



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.



A/ HYDRAULIC CONTROL CENTER



B/ PATENTED FD AXLE ASSEMBLY



C/ PATENTED POWER FOLD



ROAD TRAVEL MODE

OPTIONS



ALL WHEEL DRIVE



EXTERRA® SFL DUAL BELT CLEANER



SONICSCOUT™ MATERIAL SENSOR



ONBOARD POWER



RECEIVING HOPPER



URATHON® RETURN ROLL

- **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.

- **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.

- **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): Up to 48 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	95'	110'	125'	150'
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	95'	110'	125'	150'
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 MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 t/m³) MATERIAL DENSITY.

Conveyor Length	Stockpile Height ft x in (m)	Stockpile Volume in Cubic Yards (m³)				Stockpile Volume in Tons (MT)			
		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
Tons Per Hour (TPH)	Up to 1,500	Up to 1,200
Belt Widths (inches)	30, 36, 42, 48	30, 36, 42
Standard Lengths (feet)	95, 110, 125, 150	80, 100, 125
Belt Speed (FPM)	400	350
Incline	18°	22°

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	●	○

● STANDARD ○ AVAILABLE — N/A

CUBIC YARDS - PINNACLE VS. POWERSTACKER STOCKPILE COMPARISON

Conveyor Length	Stockpile Volume in Cubic Yards (m ³)			
	Conical	90°	180°	270°
80' PC	2,500 (1,900)	8,600 (6,600)	14,900 (11,400)	21,100 (16,100)
100' PC	4,500 (3,500)	16,300 (12,500)	28,000 (21,400)	39,700 (30,400)
125' PC	8,500 (6,500)	31,000 (23,700)	52,900 (40,500)	75,000 (57,400)
95' PS	2,300 (1,800)	9,600 (7,300)	16,900 (12,900)	24,200 (18,500)
110' PS	3,500 (2,700)	14,500 (11,100)	25,600 (19,600)	36,600 (28,000)
125' PS	4,900 (3,700)	20,800 (16,000)	36,700 (28,100)	52,600 (40,200)
150' PS	8,200 (6,300)	35,000 (26,800)	61,900 (47,300)	88,700 (67,800)

TONS - PINNACLE VS. POWERSTACKER STOCKPILE COMPARISON

Conveyor Length	Stockpile Volume in Tons (MT)			
	Conical	90°	180°	270°
80' PC	3,300 (3,000)	11,700 (10,600)	20,100 (18,200)	28,500 (25,900)
100' PC	6,100 (5,500)	21,900 (20,000)	37,700 (34,200)	53,600 (48,600)
125' PC	11,400 (10,300)	41,400 (37,600)	71,400 (64,800)	101,400 (92,000)
95' PS	3,100 (2,800)	13,000 (11,800)	22,800 (20,700)	32,700 (29,700)
110' PS	4,700 (4,300)	19,600 (17,800)	34,500 (31,300)	49,400 (44,800)
125' PS	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,000 (64,400)
150' PS	11,100 (10,100)	47,300 (42,900)	83,500 (75,700)	119,700 (108,600)

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