



MINE DUTY TELESTACKER[®] CONVEYOR

Stockpile up to 5,000 TPH

- With more than 1,050 units built to date, Superior is the **world's leading manufacturer** of radial telescopic conveyor technology. ■
- Committed to **structurally sound engineering and manufacturing**, which is vital for safety and endurance in harsh mining applications. ■
- No reliance on unpredictable third parties** when engineering, manufacturing, hydraulics, and electrical is all accomplished in-house. ■
- Construct **high volume, layered stockpiles** on limited footprints (up to 260,000 tons). ■

HIGHLIGHTS



1/ CHEVRON® PULLEY: Superior's patented v-shaped tail pulley deflects fugitive material, preventing material entrapment within the pulley's wings. This maintains the pulleys structural integrity and extends conveyor belt life.

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

3/ SUPERIOR IDLERS: Our popular rollers are designed with SpinGuard® Seal Technology to specially protect the idler's bearing from harmful fugitive material.

4/ PRIMARY & SECONDARY SCRAPERS: These sets of mine duty belt cleaners are installed on both the mainframe and stinger conveyors to shield the machinery from any damaging and wasteful carryback material.

5/ NAVIGATOR® RETURN TRAINER: Superior's patented self-aligning idler prevents belt misalignment in the stinger conveyor, which is common to conveyors constantly in motion.

6/ CAM ROLLERS: Patented center pivot, extra wide design equally supports the weight of the stinger conveyor across all rollers, which reduces stress to the conveyor frame.

7/ STINGER SAFETY STOPS: Engineered to protect your investment, these safety stops immediately react in the event of a stinger conveyor cable failure. They are designed to minimize any structural damage and contribute to a safe working environment.

8/ FB® UNDERCARRIAGE: Patented for maximum undercarriage support and the most rigid lateral stability. In addition, load sharing hydraulic cylinders further increase the structural support and safety. This design is unmatched in the industry.

9/ RAISE CYLINDERS: Used to raise and lower the radial stacker, they are specially designed for safety. An integrated counterbalance valve keeps the raise cylinders from lowering in the event of a hydraulic breakdown.

10/ FD AXLE: Another patented innovation, the fold down radial tires or tracks quickly transition the unit from linear to radial modes in literally seconds.

11/ INCREASE FLOTATION: Hydraulically powered tracks or high flotation tires improve mobility in mining applications where flotation and traction can be problematic.



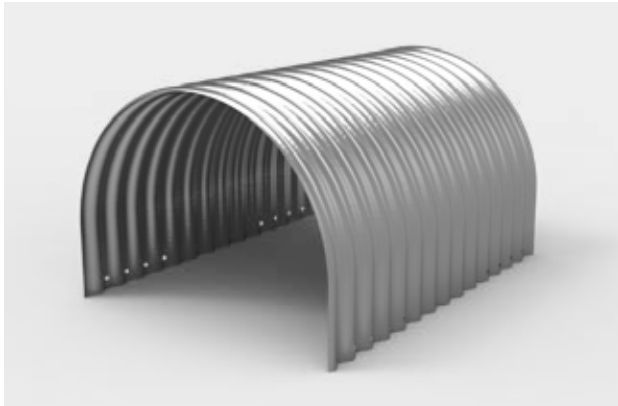
WALKWAY (ON MAIN CONVEYOR)



TRACKED MOBILE PIVOT BASE



MINE DUTY BELT CLEANERS



CONVEYOR COVERS



TRACKED FD AXLE



URATHON® RETURN ROLLS

- TOWING EYE
- WALKWAY
- MAINFRAME BELT COVERS
- STINGER CONVEYOR BELT COVERS
- FALK GEARBOXES
- TOSHIBA MOTORS
- MULTIPLE FINISHES
- HIGH FLOTATION TIRES
- POWERED TRACKS

- NON-POWERED TRACKS
- FD AXLE ASSEMBLY
- TRACKED MOBILE TUGGER
- NAVIGATOR® RETURN TRAINER
- SELF-ALIGNING IDLERS
- URATHON® RETURN ROLLS
- IMPACT IDLERS / BEDS
- MINE DUTY PULLEYS
- MINE DUTY BELT CLEANERS

- BELT SCALE
- E-STOP
- ZERO SPEED SWITCH
- BELT ALIGNMENT SWITCH
- MEDIUM VOLTAGE TRANSFORMER
- LIGHTING PACKAGES
- COLD WEATHER KIT
- WARM WEATHER KIT

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.



A/ PATENTED FB UNDERCARRIAGE



B/ STINGER SAFETY CATCH



C/ STINGER CROSS BRACING



D/ ROBUST TRUSS



E/ CAM ROLLERS

TSFD SPECIFICATIONS

OPERATING DIMENSIONS	110'	130'	150'
Conveyor Length (m)	110'-0" (33.5)	130'-0" (39.6)	150'-0" (45.7)
Highest Extended Discharge Height (m)	41'-3" (12.6)	45'-5" (13.8)	52'-9" (16.1)
Lowest Extended Discharge Height (m)	18'-10" (5.7)	19'-4" (5.9)	19'-6" (5.9)
Highest Retracted Discharge Height (m)	25'-0" (7.6)	27'-3" (8.3)	30'-10" (9.4)
Lowest Retracted Discharge Height (m)	11'-8" (3.5)	13'-1" (4.0)	12'-6" (3.8)
Anchor Pivot to Center of Axle (m)	39'-8" (12.1)	49'-0" (15.0)	54'-9" (16.7)

TSXTP 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)

AXLE OPTIONS



PATENTED FD AXLE WITH TRACKS



XTP SWING AXLE

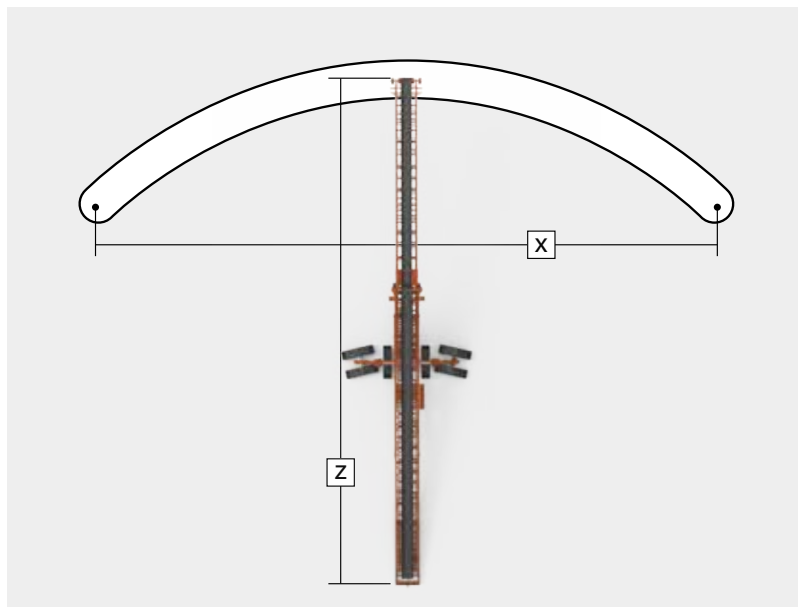
STOCKPILE CAPACITIES

MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES) ASSUMPTIONS BASED ON MATERIAL WHICH HAS A 37° ANGLE OF REPOSE AND 100 PCF (1.6 ± M³) MATERIAL DENSITY.

Conveyor Length	Stockpile Height ft x in (m)	Stockpile Volume in Cubic Yards (m ³)				Stockpile Volume in Tons (MT)			
		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 TSXTP	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)
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 TSXTP	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)
170 TSXTP	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 TSXTP	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)
190 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)

*TSSP: Custom engineered pit portable axle assembly.

WINDROW WIDTH



Z ft (m)	X** ft (m)
110' (33.5)	190' (57.9)
130' (39.6)	225' (68.5)
150' (45.7)	260' (79.2)
170' (51.8)	295' (89.9)
190' (57.9)	330' (100.5)

**Center of stockpile to center of stockpile.

Note: 120° of arc.