (14.0)</td>
<td>55’-5” (16.9)</td>
<td>79’-9” (24.4)</td>
<td>94’-9” (28.9)</td>
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<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>12’-9” (3.9)</td>
<td>12’-9” (3.9)</td>
<td>10’-1” (3.0)</td>
<td>11’-6” (3.5)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>6’-7” (2.0)</td>
<td>6’-11” (2.1)</td>
<td>14’-1” (4.2)</td>
<td>7’-0” (2.4)</td>
</tr>
</tbody>
</table>

### Travel Dimensions
- **Travel Length - 36” Belt Width (m):**
  - 54’-8” (16.7)
  - 64’-8” (19.8)
  - 84’-9” (25.9)
  - 38’-3” (11.7)
- **Travel Height - 36” Belt Width (m):**
  - 9’-2” (2.7)
  - 9’-3” (2.7)
  - 9’-1” (2.7)
  - 9’-5” (2.8)
  - Dual 10’-1” (3.0)
  - Dual 10’-5” (3.1)
- **Travel Width - 36” Belt Width (m):**
  - 9’-2” (2.8)
  - 9’-3” (2.8)
  - 9’-1” (2.7)
  - 9’-5” (2.8)
  - Dual 10’-1” (3.0)
  - Dual 10’-5” (3.1)

### Weight at Axle - 36” Belt Width (kg)
- 4,553 (2,065)
- 4,700 (2,131)
- 7,000 (3,175)
- 8,700 (3,946)

### Weight at Kingpin - 36” Belt Width (kg)
- 1,910 (866)
- 2,400 (1,088)
- 3,000 (1,360)
- 2,900 (1,315)

### Equipment Options
- **Exterra® Primary Belt Cleaner**
- **Exterra® SFL Dual Belt Cleaner**
- **Highway Packages**
- **Radial Hopper**
- **Adjustable Height Discharge**
- **Fixed Height Support**
- **Discharge Hood**
- **Landing Legs**
- **Towing Eye**
- **Moxie® Rolls**
- **Urathon® Return Roll**
- **Impact Idlers**
- **Belt Covers**
- **Auto Greasers**
- **Belt Scale**
Stackable Conveyors

Greatly reduce freight when you transport up to eight Stackable Conveyors on one trailer.

Multipurpose conveyors can be used to transfer or stockpile material.

Numerous options to best fit the conveyors into your desired applications.

Auction statistics confirm Superior Stackable Conveyors have the highest resale value in the industry.
**FEATURES**

- **STACKABLE PLUS WITH BEND**
- **STACKABLE PLUS WITH UNDERCARRIAGE**
- **TOWING EYE**
- **HEAD SUPPORTS**
- **MODULAR HOPPER W/ STACKABLES**

- Fifth Wheel Hitches
- Highway Packages
- 3 Conveyor Support Options
- Pit or Road Portable Axles
- 9' Horizontal Bend
- Exterra® Primary Belt Cleaner
- Moxie® Rolls
- Impact Load Area
- Radial Hopper
- Pinning Tab Support Brackets
- Urathon® Return Roll
- Telescoping Legs
- Tow Eye
- Anchor Pivot Plate
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>CONVEYOR</th>
<th>STACKABLE</th>
<th>STACKABLE PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial Receiving Hopper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterra® Belt Cleaner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backstop</td>
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<tr>
<td>3-Ply Belt Upgrade</td>
<td></td>
<td></td>
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<tr>
<td>Vulcanized Splice</td>
<td></td>
<td></td>
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<tr>
<td>Head and Tail Supports</td>
<td></td>
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<tr>
<td>Heavier Truss</td>
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<td></td>
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<tr>
<td>Truss Bends for Low Profile Tail</td>
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<tr>
<td>Undercarriage with Swivel Box</td>
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<tr>
<td>Tow Eye</td>
<td></td>
<td></td>
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<tr>
<td>Anchor Pivot Plate</td>
<td></td>
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<table>
<thead>
<tr>
<th>STANDARDS</th>
<th>AVAILABLE</th>
<th>N/A</th>
</tr>
</thead>
</table>

## GENERAL SPECS

- **Tons Per Hour (TPH): Up to 850**
- **Belt Widths (inches): Up to 48**
- **Incline Angle: 18˚**

<table>
<thead>
<tr>
<th>CONVEYOR</th>
<th>50' STACKABLE</th>
<th>60' STACKABLE</th>
<th>50' STACKABLE PLUS</th>
<th>60' STACKABLE PLUS</th>
<th>50' STACKABLE PLUS W/ BEND</th>
<th>60' STACKABLE PLUS W/ BEND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conveyor Length (m)</td>
<td>50'-0&quot; (15.2)</td>
<td>60'-0&quot; (18.3)</td>
<td>50'-0&quot; (15.2)</td>
<td>60'-0&quot; (18.3)</td>
<td>50'-0&quot; (15.2)</td>
<td>60'-0&quot; (18.3)</td>
</tr>
<tr>
<td>Conveyor Ground Length (m)</td>
<td>45'-8&quot; (13.9)</td>
<td>55'-2&quot; (16.8)</td>
<td>49'-2&quot; (15.0)</td>
<td>55'-10&quot; (17.0)</td>
<td>51'-4&quot; (15.6)</td>
<td>61'-5&quot; (18.7)</td>
</tr>
<tr>
<td>Raised Height to Center of Pulley (m)</td>
<td>Up to 17'-11&quot; (5.5)</td>
<td>Up to 21'-0&quot; (6.4)</td>
<td>16'-7&quot; (5.0)</td>
<td>19'-8&quot; (6.0)</td>
<td>15'-5&quot; (4.7)</td>
<td>18'-6&quot; (5.6)</td>
</tr>
<tr>
<td>Lowered Height to Center of Pulley (m)</td>
<td>12'-5&quot; (3.8)</td>
<td>12'-5&quot; (3.8)</td>
<td>9'-0&quot; (2.7)</td>
<td>7'-11&quot; (2.4)</td>
<td>7'-3&quot; (2.2)</td>
<td>9'-0&quot; (2.7)</td>
</tr>
<tr>
<td>Anchor Pivot to Center of Axle (m)</td>
<td>25'-5&quot; (7.8)</td>
<td>31'-2&quot; (9.5)</td>
<td>26'-10&quot; (8.2)</td>
<td>32'-9&quot; (10.0)</td>
<td>28'-2&quot; (8.6)</td>
<td>38'-10&quot; (11.8)</td>
</tr>
</tbody>
</table>

## STACKABLE & STACKABLE PLUS CONVEYOR

<table>
<thead>
<tr>
<th>MAXIMUM STOCKPILE HEIGHT (m)</th>
<th>MAXIMUM STOCKPILE CAPACITY Cubic Yard (m³)</th>
<th>18˚ STRAIGHT INCLINE tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50'-0&quot;</td>
<td>18'-6&quot; (5.7)</td>
<td>430 (328)</td>
</tr>
<tr>
<td>60'-0&quot;</td>
<td>21'-6&quot; (6.6)</td>
<td>680 (519)</td>
</tr>
</tbody>
</table>

## STACKABLE PLUS CONVEYOR W/ BEND

<table>
<thead>
<tr>
<th>MAXIMUM STOCKPILE HEIGHT (m)</th>
<th>MAXIMUM STOCKPILE CAPACITY Cubic Yard (m³)</th>
<th>19˚ INCLINE W/ BEND tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50'-0&quot;</td>
<td>19'-6&quot; (6.0)</td>
<td>490 (374)</td>
</tr>
<tr>
<td>60'-0&quot;</td>
<td>22'-6&quot; (6.9)</td>
<td>780 (596)</td>
</tr>
</tbody>
</table>

© Superior Industries / 09.2014
Directly **transfer material from truck to stockpile** and remove extra handling to guarantee product quality.

Unload times as little as **60 seconds per truck load**.

While conventional truck unloaders can require days to install, these **portable units take just minutes to be production ready**.

Our **patented self-cleaning ramps** ensure any extra material is fed to the hopper after a truck’s exit, limiting maintenance.
HIGHLIGHTS

1/ TAIL PULLEY ACCESS: Hinged cover allows for easy maintenance access to take-ups and tail pulley.

2/ SELF CLEANING RAMPS: Patented, hydraulically controlled ramps quickly dumps any spilled material into the hopper.

3/ DRIVE OVER GRATES: Bolt on design allows for easy maintenance access under the grates. In addition, a variety of designs handle material up to 8” minus.

4/ OPERATOR PLATFORM: Standard at the tail end to increase operator visibility and safety.

5/ POWERFOLD: Patented powerfold protects hydraulic cylinder rods from debris during operation.

6/ WRAP DRIVE: Combining a drive and a snub pulley creates higher wrap factor for better belt tensioning and reduced material spillage. The install location is conveniently accessible from ground level.

7/ TRUSS FRAME: Compared to channel frame designs, this robust structure is less prone to bending.

8/ ADJUSTABLE HEIGHT DISCHARGE: Hit multiple height feed points and eliminate the need for a transfer conveyor when feeding a stacker.

9/ HOLD DOWN WHEELS: Large surface area ensures effectiveness in operation. Spokes in wheels prevents material build up.

10/ FLOW GATE: Designed to accommodate a higher flow of material while avoiding spillage.

11/ IMPACT IDLERS: These rubber idlers absorb shock to protect belting from premature damage.

12/ CHEVRON® PULLEY: Patented v-shaped pulley deflects fugitive material to extend pulley life and lessen belt wear. In addition, constant belt contact reduces vibration and noise generation by 50 decibels.
ONBOARD POWER CUTS RELIANCE ON ELECTRICITY

AREA LIGHTING FOR CLEAR SIGHTLINES

ONBOARD TRUCK RAMPS DEPLOY IN MINUTES

SINGLE OR DUAL OPERATOR PLATFORM

CYLINDER RODS PROTECTED DURING OPERATION

UHMW PLATES CONTAIN MATERIAL TO BELT

BOLT ON HOPPER GRATING

ADJUSTABLE FLOW GATE CONTROLS RATES

WRAP DRIVE PREVENTS BELT SLIPPAGE
## SPECIFICATIONS

### OPERATING DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>48&quot;</th>
<th>48&quot; w/ Adjustable Discharge</th>
<th>72&quot;</th>
<th>72&quot; w/ Adjustable Discharge</th>
<th>72&quot; Haul Truck</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tons Per Hour (tonnes/hour)</td>
<td>1,000 (907)</td>
<td>1,000 (907)</td>
<td>1,500 (1,360)</td>
<td>1,500 (1,360)</td>
<td>2,000 (1,814)</td>
</tr>
<tr>
<td>Maximum Material Size (mm)</td>
<td>4” Minus (101)</td>
<td>4” Minus (101)</td>
<td>4” Minus (101)</td>
<td>4” Minus (101)</td>
<td>8” Minus (203)</td>
</tr>
<tr>
<td>Cycle Time per Minute (tonnes)</td>
<td>2.5 for 30 Tons (27)</td>
<td>2.5 for 30 Tons (27)</td>
<td>2.5 for 30 Tons (27)</td>
<td>2.5 for 30 Tons (27)</td>
<td>2.5 for 40 Tons (36)</td>
</tr>
<tr>
<td>Earth Ramp Height (mm)</td>
<td>32” (812)</td>
<td>32” (812)</td>
<td>32” (812)</td>
<td>32” (812)</td>
<td>43” (1,092)</td>
</tr>
<tr>
<td>Discharge Height (m)</td>
<td>6’-11” (1.9)</td>
<td>7’-2” (2.2) - 11’-5” (3.5)</td>
<td>8’-1” (2.4) - 12’-8” (3.8)</td>
<td>8’1” (2.4) - 12’-8” (3.8)</td>
<td>6’-9” (2.0) - 10’-3” (3.1)</td>
</tr>
<tr>
<td>Conveyor Length (m)</td>
<td>53’-6” (16.3)</td>
<td>63’-0” (19.2)</td>
<td>78’-7” (24.0)</td>
<td>67’-6” (20.5)</td>
<td>74’-9” (22.8)</td>
</tr>
<tr>
<td>Conveyor Width (m)</td>
<td>6’-4” (2.0)</td>
<td>6’-4” (2.0)</td>
<td>7’-4” (2.2)</td>
<td>7’-8” (2.3)</td>
<td>9’-4” (2.8)</td>
</tr>
<tr>
<td>Load Ramp Width (m)</td>
<td>10’-2” (3.0)</td>
<td>10’-2” (3.0)</td>
<td>10’-4” (3.1)</td>
<td>10’-0” (3.0)</td>
<td>7’-6” (2.3)</td>
</tr>
</tbody>
</table>

### TRAVEL DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>46’-8” (14.2)</th>
<th>52’-6” (16.0)</th>
<th>52’-6” (16.0)</th>
<th>74’-2” (22.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Length (m)</td>
<td>52’-4” (16.0)</td>
<td>46’-8” (14.2)</td>
<td>52’-6” (16.0)</td>
<td>52’-6” (16.0)</td>
</tr>
<tr>
<td>Travel Height (m)</td>
<td>10’-2” (3.0)</td>
<td>13’-1” (4.0)</td>
<td>12’-6” (3.8)</td>
<td>12’-6” (3.8)</td>
</tr>
<tr>
<td>Travel Width (m)</td>
<td>12’-1” (3.7)</td>
<td>11’-1” (3.3)</td>
<td>11’-10” (3.6)</td>
<td>11’-10” (3.6)</td>
</tr>
<tr>
<td>Weight at Axle (kg)</td>
<td>15,700 (7,121)/ 19,800 (8,981)</td>
<td>19,500 (8,845)/ 23,700 (10,750)</td>
<td>27,000 (12,246)</td>
<td>26,400 (11,974) / 29,000 (13,154)</td>
</tr>
<tr>
<td>Weight at Kingpin (kg)</td>
<td>12,200 (5,533) / 16,300 (7,393)</td>
<td>19,100 (8,663) / 19,600 (8,890)</td>
<td>18,000 (8,164)</td>
<td>19,400 (8,799) / 24,000 (10,886)</td>
</tr>
</tbody>
</table>

### APPLICATION PHOTOS

- **END DUMP TRUCKS TO MATERIAL STOCKPILE**
- **BELLY DUMP TRAILER TO RAILCARS**
- **30 TON HAUL TRUCK TO BARGE**

RAZERLINK™ CONVEYOR

Multi-functional machine for several applications including truck unloading, material transfer, stockpiling and vessel loading.

- Numerous options to customize unit to best fit application duties.
- One time handling of material maintains high quality material spec.

Combining mobility with telescoping conveyor technology limits downtime and accelerates material handling.
FEATURES AND OPTIONS

### DISCHARGE CONVEYOR
- Fixed length conveyor
- Fixed length with powerfold
- Luffing (raising/lowering) conveyor
- Slewing/radial conveyor
- Telescoping conveyor

### FEED METHODS
- Drive over ramps for belly dump trucks
- Back up ramp for end dump trucks
- Feeder hopper for loaders

### MOBILITY OPTIONS
- Conveyor tracks
- Drive tires
- Towable tires

APPLICATIONS
- Mobile barge loading
- Mobile transfer conveyor
- Mobile railcar loading
- Stockpiling at highway construction projects
- Cost effective mobile heap leach system

See video at bit.ly/razerlink
PORTABLE FEED HOPPER

8’ x 16’

Consistent, reliable feed to crushing, screening and washing plants.

Adjustable, non-binding grizzly bars easily remove oversized material.

Designed for efficient setup and take down to quickly move from site to site.

Tried-and-true Superior components including idlers, pulleys and belt cleaners.
PHOTO GALLERY

FEATURES

- REINFORCED 8’ X 16’ TOP OPENING
- 10 CUBIC YARD CAPACITY
- CAPACITY UP TO 850 TPH
- 36” X 18’ BELT FEEDER
- MANUAL OR HYDRAULIC DUMP BARS
- PLACE UNIT AND ADJUST CONVEYOR HEIGHT FOR SETUP
- FIFTH WHEEL HITCH, BRAKES, LIGHTS AND MUD FLAPS

See video at bit.ly/feedhopper
TUNNEL RECLAIM

Maintain a continuous feed of material to your processing plant.
Decrease your dependency on expensive loaders and workforce.
Allows for flexible modifications in the future without replacing entire system.
Designed for your specific application and shipped to site pre-assembled.
TUNNEL SIZING

![Diagram of tunnel sizing](image)

### TUNNEL WIDTH

**TUNNEL WIDTH (m)**

<table>
<thead>
<tr>
<th>TUNNEL WIDTH (m)</th>
<th>36&quot; (cm)</th>
<th>36&quot; (cm)</th>
<th>42&quot; (cm)</th>
<th>48&quot; (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’-0&quot; (2.4)</td>
<td>18&quot; (45)</td>
<td>12&quot; (30)</td>
<td>6&quot; (15)</td>
<td>N/A</td>
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<tr>
<td>10’-0&quot; (3.0)</td>
<td>42&quot; (106)</td>
<td>36&quot; (91)</td>
<td>30&quot; (76)</td>
<td>24&quot; (61)</td>
</tr>
<tr>
<td>12’-0&quot; (3.6)</td>
<td>66&quot; (167)</td>
<td>60&quot; (152)</td>
<td>54&quot; (137)</td>
<td>48&quot; (121)</td>
</tr>
</tbody>
</table>

**Determining “X” Width**

BELT FEEDERS

- Application Specific
- Portable Version Available
- Ship To Site Preassembled
- Belt Feeders
- Vibrating Pan Feeder
- Clam Gate Feeder
PORTABLE SCREEN PLANT

6x20 / 6x24 / 7x20 / 8x20

Highly portable units are designed for fast setup and take down from site to site.

Durable, Superior brand chassis withstands rugged abuse common to screening applications.

Heavy-duty conveyor systems manufactured with tried-and-true Superior brand components.

Use Superior as single source supplier for portable aggregate equipment manufacturing, sales and service.
FEATURES AND OPTIONS

SEPARATE STORAGE FOR TOOLS AND CRIBBING
- Wide flange structural steel beams
- Tandem axle with (8) radial tires
- Hydraulic or crank down jacks
- Air brakes
- Mud flaps
- Travel lights
- Fifth wheel hitch
- Cribbing legs

FINES CONVEYOR
- Structural steel channel
- Superior idlers, pulleys and belt cleaners

FINES HOPPER
- 1/4" plate steel sides
- Full length, adjustable rubber flashing

WALKWAY
- Access on both sides of chassis
- Toe board, handrails and ladder

SCREEN DISCHARGE CHUTES
- Rollaway chutes
- 3/8" AR400 steel

CROSS CONVEYORS
- Structural steel channel
- Roll mounted for adjustment to either side
- Receive oversize material from respective decks
- Superior idlers and pulleys

HORIZONTAL VIBRATING SCREEN
- Customer screen brand preference
- Drive motor
- Screen subframe

ADDITIONAL OPTIONS
- Hydraulic leveling jacks
- Feed centering hopper
- (4) flop gates in each chute
- Electrical control panel
- Toolbox
- Cribbing storage
PASSPORT™ MOBILE SHIPLOADER

110' / 130' / 150' / 170' / 190'

Loading at least three hatches, parallel to vessel, from the same feed point limits moves and reduces downtime.

- Designed to move inline, transversely and radially for fast and efficient conveyor relocation.
- Telescopic technology allows conveyor to achieve 45% more extension to fully trim hatches.

Experienced in design and manufacturing of high capacity mobile conveyors producing up to 5,000 tons per hour.
HIGHLIGHTS

1/ **STINGER COVER**: Sliding tarp retracts and extends with conveyor to protect material and prevent dust.

2/ **DISCHARGE CHUTE**: Telescoping chute equipped with 360° trimming spoon.

3/ **STINGER CONVEYOR**: Reduces moves by extending and retracting to load multiple hatches from one feed point.

4/ **CAM ROLLERS**: Patented center pivot design supports the weight of the entire stinger conveyor equally across all rollers, which reduces stress on frame and provides longer life.

5/ **STINGER SAFETY STOPS**: Designs that protect your investment. Safety stops immediately react in the event of stinger cable failure, minimizing structural damage.

6/ **FB® UNDERCARRIAGE**: Patented for maximum undercarriage support and the most rigid lateral stability. Load sharing hydraulic cylinders add even greater structural support and safety.

7/ **3 POSITION AXLE**: Allows lateral travel parallel to ship, towing perpendicular to dock and radial travel for hatch loading.

8/ **ONBOARD POWER**: Self-contained diesel engines allow flexibility to quickly move anywhere throughout the port.

9/ **MOBILE PIVOT BASE**: 360° rotation at the tail of the conveyor permits lightning fast relocation.

10/ **SEALING SYSTEM**: Prevents material spillage in load zone by maintaining a tight seal between belt and hopper skirting.

11/ **MAINFRAME COVERS**: Rigid covers reduce dust and protect material from environmental hazards.

12/ **MULTIFUNCTIONAL MACHINE**: Same conveyor system can load, unload and stockpile material.

Australian stevedoring firm, Bulk Conveying Equipment, chose Superior brand equipment for its strength and heavy-duty construction, its customization capabilities to handle the lightest to heaviest abrasive materials; and its transfer point mobility options.
CORROSION PROTECTION OPTIONS
- Galvanized steel finish.
- Epoxy steel coating.
- Corrosion resistant components.
- Stainless steel fittings.

DUST SUPPRESSION OPTIONS
- Dust collection system.
- Sealed transfer points.
- Conveyor covers.
- Drip pans.
- Telescoping discharge chutes.

COLD WEATHER PROTECTION OPTIONS
- Fracture resistant steel.
- Heaters for motors, gear boxes and hydraulics.
- Arctic grade fluids.
- Thermal sleeve insulators.
- Freeze resistant motors and hoses.
- Fully enclosed conveyor.
OPTIONS

- DISCHARGE CHUTE
- TRIMMING SPOON
- SLIDING TARP STINGER COVER
- MAINFRAME COVERS
- DRIP PANS
- DUST COLLECTION SYSTEMS
- GALVANIZED STEEL FINISH
- EPOXY STEEL COATING
- CORROSION RESISTANT COMPONENTS
- STAINLESS STEEL FITTINGS
- FULLY ENCLOSED CONVEYOR
- CONVEYOR WALKWAY
- ONBOARD POWER
- MODULAR HOPPERS
- AREA LIGHTING
- MOBILE PIVOT BASE
- REMOTE CONTROL
- MOXIE® ROLLS
- URATHON® RETURN ROLLS
- AUTO GREASERS
- IMPACT BED
- LOAD ZONE SEALING SYSTEM
# STOCKPILE CAPACITIES

**MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)** Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Stockpile Volume in Cubic Yards (m³)</th>
<th>Stockpile Volume in Tons (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Conical 90°</td>
<td>180°</td>
</tr>
<tr>
<td>110 TSFD</td>
<td>39’-0” (12.0)</td>
<td>4,900 (3,200)</td>
<td>19,700 (15,000)</td>
</tr>
<tr>
<td>130 TSFD</td>
<td>42’-0” (13.0)</td>
<td>6,200 (4,700)</td>
<td>27,300 (20,900)</td>
</tr>
<tr>
<td>130 TSXTP</td>
<td>45’-6” (14.0)</td>
<td>6,700 (5,100)</td>
<td>27,700 (21,200)</td>
</tr>
<tr>
<td>150 TSFD</td>
<td>50’-0” (15.0)</td>
<td>9,300 (7,100)</td>
<td>41,000 (31,300)</td>
</tr>
<tr>
<td>150 TSXTP</td>
<td>50’-0” (15.0)</td>
<td>9,200 (7,000)</td>
<td>40,100 (30,700)</td>
</tr>
<tr>
<td>170 TSXTP</td>
<td>58’-0” (17.5)</td>
<td>12,900 (9,900)</td>
<td>56,100 (42,900)</td>
</tr>
<tr>
<td>190 TSXTP</td>
<td>66’-0” (20.0)</td>
<td>18,700 (14,300)</td>
<td>82,300 (63,000)</td>
</tr>
<tr>
<td>72x190 TSPP</td>
<td>61’-0” (18.5)</td>
<td>16,700 (12,800)</td>
<td>75,700 (57,900)</td>
</tr>
</tbody>
</table>

## PHOTO GALLERY
### Maximum Belt Capacities - TPH (MT)

Based on 100 PCF (1.6 t/m³) material density, 100 FPM belt speed, 100% full belt

<table>
<thead>
<tr>
<th>Trough Angle</th>
<th>Surcharge Angle</th>
<th>18” (m)</th>
<th>24” (m)</th>
<th>30” (m)</th>
<th>36” (m)</th>
<th>42” (m)</th>
<th>48” (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°</td>
<td>20°</td>
<td>50 (45)</td>
<td>96 (87)</td>
<td>157 (142)</td>
<td>230 (209)</td>
<td>320 (290)</td>
<td>430 (390)</td>
</tr>
<tr>
<td>25°</td>
<td>25°</td>
<td>56 (51)</td>
<td>108 (98)</td>
<td>175 (159)</td>
<td>260 (236)</td>
<td>360 (327)</td>
<td>480 (435)</td>
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<tr>
<td>30°</td>
<td>30°</td>
<td>63 (57)</td>
<td>120 (109)</td>
<td>195 (177)</td>
<td>290 (263)</td>
<td>400 (363)</td>
<td>530 (481)</td>
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<tr>
<td>35°</td>
<td>10°</td>
<td>-</td>
<td>102 (93)</td>
<td>167 (151)</td>
<td>248 (225)</td>
<td>344 (312)</td>
<td>457 (415)</td>
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<tr>
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<td>20°</td>
<td>-</td>
<td>122 (111)</td>
<td>200 (181)</td>
<td>295 (268)</td>
<td>408 (370)</td>
<td>540 (490)</td>
</tr>
<tr>
<td>35°</td>
<td>25°</td>
<td>-</td>
<td>132 (120)</td>
<td>215 (195)</td>
<td>318 (288)</td>
<td>442 (401)</td>
<td>645 (585)</td>
</tr>
<tr>
<td>35°</td>
<td>30°</td>
<td>-</td>
<td>142 (129)</td>
<td>232 (210)</td>
<td>343 (311)</td>
<td>475 (431)</td>
<td>630 (572)</td>
</tr>
<tr>
<td>45°</td>
<td>5°</td>
<td>-</td>
<td>106 (96)</td>
<td>175 (159)</td>
<td>258 (234)</td>
<td>358 (325)</td>
<td>475 (431)</td>
</tr>
<tr>
<td>45°</td>
<td>10°</td>
<td>-</td>
<td>115 (104)</td>
<td>187 (170)</td>
<td>278 (252)</td>
<td>386 (350)</td>
<td>510 (463)</td>
</tr>
<tr>
<td>45°</td>
<td>20°</td>
<td>-</td>
<td>132 (120)</td>
<td>215 (195)</td>
<td>318 (288)</td>
<td>440 (399)</td>
<td>584 (530)</td>
</tr>
<tr>
<td>45°</td>
<td>25°</td>
<td>-</td>
<td>140 (127)</td>
<td>230 (209)</td>
<td>340 (308)</td>
<td>470 (426)</td>
<td>623 (565)</td>
</tr>
<tr>
<td>45°</td>
<td>30°</td>
<td>-</td>
<td>170 (154)</td>
<td>244 (221)</td>
<td>360 (327)</td>
<td>500 (454)</td>
<td>660 (599)</td>
</tr>
</tbody>
</table>
# STOCKPILE CAPACITIES

## MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)
Assumptions based on aggregate which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

<table>
<thead>
<tr>
<th>Conveyor Length</th>
<th>Stockpile Height (m)</th>
<th>Conical</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
<th>Conical</th>
<th>90°</th>
<th>180°</th>
<th>270°</th>
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</thead>
<tbody>
<tr>
<td>18° INCLINE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50'</td>
<td>18'-6&quot; (5.7)</td>
<td>430</td>
<td>(330)</td>
<td>1,700</td>
<td>(1,300)</td>
<td>2,900</td>
<td>(2,200)</td>
<td>4,200</td>
<td>(3,200)</td>
</tr>
<tr>
<td></td>
<td>21'-6&quot; (6.6)</td>
<td>680</td>
<td>(520)</td>
<td>2,700</td>
<td>(2,100)</td>
<td>4,800</td>
<td>(3,700)</td>
<td>6,800</td>
<td>(5,200)</td>
</tr>
<tr>
<td></td>
<td>28'-0&quot; (8.5)</td>
<td>1,500</td>
<td>(1,200)</td>
<td>6,000</td>
<td>(4,600)</td>
<td>10,500</td>
<td>(8,000)</td>
<td>15,000</td>
<td>(11,500)</td>
</tr>
<tr>
<td></td>
<td>32'-0&quot; (9.8)</td>
<td>2,300</td>
<td>(1,800)</td>
<td>9,600</td>
<td>(7,300)</td>
<td>16,900</td>
<td>(12,900)</td>
<td>24,200</td>
<td>(18,500)</td>
</tr>
<tr>
<td></td>
<td>34'-0&quot; (10.4)</td>
<td>2,700</td>
<td>(2,100)</td>
<td>11,100</td>
<td>(8,500)</td>
<td>19,500</td>
<td>(14,900)</td>
<td>28,600</td>
<td>(21,400)</td>
</tr>
<tr>
<td></td>
<td>37'-0&quot; (11.3)</td>
<td>3,500</td>
<td>(2,700)</td>
<td>14,500</td>
<td>(11,100)</td>
<td>25,600</td>
<td>(19,600)</td>
<td>36,600</td>
<td>(28,000)</td>
</tr>
<tr>
<td>95'</td>
<td>42'-6&quot; (12.8)</td>
<td>4,900</td>
<td>(3,700)</td>
<td>20,800</td>
<td>(15,900)</td>
<td>36,700</td>
<td>(28,100)</td>
<td>52,600</td>
<td>(40,200)</td>
</tr>
<tr>
<td>100'</td>
<td>49'-0&quot; (14.9)</td>
<td>8,200</td>
<td>(6,300)</td>
<td>35,000</td>
<td>(26,800)</td>
<td>61,900</td>
<td>(47,300)</td>
<td>88,700</td>
<td>(67,800)</td>
</tr>
<tr>
<td>110'</td>
<td>59'-0&quot; (18.0)</td>
<td>13,000</td>
<td>(10,600)</td>
<td>59,200</td>
<td>(45,300)</td>
<td>104,600</td>
<td>(80,000)</td>
<td>150,000</td>
<td>(114,700)</td>
</tr>
<tr>
<td>125'</td>
<td>65'-0&quot; (19.8)</td>
<td>18,600</td>
<td>(14,200)</td>
<td>80,300</td>
<td>(61,400)</td>
<td>141,900</td>
<td>(108,800)</td>
<td>203,600</td>
<td>(155,700)</td>
</tr>
<tr>
<td>150'</td>
<td>50'-0&quot; (15.2)</td>
<td>9,300</td>
<td>(7,100)</td>
<td>41,000</td>
<td>(31,300)</td>
<td>72,600</td>
<td>(55,500)</td>
<td>104,300</td>
<td>(79,800)</td>
</tr>
<tr>
<td>180'</td>
<td>50'-0&quot; (15.2)</td>
<td>9,200</td>
<td>(7,000)</td>
<td>40,100</td>
<td>(30,700)</td>
<td>71,000</td>
<td>(54,300)</td>
<td>102,000</td>
<td>(78,000)</td>
</tr>
<tr>
<td>190'</td>
<td>50'-0&quot; (15.2)</td>
<td>9,400</td>
<td>(7,200)</td>
<td>49,800</td>
<td>(38,100)</td>
<td>90,100</td>
<td>(68,900)</td>
<td>103,500</td>
<td>(99,800)</td>
</tr>
<tr>
<td>200'</td>
<td>50'-0&quot; (15.2)</td>
<td>12,900</td>
<td>(9,900)</td>
<td>56,100</td>
<td>(42,900)</td>
<td>99,300</td>
<td>(76,000)</td>
<td>142,400</td>
<td>(108,900)</td>
</tr>
<tr>
<td>22° INCLINE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80'</td>
<td>33'-0&quot; (10.1)</td>
<td>2,500</td>
<td>(1,900)</td>
<td>8,600</td>
<td>(6,600)</td>
<td>14,900</td>
<td>(11,400)</td>
<td>21,100</td>
<td>(16,100)</td>
</tr>
<tr>
<td>100'</td>
<td>40'-0&quot; (12.2)</td>
<td>4,500</td>
<td>(3,500)</td>
<td>16,300</td>
<td>(12,500)</td>
<td>28,000</td>
<td>(21,400)</td>
<td>39,700</td>
<td>(30,400)</td>
</tr>
<tr>
<td>125'</td>
<td>50'-0&quot; (15.2)</td>
<td>8,500</td>
<td>(6,500)</td>
<td>31,000</td>
<td>(23,700)</td>
<td>52,900</td>
<td>(40,500)</td>
<td>75,000</td>
<td>(57,400)</td>
</tr>
</tbody>
</table>

Stockpile Volume in Cubic Yards (m³)

Stockpile Volume in Tons (MT)
CEMA IDLERS
MOXIE® ROLLS
IMPACT ROLLS
RETURN ROLLS
URATHON® RETURN ROLLS
SPIRAL URATHON® RETURN ROLLS
NAVIGATOR® RETURN TRAINERS
SELF-ALIGNING IDLERS
V-RETURN IDLERS
CHEVRON® PULLEYS
DRUM PULLEYS
WING PULLEYS
SUPERIOR COMPONENTS

CORE SYSTEMS® DESIGN

TAKE-UPS

V-PLOWS

EXTERRA® PRIMARY BELT CLEANER

EXTERRA® SFL DUAL CLEANER

EXTERRA® REPLACEMENT BLADES

SEALING SYSTEM

IMPACT BED

BELT SCALE

BELT COVERS

FLEXIBLE GUARD PANELS

AUTO GREASER