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Superior 36" x 80' Portable Radial Stacking Conveyor

Year: 2023

Serial Number: 2219461

Approx. Hours: Electric





AUTHORIZED DISTRIBUTOR FOR:
McCloskey **SUPERIOR** **LIPPMANN**
MDS **ECOVERSE** **MAJOR HARDOX**

**Superior 36" X 80' Portable Radial Stacking Conveyor**

Model #: 36X80PRSC

Conveyor Frame

Main Frame	30" deep truss
Chord Angles	3" x 3" x 1/4"
Bottom Chord Angles	Bottom Chord upsized between pinpoints to 4" x 3" x 1/2"
Lattice Members	1-1/2" x 1-1/2" x 3/16"
Containerized	not included

Drive Specifications

Drive	Class I head drive
Gear Reducer	Dodge Shaft Mount
Backstop	installed in reducer
Motor	30 HP TEFC
V-Belt Drive	with drive guard
Capacity	750 STPH of 100 PCF material, 25° surcharge (90% fines, 10% spherical lumps, 6" minus)
Belt Speed	400 fpm
Drive Pulley	18" diameter, 3/8" herringbone lagged drum
Tail Pulley	16" diameter, CEMA Chevron® wing
Shafts	Turned and Polished
Bearings	Dodge
Take-up	Screw type

Portability

Conveyor Splice	manual top folding head section
Undercarriage	manual raise with pin lock adjustment
Axle Type	telescoping axle, road portable
Transport Axle	Dual (4) 11R-22.5 tires and wheels
Radial Axle	manual swivel boxes
Radial Travel	manual
Fifth Wheel	not included
Anchor Pivot	maintains tail end during radial travel
Brakes	not included
Lights	not included
Mud Flaps	not included
Axle Jacks	not included
Landing Gear	not included
Towing Eye	pintle hitch type

Conveyor Components

Belting	2-ply 1/8 x 1/16 220PIW
Belt Splice	Flexco mechanical steel fasteners
Scrapers	Superior Exterra® Primary Belt Scraper
Idlers	CEMA B, 5" dia. Steel rolls, sealed for life ball bearings
Idler Seal	Superior Standard SpinGuard® Seal
Load Area	20° trough, 12-16" spacing
Trough	35° on 4' spacing
Returns	steel cans on 10' spacing
Radial Receiving Hopper	sloped, 5' long, bolt on design
Radial Hopper Liner	not included
Gathering Trough	5' long with adjustable rubber flashing

Additional Specifications

Guarding	For drive and tail pulleys, v-belt drive and return idlers. Guards may not meet all local codes; customer is responsible to have guarding inspected
Voltage	480 V / 3 PH / 60 Hz
Cord Holders	(1) set bent pipe style
Control Panel Plate	not included
Control Panel	control panel and wiring not included
Paint	1 coat primer, 1 coat finish enamel, Superior Graphite Grey (12-00636)
Guard Paint	Yellow
Idler Paint	Powder coated Superior Orange
Owner's Manual	(1) copy in English included for operation and maintenance

**Superior 36" X 80' Portable Radial Stacking Conveyor**

Model #: 36X80PRSC

Options**Drive Options**

Class II Reducer	Class II head drive	\$1,105	<input type="checkbox"/>
Backstop Included	installed in reducer	\$500	<input checked="" type="checkbox"/>

Portability Options

Manual Top Fold	manual top folding head section	\$1,030	<input checked="" type="checkbox"/>
Side Fold	side folding head section	\$5,750	<input type="checkbox"/>
Power Fold	hydraulic top folding head section, with integral belt keeper	\$12,765	<input type="checkbox"/>
Hydraulic Raise	Hydraulic raise with 7.5 hp electric pumping unit	\$9,820	<input type="checkbox"/>
Fold Down Axle	FD15 axle	\$29,335	<input type="checkbox"/>
Electric Power Travel	1 axle, 2 hp electric	\$6,050	<input type="checkbox"/>
FD Axle All Wheel Drive	(2) 2 HP planetary (all wheel drive)	\$2,775	<input type="checkbox"/>
Fifth Wheel	for road travel, bolt on design	\$715	<input type="checkbox"/>
Anchor Pivot Plate	maintains tail end during radial travel	\$1,225	<input checked="" type="checkbox"/>
Anchor Pivot for 5th Wheel	maintains tail end during radial travel, for 5th wheel	\$665	<input type="checkbox"/>
Brakes	complete air brake package	\$3,075	<input type="checkbox"/>
Lights	brake and directional signals	\$1,190	<input type="checkbox"/>
Mud Flaps	installed behind transport wheels	\$325	<input type="checkbox"/>
Hydraulic Axle Jacks	hydraulically raise axle to extend & swivel wheels (does not include hyd. Unit)	\$4,725	<input type="checkbox"/>
Landing Gear	manual pin adjustment	\$1,585	<input type="checkbox"/>

Component Options

Belt Upgrade	3-ply 3/16 x 1/16 330PIW	\$1,120	<input type="checkbox"/>
Vulcanized Belt Splice	Factory vulcanized belt splice	\$1,725	<input type="checkbox"/>
Primary Scraper	Superior Exterra® Primary Belt Scraper	\$1,290	<input checked="" type="checkbox"/>
Dual Scrapers	Superior Exterra® SFL Dual Belt Scraper	\$2,910	<input type="checkbox"/>
CEMA C Idlers	CEMA C, 5" dia. Steel rolls, sealed for life ball bearings	\$835	<input type="checkbox"/>
CEMA D Idlers	CEMA D, 5" dia. Steel rolls, sealed for life ball bearings	\$2,005	<input type="checkbox"/>
Titanium Idler Seal	Superior Titanium SpinGuard® Seal	\$140	<input type="checkbox"/>
Radial Receiving Hopper	sloped, 5' long, bolt on design	\$750	<input checked="" type="checkbox"/>
Hopper Liner	3/8" AR400 bolt-in liner	\$1,900	<input type="checkbox"/>

Control Options

575V	575 V / 3 PH / 60 Hz	\$0	<input type="checkbox"/>
380V	380 V / 3 PH / 50 Hz	\$0	<input type="checkbox"/>
Control Panel Plate	bracket only for panel and hydraulic levers	\$835	<input type="checkbox"/>
Control Panel	control panel and wiring included for on board motors	\$8,995	<input type="checkbox"/>

Additional Options

Containerized	Conveyor design to ship in 40' High Cube Containers	POR	<input type="checkbox"/>
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PORTABLE RADIAL STACKING CONVEYOR

More Sizes, More Options and More Strength Designed Into This Go Anywhere Stacker



4 TO 8 TIRES ON 42" X 60' AND UP



MANUAL SWIVEL ROAD/RADIAL TIRES

OPTIONS



ONBOARD POWER



SINGLE WHEEL DRIVE AT TAIL



HYDRAULIC RAISE



MOXIE ROLLS



AUTO GREASER



RECEIVING HOPPER



GALVANIZED PAINT



CLASS II REDUCER

MOBILITY

- » Onboard Power
- » Telescoping Radial Tires
- » FD Axle with Power Travel
- » All Wheel Drive
- » Pintle Hitch
- » Single Wheel Drive at Tail

OPERATION

- » Anchor Pivot Plate
- » Hydraulic Axle Jacks
- » Manual Pin Landing Gear
- » Crank Down Landing Gear
- » Hydraulic Raise/Lower
- » Hydraulic Powerfold
- » Manual Top/Side Fold

MAINTENANCE

- » Moxie® Rolls
- » Urathon® Return Rolls
- » Navigator Return Trainer
- » Exterra® SFL Dual Belt Cleaner
- » Impact Bed
- » Auto Greaser
- » Receiving Hopper
- » Compensation Linkage

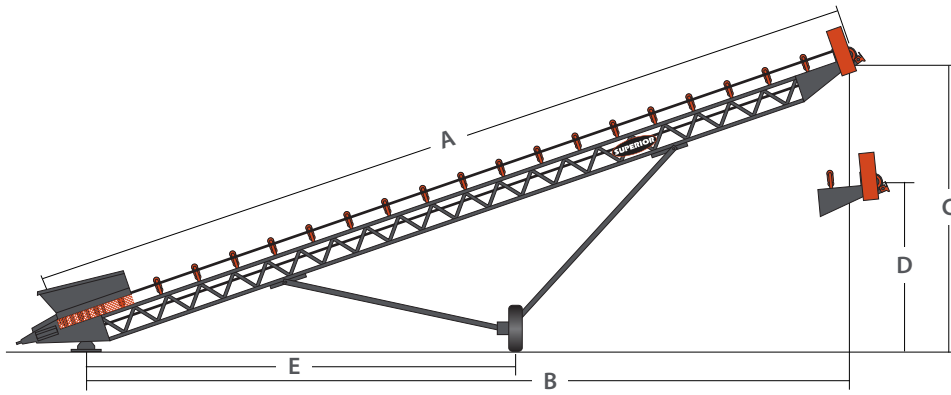
ENVIRONMENT

- » Belt Covers
- » Epoxy Paint
- » Galvanized Paint

OTHER

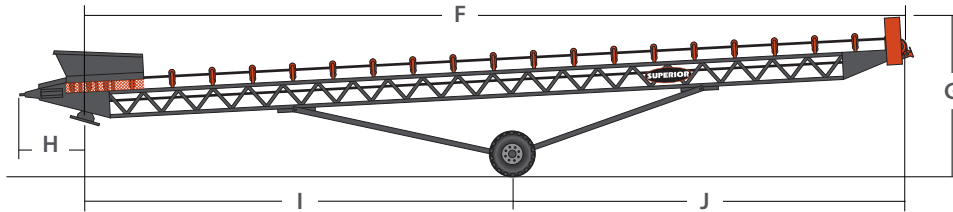
- » Class II Reducer
- » Belt Scale
- » Tank Heater

SPECIFICATION



OPERATING SPECIFICATIONS

	50'	60'	80'	95'	100'	110'	125'	150'
(A) Conveyor Length (m)	50'-0" (15.2)	60'-0" (18.2)	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 (m)	45'-9" (14.0)	55'-2" (16.8)	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 (m)	17'-11" (5.5)	21'-4" (6.5)	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 (m)	12'-5" (3.8)	13'-0" (3.9)	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 (m)	25'-5" (7.8)	31'-2" (9.5)	40'-11" (12.4)	48'-4" (14.6)	51'-5" (15.6)	56'-7" (16.9)	60'-2" (18.4)	77'-3" (23.6)

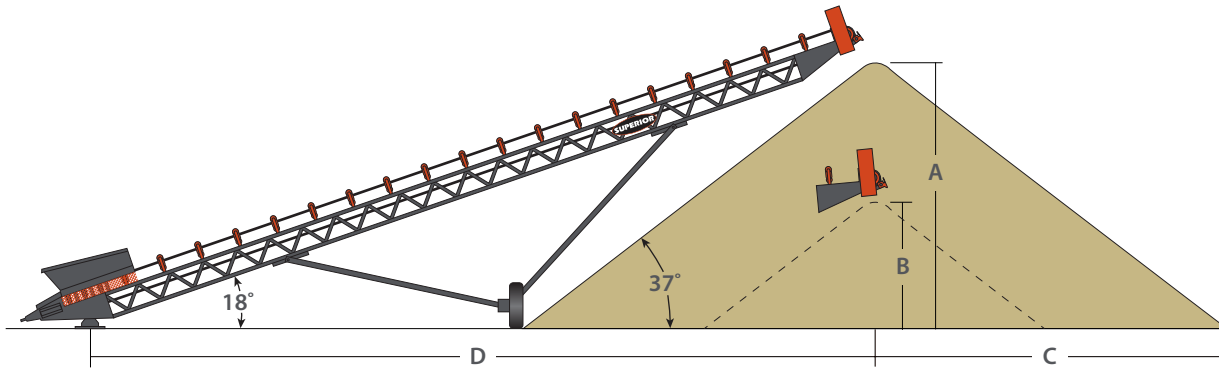


TRAVEL SPECIFICATIONS*

	50'	60'	80'	95'	100'	110'	125'	150'
(F) Travel Length - Kingpin to Rear (m)	49'-5" (15.1)	59'-5" (18.1)	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 (m)	11'-8" (3.6)	11'-0" (3.3)	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 (m)	11'-6" (3.5)	12'-0" (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 (m)	5'-3" (1.6)	5'-3" (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 (m)	24'-8" (7.6)	30'-10" (9.4)	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 (m)	24'-9" (7.6)	28'-7" (8.7)	22'-10" (7.0)	25'-3" (7.3)	24'-11" (7.6)	25'-8" (7.9)	31'-3" (9.5)	25'-3" (7.7)
FD Axle Size (If Equipped)	FD15	FD15	FD15	FD15	FD20	FD40	FD40	FD50
Weight at Axle - 36" Belt Width (kg)	7,000 (3,175)	7,500 (3,402)	11,300 (6,124)	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 (kg)	625 (283)	925 (420)	3,000 (1,361)	2,500 (1,134)	2,000 (1,769)	3,500 (1,588)	3,500 (1,588)	10,200 (4,627)

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

STOCKPILE SPECIFICATION



STOCKPILE SPECIFICATIONS

	50'	60'	80'	95'	100'	110'	125'	150'
(A) Raised Stockpile Height (m)	18'-6" (5.7)	21'-6" (6.5)	28'-0" (8.5)	32'-0" (9.7)	34'-0" (10.4)	37'-0" (11.3)	42'-0" (12.8)	49'-0" (14.9)
(B) Lowered Stockpile Height (m)	11'-2" (3.4)	11'-0" (3.4)	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 (m)	21'-0" (6.4)	27'-0" (8.2)	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 (m)	47'-10" (14.6)	57'-6" (17.6)	76'-5" (23.3)	90'-6" (27.6)	95'-3" (29.1)	104'-6" (31.9)	119'-0" (36.2)	143'-4" (43.7)

MAXIMUM STOCKPILE CAPACITIES (MANUAL PILES)*

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°
50'	18'-6" (5.7)	430 (330)	1,700 (1,300)	2,900 (2,200)	4,200 (3,200)	580 (530)	2,300 (2,100)	4,000 (3,600)	5,600 (5,100)
60'	21'-6" (6.6)	680 (520)	2,700 (2,100)	4,800 (3,700)	6,800 (5,200)	920 (840)	3,700 (3,400)	6,400 (5,800)	9,200 (8,300)
80'	28'-0" (8.5)	1,500 (1,200)	6,000 (4,600)	10,500 (8,000)	15,000 (11,500)	2,000 (1,800)	8,100 (7,300)	14,200 (13,000)	20,200 (18,300)
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)
100'	34'-0" (10.4)	2,700 (2,100)	11,100 (8,500)	19,500 (14,900)	28,600 (21,400)	3,600 (3,300)	15,000 (13,600)	26,400 (23,900)	38,000 (34,500)
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 (15,900)	36,700 (28,100)	52,600 (40,200)	6,700 (6,100)	28,100 (25,500)	49,600 (45,000)	71,100 (64,500)
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)

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