



# Compost Mixers

## Rotary and Vertical

*Designed for Composting Performance*



# Compost Rotary Mixers

Available as Truck, Trailer or Stationary Models

## Dependable Rotary Mixers for Composting

Progressive compost technicians know once a proper recipe has been selected, mixing the ingredients is essential to ensure rapid decomposition and quality compost. One of the major benefits of mixing is to uniformly distribute nutrients and microorganisms throughout the compost pile.

The ROTO-MIX design combines gentle tumbling with quick, complete mixing to save time and improve your bottom line. The ROTO-MIX conveyor can be used to build windrows or static piles.

### Compost Rotary Mixers

Model	Capacity
274-12B	270 cu. ft.
354-12B	350 cu. ft.
414-12B	410 cu. ft.
540-12B	540 cu. ft.
620-12B	620 cu. ft.
720-12B	720 cu. ft.
920-12B	920 cu. ft.

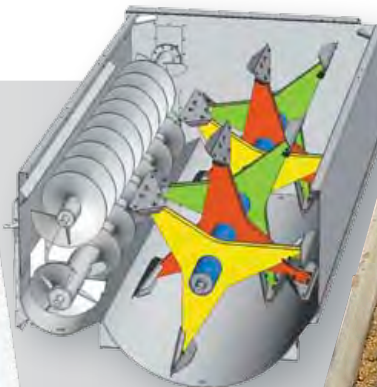


**920-18 Stationary Rotary Mixer (920 cu. ft. capacity)**  
Operating on composting site

**Better Mix  
Less Time  
Save Fuel**



### GeneRation II Staggered Rotor



## GeneRation II Staggered Rotor Mixers

The rotor design lifts ingredients up to the side augers that move ingredients end-to-end for a fast thorough mix. Unlike the wedge point on other brands, our rotor lifts the material past the wedging point of the lower side auger, giving you a fluffier mixture while lowering power requirements. Total movement of material in the mixing chamber eliminates dead spots common in conventional auger mixers.

The ROTO-MIX mixing system carries US Patent Nos. 4,506,990—4,597,672—4,741,625 and CANADA Patent No. 1,249,262—other foreign patents pending.



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Watch the video at

[www.rotomix.com](http://www.rotomix.com)



**Staggered Rotor Industrial Series Mixers** feature superior blend with reduced maintenance and operating cost.

**Particle Integrity**

The ROTO-MIX system protects particle size with less grinding or compaction. Particle size and porosity are critical because it determines how well air can enter and diffuse into the composting mass.

**Flexibility**

Mixes all types of compost ingredients, solid waste, yard waste, food waste, sludge and amendments, animal manure and a number of others with consistency day after day.

**Fluff**

With better air introduction and distribution, ROTO-MIX consistently produces quality compost by lifting the ingredients past the lower auger's wedge point, resulting in a fluffier mixture that starts to compost faster.

**Totally Mixed Compost**

Our thorough mixing action eliminates dead spots, auger tunneling and corner pile-up giving a consistent balance of nutrients and microorganisms from the first yard of compost to the last.



**920-18 Stationary Rotary Mixer (920 cu. ft. capacity)**  
Land fill composting operation

### Industrial Scale Check System

Load-cell mounting comes standard with ROTO-MIX ball and socket type tie bars to connect the mixer to the frame. This feature eliminates side and end movement on the load cells, which allow for scale dependability and accuracy.

### Conveyor

Optional hydraulic folding conveyor up to 120" long gives you ability to build windrows, static piles or load truck fast and efficiently. We also have a portable stand-alone conveyor for stationary models.

### Clean-Out

The forward pitch rotor design, adjustable UHMW wiper blades, and the rotation of the lower auger quickly and efficiently cleans out the mixing chamber.

### Full Scale Frame

Sturdy box frame construction with rectangular tubing for increased stability and weighing accuracy. Scale frame assembly allows scale frame to float independent of truck frame.

### Easy Access Rear Doors

The single lever latch makes inspection easy and desirable compared to other little latches or hardware.



### Single Point Grease Bank

Allows quick lubrication from a single point. Heavy-duty drive assembly runs in an enclosed oil bath.



### Industrial Duty Drive Train

Spline shafts eliminate shearing of keys and gaulding of shafts. Heavy-duty chains and bearings extend life and reduce downtime.

### Lower Center of Gravity

A lower center of gravity makes for a more stable unit when making windrows and less shock load when cornering.



### Forward Pitched Rotor

The patented rotor lifts ingredients up to the side augers that move the ingredients from end-to-end for thorough mixing. The lifting action of the rotor eliminates wedging of the compost under the lower auger. Patented tumbling design reduces mixing power requirements.

### Flared Side

The flared side allows ingredients to tumble out of the rotor speeding up the mixing action and reducing the chance for ingredients to get trapped inside the rotor.

### 354-12B Stationary Rotary Mixer (350 cu. ft. capacity)

Mixing composting ingredients and discharging to conveyor.

### Industrial Flighting

3/4", 5/8" and 1/2" flighting available for lower auger to extend life. Top augers available in 3/8" and 1/2" flighting.



# Compost Vertical Mixers

Available as Truck, Trailer or Stationary Models



1355 Vertical Compost Mixer (1150 cu. ft. capacity)

## Dependable Vertical Mixers for Composting

When mixing ingredients for a selected compost recipe, it is important to ensure a rapid decomposition to create a quality compost. By using a compost mixer, it will uniformly distribute nutrients and microorganisms throughout the compost pile. Roto-Mix vertical mixers range in size from three smaller capacity Single auger units ranging from 315 to 500 cu. ft. to nine different Twin auger mixers ranging from 320 cu. ft. all the way up to 1300 cu. ft.

These vertical mixers efficiently and thoroughly mix materials such as municipal sludge waste and wood chips to produce quality compost. Rear mounted conveyor builds compost piles and is fed from the rear gate controlled by the operator.



1105 Vertical Compost Mixer trailer (900 cu. ft. capacity)

### Compost Vertical Mixers

Model	Capacity	Auger(s)	Truck	Trailer	Stationary
325	320 cu. ft.	Twin	✓	✓	✓
425	420 cu. ft.	Twin	✓	✓	✓
505	500 cu. ft.	Twin	✓	✓	✓
625	620 cu. ft.	Twin	✓	✓	✓
745	740 cu. ft.	Twin	✓	✓	✓
865	860 cu. ft.	Twin	✓	✓	✓
1105	900 cu. ft.	Twin	✓	✓	✓
1355	1150 cu. ft.	Twin	✓	✓	✓
1505	1300 cu. ft.	Twin	✓	✓	✓
VX 315	315 cu. ft.	Single		✓	
VX 415	415 cu. ft.	Single		✓	
VX 515	515 cu. ft.	Single		✓	



### Vertical Compost Series

process and incorporate coarse carbon sources quickly and efficiently.

VX Single Auger Compost Mixers are all trailer mounted, skid steer friendly, have a low profile with a modular design. The single auger simplicity offers a high quality mix. Most skid -steer loaders can easily load compost ingredients. These mixers have a low-center-of-gravity, are very stable and can maneuver in tight areas.

Twin Auger Compost Mixers are all available in Truck, Trailer or Stationary models. The 325, 425 and 505 models are low profile and offer fast processing of compost mixtures with a quick discharge requiring low horsepower with chain and sprocket drive. Models 625, 745 and 865 offer more capacity. Truck units offer variable displacement Hydrostat Drive System and FEPTO Drive is standard on front of the engine crankshaft. The trailer units have two speed PTO driven gear box with manual shifter. Hydraulic operated door and conveyor with four hoses. The larger

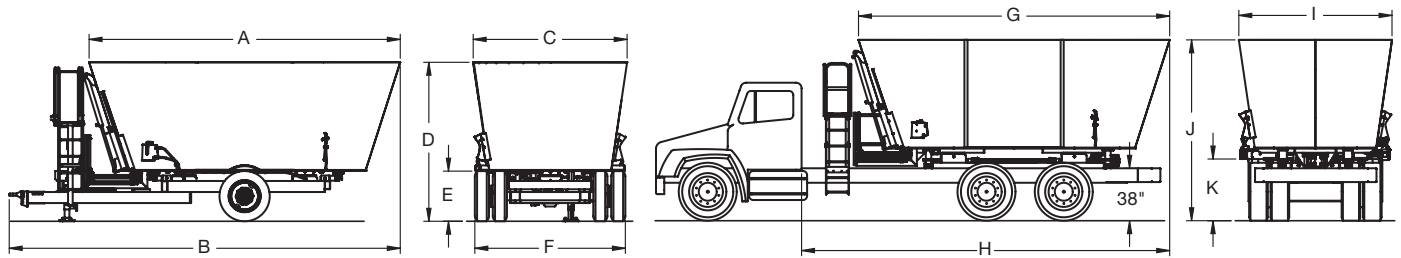
capacity Vertical models 1105, 1355 and 1505 are available in either the H-Series equipped with variable speed hydrostatic drives or the A-Series variable speed Auto-Mix drives with proven Allison Transmission performance.



### 620-18 truck (620 cu. ft. capacity)

Receiving waste material from waste treatment plant for mixing and composting.





## Vertical Compost Mixers

Ref	Specifications	325	425	505	625	745	865	1105	1355	1505
	Auger Flighting	Single	Single	Single	Single	Single	Single	Single	Single	Single
	Empty weight, trailer models, lb. (kg)	7,940 no conveyor (3602)	9,660 (4382)	10,336 (4688)	13,900 (6305)	15,200 (6895)	15,200 (6895)	17,100 (7756)	20,600 (9344)	20,600 (9344)
	Weight, 8" end cap ext., lb. (kg)	NA	NA	NA	150 (68)	150 (68)	150 (68)	150 (68)	150 (68)	150 (68)
A	Trailer tub length, in. (cm)	160 (406)	180 (457)	180 (457)	NA	220 (559)	226 (574)	245 (622)	245 (622)	245 (622)
B	Trailer overall length, in. (cm)	207 (526)	217 (551)	217 (551)	NA	280 (711)	283 (719)	307 (780)	320 (813)	320 (813)
C	Trailer tub width, in. (cm)	84 (283)	91 (231)	90 (229)	NA	108 (274)	111 (282)	116 (295)	116 (295)	116 (295)
D	Trailer overall height, in. (cm)	94 (239)	97 (246)	109 (277)	NA	105 (267)	115 (292)	114 (290)	135 (343)	145 (368)
E	Trailer discharge height, in. (cm)	17-32 (43-81)	19-26 (48-66)	19-25 (48-63.5)	NA	27-49 (69-124)	27-49 (69-124)	34-56 (86-142)	34-56 (86-142)	34-56 (86-142)
F	Trailer outside tread width (tires), in. (cm)	85 (216)	108 (274)	108 (274)	NA	110 (279)	110 (279)	120 (305)	100 (254)	100 (254)
G	Truck tub length, in. (cm)	160 (406)	180 (457)	180 (457)	202 (513)	220 (559)	226 (574)	245 (622)	245 (622)	245 (622)
H	Truck behind cab to end of tub, in. (cm)	165 (419)	185 (470)	185 (470)	255 (648)	264 (671)	267 (678)	276 (701)	276 (701)	276 (701)
I	Truck tub width, in. (cm)	84 (283)	91 (231)	90 (229)	98 (249)	108 (274)	111 (282)	116 (295)	116 (295)	116 (295)
J	Overall height with 38" truck frame, in. (cm)	113 (287)	122 (310)	134 (340)	118 (300)	121 (307)	131 (333)	126 (320)	142 (361)	152 (361)
K	Discharge height with 38" truck frame, in. (cm)	23-38 (58-97)	25-31 (64-79)	25-31 (64-79)	32 (81)	45 (114)	45 (114)	45 (114)	45 (114)	45 (114)
	Transport width, in. (cm)	100 (254)	109 (277)	109 (277)	105 (267)	107.5 (273)	110.5 (281)	114 (290)	130 (330)	140 (356)
	Loading height, trailers, in. (cm)	94+7 for rubber extension (239+18)	96.75+7 for rubber extension (246+18)	108.75+7 for rubber extension (276+18)	NA	104.5 (265)	114.5 (291)	114 (290)	130 (330)	140 (356)
	Hydraulic drive system	NA	NA	NA	Truck	NA	NA	Trailer‡	Trailer‡	Trailer‡
	Auto-Mix drive	NA	NA	NA	NA	NA	NA	Optional	Optional	Optional
	PTO speed, rpm	540	540	540	1,000	1,000	1,000	1,000	1,000	1,000
	Trailer recommended PTO horsepower (kilowatts)	75 (56)	100 (75)	100 (75)	NA	130 (97)	135 (101)	180 (134)	200 (149)	220 (164)
	Truck recommended engine horsepower (kilowatts)	NA	210 (157)	210 (157)	225 (168)	225 (168)	250 (186)	275 (205)	275 (205)	275 (205)
	Drive chain, roller chain	#100	#100	#100	NA	NA	NA	NA	NA	NA
	Tires size, trailers, in. (cm)	33 x 15.5-16.5	40 x 14.5 recapped aircraft or 385/65R x 22.5	40 x 14.5 recapped aircraft or 385/65R x 22.5	Truck	255/70R 22.5 36 OD (91)	255/70R 22.5 36 OD (91)	11R x 22.5 42 OD (107)	255/70R 22.5 37 OD (94)	255/70R 22.5 37 OD (94)
	Hubs, lb. (kg)	8 bolt 8,000 (3629)	10 bolt 12,000 (5443)	10 bolt 12,000 (5443)	Truck	10 bolt 20,000 (9072)	10 bolt 20,000 (9072)	10 bolt 20,000 (9072)	10 bolt 20,000 (9072)	10 bolt 20,000 (9072)
	Conveyor width, conveyor models, in. (cm)	36 (91)	36 (91)	36 (91)	42 (107)	42 (107)	42 (107)	42 (107)	42 (107)	42 (107)
	Maximum load with a hay ration by weight, lb. (kg)	6,400 (2903)	8,400 (3810)	10,000 (4536)	15,500 (7030)	13,300 (6033)	15,480 (7021)	19,800 lb. (8981)	24,300 (11022)	27,000 (12247)
	Maximum load with a heavy ration by weight, lb. (kg)	8,900 (4037)	11,750 (5330)	14,000 (6350)	21,500 (9525)	18,500 (8391)	21,500 (9752)	27,500 (12474)	33,750 (15309)	37,500 (17010)
	Mixing capacity* cu. ft. (m³)	320 (9)	420 (11.9)	500 (14.2)	620 (17.6)	740 (21)	860 (24.4)	900 (25.5)	1,150 (32.6)	1,300 (36.8)
	Discharge magnets	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Screw speeds at 1,000-RPM PTO	540 RPM	540 RPM	540 RPM	Variable up to 48 RPM	27/low 40/high	27/low 40/high	Variable 18 to 50 RPM†	Variable 18 to 50 RPM†	Variable 18 to 50 RPM†

All dimensions and specifications are approximate and subject to change without notice.

\*Extension capacity

†With HDS

‡Minimum tractor PTO 180 hp (210 Engine HP-156 [kw] or higher).

For dimensions and specifications of VX models, please visit our website.



### Rotary Compost Mixers

Ref	Specifications	274-12B	354-12B	414-14B	540-14	620-16	720-16	920-18
	Tub Bottom, in. (cm) *	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)
	Auger Bottom, in. (cm) *	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)	3/8 (0.9525)
	Ends, in. (cm)	7 Ga. (0.4547)	7 Ga. (0.4547)	7 Ga. (0.4547)	1/4 (0.635)	1/4 (0.635)	1/4 (0.635)	1/4 (0.635)
	Upper Sides	10 Ga. (0.3404)	10 Ga. (0.3404)	10 Ga. (0.3404)	7 Ga. (0.4547)	7 Ga. (0.4547)	7 Ga. (0.4547)	3/16 (0.4762)
	Top Auger Flight OD, in. (cm) *	3/8 x 16 (0.952 x 41)	3/8 x 20 (0.952 x 51)	3/8 x 20 (0.952 x 51)	3/8 x 24 (0.952 x 61)	3/8 x 24 (0.952 x 61)	3/8 x 24 (0.952 x 61)	3/8 x 24 (0.952 x 61)
	Lower Auger Flight OD, in. (cm) *	3/8 x 16 (0.952 x 41)	1/2 x 20 (1.27 x 51)	1/2 x 20 (1.27 x 51)	3/4 & 1/2 x 24 (1.90 & 1.27 x 61)	3/4 & 1/2 x 24 (1.90 & 1.27 x 61)	3/4 & 1/2 x 24 (1.90 & 1.27 x 61)	3/4 & 1/2 x 24 (1.90 & 1.27 x 61)
	Auger Drive—Roller Chain *	#60,80,100	#60,80,100	#60, 80, 100HT	#80,100,120	#80,100,120	#100, 100, 120	Hydrostatic
	Rotor Drive—Roller Chain	#100	#100	#100HT	#140	#140	#120-2	#180
	Top Auger Drive Shaft, in. (cm)	2 1/2 (6.35)	2 1/2 (6.35)	2 1/2 (6.35)	3 1/2 (8.89)	3 1/2 (8.89)	4 (10)	3 1/2 (8.89)
	Lower Auger Drive Shaft, in. (cm)	3 (7.62)	3 (7.62)	3 (7.62)	4 (10)	4 (10)	4 (10)	3 1/2 (8.89)
	Rotor Drive Shaft, in. (cm)	3 1/2 (8.89)	3 1/2 (8.89)	3 1/2 (8.89)	3 1/2 (8.89)	3 1/2 (8.89)	9 3/4 (24.77)	9 3/4 (24.77)
	Stationary—Electric (Hay Processor) Horsepower (kilowatts)	20 (14.92)	25 (18.65)	30 (22.38)	50 (36.77)	50 (36.77)	50 (36.77)	75 & 40 (55.16 & 29.42)
	Stationary—Electric (Standard) Horsepower (kilowatts)	15 (11.19)	20 (14.92)	25 (18.65)	40 (29.42)	40 (29.42)	50 (36.77)	60 & 40 (44.13 & 29.42)
	Recommended PTO Horsepower (kilowatts)	50 (37.28)	55 (41.01)	60 (44.74)	100 (74.57)	100 (74.57)	110 (82.03)	125 (93.21)

\* Other options available.

† Special door sizes and locations available for all stationary mixers.

‡ Tire sizes may vary height.

All dimensions and specifications are approximate and subject to change without notice.

Weights listed with most common option packages excluding folding conveyors.

Ask for a demonstration

Distributed by:



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