SUPERIOR

TIME DEPARTMENT FOR ANY SELLE

CONVEYING EQUIPMENT PRODUCT HANDBOOK







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
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- P/35 Tripper Conveyor

TRANSFER CONVEYORS

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CONVEYOR COMPONENTS

P/71-72 Superior Idlers, Pulleys and Accessories



TELESTACKER[®] CONVEYOR

110' / 130' / 136' / 150' / 158' / 170' / 190'

- 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.

HIGHLIGHTS



- 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/ SLIDETRACK SYSTEM: A support system for electrical and hydraulic cables, this new and improved technology was designed with long-lasting galvanized steel and no catch points for fugitive material. While the machine is locked out, simply detach a side guard for easy acces to maintenance.
- 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.

OPTIONS



COMPENSATION LINKAGE



EXTERRA® SFL DUAL BELT CLEANER



HYDRAULIC LANDING JACKS



WALKWAY (ON MAIN CONVEYOR)

- 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





URATHON® RETURN ROLL

- 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



BELT COVERS

- 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.









D/ ROBUST TRUSS



E/ CAM ROLLERS

PATENTED FD AXLE



HYDRAULICALLY TRANSFER FROM ROAD TO OPERATION IN SECONDS

XTP SWING AXLE



PHYSICALLY TRANSFER FROM ROAD TO OPERATION IN MINUTES



HYDRAULICALLY ADJUST TIRES TO OFFSET UNEVEN TERRAIN



CONCRETE PAD PROVIDES LEVEL RUNWAY



ENCLOSED DRIVE PROTECTS GEARING FROM DEBRIS



PULL T-HANDLE TO ENGAGE POWER TRAVEL; NO CHAIN DRIVE



TRACKS CONQUER LOW PRESSURE SOILS

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See video at

bit.ly/xtp-axle

PILEPRO[™] AUTOMATION

- 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.

NEW FD AXLE AUTO LEVEL

Standard on all FD Axle models, an auto level feature maintains a balanced head pulley, which greatly improves effective belt tracking across uneven terrain. (Patent Pending)

- 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.



RECALL 1 OF 4 PREVIOUSLY SAVED PILE TYPES





DIAGNOSTICS HELP IDENTIFY THE SOURCE OF ISSUE

PHOTO GALLERY



FD AXLE TSFD SPECIFICATIONS

OPERATING DIMENSIONS	110′	130′	136′*	150′	158′ *
Conveyor Length (m)	110'-0" (33.5)	130′-0″ (39.6)	136'-0"LP (41.5)	150'-0" (45.7)	158'-0"LP (48.0)
Highest Extended Discharge Height (m)	41'-3" (12.6)	45'-5" (13.8)	44'-0" (13.4)	52'-9" (16.1)	48'-10" (14.8)
Lowest Extended Discharge Height (m)	18'-10" (5.7)	19'-4" (5.9)	18'-6" (5.6)	19'-6" (5.9)	19'-6" (5.9)
Highest Retracted Discharge Height (m)	25'-0" (7.6)	27'-3" (8.3)	27'-1" (8.2)	30'-10" (9.4)	30'-10" (9.4)
Lowest Retracted Discharge Height (m)	11'-8" (3.5)	13'-1" (4.0)	12'-8" (3.8)	12'-6" (3.8)	12'-4" (3.7)
Anchor Pivot to Center of Axle (m)	39' -8" (12.1)	49'-0" (15.0)	55' - 4" (16.9)	54'-9" (16.7)	70'-11" (21.6)
STOCKPILE DIMENSIONS					
Maximum Pile Height (m)	39' -2" (11.9)	43'-0" (13.1)	43'-2" (13.1)	50'-0" (15.2)	47'-3" (14.4)
Lowered Stockpile Height (m)	15'-6" (4.7)	15'-10" (4.8)	14'-9" (4.5)	16'-7" (5.0)	18'-10" (5.7)
Anchor Pivot to Center of Pile (m)	100'-2" (30.5)	115'-8" (35.2)	126'-4" (38.5)	132'-6" (40.4)	145'-6" (44.3)
TRAVEL DIMENSIONS					
Travel Length - Kingpin to Rear (m)	60' -0" (18.2)	70'-0" (21.3)	80'-0" (24.4)	80'-0" (24.4)	97'-6" (29.7)
Travel Height (m)	12'-5" (3.8)	13'-9" (4.2)	13'-0" (3.9)	13'-10" (4.2)	14'-0" (4.3)
Travel Width (m)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)	11'-6" (3.5)
Kingpin to End of Tow Eye (m)	5'-10" (1.7)	5'-10" (1.7)	5'-10" (1.7)	5'-11"(1.8)	6'-0" (1.9)
Kingpin to Axle (m)	37'-11" (11.5)	47'-7" (14.5)	54'-0" (16.4)	53'-10" (16.4)	70'-0" (21.3)
Axle to Head Pulley (m)	22′-0″ (6.7)	22'-4" (6.8)	25'-6" (7.7)	26'-1"(7.9)	27'-6" (8.3)
FD Axle Size	FD40	FD40	FD40	FD50	FD50
Weight at Axle - 36" Belt Width (kg)	30,500 (13,830)	34,800 (15,785)	36,000 (16,329)	40,000 (18,144)	53,200 (24,131)
Weight at Kingpin - 36″ Belt Width (kg)	12,500 (5,670)	18,300 (8,300)	13,000 (5,897)	24,600 (11,158)	16,000 (7,257)

* Denotes Low Profile Model

XTP AXLE TSSA SPECIFICATIONS

OPERATING DIMENSIONS	130′	150′	170′	190′
Conveyor Length (m)	130'-0" (39.6)	150'-0" (45.7)	170'-0" (51.8)	190′-0″ (57.9)
Highest Extended Discharge Height (m)	47'-0" (13.8)	52'-6" (16.0)	60'-0" (18.5)	67'-8" (20.5)
Lowest Extended Discharge Height (m)	14'-5" (6.0)	15'-10" (6.0)	14'-11" (4.5)	16'-1" (5.0)
Highest Retracted Discharge Height (m)	27'-3" (8.0)	30'-10" (3.0)	38'-6" (11.0)	53'-7" (16.5)
Lowest Retracted Discharge Height (m)	13'-1" (4.0)	12'-6" (4.0)	10'-8" (4.0)	11'-4" (3.5)
Anchor Pivot to Center of Axle (m)	48'-6" (14.5)	56'-4" (17.0)	73'-10" (22.5)	73'-10" (22.5)
STOCKPILE DIMENSIONS				
Maximum Pile Height (m)	44'-5" (13.5)	50'-0" (15.2)	58'-3" (17.7)	66'-1" (20.1)
Lowered Stockpile Height (m)	11'-5" (3.4)	12'-10" (3.9)	11'-11" (3.6)	14'-3" (4.3)
Anchor Pivot to Center of Pile (m)	116′-2″ (35.4)	125'-0" (38.1)	153'-9" (46.8)	163'-1" (49.7)
TRAVEL DIMENSIONS				
Travel Length - Kingpin to Rear (m)	80'-0" (24.3)	80'-0" (24.3)	100 -0" (30.5)	115'-0" (35.0)
Travel Height (m)	12'-3" (3.7)	13'-9" (4.2)	13 -9" (4.2)	14 -0" (4.2)
Travel Width (m)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)
Kingpin to End of Tow Eye (m)	5'-10" (1.7)	5'-11" (1.8)	5'-11" (1.8)	5'-11" (1.8)
Kingpin to Axle (m)	52'-3" (15.9)	59'-9" (18.2)	77'-3" (23.5)	94'-6" (28.8)
Axle to Head Pulley (m)	27'-5" (8.3)	20'-4" (6.1)	22'-10" (6.9)	22'-10" (6.9)
Weight at Axle - 36" Belt Width (kg)	37,500 (17,000)	38,000 (17,235)	46,000 (20,865)	47,000 (21,318)
Weight at Kingpin - 36" Belt Width (kg)	13,600 (6,168)	18,550 (8,414)	20,865 (9,464)	22,500 (10,205)

STOCKPILE CAPACITIES

	MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m ³) MATERIAL DENSITY.										
I	Conveyor	Stockpile Height		Stockpile Volume in Cubic Yards (m³)			Stockpile Volume in Tons (MT)				
	Length	ft x in (m)	Conical	90°	180°	270°	Conical	90°	180°	270°	
	110 TSFD	39'-0" (11.8)	4,900 (3,200)	19,700 (15,000)	34,400 (26,300)	49,200 (37,600)	6,600 (6,000)	26,600 (24,100)	46,500 (42,200)	66,500 (60,300)	
	130 TSFD	42'-0" (12.8)	6,200 (4,700)	27,300 (20,900)	48,300 (37,000)	69,300 (53,000)	8,400 (7,600)	36,800 (33,400)	65,200 (59,100)	93,600 (84,900)	
	130 TSSA	45'-6" (13.8)	6,700 (5,100)	27,700 (21,200)	48,700 (37,200)	69,700 (53,300)	9,000 (8,200)	37,400 (34,000)	65,800 (59,600)	94,200 (85,500)	
	136 TSFD-LP	41'-6" (12.6)	6,900 (5,300)	30,000 (23,000)	53,300 (40,800)	76,500 (58,500)	9,300 (8,400)	40,600 (36,800)	71,900 (65,200)	103,200 (93,600)	
	150 TSFD	50'-0" (15.2)	9,300 (7,100)	41,000 (31,300)	72,600 (55,500)	104,300 (79,800)	12,600 (11,400)	55,300 (50,200)	98,100 (89,000)	140,800 (127,700)	
	150 TSSA	50'-0" (15.2)	9,200 (7,000)	40,100 (30,700)	71,000 (54,300)	102,000 (78,000)	12,400 (11,200)	54,100 (49,000)	95,900 (87,000)	137,700 (124,900)	
	158 TSFD-LP	47'-0" (14.3)	9,700 (7,400)	40,900 (31,300)	72,200 (55,200)	103,500 (79,100)	13,100 (11,900)	55,200 (50,100)	97,500 (88,400)	139,700 (126,800)	
	170 TSSA	58'-0" (17.6)	12,900 (9,900)	56,100 (42,900)	99,300 (76,000)	142,400 (108,900)	17,500 (15,900)	75,800 (68,800)	134,000 (121,600)	192,300 (174,500)	
	190 TSSA	66'-0" (20.1)	18,700 (14,300)	82,300 (63,000)	145,800 (111,500)	209,300 (160,000)	25,300 (23,000)	111,100 (100,800)	196,800 (178,500)	282,600 (256,400)	
	72x190 TSPP	61'-0" (18.6)	16,700 (12,800)	75,700 (57,900)	134,800 (103,000)	193,800 (148,200)	22,500 (20,400)	102,200 (92,700)	181,600 (164,700)	261,600 (237,300)	

PHOTO GALLERY



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PINNACLE[®] CONVEYOR

80' / 100' / 125'

- 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)

FEATURES

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.







OPTIONS



MOXIE® ROLLS



ONBOARD POWER

- 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.
- MOXIE® ROLLS: Non-steel rolls shed sticky material.
- **IMPACT BED:** Protect belt in transfer zones.
- IMPACT ROLLS: Protect belt in load zones.



MODULAR 3-SIDED HOPPER W/ FOLD UP WINGS

- 3-PLY CONVEYOR BELTING: 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.



HYDRAULIC LANDING JACKS



SEALING SYSTEM

- RECEIVING HOPPER: Wider target for material transfer.
- SEALING SYSTEM: Prevent spillage between hopper skirting and belt.
- **SONICSCOUT[™] MATERIAL SENSOR:** Detect material on belting.
- URATHON[®] RETURN ROLL: Shed wet, sticky material.

SPECIFICATIONS

GENERAL SPECS				
Tons Per Hour (TPH): Up to 1,200	Belt Widths (inches): Up to 42	Belt Speed (FPM): 350	Incline Angle: 22°	
OPERATING DIMENSIONS		80′	100′	125′
Conveyor Length (m)		80'-0" (24.4)	100′ -0″ (30.5)	125'-0" (38.1)
Conveyor Ground Length (m)		72'-3" (22.0)	91′-0″ (27.7)	116'-4" (35.4)
Raised Height to Center of Pulley (m)		32'-5" (9.9)	39'-4" (12.0)	50'-8" (15.4)
Lowered Height to Center of Pulley (m)		18'-1" (5.5)	20'-1" (6.1)	18'-2" (5.4)
Anchor Pivot to Center of Axle (m)		32'-2" (9.8)	39'-8" (12.1)	46'-5" (14.2)
STOCKPILE DIMENSIONS				
Raised Stockpile Height (m)		33'-0" (10.1)	40'-0" (12.2)	50'-0" (15.2)
Lowered Stockpile Height (m)		18'-1" (5.5)	20'-1" (6.1)	18'-2" (5.5)
Radius of Pile (m)		42'-2" (12.9)	51'-7" (15.8)	66'-5" (20.3)
Anchor Pivot to Center of Pile (m)		74'-6" (22.7)	93'-0" (28.4)	114'-7" (35.0)
TRAVEL DIMENSIONS				
Travel Length - Kingpin to Rear (m)		53' -7" (16.4)	68' -8" (21.0)	84' -2" (25.7)
Travel Height (m)		13' -5" (4.0)	13' -2" (4.0)	13'-11″ (4.2)
Travel Width (m)		11'-2" (3.4)	11'-5" (3.4)	11′-6″ (3.5)
Kingpin to End of Tow Eye (m)		5' -1" (1.5)	5' -0" (1.5)	5'-6" (1.7)
Kingpin to Axle (m)		34'-7" (10.6)	39'-7" (12.1)	49'-4" (15.1)
Axle to Head Pulley (m)		19'-0" (5.8)	29'-1" (8.9)	34'-10" (10.6)
FD Axle Size		FD15	FD20	FD40
Weight at Axle - 36" Belt Width (kg)		20,000 (9,072)	27,250 (12,360)	39,500 (17,917)
Weight at Kingpin - 36" Belt Width (kg)		6,500 (2,948)	6,300 (2,858)	9,500 (4,309)
MAXIMUM STOCKPILE CAPACITIE	ES (MANUAL PILES) ASSUMP	TIONS BASED ON MATERIAL	WHICH HAS A 37° ANGLE OF REPOSE AND	100 PCF (1.6 t/m ³) MATERIAL DENSITY.

Conveyor	Stockpile Height ft x in (m)	Stockpile Volume in Cubic Yards (m ³)				Stockpile Volume in Tons (MT)			
Length		Conical	90°	180°	270°	Conical	90°	180°	270°
80′	33'-0" (10.1)	2,500 (1,900)	8,600 (6,600)	14,900 (11,400)	21,100 (16,100)	3,300 (3,000)	11,700 (10,600)	20,100 (18,200)	28,500 (25,900)
100′	40'-0" (12.2)	4,500 (3,500)	16,300 (12,500)	28,000 (21,400)	39,700 (30,400)	6,100 (5,500)	21,900 (20,000)	37,700 (34,200)	53,600 (48,600)
125′	50'-0" (15.2)	8,500 (6,500)	31,000 (23,700)	52,900 (40,500)	75,000 (57,400)	11,400 (10,300)	41,400 (37,600)	71,400 (64,800)	101,400 (92,000)

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SIDE BY SIDE COMPARISON

	POWERSTACKER CONVEYOR	PINNACLE CONVEYOR		CUBIC	CUBIC YARDS - PINNAC	CUBIC YARDS - PINNACLE VS. POWERSTA	CUBIC YARDS - PINNACLE VS. POWERSTACKER STOCKPILE
Tons Per Hour (TPH)	Up to 1,500	Up to 1,200	Con	veyor	veyor	veyor Stockpile Volume	veyor Stockpile Volume in Cubic Yards (m ³)
Belt Widths (inches)	30, 36, 42, 48	30, 36, 42	80' PC		Conical 2.500 (1.900)	Conical 90° 2.500 (1.900) 8.600 (6.600)	Conical 90° 180° 2,500 (1,900) 8,600 (6,600) 14,900 (11,400)
andard Lengths (feet)	95, 110, 125, 150	80, 100, 125	100'PC		4,500 (3,500)	4.500 (3.500) 16.300 (12.500)	4,500 (3,500) 16,300 (12,500) 28,000 (21,400)
elt Speed (FPM)	400	350	125' PC		8,500 (6,500)	8,500 (6,500) 31,000 (23,700)	8.500 (6.500) 31.000 (23.700) 52.900 (40.500)
line	18°	22°	95' PS	2,3	300 (1,800)	300 (1,800) 9,600 (7,300)	300 (1.800) 9.600 (7.300) 16.900 (12.900)
DNVEYOR SPLICE OPTION	S		110' PS	3,500 (2	2,700)	2,700) 14,500 (11,100)	2,700) 14,500 (11,100) 25,600 (19,600)
3olt Splice	_	•	125' PS	4,900 (3,700)) 20.800 (16.000)) 20.800 (16.000) 36.700 (28.100)
lanual Fold	_	\bigcirc	150' PS	8,200 (6,300)		35.000 (26.800)	35.000 (26.800) 61.900 (47.300)
Power Fold	•	\bigcirc	тс	ONS - PINNACLE	v	VS. POWERSTACKE	VS. POWERSTACKER STOCKPILE COM
INDERCARRIAGE OPTIONS	н.		Conveyor			Stockpile Volu	Stockpile Volume in Tons (MT)
Manual Raise Undercarriage	_		Length	Conical		90°	90° 180°
Hydraulic Raise Undercarriage		\bigcirc	80' PC	3,300 (3,000)		11,700 (10,600)	11,700 (10,600) 20,100 (18,200)
			100' PC	6,100 (5,500)		21,900 (20,000)	21,900 (20,000) 37,700 (34,200)
D Axle		\bigcirc	125' PC	11,400 (10,300)		41,400 (37,600)	41,400 (37,600) 71,400 (64,800)
TP Axle	_	\bigcirc	95' PS	3,100 (2,800)		13,000 (11,800)	13,000 (11,800) 22,800 (20,700)
ower Radial Travel		\bigcirc	110′ PS	4,700 (4,300)		19,600 (17,800)	19,600 (17,800) 34,500 (31,300)
		\bigcirc	125' PS	6,700 (6,100)		28,100 (25,500)	28,100 (25,500) 49,600 (45,000)
		\bigcirc	150′ PS	11,100 (10,100)		47,300 (42,900)	47,300 (42,900) 83,500 (75,700)
		\bigcirc	Assumptions ba	nsed on aggregate which	J	has a 37° angle of repose	has a 37° angle of repose and 100 PCF (1.6 t/m3)
ADDITIONAL OPTIONS							
5 ft. Radial Receiving Hopper		\bigcirc					
Rock Box	\bigcirc	\bigcirc					
5th Wheel Hitch		0					
Brakes/Lights/Mudflaps		\bigcirc					
Tow Eye	•	\bigcirc					
Anchor Pivot Plate/Base		\bigcirc					



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)

FEATURES

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.







C/ PATENTED POWER FOLD







ALL WHEEL DRIVE



ONBOARD POWER

- **3-PLY CONVEYOR BELTING:** Larger size ores; rugged service.
- ANCHOR PIVOT PLATE: Maintains tail position during radial travel.
- EXTERRA® SFL DUAL BELT CLEANER: Primary and secondary blades on one pole.
- ALL WHEEL DRIVE: Dependability in low pressure soils.
- AUTO GREASERS: Program to automatically discharge grease.
- IMPACT ROLLS: Protect belt in load zones.



EXTERRA® SFL DUAL BELT CLEANER



- 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.
- ONBOARD POWER: Self-contained diesel engine.
- **RECEIVING HOPPER:** Wider target for material transfer.





URATHON® RETURN ROLL

- **SEALING SYSTEM:** Prevent spillage between hopper skirting and belt.
- SONICSCOUT[™] MATERIAL SENSOR: Detect material on belting.

SPECIFICATIONS

GENERAL SPECS				
Tons Per Hour (TPH): Up to 1,500	Belt Widths (inches) <mark>: Up to 48</mark>	Belt Speed (FPM): 400 Incline	Angle: 18°	
OPERATING DIMENSIONS	95′	110′	125′	150′
Conveyor Length (m)	95'-0" (29.	0) 110'-0" (33.5)	125'-0" (38.1)	150'-0" (45.7)
Conveyor Ground Length (m)	88'-4" (26.	9) 102'-0"(31.1)	118'-11" (36.2)	140'-4" (42.8)
Raised Height to Center of Pulley (m)	32'-3" (9.8) 36'-4" (11.1)	41'-4" (12.6)	48'-0" (14.6)
Lowered Height to Center of Pulley (m)	13'-8" (4.2) 17'-2" (5.2)	17'-7" (5.4)	15'-2" (4.6)
Anchor Pivot to Center of Axle (m)	47'-7" (14.	5) 56'-3" (17.2)	60'-2" (18.3)	79′-6″ (24.1)
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.	5) 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 (8,05	19,940 (9,044)	33,000 (14,969)	34,200 (15,513)
Weight at Kingpin - 36" Belt Width (kg)	4,000 (1,81	4) 3,060 (1,388)	3,500 (1,588)	10,200 (4,627)
MAXIMUM STOCKPILE CAPACITIE	S (MANUAL PILES) ASSUMPTIONS	BASED ON MATERIAL WHICH HAS A	37° ANGLE OF REPOSE AND 100 I	PCF (1.6 t/m ³) MATERIAL DENSITY.

Conveyor	Stockpile Height ft x in (m)	Stockpile Volume in Cubic Yards (m ³)				Stockpile Volume in Tons (MT)			
Length		Conical	90°	180°	270°	Conical	90°	180°	270°
95′	32'-0" (9.8)	2,300 (1,800)	9,600 (7,300)	16,900 (12,900)	24,200 (18,500)	3,100 (2,800)	13,000 (11,800)	22,800 (20,700)	32,700 (29,700)
110′	37'-0" (11.3)	3,500 (2,700)	14,500 (11,100)	25,600 (19,600)	36,600 (28,000)	4,700 (4,300)	19,600 (17,800)	34,500 (31,300)	49,400 (44,800)
125′	42'-0" (12.8)	4,900 (3,700)	20,800 (16,000)	36,700 (28,100)	52,600 (40,200)	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,000 (64,400)
150′	49'-0" (14.9)	8,200 (6,300)	35,000 (26,800)	61,900 (47,300)	88,700 (67,800)	11,100 (10,100)	47,300 (42,900)	83,500 (75,700)	119,700 (108,600)

SIDE BY SIDE COMPARISON

	POWERSTACKER CONVEYOR	PINNACLE CONVEYOR	CU	BIC	BIC YARDS - PINNAC	BIC YARDS - PINNACLE VS. POWERSTAG	BIC YARDS - PINNACLE VS. POWERSTACKER STOCKPILE
Tons Per Hour (TPH)	Up to 1,500	Up to 1,200	Conveyor			Stockpile Volume	Stockpile Volume in Cubic Yards (m ³)
Belt Widths (inches)	30, 36, 42, 48	30, 36, 42	80'PC		Conical	Conical 90°	Conical 90° 180° 2 500 (1 900) 8 600 (6 600) 14 900 (11 400)
Standard Lengths (feet)	95, 110, 125, 150	80, 100, 125	100'PC		4 500 (3 500)	4 500 (3 500) 16 300 (12 500)	4 500 (3 500) 16 300 (12 500) 28 000 (21 400)
Belt Speed (FPM)	400	350	125' PC		8 500 (6 500)	8 500 (6 500) 31 000 (23 700)	8 500 (5,500) 31 000 (23 700) 52 900 (40 500)
Incline	18°	22°	05' PS	2 30	0 (0,500)	0 (1,800) 9,600 (23,700)	0 (1800) 0 600 (7300) 16 900 (12900)
CONVEYOR SPLICE OPTION	S		95 F 5	2,500 (1,0	(00)	(00) <u>9,000 (7,300)</u>	(100) 9,000 (7,500) 10,900 (12,900) (10) 25,600 (12,900)
Bolt Splice	_	•	125/06	5,500 (2,700)		14,300 (11,100)	14,500 (11,100) 25,600 (19,600)
Manual Fold	_	\bigcirc	125 PS	4,900 (3,700)		20,800 (16,000)	20,800 (16,000) 36,700 (28,100)
Power Fold		\bigcirc	150° PS	8,200 (6,300)		35,000 (26,800)	35,000 (26,800) 61,900 (47,300)
			TO	ONS - PINNACLE V	/	/S. POWERSTACKEI	/S. POWERSTACKER STOCKPILE COM
Manuel Drive Understring			Length	Conical		90°	90° 180°
Manual Raise Undercarriage	_		80' PC	3,300 (3,000)		11,700 (10,600)	11,700 (10,600) 20,100 (18,200)
Hydraulic Raise Undercarriage		\bigcirc	100' PC	6,100 (5,500)		21,900 (20,000)	21,900 (20,000) 37,700 (34,200)
AXLE OPTIONS		\sim	125' PC	11,400 (10,300)		41,400 (37,600)	41,400 (37,600) 71,400 (64,800)
FD Axle	•	\bigcirc	95' PS	3,100 (2,800)		13,000 (11,800)	13,000 (11,800) 22,800 (20,700)
XTP Axle	-	0	110′ PS	4,700 (4,300)		19,600 (17,800)	19,600 (17,800) 34,500 (31,300)
Power Radial Travel	•	\bigcirc	125' PS	6,700 (6,100)		28,100 (25,500)	28,100 (25,500) 49,600 (45,000)
LANDING LEGS OPTIONS			150′ PS	11,100 (10,100)		47,300 (42,900)	47,300 (42,900) 83,500 (75,700)
Slide Tube		\bigcirc	Assumptions ba	nsed on aggregate which	h	as a 37° angle of repose	as a 37° angle of repose and 100 PCF (1.6 t/m3)
Crank Down	•	\bigcirc	-			۳.	5.
ADDITIONAL OPTIONS							
5 ft. Radial Receiving Hopper	•	\bigcirc					
Rock Box	\bigcirc	\bigcirc					
5th Wheel Hitch		\bigcirc					
Brakes/Lights/Mudflaps	•	\bigcirc					
Tow Eye	•	\bigcirc					
Anchor Pivot Plate/Base		\bigcirc					



PORTABLE RADIAL STACKING CONVEYOR

50' / 60' / 80' / 95' / 100' / 110' / 125' / 150'

- **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



MANUAL FOLD TOP



AUTO GREASER

- HEAVY DUTY UNDERCARRIAGE
- FD AXLE
- FIFTH WHEEL HITCH
- CHEVRON® PULLEY
- RADIAL TRAVEL
- TOWING EYE
- BELT SCALE
- NAVIGATOR® RETURN TRAINER









HYDRAULIC RAISE

- MOXIE® ROLLS
- URATHON[®] RETURN ROLLS
- BELTING UPGRADE
- MANUAL TOP FOLD
- POWER TOP FOLD
- POWER TRAVEL
- EXTERRA® PRIMARY BELT CLEANER
- EXTERRA® SFL DUAL BELT CLEANER



ANCHOR PIVOT PLATE

- RADIAL RECEIVING HOPPER
- HYDRAULIC AXLE JACKS
- ANCHOR PIVOT PLATE
- AIR BRAKE PACKAGE
- AUTO GREASER
- HYDRAULIC RAISE
- LANDING GEAR
- IMPACT BED



- SWIVEL WHEELS FOR ROAD/RADIAL
- LIGHT PACKAGE
- **TANK HEATER**

SPECIFICATIONS

GENERAL SPECS								
Tons Per Hour (TPH): Up to 1,200	Belt Widths (inches): Up to 42	Belt Spee	ed (FPM): <mark>400</mark>	Incline Angle:	18°			
OPERATING DIMENSIONS	50′	60′	80′	95′	100′	110′	125′	150′
Conveyor Length (m)	50' -0" (15.2)	60'-0" (18.2)	80'-0" (24.4)	95′-0″ (29.0)	100'-0" (30.4)	110′-0″ (33.5)	125'-0" (38.1)	150′-0″ (45.7)
Conveyor Ground Length (m)	45′-9″ (14.0)	55'-2" (16.8)	74'-4" (22.7)	89'-0" (27.1)	93'-0" (28.5)	102'-0" (31.1)	116'-2" (35.4)	139′ -9″ (42.6)
Raised Height to Center of Pulley (m)	17'-11" (5.5)	21'-0" (6.4)	28'-1" (8.3)	33'-0" (10.1)	35'-4" (10.8)	36'-0" (11.0)	40'-11" (12.2)	49'-6" (15.1)
Lowered Height to Center of Pulley (m)	12'-5" (3.8)	12'-5" (3.8)	14'-6" (4.3)	14'-0" (4.2)	13'-6" (4.1)	17'-0" (5.2)	19'-5" (5.9)	17'-11" (5.5)
Anchor Pivot to Center of Axle (m)	25'-5" (7.8)	31'-2" (9.5)	39'-9" (12.1)	48'-4" (14.6)	51'-5" (15.6)	56'-7" (16.9)	60'-2" (18.4)	77′-3″ (23.6)
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	MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m ³) MATERIAL DENSITY.											
Conveyor	Stockpile Height	Stockpile Volume in Cubic Yards (m³)				Stockpile Volume in Tons (MT)						
Length	ft x in (m)	Conical	90°	180°	270°	Conical	90°	180°	270°			
50′	18'-6" (5.7)	430 (330)	1,700 (1,300)	2,900 (2,200)	4,200 (3,200)	580 (530)	2,300 (2,100)	4,000 (3,600)	5,600 (5,100)			
60′	21'-6" (6.6)	680 (520)	2,700 (2,100)	4,800 (3,700)	6,800 (5,200)	920 (840)	3,700 (3,400)	6,400 (5,800)	9,200 (8,300)			
80′	28'-0" (8.5)	1,500 (1,200)	6,000 (4,600)	10,500 (8,000)	15,000 (11,500)	2,000 (1,800)	8,100 (7,300)	14,200 (13,000)	20,200 (18,300)			
95′	32'-0" (9.8)	2,300 (1,800)	9,600 (7,300)	16,900 (12,900)	24,200 (18,500)	3,100 (2,800)	13,000 (11,800)	22,800 (20,700)	32,700 (29,700)			
100′	34'-0" (10.4)	2,700 (2,100)	11,100 (8,500)	19,500 (14,900)	28,600 (21,400)	3,600 (3,300)	15,000 (13,600)	26,400 (23,900)	38,000 (34,500)			
110′	37'-0"(11.3)	3,500 (2,700)	14,500 (11,100)	25,600 (19,600)	36,600 (28,000)	4,700 (4,300)	19,600 (17,800)	34,500 (31,300)	49,400 (44,800)			
125′	42'-0" (12.8)	4,900 (3,700)	20,800 (15,900)	36,700 (28,100)	52,600 (40,200)	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,100 (64,500)			
150′	49'-0" (14.9)	8,200 (6,300)	35,000 (26,800)	61,900 (47,300)	88,700 (67,800)	11,100 (10,100)	47,300 (42,900)	83,500 (75,700)	119,700 (108,600)			

PHOTO GALLERY



Superior Industries / © 07.2016



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.

HIGHLIGHTS



- 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)

Ideal for moving material in high capacity applications.

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
- CROSSOVER 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



PATENTED FB[®] UNDERCARRIAGE



FEATURES AND OPTIONS



WALKWAY



WEIGHTED TAKE-UP



SPECIFICATIONS

GENERAL SPECS

Tons Per Hour	r (TPH): Up to 8,000	Belt Widths (inch	nes): Up to 96	Incline Angle: 18°								
MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m ³) MATERIAL DENSITY.												
Conveyor	Stockpile Height		Stockpile Volume	in Cubic Yards (m ³)			Stockpile Volu	me in Tons (MT)				
Length	ft x in (m)	Conical	90°	180°	270°	Conical	90°	180°	270°			
125′	42'-0" (12.8)	4,900 (3,700)	20,800 (15,900)	36,700 (28,100)	52,600 (40,200)	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,100 (64,500)			
150′	49'-0" (14.9)	8,200 (6,300)	35,000 (26,800)	61,900 (47,300)	88,700 (67,800)	11,100 (10,100)	47,300 (42,900)	83,500 (75,700)	119,700 (108,600)			
180′	59'-0" (18.0)	13,000 (10,600)	59,200 (45,300)	104,600 (80,000)	150,000 (114,700)	18,600 (16,900)	80,000 (72,600)	141,200 (128,100)	202,500 (183,700)			
200′	65'-0" (19.8)	18,600 (14,200)	80,300 (61,400)	141,900 (108,800)	203,600 (155,700)	25,100 (22,800)	108,300 (98,200)	191,600 (173,800)	274,900 (249,400)			

PHOTO GALLERY



Superior Industries / © 07.2016



GEOTREK® CONVEYOR

42" x 80'

- 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.

FEATURES





C/ PROPORTIONAL TRACK DRIVE

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





D/ CONTAINERIZED

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

TRUSS FRAME: Designed to be heavy enough to handle the job but light-

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

OPERATION MODE ISHOWN WITH TRUSS FRAME

CONTAINER/TRANSPORT MODE



SPECIFICATIONS

CONVEYOR DIMENSIONS		77′	
Conveyor Length ft (m)		77' -0" (23.4)	
Conveyor Ground Length ft (m)		65' -0" (19.8)	
Raised Height to Center of Pulley ft (m)		32' -8" (10.0)	
Lowered Height to Center of Pulley ft (m)		6' -5″ (2.0)	
Transport Length ft (m)		38' -9" (11.9)	
Transport Height ft (m)		8' -0″ (2.4)	
Transport Width ft (m)		7' -6″ (2.3)	
GEOTREK® CONVEYOR DIMS	MAXIMUM STOCKPILE HEIGHT (M)	MAXIMUM CONICAL STOCKPILE CAPACITY CUBIC YARD (M3)	TONS BASED ON 100 PCF TONS (MT)
77'-0″	34'-0" (10.4)	2700 (2,064)	3700 (3,356)

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

PHOTO GALLERY



HOW IT WORKS

- 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.


TRAILBLAZER[®] CONVEYOR

36″ / 42″

- 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

OPERATING DIMENSIONS	36″ BW	42″ BW
Feed Height to Hopper (m)	4'-2" (1.3)	4'-2" (1.3)
Discharge Height to Center of Head Pulley (m)	12'-6" (3.8)	12'-6" (3.8)
Conveyor Length (m)	500'-0" (152.4)	500'-0" (152.4)
Tons per Hour (tonnes per hour)	1,000 (907)	1,500 (1,360)
TRAVEL DIMENSIONS		
Travel Length (m)	83'-3" (25.4)	86'-7" (26.4)
Travel Height (m)	14'-0" (4.3)	14'-0" (4.3)
Travel Width (m)	11'-4" (3.5)	11′-10″ (3.6)
Weight at Axle (kg)	41,500 (18,824)	47,500 (21,545)
Weight at Kingpin (kg)	28,000 (12,700)	40,000 (18,143)











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ZIPLINE[™] CONVEYOR

30" / 36" / 42"

- 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



PRE-ENGINEERED HEAD ASSEMBLY



PRE-ASSEMBLED TAIL SECTION



GALVANIZED STANDS AND INTERMEDIATES



TOOLLESS INTERMEDIATE INSTALLATION



STANDARD, OFF-THE-SHELF IDLERS



INTEGRATED RETURN IDLER BRACKETS





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OPTIONS



NAVIGATOR[®] RETURN TRAINER



SELF-ALIGNING TROUGHING IDLERS



MOXIE® ROLLS



EXTERRA® SFL DUAL BELT CLEANER











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SPECIFICATIONS

GENERAL SPECS

Tons Per Hour (TPH): Up to 1,500	Belt Widths (inches): Up to	42 Belt Speed (F	FPM): 400-450			
BELT WIDTHS	30	"	3	6″	42	2″
Max. Tons per Hour (tonnes/hour)	500 (453.6)	500 (453.6)	1,000 (907.1)	1,000 (907.1)	1,500 (1,360.7)	1,500 (1,360.7)
Max. Length at 6° Incline (m)	250'-0" (76.2)	500'-0" (152.4)	250'-0" (76.2)	400'-0" (121.9)	250'-0" (76.2)	350'-0" (106.7)
Max. Lift at 6° Incline (m)	30'-0" (9.9)	52'-6" (16.0)	27'-0" (8.2)	42'-0" (12.8)	22'-0" (6.7)	39'-0" (11.9)
Max Length at Flat (m)	500'-0" (152.4)	1,000′-0″ (304.8)	500'-0" (152.4)	1,000′ -0″ (304.8)	500'-0" (152.4)	1,000'-0" (304.8)
Max Lift at Flat (m)	10'-0" (3.9)	10'-0" (3.9)	10'-0" (3.9)	10'-0" (3.9)	10'-0" (3.9)	10'-0" (3.9)
Horsepower (kwh)	30HP (22.4)	50HP (37.3)	50HP (37.3)	75HP (56.0)	60HP (44.7)	100HP (74.6)
Belt Speed (m)	400'-0" (121.9)	400'-0" (121.9)	400'-0" (121.9)	400'-0" (121.9)	450'-0" (137.2)	450'-0" (137.2)

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-conveyor





TROUGHING IDLERS ATTACH WITH J-BOLTS





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OVERLAND CONVEYORS

24" - 72"

- 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

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/
- 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

PHOTO GALLERY



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OPERATING COST COMPARISON: CONVEYOR VS HAUL TRUCK



CONVEYOR

20°

ANGLE OF INCLINE

15°

HAUL TRUCK 55,000 50,000 45,000 40,000 POUNDS OF PM-10 EMISSIONS PER YEAR 35,000 30,000 25,000 20,000 15,000 10,000 5,000 **CONVEYOR**

0

ENVIRONMENTAL IMPACT

25°

30°

35°

5°

10°



SLIDE-PACTM AND SLIDE-STACTM CONVEYORS

60' / 70' / 80'

- 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			
		SLIDE-PAC CONVEYORS		SLIDE-STAC	CONVEYORS
OPERATING DIMENSIONS	60′	70′	80′	60′	70′
Conveyor Length (m)	60'-0" (18.3)	70′-0″ (21.3)	80′-0″ (24.4)	60′-0″ (18.3)	70'-0" (21.3)
Conveyor Ground Length (m)	58'-9" (18.0) to 59'-7" (18.2)	68'-10" (21.8) to 69'-7" (21.2)	79'-1" (24.1) to 79'-7" (24.3)	59'-8" (18.2)	66'-1" (20.1)
Raised Height to Center of Pulley (m)	Varies	Varies	Varies	Varies	Varies
Lowered Height to Center of Pulley (m)	Varies	Varies	Varies	Varies	Varies
TRAVEL DIMENSIONS					
Travel Length (m)	59'-8" (18.2)	73'-4" (22.3)	79′-8″ (24.2)	59′-0″ (18.0)	69'-0" (21.0)
Travel Height (m)	13'-6" (4.1)	13'-6" (4.1)	13'-6" (4.1)	13'-2" (4.0)	13'-5" (4.0)
Travel Width (m)	10'-1" (3.1)	9'-11" (3.0)	9'-11" (3.0)	11'-0" (3.3)	12'-0" (3.6)
Kingpin to Axle (m)	44'-9" (13.6)	54'-9" (16.6)	64'-9" (20.0)	37'-1" (11.3)	49'-2" (15.0)
Weight at Axle (kg)	19,000 (8,618)	21,000 (9,525)	22,000 (9,979)	24,700 (11,203)	28,300 (12,836)
Weight at Kingpin (kg)	10,000 (4,535)	12,700 (5,760)	13,900 (6,304)	6,800 (3,084)	11,200 (5,080)



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



- ADJUSTABLE HEIGHT DISCHARGE
- RADIAL HOPPER
- MOXIE® ROLLS
- IMPACT IDLERS



- BELT COVERS
- AUTO GREASERS

See video at bit.ly/slide-pac



JUMP CONVEYORS

50' / 60' / 80' / 100'

- 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	50′	60′	80′	100′
Conveyor Length (m)	50'-0" (15.2)	60′-0″ (18.3)	80'-0" (24.4)	100'-0" (30.5)
Conveyor Ground Length (m)	45' -10" (14.0)	55' -5″ (16.9)	79' -9″ (24.4)	94'-9" (28.9)
Raised Height to Center of Pulley (m)	12'-9" (3.9)	12'-9" (3.9)	10' -1" (3.0)	11'-6" (3.5)
Lowered Height to Center of Pulley (m)	6' -7″ (2.0)	6' -11" (2.1)	14' -1" (4.2)	7'-0" (2.4)
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′-0″ (2.7)	9′-1″ (2.7)	9′-0″ (2.7)	13'-10" (4.2)
Travel Width - 36" Belt Width (m)	9'-2" (2.8)	9'-3" (2.8); Dual 10'-1" (3.0)	9′-1″(2.7)	9'-5" (2.8); 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)



- EXTERRA® PRIMARY BELT CLEANER
- 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



ROAD PORTABLE

- URATHON® RETURN ROLL
- IMPACT IDLERS
- BELT COVERS
- AUTO GREASERS
- BELT SCALE



STACKABLE CONVEYORS

50′ / 60′

- 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







HEAD SUPPORTS

- 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

PHOTO GALLERY













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SPECIFICATIONS

CONVEYOR	STACKABLE	STACKABLE PLUS	
Radial Receiving Hopper	\bigcirc	0	
Exterra® Belt Cleaner	\bigcirc	\bigcirc	
Backstop	\bigcirc	\bigcirc	
3-Ply Belt Upgrade	\bigcirc	\bigcirc	
Vulcanized Splice	\bigcirc	\bigcirc	
Head and Tail Supports	\bigcirc	\bigcirc	
Heavier Truss	_	•	
Truss Bends for Low Profile Tail	-	\bigcirc	
Undercarriage with Swivel Box	_	\bigcirc	
Tow Eye	_	\bigcirc	
Anchor Pivot Plate	_	\bigcirc	
STANDARD 🔿 AVAILABLE — N/A			

GENERAL SPECS

Tons Per Hour (TPH): Up to 850	Belt Widths (inches): Up to 48	Incline Angle: 18	0			
CONVEYOR	50′	60′	50' PLUS	60' PLUS	50' PLUS W/ BEND	60' PLUS W/ BEND
Conveyor Length (m)	50'-0" (15.2)	60'-0" (18.3)	50'-0" (15.2)	60'-0" (18.3)	50'-0" (15.2)	60'-0" (18.3)
Conveyor Ground Length (m)	45'-8" (13.9)	55'-2" (16.8)	49'-2" (15.0)	55'-10" (17.0)	51'-4" (15.6)	61'-5" (18.7)
Raised Height to Center of Pulley (m)	Up to 17'-11" (5.5)	Up to 21'-0" (6.4)	16'-7" (5.0)	19'-8" (6.0)	15'-5" (4.7)	18'-6" (5.6)
Lowered Height to Center of Pulley (m)	12'-5" (3.8)	12'-5" (3.8)	9'-0" (2.7)	7'-11" (2.4)	7'-3" (2.2)	9'-0" (2.7)
Anchor Pivot to Center of Axle (m)	25'-5" (7.8)	31'-2" (9.5)	26'-10" (8.2)	32'-9" (10.0)	28'-2" (8.6)	38'-10" (11.8)
STACKABLE & STACKABLE PLUS CO	ONVEYOR MAX. STO	OCKPILE HEIGHT (M)	MAX. STOCKPI	LE CAPACITY CUBIC YARD (N	13) 18° STRAIGH	INCLINE TONS (MT)
50'-0"		18' -6" (5.7)		430 (328)	!	580 (526)
60'-0"		21'-6" (6.6)		680 (519)	9	920 (834)
STACKABLE PLUS CONVEYOR W/ B	END MAX. STO	OCKPILE HEIGHT (M)	MAX. STOCKPI	LE CAPACITY CUBIC YARD (N	13) 19° INCLINE	W/ BEND TONS (MT)
50'-0"		19'-6" (6.0)		490 (374)	(560 (598)
60'-0"		22'-6" (6.9)		780 (596)	1	100 (997)



RAZERTAIL[®] **TRUCK UNLOADER**

48″ / 72″

- 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.

FEATURES AND OPTIONS



ONBOARD POWER CUTS RELIANCE ON ELECTRICITY



AREA LIGHTING FOR CLEAR SIGHTLINES



HYDRAULIC ONBOARD TRUCK RAMPS



SINGLE OR DUAL OPERATOR PLATFORM



CYLINDER RODS PROTECTED DURING OPERATION



UHMW PLATES CONTAIN MATERIAL TO BELT



BOLI ON HOPPER GRATIN



ADJUSTABLE FLOW GATE CONTROLS RATES



WRAP DRIVE PREVENTS BELT SLIPPAGE

SPECIFICATIONS

OPERATING DIMENSIONS	48″	48" W/ ADJ. DISCHARGE	72″	72″ W/ ADJ. DISCHARGE	72" HAUL TRUCK
Tons Per Hour (tonnes/hour)	1,000 (907)	1,000 (907)	1,500 (1,360)	1,500 (1,360)	2,000 (1,814)
Maximum Material Size (mm)	4" Minus (101)	4" Minus (101)	4" Minus (101)	4" Minus (101)	8" Minus (203)
Cycle Time per Minute (tonnes)	2.5 for 30 Tons (27)	2.5 for 30 Tons (27)	2.5 for 30 Tons (27)	2.5 for 30 Tons (27)	2.5 for 40 Tons (36)
Earth Ramp Height (mm)	32" (812)	32" (812)	32" (812)	32" (812)	43" (1,092)
Discharge Height (m)	6-11" (1.9)	7'-2" (2.2) - 11'-5" (3.5)	8'-1" (2.4) - 12'-8" (3.8)	8'1" (2.4) - 12'-8" (3.8)	6'-9" (2.0) - 10'-3" (3.1)
Conveyor Length (m)	53' -6" (16.3)	63' -0″ (19.2)	78' -7" (24.0)	67' -6" (20.5)	74' -9″ (22.8)
Conveyor Width (m)	6' -4" (2.0)	6' -4" (2.0)	7' -4" (2.2)	7' -8" (2.3)	9' -4" (2.8)
Load Ramp Width (m)	10'-2" (3.0)	10'-2" (3.0)	10'-4" (3.1)	10'-0" (3.0)	7′-6″ (2.3)
TRAVEL DIMENSIONS					
Travel Length (m)	52' -4" (16.0)	46'-8" (14.2)	52'-6" (16.0)	52'-6" (16.0)	74' -2" (22.6)
Travel Height (m)	10'-2" (3.0)	13'-1" (4.0)	12'-6" (3.8)	12'-8" (3.9)	13' -11" (4.2)
Travel Width (m)	12' -1" (3.7)	11'-1" (3.3)	11'-10" (3.6)	11'-10" (3.6)	13' -8" (4.1)
Weight at Axle (kg)	15,700 (7,121) / 19,800 (8,981)	19,500 (8,845) / 23,700 (10,750)	27,000 (12,246)	26,400 (11,974) / 29,000 (13,154)	48,800 (22,135)
Weight at Kingpin (kg)	12,200 (5,533) / 16,300 (7,393)	19,100 (8,663) / 19,600 (8,890)	18,000 (8,164)	19,400 (8,799) / 24,000 (10,886)	39,900 (18,098)
Axles	Single	Tandem	Tandem	Tandem	Tridem

See video at

bit.ly/razertail

APPLICATION PHOTOS



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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

APPLICATIONS

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



bit.ly/razerlink

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



TUNNEL RECLAIM

8' / 10' / 12'

- 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



DETERMINING "X" WIDTH										
Tunnel Width (m)	30″ (cm)	Available E 36" (cm)	Belt Widths 42" (cm)	48″ (cm)						
8′-0″ (2.7)	18" (45)	12" (30)	6" (15)	N/A						
10'-0" (3.3)	42" (106)	36" (91)	30″ (76)	24" (61)						
12'-0" (3.9)	66" (167)	60" (152)	54" (137)	48" (121)						

FEEDER OPTIONS



PHOTO GALLERY







FEATURES

- APPLICATION SPECIFIC
- PORTABLE VERSION AVAILABLE
- SHIP TO SITE PREASSEMBLED
- BELT FEEDERS
- VIBRATING PAN FEEDER
- **CLAM GATE FEEDER**





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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 heavyduty 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.





DUST COLLECTION SYSTEM



ENVIRONMENTAL OPTIONS



EPOXY STEEL COATING





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

14

- 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









SLIDING TARP STINGER COVER







SHIP LOADING







BARGE LOADING











UNLOADING APPLICATIONS



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STOCKPILE CAPACITIES

MAXIMUM	MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m ³) MATERIAL DENSITY.											
Conveyor	Stockpile Height		Stockpile Volume in Cubic Yards (m³)			Stockpile Volume in Tons (MT)						
Length	ft x in (m)	Conical	90°	180°	270°	Conical	90°	180°	270°			
110 TSFD	39'-0" (11.8)	4,900 (3,200)	19,700 (15,000)	34,400 (26,300)	49,200 (37,600)	6,600 (6,000)	26,600 (24,100)	46,500 (42,200)	66,500 (60,300)			
130 TSFD	42'-0" (12.8)	6,200 (4,700)	27,300 (20,900)	48,300 (37,000)	69,300 (53,000)	8,400 (7,600)	36,800 (33,400)	65,200 (59,100)	93,600 (84,900)			
130 TSSA	45'-6" (13.8)	6,700 (5,100)	27,700 (21,200)	48,700 (37,200)	69,700 (53,300)	9,000 (8,200)	37,400 (34,000)	65,800 (59,600)	94,200 (85,500)			
136 TSFD-LP	41'-6" (12.6)	6,900 (5,300)	30,000 (23,000)	53,300 (40,800)	76,500 (58,500)	9,300 (8,400)	40,600 (36,800)	71,900 (65,200)	103,200 (93,600)			
150 TSFD	50'-0" (15.2)	9,300 (7,100)	41,000 (31,300)	72,600 (55,500)	104,300 (79,800)	12,600 (11,400)	55,300 (50,200)	98,100 (89,000)	140,800 (127,700)			
150 TSSA	50'-0" (15.2)	9,200 (7,000)	40,100 (30,700)	71,000 (54,300)	102,000 (78,000)	12,400 (11,200)	54,100 (49,000)	95,900 (87,000)	137,700 (124,900)			
158 TSFD-LP	47'-0" (14.3)	9,700 (7,400)	40,900 (31,300)	72,200 (55,200)	103,500 (79,100)	13,100 (11,900)	55,200 (50,100)	97,500 (88,400)	139,700 (126,800)			
170 TSSA	58'-0" (17.6)	12,900 (9,900)	56,100 (42,900)	99,300 (76,000)	142,400 (108,900)	17,500 (15,900)	75,800 (68,800)	134,000 (121,600)	192,300 (174,500)			
190 TSSA	66'-0" (20.1)	18,700 (14,300)	82,300 (63,000)	145,800 (111,500)	209,300 (160,000)	25,300 (23,000)	111,100 (100,800)	196,800 (178,500)	282,600 (256,400)			
72x190 TSPP	61'-0" (18.6)	16,700 (12,800)	75,700 (57,900)	134,800 (103,000)	193,800 (148,200)	22,500 (20,400)	102,200 (92,700)	181,600 (164,700)	261,600 (237,300)			

PHOTO GALLERY



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CONVEYOR INCLINE CHART



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

MAXIMUM BELT CAPACITIES - TPH (MT)

Trough	Surcharge			BELT	WIDTH		
Angle	Angle	18″ (m)	24″ (m)	30″ (m)	36″ (m)	42″ (m)	48″ (m)
	20°	50 (45)	96 (87)	157 (142)	230 (209)	320 (290)	430 (390)
20°	25°	56 (51)	108 (98)	175 (159)	260 (236)	360 (327)	480 (435)
	30°	63 (57)	120 (109)	195 (177)	290 (263)	400 (363)	530 (481)
	10°	-	102 (93)	167 (151)	248 (225)	344 (312)	457 (415)
35°	20°	-	122 (111)	200 (181)	295 (268)	408 (370)	540 (490)
55	25°	-	132 (120)	215 (195)	318 (288)	442 (401)	645 (585)
	30°	-	142 (129)	232 (210)	343 (311)	475 (431)	630 (572)
	5°	-	106 (96)	175 (159)	258 (234)	358 (325)	475 (431)
	10°	-	115 (104)	187 (170)	278 (252)	386 (350)	510 (463)
45°	20°	-	132 (120)	215 (195)	318 (288)	440 (399)	584 (530)
	25°	-	140 (127)	230 (209)	340 (308)	470 (426)	623 (565)
	30°	-	170 (154)	244 (221)	360 (327)	500 (454)	660 (599)

STOCKPILE CAPACITIES

MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m ³) MATERIAL DENSITY.									
Conveyor	Stockpile Height		Stockpile Volume	in Cubic Yards (m³)			Stockpile Volu	me in Tons (MT)	
Length	ft x in (m)	Conical	90°	180°	270°	Conical	90°	180°	270°
18° INCLIN	E								
50'-0"	18'-6" (5.7)	430 (330)	1,700 (1,300)	2,900 (2,200)	4,200 (3,200)	580 (530)	2,300 (2,100)	4,000 (3,600)	5,600 (5,100)
60'-0"	21'-6" (6.6)	680 (520)	2,700 (2,100)	4,800 (3,700)	6,800 (5,200)	920 (840)	3,700 (3,400)	6,400 (5,800)	9,200 (8,300)
80'-0"	28'-0" (8.5)	1,500 (1,200)	6,000 (4,600)	10,500 (8,000)	15,000 (11,500)	2,000 (1,800)	8,100 (7,300)	14,200 (13,000)	20,200 (18,300)
95'-0″	32'-0" (9.8)	2,300 (1,800)	9,600 (7,300)	16,900 (12,900)	24,200 (18,500)	3,100 (2,800)	13,000 (11,800)	22,800 (20,700)	32,700 (29,700)
100'-0"	34'-0" (10.4)	2,700 (2,100)	11,100 (8,500)	19,500 (14,900)	28,600 (21,400)	3,600 (3,300)	15,000 (13,600)	26,400 (23,900)	38,000 (34,500)
110'-0"	37'-0" (11.3)	3,500 (2,700)	14,500 (11,100)	25,600 (19,600)	36,600 (28,000)	4,700 (4,300)	19,600 (17,800)	34,500 (31,300)	49,400 (44,800)
125′-0″	42'-0" (12.8)	4,900 (3,700)	20,800 (15,900)	36,700 (28,100)	52,600 (40,200)	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,100 (64,500)
150'-0″	49'-0" (14.9)	8,200 (6,300)	35,000 (26,800)	61,900 (47,300)	88,700 (67,800)	11,100 (10,100)	47,300 (42,900)	83,500 (75,700)	119,700 (108,600)
180'-0"	59'-0" (18.0)	13,000 (10,600)	59,200 (45,300)	104,600 (80,000)	150,000 (114,700)	18,600 (16,900)	80,000 (72,600)	141,200 (128,100)	202,500 (183,700)
200'-0"	65'-0" (19.8)	18,600 (14,200)	80,300 (61,400)	141,900 (108,800)	203,600 (155,700)	25,100 (22,800)	108,300 (98,200)	191,600 (173,800)	274,900 (249,400)
110'TSFD	39'-0" (11.9)	4,900 (3,200)	19,700 (15,000)	34,400 (26,300)	49,200 (37,600)	6,600 (6,000)	26,600 (24,100)	46,500 (42,200)	66,500 (60,300)
130'TSFD	42'-0" (12.8)	6,200 (4,700)	27,300 (20,900)	48,300 (37,000)	69,300 (53,000)	8,400 (7,600)	36,800 (33,400)	65,200 (59,100)	93,600 (84,900)
130'TSSA	45'-6" (13.9)	6,700 (5,100)	27,700 (21,200)	48,700 (37,200)	69,700 (53,300)	9,000 (8,200)	37,400 (34,000)	65,800 (59,600)	94,200 (85,500)
136'TSFD-LP	41'-6" (12.7)	6,900 (5,300)	30,000 (23,000)	53,300 (40,800)	76,500 (58,500)	9,300 (8,400)	40,600 (36,800)	71,900 (65,200)	103,200 (93,600)
150'TSFD	50'-0" (15.2)	9,300 (7,100)	41,000 (31,300)	72,600 (55,500)	104,300 (79,800)	12,600 (11,400)	55,300 (50,200)	98,100 (89,000)	140,800 (127,700)
150'TSSA	50'-0" (15.2)	9,200 (7,000)	40,100 (30,700)	71,000 (54,300)	102,000 (78,000)	12,400 (11,200)	54,100 (49,000)	95,900 (87,000)	137,700 (124,900)
158 TSFD-LP	47'-0" (14.3)	9,700 (7,400)	40,900 (31,300)	72,200 (55,200)	103,500 (79,100)	13,100 (11,900)	55,200 (50,100)	97,500 (88,400)	139,700 (126,800)
170'TSSA	58'-0" (17.7)	12,900 (9,900)	56,100 (42,900)	99,300 (76,000)	142,400 (108,900)	17,500 (15,900)	75,800 (68,800)	134,000 (121,600)	192,300 (174,500)
190'TSSA	66'-0" (20.1)	18,700 (14,300)	82,300 (63,000)	145,800 (111,500)	209,300 (160,000)	25,300 (23,000)	111,100 (100,800)	196,800 (178,500)	282,600 (256,400)
72'x190'TSPP	61'-0" (18.6)	16,700 (12,800)	75,700 (57,900)	134,800 (103,000)	193,800 (148,200)	22,500 (20,400)	102,200 (92,700)	181,600 (164,700)	261,600 (237,300)
22° INCLIN	E								
80'-0"	33'-0" (10.1)	2,500 (1,900)	8,600 (6,600)	14,900 (11,400)	21,100 (16,100)	3,300 (3,000)	11,700 (10,600)	20,100 (18,200)	28,500 (25,900)
100'-0"	40'-0" (12.2)	4,500 (3,500)	16,300 (12,500)	28,000 (21,400)	39,700 (30,400)	6,100 (5,500)	21,900 (20,000)	37,700 (34,200)	53,600 (48,600)
125'-0"	50'-0" (15.2)	8,500 (6,500)	31,000 (23,700)	52,900 (40,500)	75,000 (57,400)	11,400 (10,300)	41,400 (37,600)	71,400 (64,800)	101,400 (92,000)

SUPERIOR COMPONENTS



CHEVRON® PULLEYS

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