

The logo for Superior Industries, featuring the word "SUPERIOR" in a bold, white, sans-serif font inside a black oval with a red border.

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

- 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

- 9/ **STINGER SAFETY STOPS:** Designs that protect your investment. Safety stops immediately react in the event of stinger cable failure, minimizing structure damage.
- 10/ **CABLE CARRIER:** Cable is enclosed and contained, free flows in trough and the innovative design keeps fugitive materials out and relieves stress from linkage.
- 11/ **RAISE CYLINDERS:** Used to raise and lower stinger and are specially designed for safety. Counterbalance valve keeps the raise cylinders from lowering if there is a hydraulic failure.

- 12/ **FB® UNDERCARRIAGE:** Patented for maximum undercarriage support and the most rigid lateral stability. Load sharing hydraulic cylinders add even greater structural support and safety.
- 13/ **AXLE CONFIGURATION:** Three styles of road/radial travel axles for applications from exceptionally road portable to fixed radial stacking.
- 14/ **PILEPRO™ AUTOMATION:** Tested and proven automation program solves pile segregation issues and produces a uniformed quality spec material. Automation program signals operator when service maintenance is required.



COMPENSATION LINKAGE



EXTERRA® SFL DUAL BELT CLEANER



HYDRAULIC LANDING JACKS



WALKWAY (ON MAIN CONVEYOR)



URATHON® RETURN ROLL



BELT COVERS

- 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
- WIRED REMOTE SYSTEM

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

- BELT UPGRADE
- IMPACT IDLERS
- ON-BOARD COUNTERWEIGHT (XTP AXLE)
- GALVANIZED
- BELT SCALE
- TOW EYE

SAFETY

A/ FB® UNDERCARRIAGE

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

B/ STINGER SAFETY CATCH

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

C/ STINGER CROSS BRACING

- Increased bracing maintains structural rigidity under heavy material and wind loads.

D/ ROBUST TRUSS

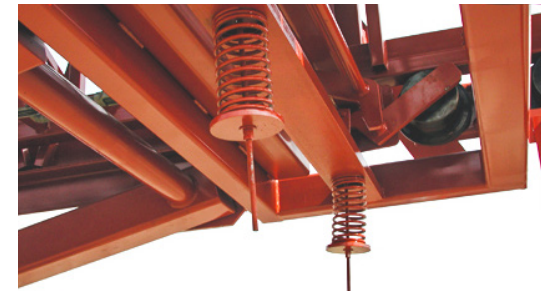
- Condensed lattice spacing increases structural integrity of conveyor truss design.

E/ CAM ROLLERS

- Patented, large 8" diameter rollers support the stinger conveyor as it travels.
- Center pivot design supports conveyor weight equally on all rollers.
- Rollers at top and bottom of stinger conveyor for extra stability.



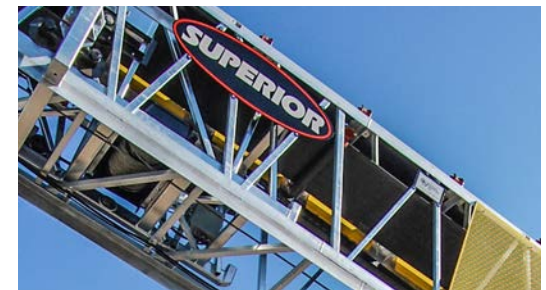
A/ PATENTED FB UNDERCARRIAGE



B/ STINGER SAFETY CATCH



C/ STINGER CROSS BRACING



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



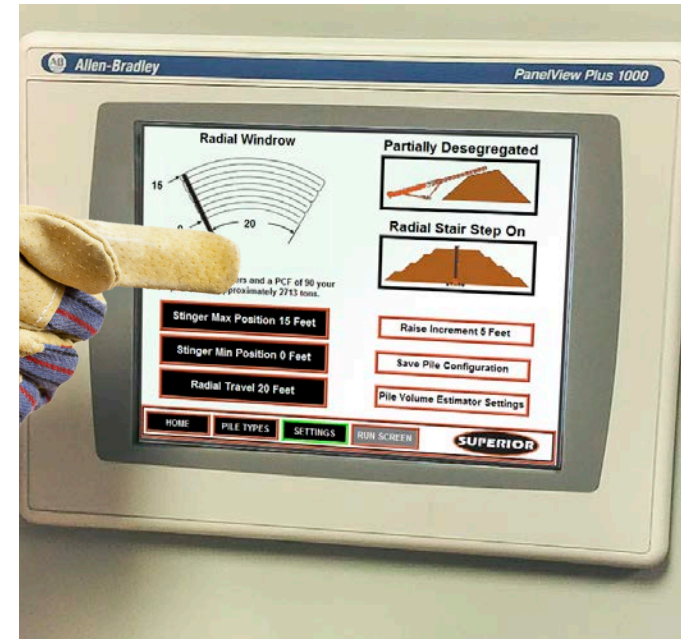
LINK ARMS SECURE ROAD AND RADIAL TIRES

PILEPRO™ AUTOMATION

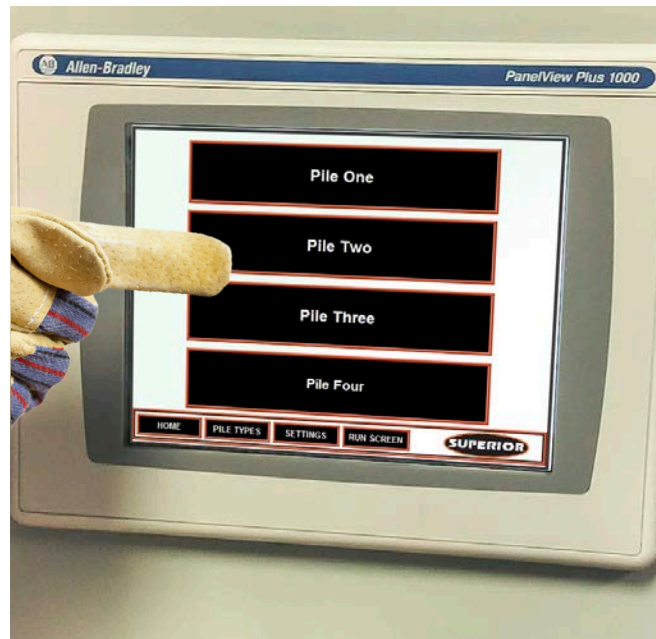
- In-house automation engineers reduce reliance on third parties.
- Step by step program is easy to setup and understand.
- Exclusive zoning technique builds higher volume stockpile on same footprint.
- Special diagnostics screen allows users to quickly pinpoint faults.
- Proactive maintenance reminders 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.



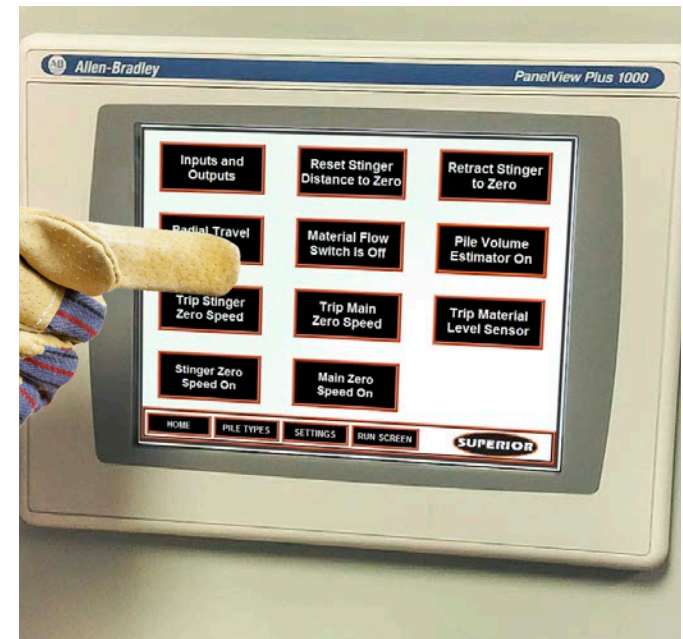
TOUCH SCREEN REACTS TO GLOVE CONTACT



SET PILE PARAMETERS IN VISUAL SETTING SCREEN



RECALL 1 OF 4 PREVIOUSLY SAVED PILE TYPES



DIAGNOSTICS HELP IDENTIFY THE SOURCE OF ISSUE

PHOTO GALLERY



LOW PROFILE ELIMINATES TRANSFER CONVEYOR BETWEEN PLANT AND STACKER



72" X 190' STOCKPILES AT 5,000 TPH



FD AXLE TRANSFERS FROM ROAD TO STOCKPILE MODE IN SECONDS



RADIAL WINDROW STOCKPIILING ACHIEVES IN-SPEC MATERIAL MIX



EQUIPPED WITH FD TRACKS, THIS UNIT CONQUERS LOW PRESSURE SOILS



AT A RAILYARD, THIS UNIT CREATES EIGHT UNIQUE MATERIAL STOCKPILES



THE MOST EFFECTIVE SOLUTION FOR CONTROLLING SEGREGATION



A 190' TSXTP IS CAPABLE OF PRODUCING A 209,300 CUBIC YARD STOCKPILE

FD AXLE **TSFD** SPECIFICATIONS

OPERATING DIMENSIONS	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 **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)
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 aggregate which has a 37° angle of repose and 100 PCF (1.6 ± m³) material density.

Conveyor Length	Stockpile Height (m)	Stockpile Volume in Cubic Yards (m³)				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)
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 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)
158 TSFD-LP	47' -0" (14.3)	9,400 (7,200)	49,800 (38,100)	90,100 (68,900)	103,500 (99,800)	12,700 (11,500)	67,200 (61,000)	121,700 (110,400)	176,200 (159,900)
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)
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

