



# TELESTACKER® CONVEYOR

Defeat Material Segregation with the World's Best Selling Telescopic Conveyor



## AVOID PENALTIES WITH IN-SPEC STOCKPILES

- 01/** Radial travel blends material better than conical piles.
- 02/** Variable height keeps proper mix of coarse and fine materials.
- 03/** Adjustable discharge height eliminates material overrun.
- 04/** Windrow stockpiling blends fine, medium coarse materials.
- 05/** No need to blend material with loader during reclamation.
- 06/** Programmable automation effortlessly controls motion.



## KING OF THE STOCKPILES

With encouragement from our founder, two young Superior engineers were tasked to advance telescopic radial stacking conveyors in the 1990s. At the time, the technology was semi-portable at best. Years of research and development produced the first TeleStacker® Conveyor in 1997 and by 2000 the brand quickly became the preferred standard for bulk handlers around the world. With 1,350 units manufactured and counting, our pursuit of excellence continues as we work together to defeat costly material segregation, accelerate road and pit portability and wipe out time-consuming maintenance.

	110'	130'	136'	150'	158'	170'	190'	210'
500 TPH	36"	30"		30"		36"	36"	36"
800 TPH	36"	36"	36"	36"	36"	36"	36"	36"
1,000 TPH	36"	36"	36"	36"	36"	36"	36"	36"
1,200 TPH	42"	42"		42"		42"	42"	
1,500 TPH	42"	42"		42"		42"	42"	
1,800 TPH				48"		48"	48"	
2,400 TPH				48"		48"	48"	
3,200 TPH				54"				
4,000 TPH				60"		60"	60"	
5,000 TPH							72"	



**01/ TOW EYE**

Heavier duty design for years of dependable durability.

**02/ CHEVRON® PULLEY**

Ejects fugitive material for longer lasting pulleys and belting.

**03/ SEALING SYSTEM**

Maintains tight seal between belt and skirting for spillage free load zone.

**04/ SONICSCOUT™ SENSOR**

If no material is present, automation is paused until action is taken.

**05/ EXTERRA® SFL DUAL BELT CLEANER**

Proper automatic tension maintained for life of primary and secondary blades.

**06/ MATERIAL LEVEL SENSOR**

Contact free sensor is not affected by dust or debris.

**07/ NAVIGATOR® RETURN TRAINER**

Constantly guides and center belt to present misalignment.

**08/ LOAD ROLLERS**

Each roller equally shares weight of stinger conveyor.

**09/ STINGER SAFETY STOP**

Activates in event of cable failure to maintain position of stinger.

**10/ CROSS BRACING**

Maintains structural rigidity under heavy materials and wind loads.

**11/ SLIDETRACK SYSTEM**

Cable support system designed with no catch points and easy maintenance.

**12/ FB® UNDERCARRIAGE**

Provides maximum undercarriage support for safety and lateral stability.

**13/ PILEPRO™ AUTOMATION**

Designed in-house with clean, easy to understand interface.

**NEW**

### FD AUTO LEVEL AXLE

- » Automatically maintains level travel.
- » Head pulley is always balanced.
- » Prevents belt mistracking.
- » Standard with automation.



**FD AXLE**



### FD AXLE

- » Hydraulically transfers stacker from inline to radial mode in seconds.
- » Invented by Superior in 1997 with more than 800 FD models built since.
- » Enclosed planetary drive is securely protected from damaging debris.
- » Walking beam suspension properly balances conveyor and load.

## AXLE CONFIGURATIONS



**XTP SWING AXLE**



### **XTP SWING AXLE**

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



**PIT PORTABLE AXLE**



### **PIT PORTABLE AXLE**

- » Made from heavy duty fabricated steel.
- » Designed for highest capacity, highest tonnage applications.
- » Designed for towing within the quarry.



## HIGHLIGHTS



**PILEPRO AUTOMATION**

## PILEPRO™ AUTOMATION

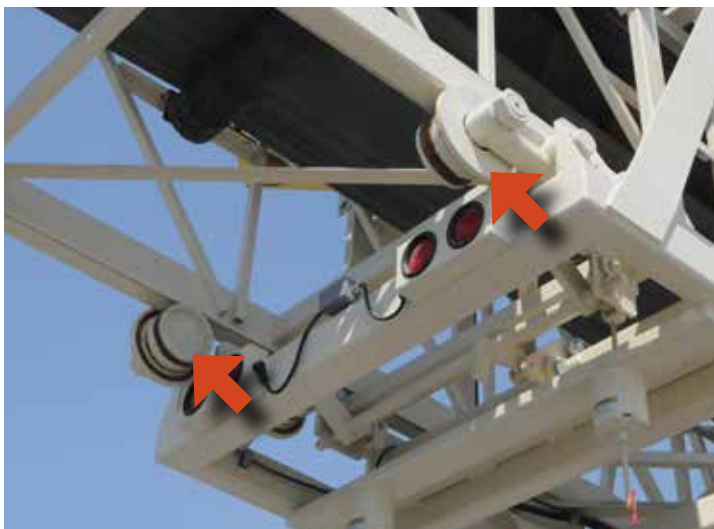
- » In-house engineers reduce reliance on third parties.
- » Step by step program is easy to setup and understand.
- » Diagnostics screen allows users to quickly pinpoint faults.
- » Proactive maintenance reminders signal upkeep tasks.
- » Volume estimator reports estimated pile tonnage.
- » Save settings for up to four unique pile configurations.



**SLIDETRACK SYSTEM**

## SLIDETRACK SYSTEM

- » No areas for fugitive material to build up.
- » Proven to be more reliable in cold weather.
- » Easy to see and access for maintenance.
- » Retrofit kits for previous model TeleStacker Conveyors.



**CAM ROLLERS**

## LOAD ROLLERS

- » Large diameter rollers support stinger conveyor.
- » Center pivot design supports weight equally on all rollers.
- » Rollers at top and bottom for additional stability.

## HIGHLIGHTS



**FB UNDERCARRIAGE**

### **FB® UNDERCARRIAGE**

- » Designed with more steel for rock solid bracing.
- » Fully-braced inner and outer structures.
- » Perimeter positioning of cylinders increases structural support.



**STINGER SAFETY STOP**

### **STINGER SAFETY STOP**

- » Continuously monitors cable tension to stinger conveyor.
- » Immediately reacts if breakdown of cable occurs.
- » Spring loaded, mechanical device is field tested and proven.



**LOW PROFILE**

### **LOW PROFILE**

- » Eliminate reliance on transfer conveyor for loading.
- » Accepts feed directly from portable crushers and screens.
- » Minimize the number of loads in portable spread.
- » Reduce space requirements with less equipment.

## OPTIONS



HYDRAULIC AXLE JACKS



MOBILE PIVOT BASE



FD AXLE TRACKS



MOXIE ROLLS



URATHON® RETURN ROLL



WALKWAYS



SPRAY BARS



COMPENSATION LINKAGE

## PORTABILITY

- » 4-Wheel Drive (FD Axle)
- » Dual Power Travel (XTP Axle)
- » Hydraulic Axle Jacks (XTP Axle)
- » Tow Eye

## MOBILITY

- » Tracked Mobile Pivot Base
- » Two Wheel Mobile Pivot Base
- » FD Axle Tracks

## MAINTENANCE

- » Moxie® Rolls
- » Urathon® Return Roll
- » Self-Aligning Idlers
- » Impact Idlers
- » Auto Greaser
- » Walkways

## ENVIRONMENT

- » Mainframe Covers
- » Stinger Conveyor Cover
- » Spray Bars
- » Epoxy Paint
- » Galvanized Paint
- » Cold Weather Kit

## OTHER

- » Compensation Linkage
- » Belt Scale
- » Onboard Counterweight (XTP Axle)
- » Belting Upgrade
- » Wireless Remote Control
- » Dual Power Source



PHOTO GALLERY



FD AXLE IN TRANSPORT MODE



EXPERIENCE UP TO 5,000 TPH



SHIP LOADING



BARGE LOADING

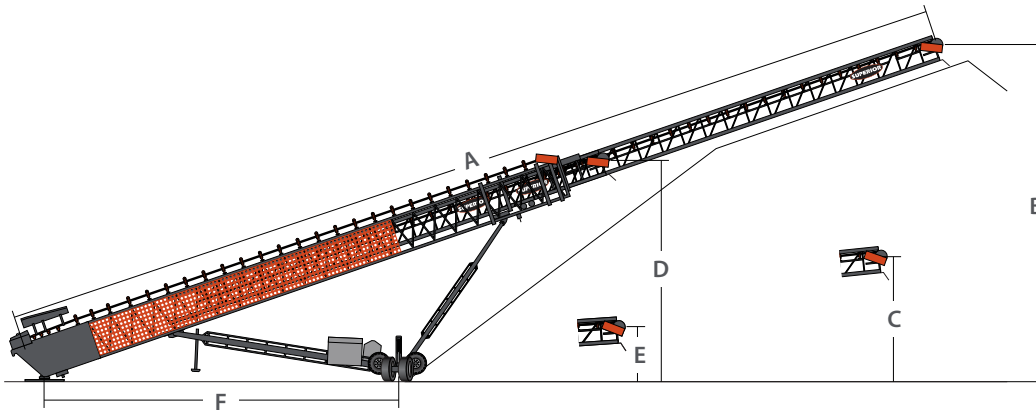


HEAP LEACH MINING



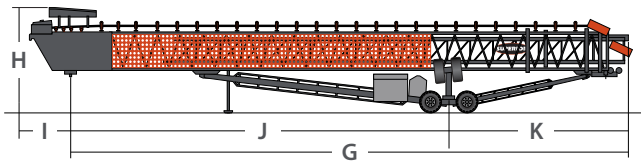
BARGE UNLOADING / DREDGE CAPPING

## TSFD SPECIFICATIONS



### FD AXLE (TSFD) SPECIFICATIONS

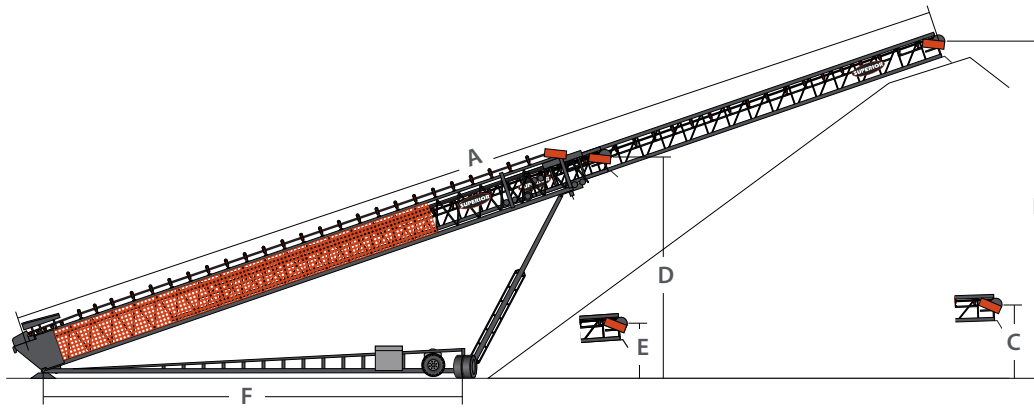
OPERATING DIMENSIONS	110'	130'	136'*	150'	158'*
(A) Conveyor Length (m)	110'-0" (33.5)	130'-0" (39.6)	136'-0" LP (41.5)	150'-0" (45.7)	158'-0" LP (48.0)
(B) Highest Extended Discharge Height (m)	41'-3" (12.6)	44'-3" (13.4)	44'-0" (13.4)	52'-9" (16.1)	48'-10" (14.8)
(C) Lowest Extended Discharge Height (m)	18'-10" (5.7)	16'-1" (4.9)	18'-6" (5.6)	19'-6" (5.9)	19'-6" (5.9)
(D) Highest Retracted Discharge Height (m)	24'-9" (7.5)	26'-1" (7.9)	27'-1" (8.2)	30'-10" (9.4)	30'-10" (9.4)
(E) Lowest Retracted Discharge Height (m)	12'-0" (3.6)	10'-4" (3.1)	12'-8" (3.8)	12'-6" (3.8)	12'-4" (3.7)
(F) 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)



### FD AXLE (TSFD) SPECIFICATIONS

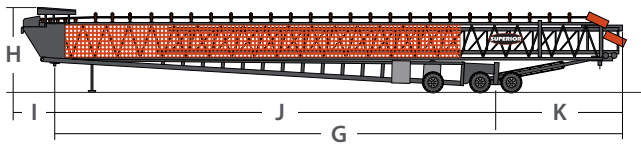
TRAVEL DIMENSIONS	110'	130'	136'*	150'	158'*
(G) Travel Length - Kingpin to Rear (m)	60'-0" (18.2)	70'-0" (21.3)	80'-0" (24.4)	80'-0" (24.4)	97'-6" (29.7)
(H) Travel Height (m)	12'-5" (3.8)	12'-1" (3.6)	13'-0" (3.9)	13'-10" (4.2)	14'-0" (4.3)
Travel Width (m)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)	11'-11" (3.6)	11'-9" (3.5)
(I) Kingpin to End of Tow Eye (m)	5'-10" (1.7)	5'-10" (1.7)	5'-10" (1.7)	5'-11" (1.8)	8'-1" (2.4)
(J) Kingpin to Axle (m)	37'-11" (11.5)	47'-7" (14.5)	54'-0" (16.4)	53'-10" (16.4)	70'-0" (21.3)
(K) Axle to Head Pulley (m)	22'-0" (6.7)	21'-5" (6.5)	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)

## TSSA SPECIFICATIONS



### XTP SWING AXLE (TSSA) SPECIFICATIONS

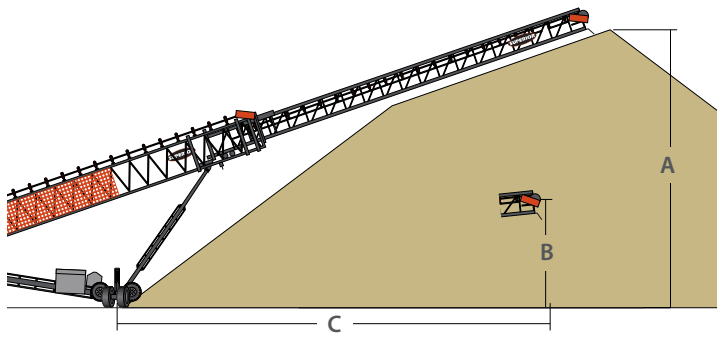
OPERATING DIMENSIONS	130'	150'	170'	190'
(A) Conveyor Length (m)	130'-0" (39.6)	150'-0" (45.7)	170'-0" (51.8)	190'-0" (57.9)
(B) Highest Extended Discharge Height (m)	44'-4" (13.5)	52'-6" (16.0)	61'-0" (18.5)	67'-8" (20.5)
(C) Lowest Extended Discharge Height (m)	14'-2" (6.0)	15'-10" (6.0)	14'-11" (4.5)	16'-1" (5.0)
(D) Highest Retracted Discharge Height (m)	26'-5" (8.0)	31'-3" (9.5)	38'-6" (11.0)	38'-7" (11.0)
(E) Lowest Retracted Discharge Height (m)	9'-7" (2.9)	10'-9" (3.2)	10'-8" (3.2)	10'-9" (3.2)
(F) Anchor Pivot to Center of Axle (m)	48'-6" (14.5)	56'-4" (17.0)	73'-10" (22.5)	73'-10" (22.5)



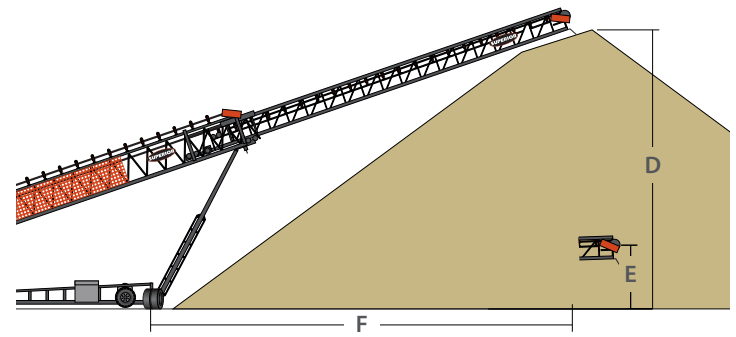
### XTP SWING AXLE (TSSA) SPECIFICATIONS

TRAVEL DIMENSIONS	130'	150'	170'	190'
(G) Travel Length - Kingpin to Rear (m)	69'-9" (21.2)	80'-0" (24.3)	100'-0" (30.5)	100'-1" (30.5)
(H) Travel Height (m)	12'-7" (3.8)	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)
(I) Kingpin to End of Tow Eye (m)	5'-10" (1.7)	5'-11" (1.8)	5'-11" (1.8)	5'-11" (1.8)
(J) Kingpin to Axle (m)	52'-3" (15.9)	59'-9" (18.2)	77'-3" (23.5)	77'-3" (23.5)
(K) Axle to Head Pulley (m)	17'-5" (5.3)	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 SPECIFICATIONS



**TSFD STOCKPILE**



**TSSA STOCKPILE**

### STOCKPILE DIMENSIONS (TSFD)

	110'	130'	136'*	150'	158'*
(A) Maximum Pile Height (m)	39'-2" (11.9)	43'-0" (13.1)	43'-2" (13.1)	50'-0" (15.2)	47'-3" (14.4)
(B) Lowered Stockpile Height (m)	15'-6" (4.7)	15'-10" (4.8)	14'-9" (4.5)	16'-7" (5.0)	18'-10" (5.7)
(C) 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)

### STOCKPILE DIMENSIONS (TSSA)

	130'	150'	170'	190'
(D) Maximum Pile Height (m)	44'-5" (13.5)	50'-0" (15.2)	58'-3" (17.7)	66'-1" (20.1)
(E) Lowered Stockpile Height (m)	11'-5" (3.4)	12'-10" (3.9)	11'-11" (3.6)	14'-3" (4.3)
(F) Anchor Pivot to Center of Pile (m)	116'-2" (35.4)	125'-0" (38.1)	153'-9" (46.8)	163'-1" (49.7)

\* Low Profile Model

### MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)\*

Conveyor Length	Stockpile Height ft x in (m)	Stockpile Volume in Cubic Yards (m <sup>3</sup> )				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	34,400	49,200	6,600 (6,000)	26,600	46,500	66,500
130 TSFD	42'-0" (12.8)	6,200 (4,700)	27,300	48,300	69,300	8,400 (7,600)	36,800	65,200	93,600
130 TSSA	45'-6" (13.8)	6,700 (5,100)	27,700	48,700	69,700	9,000 (8,200)	37,400	65,800	94,200
136 TSFD-LP	41'-6" (12.6)	6,900 (5,300)	30,000	53,300	76,500	9,300 (8,400)	40,600	71,900	103,200
150 TSFD	50'-0" (15.2)	9,300 (7,100)	41,000	72,600	104,300	12,600	55,300	98,100	140,800
150 TSSA	50'-0" (15.2)	9,200 (7,000)	40,100	71,000	102,000	12,400	54,100	95,900	137,700
158 TSFD-LP	47'-0" (14.3)	9,700 (7,400)	40,900	72,200	103,500	13,100	55,200	97,500	139,700
170 TSSA	58'-0" (17.6)	12,900 (9,900)	56,100	99,300	142,400	17,500	75,800	134,000	192,300
190 TSSA	66'-0" (20.1)	18,700	82,300	145,800	209,300	25,300	111,100	196,800	282,600
210 TSPP	70'-3" (21.4)	27,279(20,856)	115,590(88,375)	203,901(155,894)	292,955(223,980)	36,827(33,409)	156,047(141,565)	275,266(249,718)	395,489(358,783)

\* Assumptions based on material which has a 37° angle of repose and 100 PCF (1.6 t/m<sup>3</sup>) material density.