

CRUSHING

SCREENING

WASHING

CONVEYING

COMPONENTS

PLANTS

CONSTRUCTION

AFTERMARKET

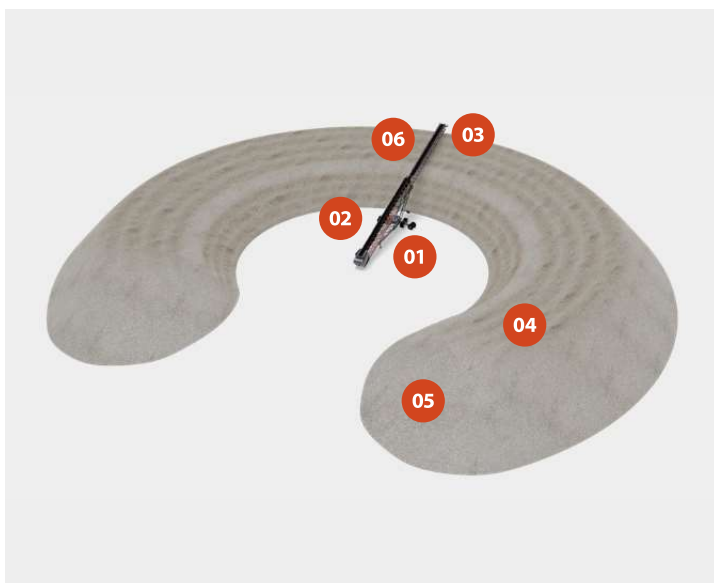
# CONVEYING EQUIPMENT PRODUCT HANDBOOK





# 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.

Rock Face to Load Out™

 Patented Technology

**TRICON**  
EQUIPMENT



	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"	42"	36"
1,500 TPH	42"	42"		42"	42"	42"	42"	36"
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"	

TELESTACKER® CONVEYOR



## FEATURES



### 01/ CHEVRON® PULLEY

Ejects fugitive material for longer lasting pulleys and belting.

### 02/ SEALING SYSTEM

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

### 03/ EXTERRA® PRIMARY CLICK TENSIONING BELT CLEANER

Eliminates unwanted fugitive material on belt.

### 04/ ULTRASONIC PILE SENSOR

Contact free sensor is not affected by dust or debris.

### 05/ NAVIGATOR® RETURN TRAINER

Constantly guides and centers belt.

### 06/ LOAD ROLLERS

Each roller equally shares weight of stinger conveyor.

### 07/ STINGER SAFETY STOP

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

### 08/ SLIDETRACK SYSTEM

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

### 09/ FB® UNDERCARRIAGE

Provides maximum undercarriage support for safety and lateral stability.

### 10/ PILEPRO™ AUTOMATION

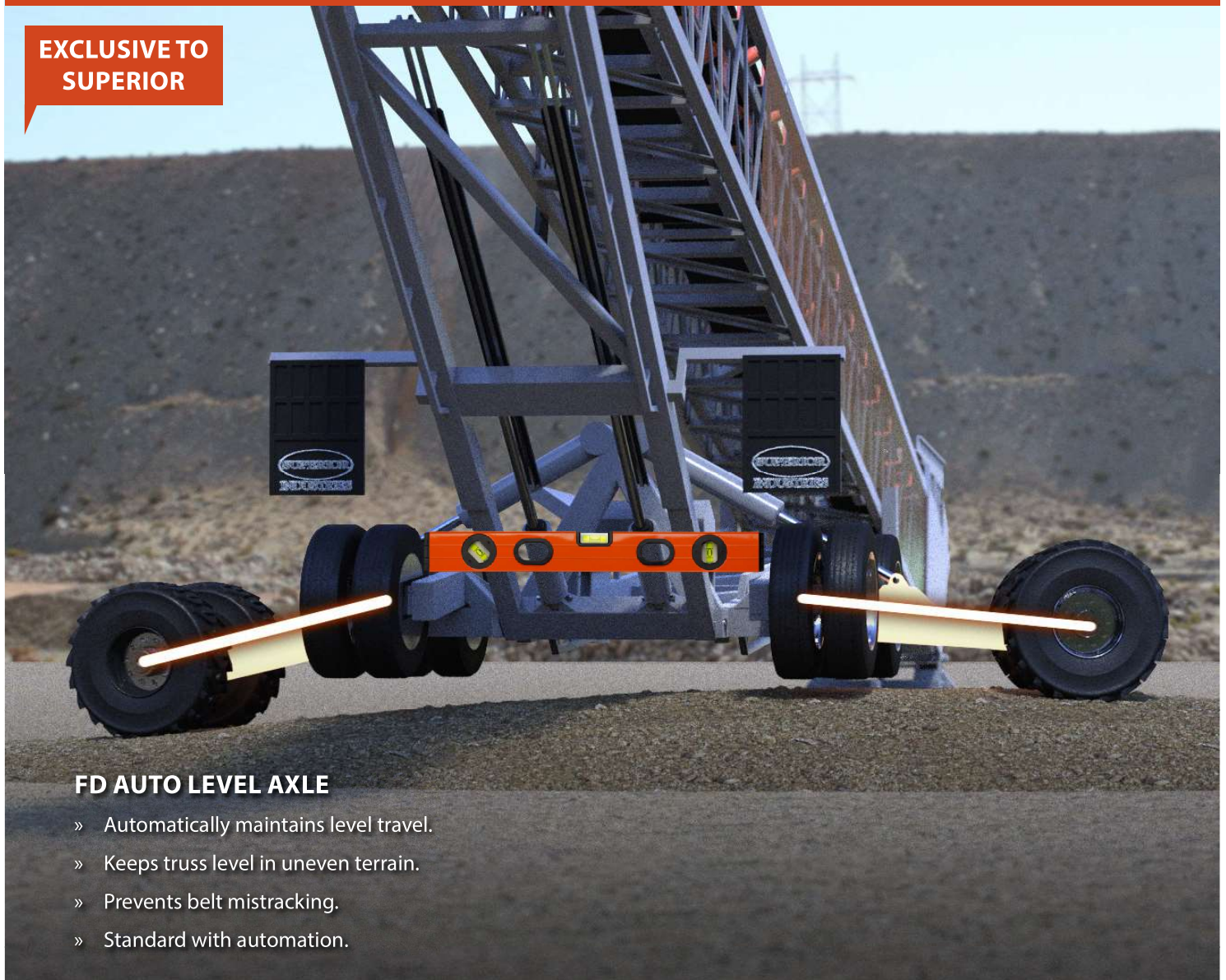
Designed in-house with clean, easy to understand interface.

### 11/ ROCK BOX RADIAL HOPPER

Designed for rock-on-rock wear with internal ledge.

## AXLE CONFIGURATIONS

EXCLUSIVE TO  
SUPERIOR

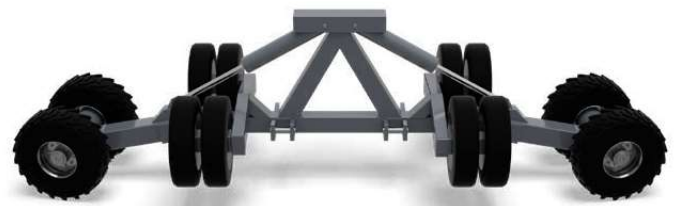


### FD AUTO LEVEL AXLE

- » Automatically maintains level travel.
- » Keeps truss level in uneven terrain.
- » Prevents belt mistracking.
- » Standard with automation.



### FD AXLE OPTION



### FD AXLE

- » Hydraulically transfers stacker from inline to radial mode in seconds.
- » Invented by Superior in 1994 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.

TELESTACKER® CONVEYOR

TRICON  
EQUIPMENT

## AXLE CONFIGURATIONS



**XTP SWING AXLE OPTION**

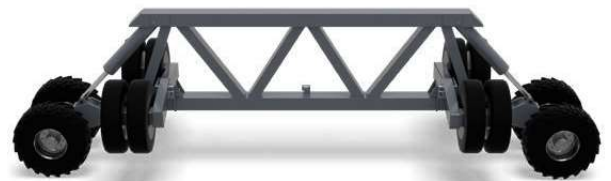


### **XTP SWING AXLE**

- » Pull T-Handle to engage power travel; no chain drive.
- » Physically transfer from road to operation in minutes.
- » Concrete pad provides level runway.
- » Single link arm stays attached to machine; no handling multiple linkages.



**PIT PORTABLE AXLE OPTIONS**



### **PIT PORTABLE FD AXLE**



### **PIT PORTABLE AXLE**

- » Both made from heavy duty fabricated steel.
- » Both designed for highest capacity, highest tonnage applications.
- » Both designed for towing within the quarry.



Rock Face to Load Out™

TELESTACKER® CONVEYOR

**TRICON**  
EQUIPMENT

## 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.

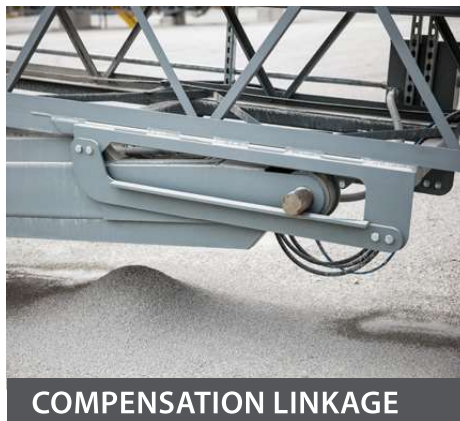
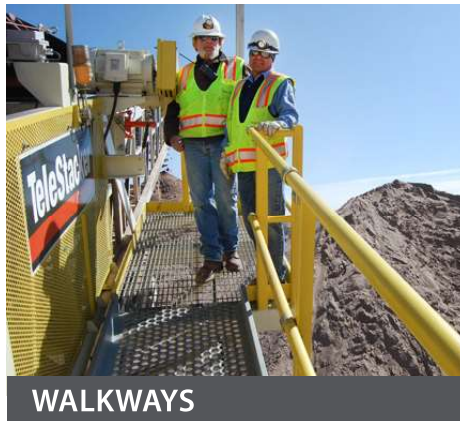
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TELESTACKER® CONVEYOR

**TRICON**  
EQUIPMENT



## FEATURES



## 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
- » Vulcanized Splice

## ENVIRONMENT

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

## OTHER

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

## SAFETY

- » Horn
- » E-Stop
- » Belt Rip Detection
- » Belt Misalignment Detection

TELESTACKER® CONVEYOR

**TRICON**  
EQUIPMENT

## PHOTO GALLERY



FD AXLE IN TRANSPORT MODE



EXPERIENCE UP TO 5,000 TPH



SHIP OR BARGE LOADING



SELF-CONTAINED POWER (SEE SPEC SHEET)



HEAP LEACH MINING



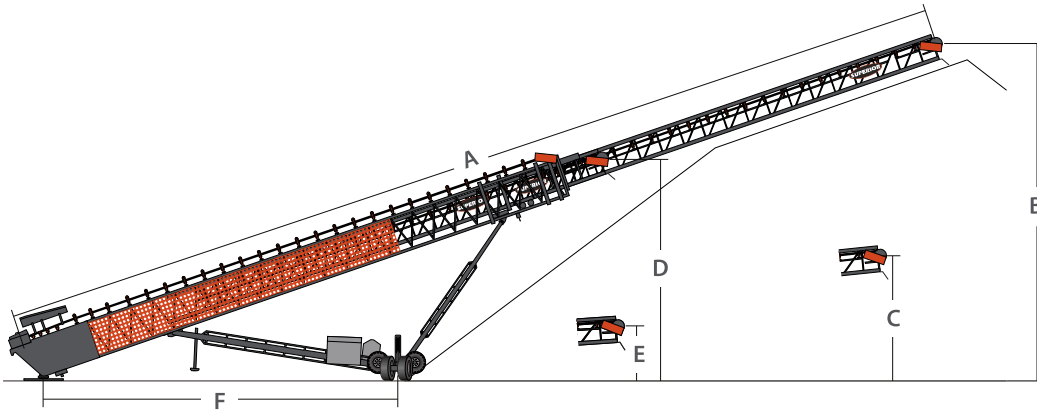
BARGE UNLOADING / DREDGE CAPPING

Rock Face to Load Out™

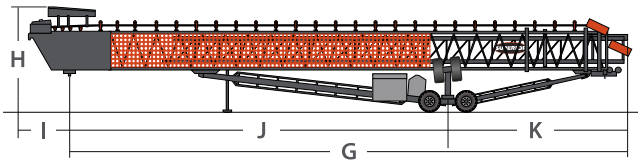
TELESTACKER® CONVEYOR

TRICON  
EQUIPMENT

# TSFD SPECIFICATIONS



	110'		130'		136'*		140'**		150'		158'*	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>FD AXLE (TSFD) OPERATING SPECIFICATIONS</b>												
(A) Conveyor Length	110'-0"	33.5	130'-0"	39.6	136'-0"	41.5	140'-0"	42.2	150'-0"	45.7	158'-0"	48.0
(B) Highest Extended Discharge Height	41'-3"	12.6	44'-3"	13.4	44'-0"	13.4	46'-3"	14.4	52'-9"	16.1	48'-10"	14.8
(C) Lowest Extended Discharge Height	18'-10"	5.7	16'-1"	4.9	18'-6"	5.6	19'-6"	5.9	19'-6"	5.9	19'-6"	5.9
(D) Highest Retracted Discharge Height	24'-9"	7.5	26'-1"	7.9	27'-1"	8.2	27'-6"	8.4	30'-10"	9.4	30'-10"	9.4
(E) Lowest Retracted Discharge Height	12'-0"	3.6	10'-4"	3.1	12'-8"	3.8	12'-1"	3.7	12'-6"	3.8	12'-4"	3.7
(F) Anchor Pivot to Center of Axle	39'-8"	12.1	49'-0"	15.0	55'-4"	16.9	51'-10"	15.8	54'-9"	16.7	70'-11"	21.6



	110'		130'		136'*		140'**		150'		158'*	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>FD AXLE (TSFD) TRAVEL SPECIFICATIONS</b>												
(G) Travel Length - Kingpin to Rear	60'-0"	18.2	70'-0"	21.3	80'-0"	24.4	75'-1"	22.9	80'-0"	24.4	97'-6"	29.7
(H) Travel Height	12'-5"	3.8	12'-1"	3.6	13'-0"	3.9	13'-5"	4.1	13'-10"	4.2	14'-0"	4.3
Travel Width	11'-11"	3.6	11'-11"	3.6	11'-11"	3.6	11'-9"	3.6	11'-11"	3.6	11'-9"	3.5
(I) Kingpin to End of Tow Eye	5'-10"	1.7	5'-10"	1.7	5'-10"	1.7	5'-10"	1.8	5'-11"	1.8	8'-1"	2.4
(J) Kingpin to Axle	37'-11"	11.5	47'-7"	14.5	54'-0"	16.4	51'-2"	15.6	53'-10"	16.4	70'-0"	21.3
(K) Axle to Head Pulley	22'-0"	6.7	21'-5"	6.5	25'-6"	7.7	23'-11"	7.3	26'-1"	27.9	27'-6"	8.3
FD Axle Size	FD40		FD40		FD40		FD40		FD50		FD50	

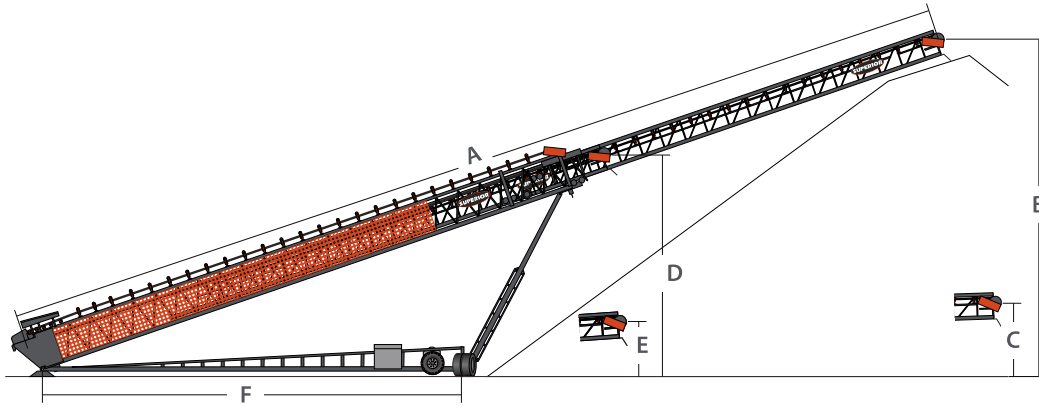
<b>WEIGHTS</b>												
	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg
Weight at Axle - 36" Belt Width	30,500	13,830	34,800	15,785	36,000	16,329	38,000	17,236	40,000	18,144	53,200	24,131
Weight at Kingpin - 36" Belt Width	12,500	5,670	18,300	8,300	13,000	5,897	20,000	9,071	24,600	11,158	16,000	7,257

\* Low profile model. \*\* Design optimized for container shipment.

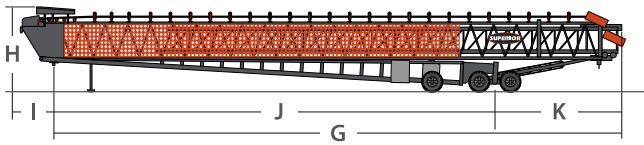
TELESTACKER® CONVEYOR



# TSSA SPECIFICATIONS



	130'		150'		170'		185' **		190'		210' *	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>XTP SWING AXLE (TSSA) OPERATING SPECIFICATIONS</b>												
(A) Conveyor Length	130'-0"	39.6	150'-0"	45.7	170'-0"	51.8	185'-0"	56.2	190'-0"	57.9	210'-0"	64.0
(B) Highest Extended Discharge Height	44'-4"	13.5	52'-6"	16.0	61'-0"	18.5	64'-11"	19.8	67'-8"	20.5	71'-8"	21.8
(C) Lowest Extended Discharge Height	14'-2"	4.3	15'-10"	4.8	14'-11"	4.5	15'-9"	4.8	16'-1"	5.0	16'-11"	5.2
(D) Highest Retracted Discharge Height	26'-5"	8.0	31'-3"	9.5	38'-6"	11.0	38'-4"	11.7	38'-7"	11.0	41'-2"	12.5
(E) Lowest Retracted Discharge Height	9'-7"	2.9	10'-9"	3.2	10'-8"	3.2	10'-10"	3.3	10'-9"	3.2	11'-4"	3.5
(F) Anchor Pivot to Center of Axle	48'-6"	14.5	56'-4"	17.0	73'-10"	22.5	73'-5"	22.4	73'-10"	22.5	81'-11"	25.0



	130'		150'		170'		185' **		190'		210' *	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>XTP SWING AXLE (TSSA) TRAVEL SPECIFICATIONS</b>												
(G) Travel Length - Kingpin to Rear	69'-9"	21.2	80'-0"	24.3	100'-0"	30.5	99'-8"	30.4	100'-1"	30.5	113'-1"	34.5
(H) Travel Height	12'-7"	3.8	13'-9"	4.2	13'-9"	4.2	15'-9"	4.8	14'-0"	4.2	14'-8"	4.5
Travel Width	11'-11"	3.6	11'-11"	3.6	11'-11"	3.6	12'-1"	3.7	11'-11"	3.6	11'-11"	3.6
(I) Kingpin to End of Tow Eye	6'-6"	2.0	6'-6"	2.0	6'-6"	2.0	5'-10"	1.8	6'-6"	2.0	6'-6"	2.0
(J) Kingpin to Axle	52'-3"	15.9	59'-9"	18.2	77'-3"	23.5	77'-1"	23.5	77'-3"	23.5	85'-6"	26.0*
(K) Axle to Head Pulley	17'-5"	5.3	20'-4"	6.1	22'-10"	6.9	22'-7"	6.9	22'-10"	6.9	27'-7"	8.4*

<b>WEIGHTS</b>												
	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg
Weight at Axle - 36" Belt Width	34,400	15,605	38,000	17,235	46,000	20,865	49,000	22,226	47,000	21,318	66,700*	30,255*
Weight at Kingpin - 36" Belt Width	19,500	8,845	18,550	8,414	20,865	9,464	26,000	11,793	22,500	10,205	35,700*	16,194*

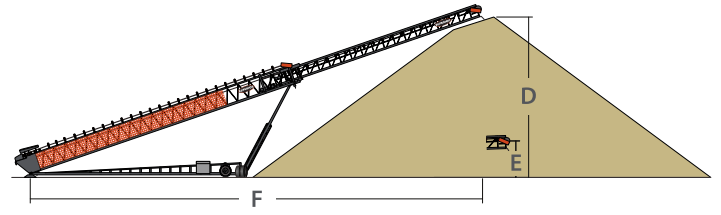
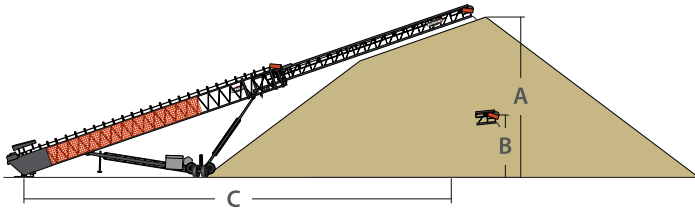
\* Contact Superior Industries for additional shipping information. \*\* Design optimized for container shipment.

Rock Face to Load Out™

TELESTACKER® CONVEYOR



# STOCKPILE SPECIFICATIONS



## TSFD STOCKPILE

## TSSA STOCKPILE

	110'		130'		136'		140'		150'		158'	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>STOCKPILE DIMENSIONS (TSFD)</b>												
(A) Maximum Pile Height	39'-2"	11.9	43'-0"	13.1	43'-2"	13.1	45'-3"	13.8	50'-0"	15.2	47'-3"	14.4
(B) Lowered Stockpile Height	15'-6"	4.7	15'-10"	4.8	14'-9"	4.5	17'-4"	5.3	16'-7"	5.0	18'-10"	5.7
(C) Anchor Pivot to Center of Pile	101'-1"	30.8	116'-11"	35.6	120'-2"	36.6	129'-11"	39.6	132'-6"	40.3	146'-4"	44.6
* Low Profile Model												
	130'		150'		170'		185'		190'		210'	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>STOCKPILE DIMENSIONS (TSSA)</b>												
(D) Maximum Pile Height	44'-5"	13.5	50'-0"	15.2	58'-3"	17.7	63'-3"	19.3	66'-1"	20.1	69'-2"	21.1
(E) Lowered Stockpile Height	11'-5"	3.4	12'-10"	3.9	11'-11"	3.6	13'-9"	4.2	14'-3"	4.3	16'-11"	5.2
(F) Anchor Pivot to Center of Pile	116'-2"	35.4	134'-5"	40.9	157'-6"	48.0	176'-2"	53.7	171'-7"	52.2	189'-3"	57.6

Conveyor Length	Stockpile Height		Conical		90°		180°		270°		
	ft	ft x in	m	tons	metric tons	tons	metric tons	tons	metric tons	tons	metric tons
<b>MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)*</b>											
110 TSFD	39'-0"	11.8	6,600	6,000	26,600	24,100	46,500	42,200	66,500	60,300	
130 TSFD	42'-0"	12.8	8,400	7,600	36,800	33,400	65,200	59,100	93,600	84,900	
130 TSSA	45'-6"	13.8	9,000	8,200	37,400	34,000	65,800	59,600	94,200	85,500	
136 TSFD-LP	41'-6"	12.6	9,300	8,400	40,600	36,800	71,900	65,200	103,200	93,600	
140 TSFD	45'-3"	13.8	10,315	9,360	42,330	38,400	74,340	67,440	106,440	96,560	
150 TSFD	50'-0"	15.2	12,600	11,400	55,300	50,200	98,100	89,000	140,800	127,700	
150 TSSA	50'-0"	15.2	12,400	11,200	54,100	49,000	95,900	87,000	137,700	124,900	
158 TSFD-LP	47'-0"	14.3	13,100	11,900	55,200	50,100	97,500	88,400	139,700	126,800	
170 TSSA	58'-0"	17.6	17,500	15,900	75,800	68,800	134,000	121,600	192,300	174,500	
185 TSSA	63'-3"	19.3	26,630	24,160	109,000	98,880	191,360	173,600	273,725	248,320	
190 TSSA	66'-0"	20.1	25,300	23,000	111,100	100,800	196,800	178,500	282,600	256,400	
210 TSPP	70'-3"	21.4	36,825	28,154	156,050	119,308	275,275	210,462	395,500	302,381	

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



# PINNACLE® CONVEYOR

Setback Axle Allows Stacking Angle of 22° For Higher Capacity Stockpiles



**BUILD TALLER STOCKPILES**



**36" x 125' PINNACLE CONVEYOR**

Rock Face to Load Out™

## FEATURES



### 01/ TOW EYE

Adjustable pintle style hitch provides the most secure coupling.

### 02/ RADIAL RECEIVING HOPPER

Bolt on design includes adjustable flashing in gathering trough.

### 03/ CHEVRON® PULLEY

Ejects fugitive material for longer lasting pulleys and belting.

### 04/ SUPERIOR IDLERS

Trusted seal design provides shields bearing from fugitive material.

### 05/ V-PLOW

Shields tail pulley and drive from onslaught of damaging fugitive material.

### 06/ SETBACK AXLE

Creates a 22° incline for higher volume piles without burying axle.

### 07/ FD AXLE\*

Hydraulically transfers stacker from inline to radial mode in seconds.

### 08/ ENCLOSED POWER TRAVEL

Enclosed planetary drive protected from debris.

### 09/ HYDRAULIC POWERFOLD

Inverted design protects cylinder rods from debris during operation.

# AXLE CONFIGURATIONS

## STYLE OF AXLE

Model	Fixed Width Portable	Telescoping Tube	XTP Axle	Fixed Width Pit Portable	FD Axle
30" x 80'	■	□	□	□	■
36" x 80'	□	■	□	□	■
30" x 100'	□	■	■	■	■
36" x 100'	□	■	■	■	■
36" x 125'	□	■	■	■	■
42" x 125'	□	■	■	■	■

■ Standard    ■ Option    □ Not Available

## FEATURES



02/ RADIAL RECEIVING HOPPER



03/ CHEVRON PULLEY



05/ V-PLOW



06/ SETBACK AXLE

Rock Face to Load Out™

PINNACLE® CONVEYOR





## FEATURES



**XTP AXLE**



**HYDRAULIC POWERFOLD**



**HYDRAULIC RAISE/LOWER**



**SEALING SYSTEM**



**MODULAR FEED HOPPER**



**BELT SCALE**



**SONICSCOUT SENSOR**

## PORTABILITY

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

## OPERATION

- » Hydraulic Powerfold
- » Hydraulic Raise/Lower

## MAINTENANCE

- » Moxie® Rolls
- » Urathon® Return Rolls
- » Sealing System
- » Impacts Rolls
- » Impact Bed
- » Exterra® SFL Dual Belt Cleaner
- » Receiving Hopper
- » Auto Greaser

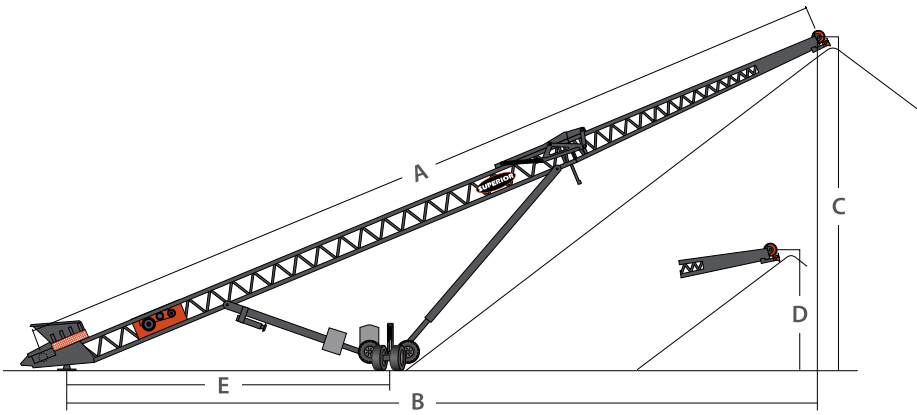
## ENVIRONMENT

- » Belt Covers
- » Epoxy Paint
- » Hot Dipped Galvanized Finish

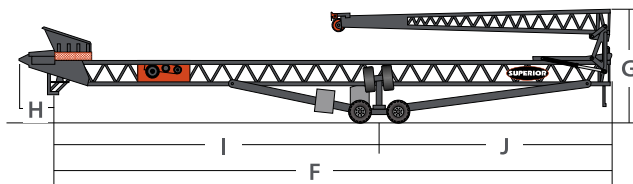
## OTHER

- » Belt Scale
- » SonicScout™ Material Sensor
- » Anchor Pivot Plate
- » Class II Reducer
- » Vulcanized Belt Splice
- » Modular Feed Hopper

# SPECIFICATIONS



	80'		100'		125'	
	ft x in	m	ft x in	m	ft x in	m
<b>OPERATING SPECIFICATIONS</b>						
(A) Conveyor Length	80'-0"	24.4	100'-0"	30.5	125'-0"	38.1
(B) Conveyor Ground Length	72'-3"	22.0	91'-8"	27.9	116'-4"	35.4
(C) Raised Height to Center of Pulley	32'-5"	9.9	39'-4"	12.0	50'-8"	15.4
(D) Lowered Height to Center of Pulley	18'-1"	5.5	20'-1"	6.1	18'-2"	5.4
(E) Anchor Pivot to Center of Axle	32'-2"	9.8	39'-4"	11.9	46'-5"	14.2



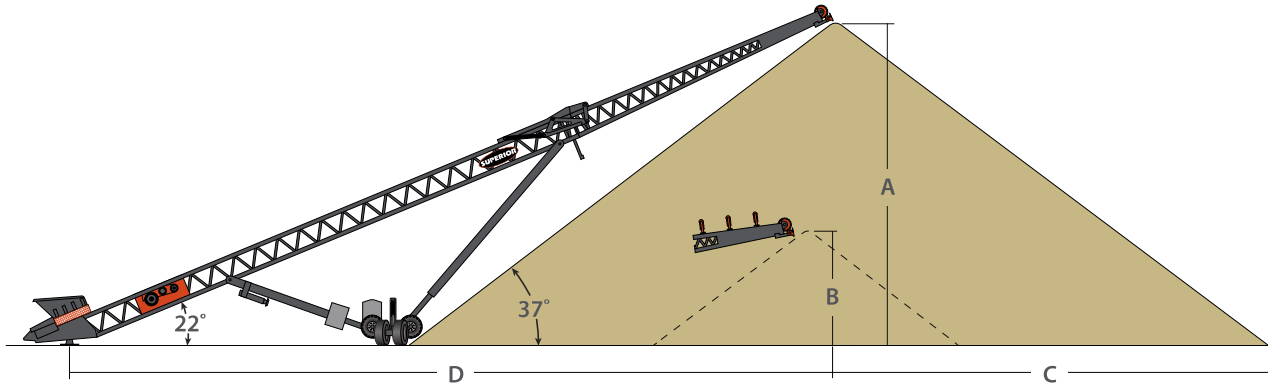
	80'		100'		125'	
	ft x in	m	ft x in	m	ft x in	m
<b>TRAVEL SPECIFICATIONS</b>						
(F) Travel Length - Kingpin to Rear	53'-7"	16.4	68'-8"	21.0	84'-2"	25.7
(G) Travel Height	13'-5"	4.0	13'-2"	4.0	13'-11"	4.2
Travel Width	11'-7"	3.5	12'-2"	3.7	11'-6"	3.5
(H) Kingpin to End of Tow Eye	5'-1"	1.5	5'-7"	1.7	5'-6"	1.7
(I) Kingpin to Axle	34'-7"	10.6	39'-7"	12.1	49'-4"	15.1
(J) Axle to Head Pulley	19'-0"	5.8	29'-1"	8.9	34'-10"	10.6
FD Axle Size (If Equipped)	FD15	FD15	FD20	FD20	FD40	FD40
<b>WEIGHTS</b>						
	lbs	kg	lbs	kg	lbs	kg
Weight at Axle - 36" Belt Width	20,000	9,072	27,250	12,360	39,500	17,917
Weight at Kingpin - 36" Belt Width	6,500	2,948	6,300	2,858	9,500	4,309

Rock Face to Load Out™

PINNACLE® CONVEYOR

**TRICON**  
EQUIPMENT

# STOCKPILE SPECIFICATIONS



	80'		100'		125'	
	ft x in	m	ft x in	m	ft x in	m
<b>STOCKPILE SPECIFICATIONS</b>						
(A) Raised Stockpile Height	33'-0"	10.1	40'-0"	12.2	50'-0"	15.2
(B) Lowered Stockpile Height	18'-1"	5.5	20'-1"	6.1	18'-2"	5.5
(C) Radius of Pile	42'-2"	12.9	51'-7"	15.8	66'-5"	20.3
(D) Anchor Pivot to Center of Pile	74'-6"	22.7	93'-0"	28.4	114'-7"	35.0

Conveyor Length	Stockpile Height		Conical		90°		180°		270°		
	ft	ft x in	m	tons	metric tons	tons	metric tons	tons	metric tons	tons	metric tons
<b>MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)*</b>											
80'	33'-0"	10.1	3,300	3,000	11,700	10,600	20,100	18,200	28,500	25,900	
100'	40'-0"	12.2	6,100	5,500	21,900	20,000	37,700	34,200	53,600	48,600	
125'	50'-0"	15.2	11,400	10,300	41,400	37,600	71,400	64,800	101,400	92,000	

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



# RADIAL STACKING CONVEYORS

Hundreds of Configurations, Which is Right for You?



CUSTOM LENGTHS UP TO 200' (60M)

## FEATURES

- » Four dozen pre-engineered base models for faster lead times
- » Dozens of options to configure stacker to your application
- » Willingness to explore, invent and test brand new options
- » Leading innovator of portability for swift transitions from road to work

Rock Face to Load Out™

## BASE MODEL SPECIFICATIONS

Conveyor Length		Belt Width		Truss Depth		Capacity*		Belt Speed	
ft	m	inch	mm	inch	mm	STPH	MTPH	FPM	MPM
40'	12.2	24"	610	24"	610	300	275	350	105
		30"	762	24"	610	500	450	350	105
		36"	914	24"	610	750	680	400	120
		42"	1,067	24"	610	1,200	1,100	400	120
50'	15.2	24"	610	24"	610	300	275	350	105
		30"	762	24"	610	500	450	350	105
		36"	914	24"	610	750	680	400	120
		42"	1,067	24"	610	1,200	1,100	400	120
60'	18.3	24"	610	24"	610	300	275	350	105
		30"	762	24"	610	500	450	350	105
		36"	914	24"	610	750	680	400	120
		42"	1,067	24"	610	1,200	1,100	400	120
70'	21.3	24"	610	24"	610	300	275	350	105
		30"	762	24"	610	500	450	350	105
		36"	914	24"	610	750	680	400	120
		42"	1,067	30"	762	1,200	1,100	400	120
80'	24.4	24"	610	30"	762	300	275	350	105
		30"	762	30"	762	500	450	350	105
		36"	914	30"	762	750	680	400	120
		42"	1,067	30"	762	1,200	1,100	400	120
90'	27.4	24"	610	30"	762	300	275	350	105
		30"	762	30"	762	500	450	350	105
		36"	914	30"	762	750	680	400	120
		42"	1,067	36"	914	1,200	1,100	400	120
95'	29.0	24"	610	30"	762	300	275	350	105
		30"	762	30"	762	500	450	400	120
		36"	914	30"	762	750	680	400	120
		42"	1,067	36"	914	1,200	1,100	400	120
100'	30.5	24"	610	30"	762	300	275	350	105
		30"	762	30"	762	500	450	400	120
		36"	914	30"	762	750	680	400	120
		42"	1,067	36"	914	1,200	1,100	400	120
110'	33.5	24"	610	36"	914	300	275	350	105
		30"	762	36"	914	500	450	400	120
		36"	914	36"	914	750	680	400	120
		42"	1,067	36"	914	1,200	1,100	400	120
125'	38.1	24"	610	36"	914	300	275	350	105
		30"	762	36"	914	500	450	350	105
		36"	914	36"	914	750	680	400	120
		42"	1,067	36"	914	1,200	1,100	350	105
150'	45.7	24"	610	36"	914	300	275	350	105
		30"	762	42"	1,067	500	450	350	105
		36"	914	42"	1,067	750	680	400	120
		42"	1,067	42"	1,067	1,200	1,100	400	120

All base models include:

- » Belt widths of 24", 30", 36" and 42" (610, 762, 914 and 1,067mm).
- » Production capacities of 300 - 1,200 STPH (375 - 1,100 MTPH) subject to material density and size.

\*Capacity subject to change based material density and lump size.

RADIAL STACKING CONVEYOR

TRICON  
EQUIPMENT

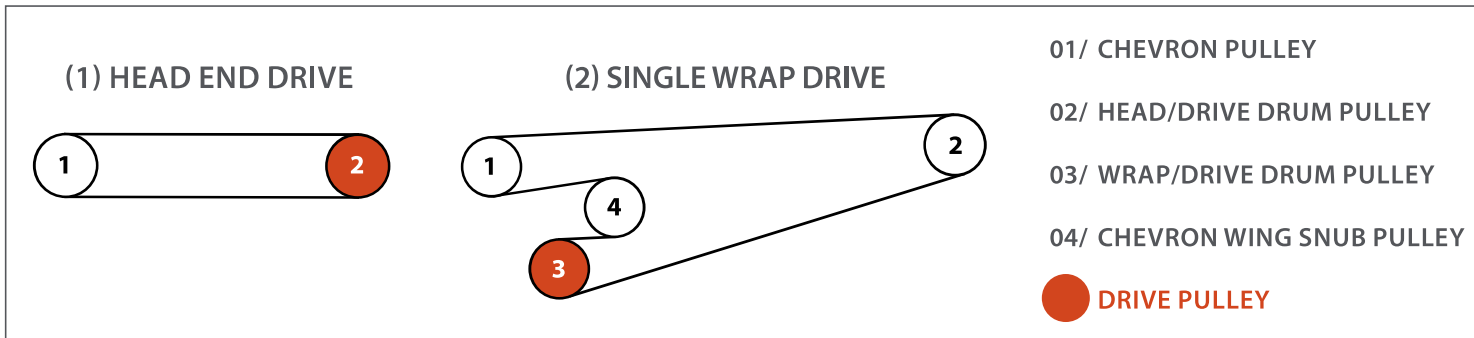
# BASE MODEL SPECIFICATIONS

## DRIVE CONFIGURATION

Head end drives include a lagged CEMA drum pulley. Single wrap drives include a lagged CEMA drum pulley and CEMA Chevron® snub pulley at the tail. Upgrades to mine or super duty pulleys are available.

	Belt Width	40'	50'	60'	70'	80'	90'	95'	100'	110'	125'	150'
Class I, Head End (1)	24"	■	■	■	■	■	■	■	■	■	■	□
	30"	■	■	■	■	■	■	■	■	■	□	□
	36"	■	■	■	■	■	■	■	■	□	□	□
	42"	■	■	■	□	□	□	□	□	□	□	□
Class I, Single Wrap (2)	24"	□	□	□	□	□	□	□	□	□	□	■
	30"	□	□	□	□	□	□	□	□	□	■	■
	36"	□	□	□	□	□	□	□	□	■	■	■
	42"	□	□	□	■	■	■	■	■	■	■	■

■ Standard    □ Available Upon Request



**CHEVRON PULLEY**

V-shaped wings reject fugitive material at tail, which extends life of belts.



**DRUM PULLEY**

Superior designed and built for head section. Upgrade lagging or model.

## BELT TAKE-UP



**MECHANICAL SCREW**

Designed and built with ACME rods and powder coat frame.





**GRAVITY**

Automatically adjust for belt stretch on longer conveyors.

# CONVEYOR CONFIGURATION GUIDE

## AXLE CONFIGURATIONS

Conveyor Length	Belt Width(s)	Fixed Width Portable	Telescoping Tube	Fixed Width Pit Portable	FD Axle
					
		Lift tire(s) from ground, pull pin and manually swivel tire to inline road or radial travel position	Telescoping tube retracts for legal road width or extends to create stability for longer stackers. Utilizes same swivel function as fixed width portable axle	More robust single beam axle designed for units that don't require road portability. Utilizes same swivel function to rotate tires for transport within the quarry or mine	Radial travel tires hydraulically shift into position for fastest transition time from inline road to radial travel modes. For producers traveling frequently from site to site
40'	24", 30", 36", 42"	Standard	Available Upon Request	Available Upon Request	Available Upon Request
50'	24", 30", 36", 42"	Standard	Available Upon Request	Available Upon Request	Available Upon Request
60'	24", 30", 36"	Standard	Available Upon Request	Available Upon Request	Available Upon Request
60'	42"	Available Upon Request	Option	Available Upon Request	Available Upon Request
70'	24", 30"	Standard	Available Upon Request	Available Upon Request	Available Upon Request
70'	36", 42"	Available Upon Request	Option	Available Upon Request	Available Upon Request
80'	24", 30", 36", 42"	Available Upon Request	Option	Available Upon Request	FD15
90'	24", 30", 36", 42"	Available Upon Request	Option	Available Upon Request	FD15
95'	24", 30", 36", 42"	Available Upon Request	Option	Available Upon Request	FD15
100'	24", 30", 36"	Available Upon Request	Option	Available Upon Request	FD20
100'	42"	Available Upon Request	Option	Option	FD20
110'	24", 30", 36", 42"	Available Upon Request	Option	Option	FD20
125'	24", 30", 36", 42"	Available Upon Request	Option	Option	FD40
150'	24", 30", 36", 42"	Available Upon Request	Option	Option	FD40

■ Standard   
 ■ Option   
  Available Upon Request

## LANDING GEAR



### LANDING GEAR

Manual pin adjustment, manual crank or hydraulic raise and lower.



### AXLE JACKS

Hydraulically raise axle to relieve wheel pressure and swivel into radial position.

RADIAL STACKING CONVEYOR

# CONVEYOR CONFIGURATION GUIDE

## BELT SPLICES

A manual top fold requires extra equipment and time while a hydraulic fold operation is a press of a button on the control panel.

	40'	50'	60'	70'	80'	90'	95'	100'	110'	125'	150'
Bolt Together Splice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual Top Fold (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hydraulic Top Power Fold (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Standard     Option     Available Upon Request



**MANUAL TOP FOLD**



**HYDRAULIC POWER FOLD**

Patented inverted hydraulic cylinder protects the rods from dust and debris.

## CONVEYOR RAISE



**MANUAL PIN (BASE CONFIGURATION)**

Manual raise and lowering requires additional equipment and time.



**HYDRAULIC OPERATION**

Hydraulic operation is a push of a button on the control panel.



# CONVEYOR CONFIGURATION GUIDE

## CONVEYOR BELT

There are many belting upgrades available beyond the most popular shown below.



### 3-PLY 330# 3/16" x 1/16"

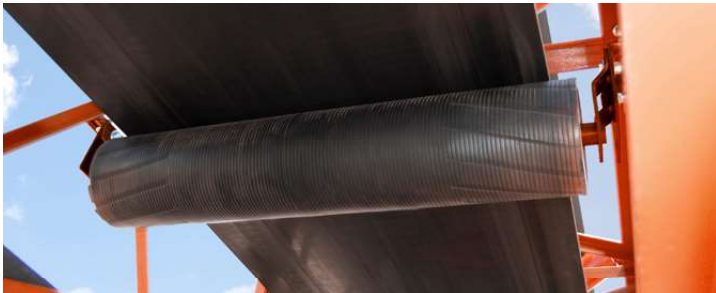
Tough polyester/nylon carcass and abrasion resistance.



### CHEVRON CLEATS

Popular for incline applications in aggregate and recycling.

## BELT TRACKING



### NAVIGATOR® RETURN TRAINER

Provides continuous belt alignment with no damaging side contact.



### TROUGHING SELF-ALIGNING IDLERS

Misaligned belts contact side roller, idler pivots and centers belt.

## EXTERRA® BELT SCRAPERS



### PRIMARY CLEANER

Standard primary blade has up to 40% more urethane than competitors.



### SECONDARY CLEANER

Segmented chunks with tungsten carbide tips for long life.



### SFL DUAL CLEANER

Primary and secondary blade on one pole. Maintains proper tension for life of blade.

# CONVEYOR CONFIGURATION GUIDE

## RECEIVING HOPPERS



### GATHERING TROUGH (BASE)

Small target with skirting between belting and load zone.



### ROCK BOX

Ledges catch material (rock on rock) and provide larger target for conveyor feed.



### RADIAL RECEIVING

Sloped sides (rock on steel) provide larger target for conveyors to feed into load zone.



### MODULAR FEED

Much larger sloped sides with wing extensions to allow feed from a bucket or clam.

## LOAD ZONE



### SEALING SYSTEM

Maintains tight seal between belting and skirting to eliminate spillage.



### IMPACT BED

Energy absorbing bars protect belt from falling material. For high-capacity applications.



### IMPACT IDLERS

Act as a cushion to prevent belt damage from falling material.



### IMPACT CRADLE

Energy absorbing urethane segments protect belt from falling material.

## IDLERS



### MOXIE® ROLLS

HDPE sheds sticky material to prevent buildup on rolls for better belt tracking.



### URATHON® RETURN ROLLS

Urethane sheds sticky material to prevent buildup on rolls for better belt tracking.



### APPLICATION-SPECIFIC IDLER SEALS

Application-specific idler seals for better bearing protection in wet or dusty conditions.

# CONVEYOR CONFIGURATION GUIDE

## FRAME FINISHING



### GALVANIZED FINISH

Hot dipped zinc coating protects steel from air contamination and rust.



### CLASS 2 OR 3 PAINT

Epoxy coating protects steel from air contamination and rust. High performance finish extends life of steel in destructive conditions.

## ENVIRONMENTAL



### STAINLESS COMPONENTS

Upgrade to corrosion resistant idler frames, shafting, fitting and hardware.



### PRESSURIZED PANELS

Prevents any hazardous gas or dust from entering the enclosure.



### BELT COVERS

Protect conveyed materials from conditions and avoid dispersion of powders.

## SELF-CONTAINED POWER

- » Useful in remote areas without electricity
- » Follow production of your track plant
- » Diesel engine mounted to undercarriage
- » Standard engine models or customizable



Rock Face to Load Out™

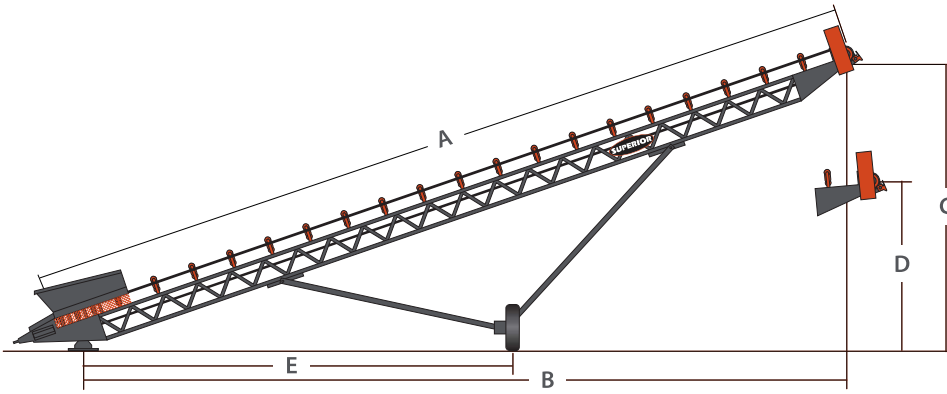
## SLIDE-STAC™ CONVEYORS

- » Three radial stackers in one towable load
- » 60 or 70 foot (18 or 20m) long conveyors
- » Safely rolls conveyors from stacked load
- » Safer than picking or lifting off load

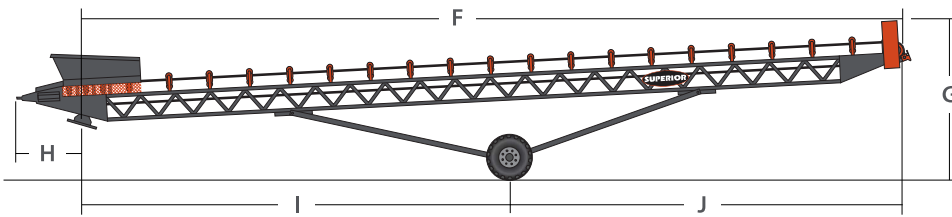


RADIAL STACKING CONVEYOR

# SPECIFICATION



	50'		60'		70'		80'		95'		100'		110'		125'		150'		
	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	
<b>OPERATING SPECIFICATIONS</b>																			
(A) Conveyor Length	50'-0"	15.2	60'-0"	18.2	70'-0"	21.3	80'-0"	24.4	95'-0"	29.0	100'-0"	30.4	110'-0"	33.5	125'-0"	38.1	150'-0"	45.7	
(B) Conveyor Ground Length	45'-9"	14.0	55'-2"	16.8	64'-9"	19.7	74'-0"	22.5	88'-7"	27.0	93'-0"	28.5	102'-0"	31.1	116'-2"	35.4	139'-9"	42.6	
(C) Raised Height to Center of Pulley	17'-11"	5.5	21'-4"	6.5	24'-0"	7.3	28'-1"	8.3	31'-7"	9.6	33'-11"	10.3	36'-0"	11.0	40'-11"	12.2	49'-6"	15.1	
(D) Lowered Height to Center of Pulley	12'-5"	3.8	13'-0"	3.9	14'-1"	4.3	14'-1"	4.2	14'-4"	4.3	13'-6"	4.1	17'-0"	5.2	19'-5"	5.9	17'-11"	5.5	
(E) Anchor Pivot to Center of Axle	25'-5"	7.8	31'-2"	9.5	35'-9"	10.9	40'-11"	12.4	48'-4"	14.6	51'-5"	15.6	56'-7"	16.9	60'-2"	18.4	77'-3"	23.6	



	50'		60'		70'		80'		95'		100'		110'		125'		150'		
	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	
<b>TRAVEL SPECIFICATIONS</b>																			
(F) Travel Length - Kingpin to Rear	49'-5"	15.1	59'-5"	18.1	74'-7"	22.6	63'-7"	19.4	73'-8"	22.3	78'-8"	24.0	60'-10"	18.6	70'-9"	21.6	80'-7"	24.6	
(G) Travel Height	11'-8"	3.6	11'-0"	3.3	12'-1"	3.7	12'-3"	3.7	14'-1"	4.2	13'-6"	4.2	14'-1"	4.3	14'-0"	4.3	13'-11"	4.2	
Travel Width	11'-6"	3.5	12'-0"	3.6	11'-9"	3.6	11'-9"	3.5	11'-9"	3.5	12'-0"	3.6	12'-8"	3.9	11'-11"	3.6	11'-11"	3.6	
(H) Kingpin to End of Tow Eye	5'-3"	1.6	5'-3"	1.6	5'-2"	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	
(I) Kingpin to Axle	24'-8"	7.6	30'-10"	9.4	36'-2"	11.0	40'-9"	12.5	48'-5"	14.8	53'-8"	16.4	29'-2"	8.9	33'-6"	10.2	49'-6"	15.1	
(J) Axle to Head Pulley	24'-9"	7.6	28'-7"	8.7	33'-4"	10.2	22'-10"	7.0	25'-3"	7.3	24'-11"	7.6	25'-8"	7.9	31'-3"	9.5	25'-3"	7.7	

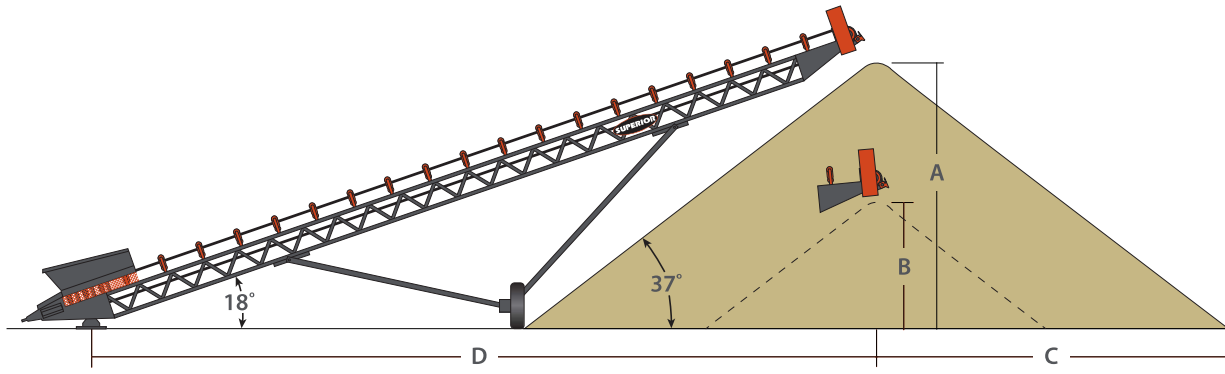
<b>WEIGHTS</b>																				
	lbs		kg		lbs		kg		lbs		kg		lbs		kg		lbs		kg	
Weight at Axle - 36" Belt Width	7,000	3,175	7,500	3,402	12,100	5,489	11,300	5,125	14,000	6,350	18,000	8,165	33,000	14,969	33,000	14,969	34,200	15,513		
Weight at Kingpin - 36" Belt Width	625	283	925	420	1,100	499	3,000	1,361	2,500	1,134	2,000	907	3,500	1,588	3,500	1,588	10,200	4,627		

NOTE: 80' (24.3m) and higher, have folds in structure for road travel.

## RADIAL STACKING CONVEYOR



# STOCKPILE SPECIFICATION



	50'		60'		70'		80'		95'		100'		110'		125'		150'	
	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m	ft x in	m
<b>STOCKPILE SPECIFICATIONS</b>																		
(A) Stockpile Height	16'-5"	5.0	19'-6"	5.9	21'-10"	6.7	25'-10"	7.8	31'-0"	9.4	31'-7"	9.6	34'-11"	10.6	39'-9"	12.1	44'-4"	13.5
(B) Lowered Stockpile Height	11'-2"	3.4	11'-0"	3.4	12'-2"	3.7	13'-3"	4.1	13'-0"	4.0	16'-2"	4.9	17'-3"	5.3	17'-3"	5.3	13'-8"	4.2
(C) Radius of Pile	21'-0"	6.4	27'-0"	8.2	29'-0"	8.8	36'-6"	11.2	41'-4"	12.6	42'-9"	13.0	47'-0"	14.3	55'-4"	16.9	61'-10"	18.9
(D) Anchor Pivot to Center of Pile	47'-10"	14.6	57'-6"	17.6	67'-8"	20.6	76'-5"	23.3	90'-6"	27.6	95'-3"	29.1	104'-6"	31.9	119'-0"	36.2	143'-4"	43.7

Conveyor Length	Stockpile Height		Conical		90°		180°		270°	
	ft	ft x in / m	tons	metric tons	tons	metric tons	tons	metric tons	tons	metric tons
<b>MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)*</b>										
50'	16'-5"	5.0	408	370	1,751	1,589	3,093	2,807	4,435	4,025
60'	19'-6"	5.9	684	620	2,971	2,696	5,259	4,772	7,546	6,848
70'	21'-10"	6.7	992	900	4,426	4,016	7,860	7,132	11,294	10,240
80'	25'-10"	7.8	1,589	1,442	6,901	6,262	12,213	11,083	17,525	15,903
95'	31'-0"	9.4	2,747	2,493	11,834	10,738	20,920	18,984	30,007	27,229
100'	31'-7"	9.6	2,904	2,635	12,854	11,664	22,803	20,692	32,753	29,721
110'	34'-11"	10.6	3,923	3,560	17,140	15,553	30,356	27,546	43,573	39,540
125'	39'-9"	12.1	5,791	5,255	25,318	22,974	44,844	40,694	64,371	58,413
150'	44'-4"	13.5	8,033	7,289	36,755	33,353	65,476	59,416	94,198	85,479
180'	57'-2"	17.4	17,221	15,627	75,523	68,533	133,826	121,439	192,129	174,346
200'	63'-10"	19.4	23,980	21,760	104,981	95,264	185,981	168,767	266,982	242,271

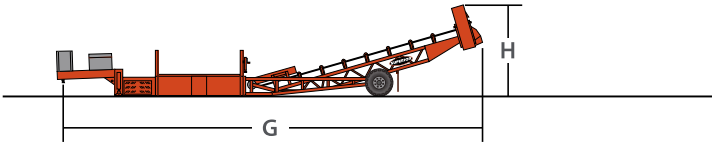
\* Assumptions based on material which has a 37° angle of repose and 100 PCF (1.6 t/m³) material density.

## PHOTO GALLERY

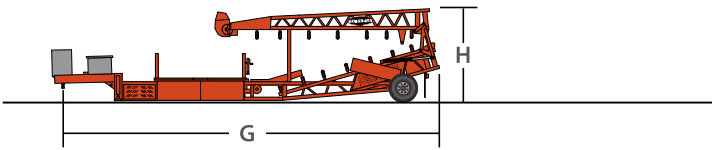


## TRAVEL SPECIFICATIONS

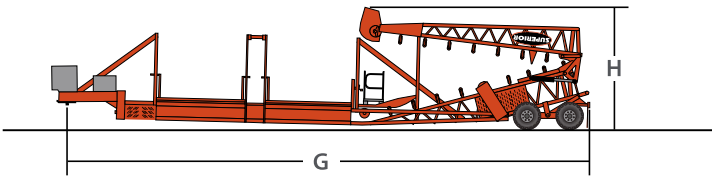
### 48-INCH BELT WIDTH CONVEYOR



### 48-INCH BELT WIDTH, WITH FOLDING DISCHARGE CONVEYOR



### 48-INCH BELT WIDTH, DUAL LANE WITH FOLDING DISCHARGE CONVEYOR



	48" (fixed height discharge)		48" (with adjustable discharge)		48" Haul Truck (not shown)		48" Dual Lane	
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
(G) Travel Length	53'-4"	16.3 m	46'-8"	14.2 m	50'-5"	15.4 m	67'-8"	20.6 m
(H) Travel Height	12'-6"	3.8 m	12'-6"	3.8 m	12'-6"	3.8 m	15'-7"	4.8 m
Travel Width	12'-8"	3.9 m	11'-1"	3.3 m	11'-9"	3.6 m	10'-10"	3.3 m
Weight at Axle	16,100 lb	7,300 kg	19,500 lb	8,845 kg	22,000 lb	9,980 kg	N/A	N/A
Weight at Axle*	19,800 lb	8,980 kg	23,700 lb	10,750 kg	N/A	N/A	N/A	N/A
Weight at Axle**	N/A	N/A	24,800 lb	11,250 kg	N/A	N/A	54,500 lb	24,720 kg
Weight at Kingpin	11,300 lb	5,125 kg	13,100 lb	5,940 kg	17,600 lb	7,980 kg	N/A	N/A
Weight at Kingpin*	16,300 lb	7,395 kg	19,600 lb	8,890 kg	N/A	N/A	N/A	N/A
Weight at Kingpin**	N/A	N/A	22,300 lb	10,115 kg	N/A	N/A	45,500 lb	20,640 kg
Axles	Single		Single/Tandem		Tandem		Tridem	

\*Tri-Fold Ramps, \*\*Hydraulic Tri-Fold Ramps

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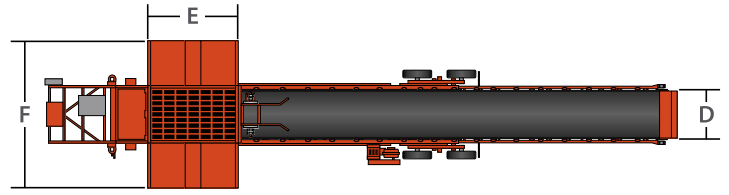
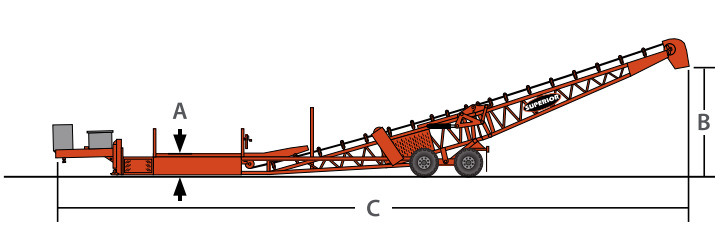
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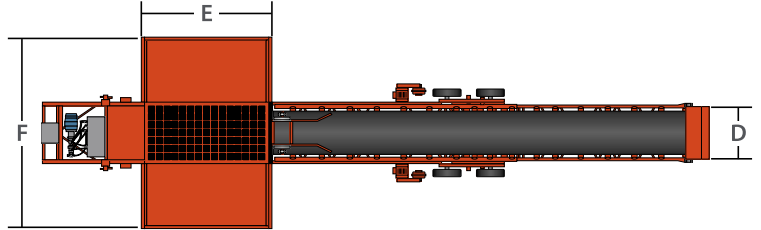
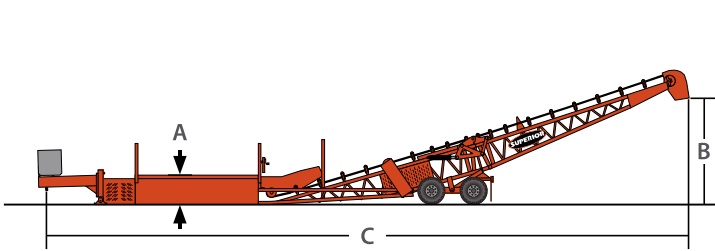


## OPERATING SPECIFICATIONS

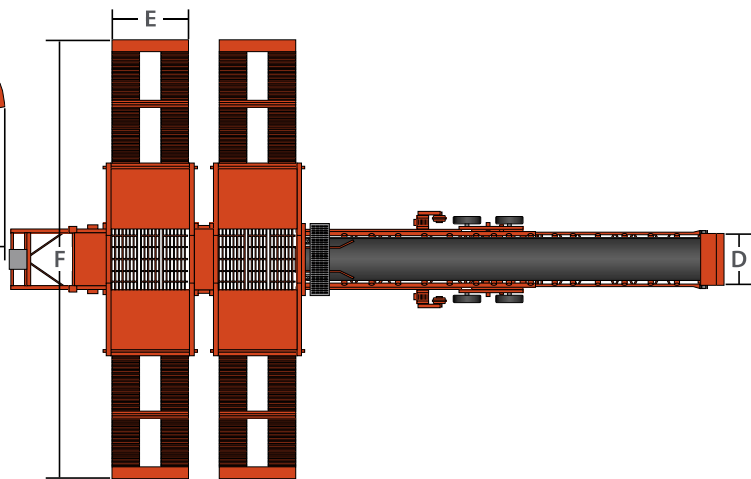
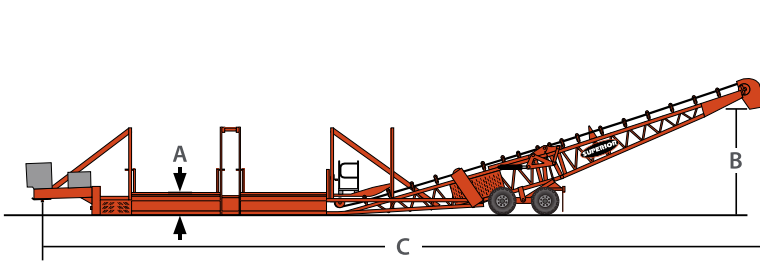
### 72-INCH BELT WIDTH, WITH FOLDING DISCHARGE CONVEYOR



### 72-INCH BELT WIDTH, HAUL TRUCK, WITH FOLDING DISCHARGE CONVEYOR



### 72-INCH BELT WIDTH, DUAL LANE WITH FOLDING DISCHARGE CONVEYOR



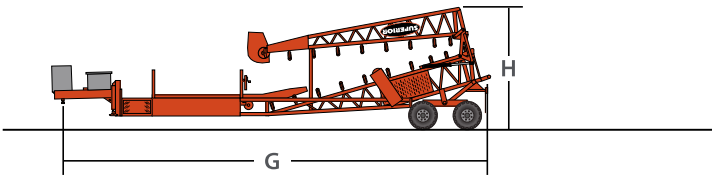
	72"*		72" Haul TRuck*		72" Dual Lane*	
	Imperial	Metric	Imperial	Metric	Imperial	Metric
Capacity	1,500 stph	1,360 mtph	2,000 stph	1,814 mtph	1,500 stph	1,360 mtph
Maximum Material Size	4" Minus	Minus 101mm	8" Minus	Minus 203mm	4" Minus	Minus 101mm
Cycle Time in Minutes	2.5 / 30 Short Tons	2.5 / 27 Metric Tonnes	2.5 / 40 Short Tons	2.5 / 36 Metric Tonnes	2.5 / 30 Short Tons	2.5 / 27 Metric Tonnes
(A) Earth Ramp Height	25"	635mm	37"	939mm	25"	635mm
(B) Discharge Height	7'-9" - 12'-8"	2.3 - 3.8 m	7'-9" - 12'-8"	2.3 - 3.8 m	7'-9" - 12'-8"	2.3 - 3.8 m
(C) Conveyor Length	79'-4"	24.2 m	84'-3"	25.7 m	93'-1"	28.4 m
(D) Conveyor Width	7'-0"	2.1 m	7'-0"	2.1 m	7'-0"	2.1 m
(E) Load Ramp Width	10'-2"	3.1 m	15'-2"	4.6 m	10'-2"	3.1 m
(F) Load Ramp Length	24'-0"	7.3 m	24'-0"	7.3 m	56'-5"	17.2 m

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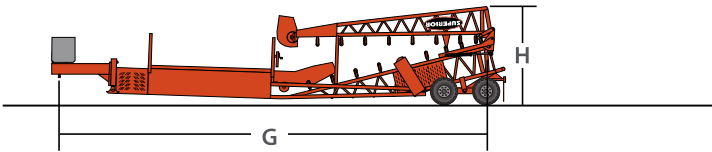
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## TRAVEL SPECIFICATIONS

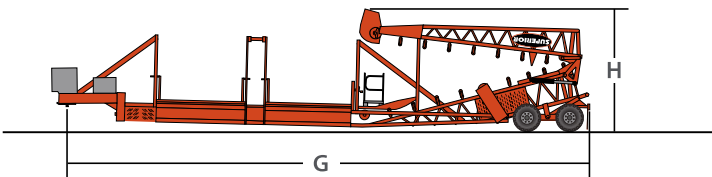
### 72-INCH BELT WIDTH, WITH FOLDING DISCHARGE CONVEYOR



### 72-INCH BELT WIDTH, HAUL TRUCK, WITH FOLDING DISCHARGE CONVEYOR



### 72-INCH BELT WIDTH, DUAL LANE WITH FOLDING DISCHARGE CONVEYOR



	72"*		72" Haul Truck *		72" Dual Lane *	
	Imperial	Metric	Imperial	Metric	Imperial	Metric
(G) Travel Length	52'-6"	16.0 m	57'-6"	17.5 m	66'-4"	20.2 m
(H) Travel Height	12'-6"	3.8 m	13'-7"	4.1 m	15'-11"	4.8 m
Travel Width	11'-9"	3.6 m	13'-10"	4.2 m	12'-3"	3.7 m
Weight at Axle	27,000 lb	12,245 kg	31,400 lb	14,250 kg	37,600 lb	17,050 kg
Weight at Axle*	29,200 lb	13,245 kg	N/A	N/A	44,000 lb	19,960 kg
Weight at Axle**	N/A	N/A	N/A	N/A	N/A	N/A
Weight at Kingpin	18,000 lb	8,165 kg	29,000 lb	13,150 kg	30,600 lb	13,880 kg
Weight at Kingpin*	24,200 lb	10,980 kg	N/A	N/A	39,800 lb	18,050 kg
Weight at Kingpin**	N/A	N/A	N/A	N/A	N/A	N/A
Axles	Tandem		Tandem		Tandem	

\*Tri-Fold Ramps, \*\*Hydraulic Tri-Fold Ramps

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