Radial Stackers

Radial Stacking Conveyor

- **Application:** The Radial Stacking Conveyor is an efficient, cost-effective solution for stockpiling large volumes of bulk material. Its pivoting tail and rolling front assembly allow the conveyor to create crescent-shaped stockpiles up to 270°. Standard models feature belt widths from 24” to 48” and lengths from 60’ to 150’, while custom options are available with widths from 18” to 72” and lengths tailored to your application.






Application Information			
Belt Width (inches)	Maximum Recommended Material Size (inches)	Design Throughput with Standard Conveyor * STPH (MTPH)	Maximum Possible Throughput** (STPH/MTPH)
18	3.6	150 (136)	300 (270)
24	4.8	275 (250)	600 (540)
30	6	400 (400)	1000 (900)
36	7.2	500	1500 (1360)
42	8.4	800	2000 (1800)
48	9.6	1200 (1130)	2500 (2260)
54	10.8	1600 (1450)	3500 (3170)
60	12	2000 (1800)	4500 (4080)
72	14.4	3000 (2720)	6000 (5400)

* with sufficient horsepower and standard 100 PCF density material
** highly dependent on application - please consult with your Goodfellow representative

Heavy-Duty Design and Construction:

- All conveyor structures are specifically engineered to a high factor of safety, accounting for factors such as material buildup, conveyor overturning, and material load.
- Lattice frames with 3/8” thick chord angles, and a careful combination of 3/16” and ¼” lattice angles to ensure durability and efficiency
- Chord angles sized for all loading conditions – no “stacking” of reenforcing angles, which are prone to rusting and premature structural failure
- Braced supports and wide-stance axles withstand side-loading.
- Class II gearbox selection standard.
- Dodge SCM ball bearings standard on conveyors 30HP and less. Dodge spherical roller adapter-mount bearings standard on 40HP and above.
- Heavy-duty pintle-hitch included with all pit and road-portable conveyors

Contact us at any of our six locations to discuss your specific needs!

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Upgrade to RSCX Conveyors: All of the features of RSC conveyors, plus:

- Trussed undercarriage with swing-out axles gives a constant axle path, allowing the conveyor to be raised and lowered on-the-fly
- Axles set-back to allow for conveyor angles up to 22 degrees without the stockpile burying the axles (assumed angle of repose of 37 degrees) – up to 70% increased stockpiling volume compared to a standard 18 degree conveyor.
- All RSCX Conveyors utilize a wrap-drive
- Currently available in 100’ and 150’ lengths only. 100’ RSCX is comparable to a 125’ RSC, and a 150’ RSCX is comparable to a standard 170’ RSC.

Design Features:

Axle Styles: Fixed Width/Pit Portable, Fixed Width/Fixed Axle, Road-Portable Slide-Tube, Swing-out axles



Figure 1: Fixed-width Pit-Portable wide-stance axles. Standard on RSC Conveyors

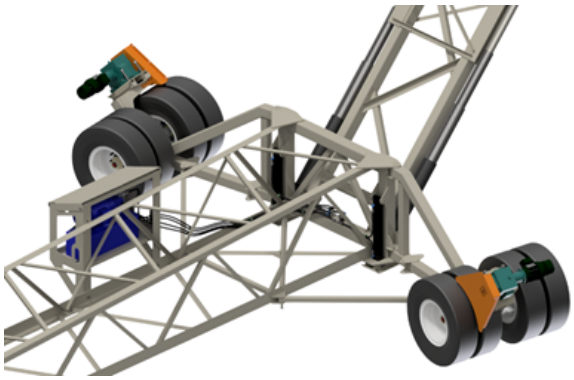


Figure 2: Trussed Undercarriage with swing-out axles. Standard on RSCX Conveyors

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Receiving Area Dirtbox Options: 60” Length with AR Liners (1/4” Weld-in or ½” Bolt-in) and rubber skirting, 96” length with 1” Rubber Canoe Liners

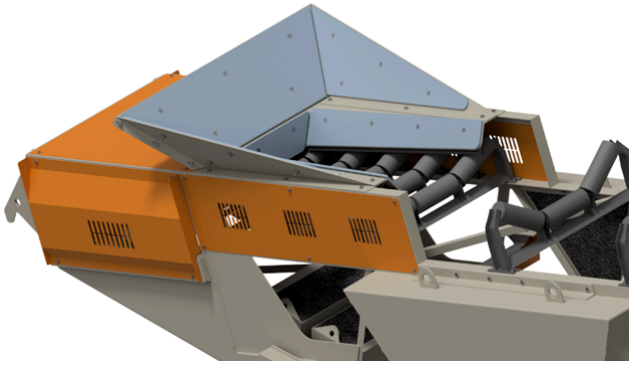


Figure 3: Standard 60" Dirtbox with 1/2" Bolt-in AR Liners

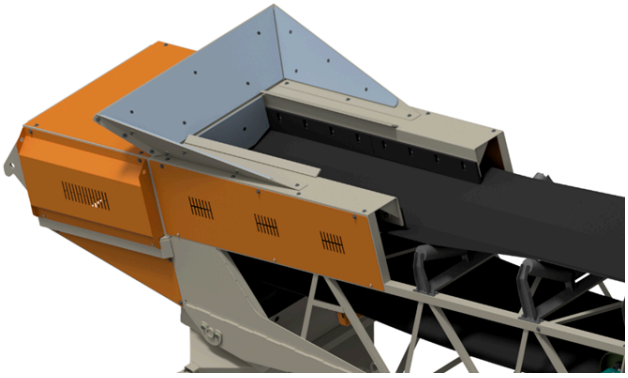
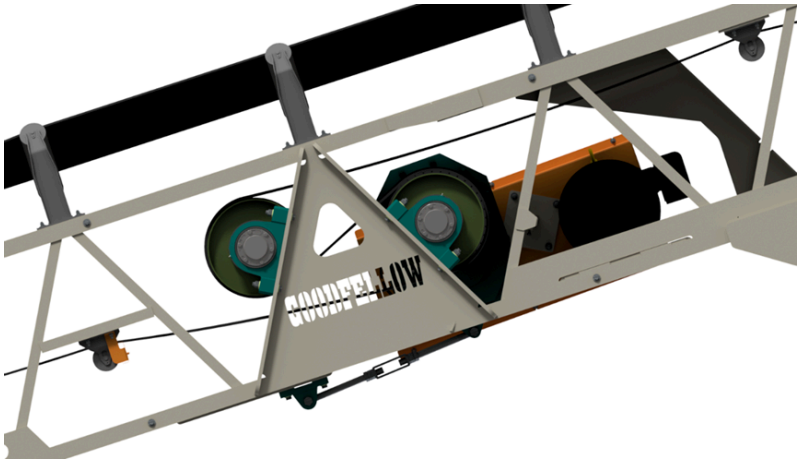


Figure 4: 96" Dirtbox with 1" Canoe Rubber Skirting

Variety of Receiving Hopper Options: Radial (standard), Oversized, Rock Shelf, etc. Variety of liner options: ¼” AR450 weld-in is standard, ½” AR450 bolt-in is a common upgrade, but nearly any liner style can be accommodated.

Wrap-Drive Features: For conveyors over 100’ or with drives of 40 HP+, our unique wrap-drive positions the drive near the tail for easy maintenance and increased belt wrap for higher friction and lower tension. Unlike many competitors, a high-tension bend pulley is placed in front of the drive, protecting both the drive and belt from debris—no belt plow needed. For dirty material with heavy carryback, a herringbone wing pulley is recommended for the bend pulley.



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RSC and RSCX Conveyors – Specs at a glance				
Belt Width	Length (ft)	Road-Portable Available?	Drive Style	Standard Horsepower RSC (RSCX)
24	60	Custom	Head	15
	80	Custom	Head	20
	100	Custom	Head	20
	125			25
	150			30
30	60	Custom	Head	20
	80	Custom	Head	25
	100	Custom	Head	30
	125	Custom	Wrap	40
	150	Custom	Wrap	40
36	60	Custom	Head	25
	80	Yes	Head	30
	100	Yes (RSCX)	Head	30 (40)
	125	Yes	Wrap	40
	150	Custom	Wrap	50 (50)
42	60	Custom	Head	30
	80	Yes	Head	40
	100	Yes (RSCX)	Wrap	50 (50)
	125	Yes	Wrap	60
	150	Custom	Wrap	75 (75)
48	60	Custom	Head	30 (Derate to 800 STPH)
	80	Custom	Head	50 (Derate to 1000 STPH)
	100	Custom	Wrap	75 (75)
	125	Custom	Wrap	100
	150	Custom	Wrap	100 (125)

Highlighted lengths are current “standard” designs.

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Approximate Stockpile Volumes (assumes bulk material density of 100 PCF and 37 deg. Angle of repose)

Stockpile Information									
Belt Length	Max Disch. Height	Pile Radius	Approximate Storage Volume – Cubic Yards/(Tons)						
			CONE	45	90	135	180	225	270
60’	20	82	600 (810)	1,500 (2,025)	2,410 (3,253)	3,310 (4,468)	4,215 (5,690)	5,120 (6,912)	6,025 (8,133)
80	26	109	1,320 (1,782)	3,370 (4,549)	5,425 (7,323)	7,480 (10,098)	9,535 (12,872)	11,590 (15,646)	13,645 (18,420)
100	32	136	2,450 (3,307)	6,360 (8,586)	10,270 (1,3864)	14,180 (19,143)	18,090 (24,421)	22,000 (29,700)	25,910 (34,978)
100 RSCX	39	142	4,220 (5,697)	9,700 (13,095)	15,180 (20,493)	20,650 (27,877)	26,130 (35,275)	31,600 (42,660)	37,080 (50,058)
125	40	170	4,610 (6,223)	12,090 (16,321)	19,560 (26,406)	27,040 (36,504)	34,520 (46,602)	42,000 (56,700)	49,480 (66,798)
150	48	204	7,760 (10,476)	20,500 (27,675)	33,240 (44,874)	45,980 (62,073)	58,710 (79,258)	74,460 (100,521)	84,190 (113,656)
150 RSCX	58	213	13,520 (18,252)	31,490 (42,511)	49,460 (66,771)	67,420 (91,017)	85,390 (115,276)	103,360 (139,536)	121,330 (163,795)
170	54	231	11,130 (15,025)	29,510 (39,838)	47,900 (64,665)	66,290 (89,491)	84,670 (114,304)	103,060 (139,131)	121,450 (163,957)
190	60	258	15,350 (20,722)	40,850 (55,147)	66,340 (89,559)	91,840 (123,984)	117,340 (158,409)	142,840 (192,834)	168,330 (227,245)
210	66	285	20,520 (27,702)	54,760 (73,926)	89,000 (120150)	123,240 (166,374)	157,480 (212,598)	191,710 (258,808)	225,950 (305,032)

To convert from Cubic Yards to tons, Use this formula: Tons = Cubic Yards * Bulk Material Density (lb/ft^3) *(27/2000). For standard 100 PCF material, use: Tons = Cubic Yards * 1.35

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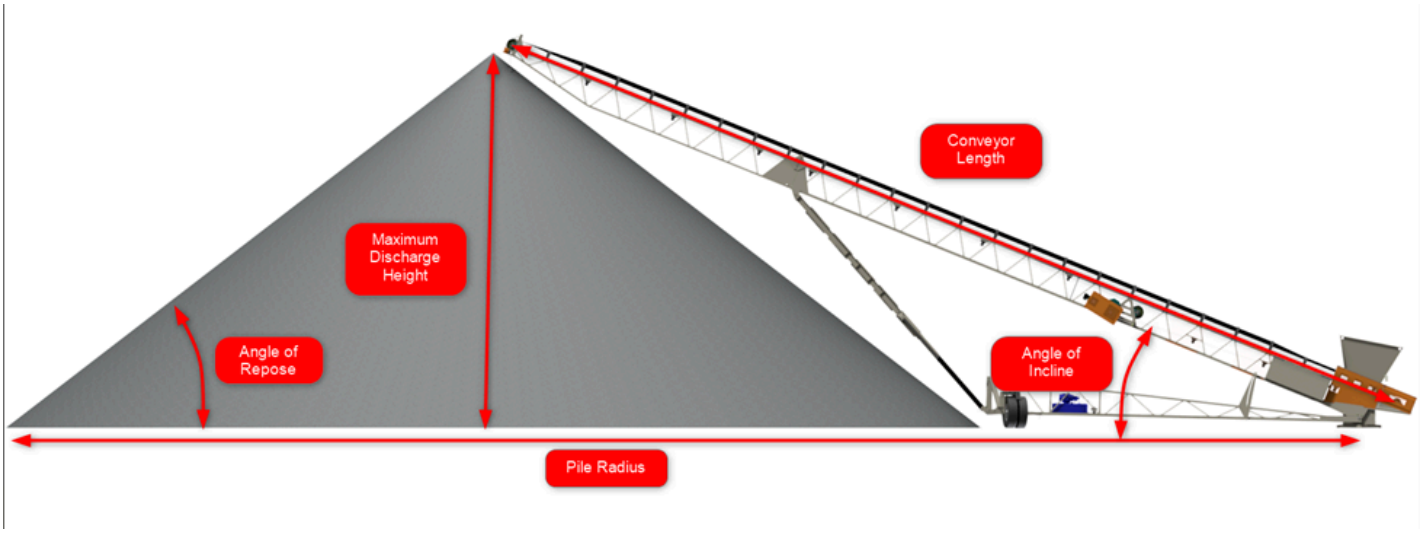
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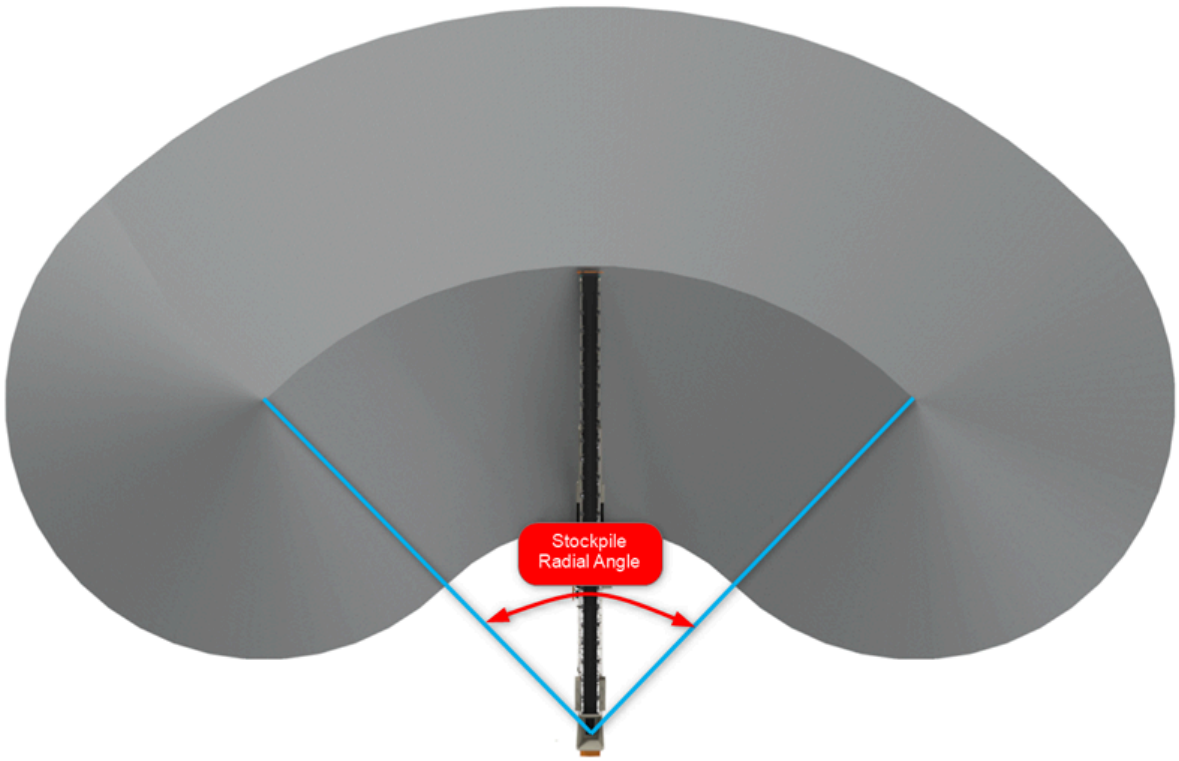
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