



Rotary Mixers

Designed for Feeding Performance



Commercial Series

Models 274-12B, 354-12B, 414-14B, 540-14, 620-16, 720-16, 920-18 truck, trailer or stationary



Model 1220-20



Model 920-18

Truck Features

- Cross Bar assembly
- 3 piece rear bumper
- Optional Heavy Duty full front bumper with or without roller.
- Optional shear bar, recommended with staggered rotor.
- Optional poly or steel fender kit



Model 620-16XD shown with optional hay processor



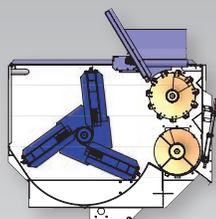
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Why ROTO-MIX?

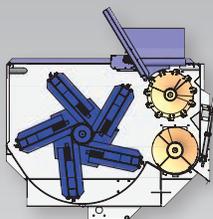
ROTO-MIX has built its reputation as the leading manufacturer of livestock mixing and feeding equipment, as well as compost mixing equipment by continually setting the standards for the industry. The company was founded in Dodge City, Kansas in 1984. Since that time, ROTO-MIX has grown to include an additional manufacturing facility in Hoisington, Kansas as well as a retail location in Scott City, Kansas. The marketing arm has over 100 dealers providing local sales and service in the U.S. and sales in over 40 international markets. With an in-house engineering department, the company's leading edge developments

such as the Staggered Rotor are designed specifically to meet the ever-changing requirements of the cattle feeding industry. In addition to the Staggered Rotor, ROTO-MIX has successfully filed several patents related to the feeding industry. As important as our patents are, our most valuable commodity is our 120 skilled and dedicated employees. Each and every one of them is committed to delivering a superior product to the customer. Contact your local ROTO-MIX representative to discover the truth of our motto, **"ROTO-MIX mixers are truly Designed for Feeding Performance."**

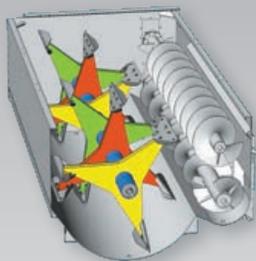
Which Style Rotor Should I Choose?



3-Bar option allows more hay and particle length during mixing. Preferable when feeding dairy rations.



5 or 6-Bar option allows for more hay and flakes. This option is preferred in beef operations not using wet distillers grains.



Staggered Rotor option is ideal for feeding rations that require wet distillers grains. Improved lifting and tumbling action, less revolutions, faster mix saves time and fuel and lowers maintenance costs.

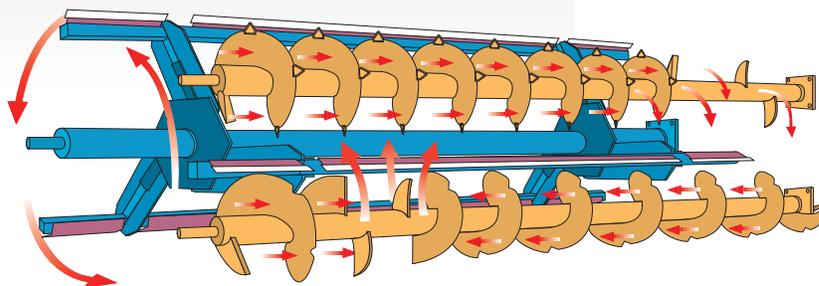
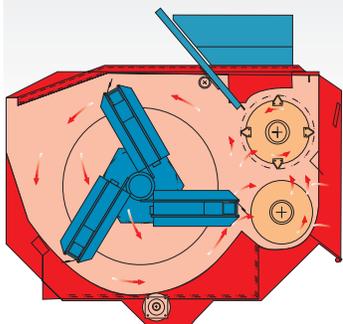


Flanged, Double Flighted Top Auger

Flanged rotor and augers allow for easy removal. Patented double flighted top auger keeps large chunks of hay out of the mixing chamber until processed.

Rotor

The patented rotor lifts feed up to the side augers that move the feed from end-to-end for thorough mixing. The lifting action of the rotor eliminates wedging of the hay or long cut feeds under the lower auger. The rotor allows easier pulling mixer action, reducing the load on the PTO, drive line and transmission.





Commercial 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.

Flared Side

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

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.

Commercial 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.



Single Point Grease Bank - 2 Locations

Allows quick lubrication from from single banks located on the front end sheet and rear oil bath.

Optional Stainless Steel Liners

Various combinations of stainless steel liners or full stainless steel shell.



Drive

Complete heavy-duty drive assembly runs in an enclosed oil bath. Extra heavy-duty drive available on select models.



Door, Spout, Magnets

To control feed flow, the variable discharge door is hydraulically operated and can be opened or closed with the mixer running. Wide gravity discharge spout has no moving parts. Optional magnets in spout trap foreign metal before it reaches the feed bunk.



Augers

Extra-heavy, small diameter wall auger tubes give maximum life with less maintenance.



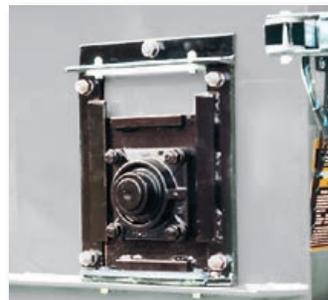
Hay Processor

The Hay Processor keeps large chunks of hay out of the mixing chamber until processed by the knives on the top auger.



Ladders

Solid built formed 6 or 7 rung ladder with optional 2 rung extension for safe access



Floating Lower Auger

Models 274, 354 & 414 - Floating lower auger relieves pressure when chunks of hay are inadvertently loaded into the mixer. This feature is standard with a hay processor or optional without.



Easy Access Rear Doors

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



Tongue and Hitch Clevis

Adjustable hitch clevis allows an operator to level mixer with most tractors to maximize mixer efficiency. Convenient PTO storage on select models.

Stationary Units

- Higher side discharge location allows easier loading of conveyors or elevator legs while maintaining a minimum mixer height.
- Left and right discharge units available.
- Low electric horsepower requirements.
- Motor mount designed to keep overall space requirements to a minimum.
- Wide base scale frame with optional riser legs to meet our customers's needs.



Model 1220-20

Customization

Roto-Mix has a long history of customizing your unique stationary applications. The mixer at left illustrates a hand wheel assembly for select models, as well as a non-standard rear door and full length hay pan.

When planning your feed center or mill, Roto-Mix can assist in the design and then build a mixer to fit your unique needs.



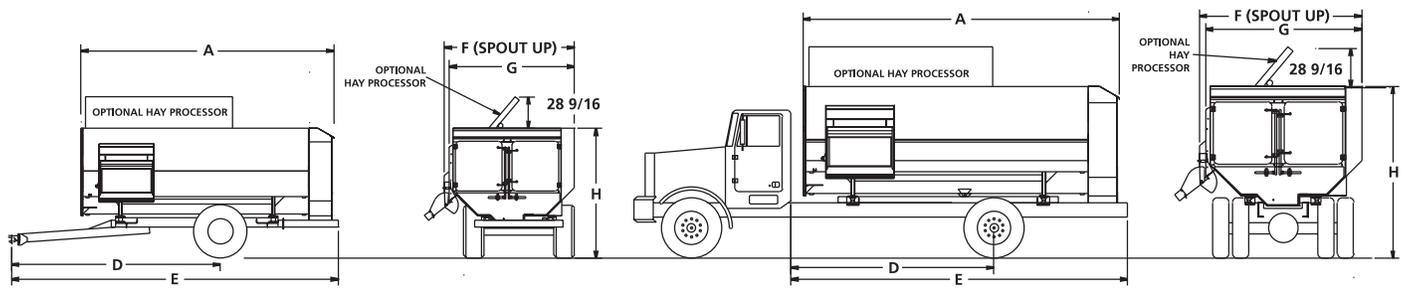
Trailer Features

- Single pole tongue allows for a tight turning radius.
- Trailer constructed of heavy-duty tubular steel with built in scale mountings.
- Heavy-duty hubs and spindles designed for years of trouble free operation.
- A wide selection of tire choices.
- Rear bumper is standard equipment.
- Short wheel base allows for tight turns and easy maneuverability.
- Adjustable hitch clevis allows the operator to level mixer with most tractors to maximize mixer efficiency.
- Heavy-duty, tubular trailer frame ensures long life and maximum scale accuracy.
- Weigh bar or load cell scale mounting.



Model 620-16XD

- 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 allows for scale dependability and accuracy.
- Heavy-duty leaf spring suspension on 720 and 920 units.



Horizontal Feed Mixers		Commercial							
Ref	Dimensions, Weight, Capacity	274-12B	354-12B	414-14B	540-14XD	620-16XD	720-16	920-18	1220-20
	Weight—Stationary—Less Motor, lb. (kg)	7,150 (3,243.2)	8,540 (3,873.7)	9,900 (4,490.5)	14,750 (6690.4)	16,090 (7298.3)	18,655 (8461.7)	20,485 (9291.8)	28,150 (12,769)
	Weight—Truck Unit—Installed, lb. (kg)	7,720 (3,501.7)	8,940 (4,055.1)	10,340 (4,690.1)	15,250 (6917.2)	16,380 (7429.8)	19,975 (9060.5)	21,685 (9836.1)	27,500 (12,474)
	Weight—Trailer with Tires, lb. (kg)	8,060 (3,655.9)	9,640 (4,372.6)	11,040 (5,007.6)	16,990 (7706.5)	18,130 (8223.6)	22,125 (10035.7)	25,085 (11378.3)	NA
	Weight—Hay Processor, lb. (kg)	680 (308.4)	680 (308.4)	720 (326.6)	750 (340.2)	775 (351.5)	825 (825)	1,750 (793.8)	NA
	Rotor Diameter, in. (cm)	54 (137)	60 (152)	60 (152)	72½ (184)	72½ (184)	76½ (194)	84½ (215)	94½ (241)
	Inside Length, in. (cm)	144 (366)	144 (366)	168 (427)	168 (427)	192 (488)	192 (488)	216 (549)	240 (610)
	Inside Width, in. (cm)	80½ (204)	92 (234)	92 (234)	103¼ (262)	103¼ (262)	105 (267)	113½ (288)	127 (323)
A	Overall Length—Mixer Only, in. (cm)	163½ (415)	163½ (415)	187½ (476)	194 (493)	218 (554)	223 (566)	231¼ (589)	257 (653)
G	Overall Width—Mixer Only, in. (cm)	87½ (222)	100½ (255)	100½ (255)	115 (292)	115 (292)	110 (279)	118¼ (302)	129 (328)
F	Overall Width—Spout Up, in. (cm)	90 (229)	102 (259)	102 (259)	112½ (286)	112½ (286)	115 (292)	122¼ (311)	135 (343)
E	Overall Length including Trailer, in. (cm)	216 (549)	221 (561)	242 (615)	253¾ (645)	277¾ (578)	278 (706)	300 (706)	NA
E	Overall Length—Stationary Drive, in. (cm)	175 (445)	175 (445)	198 (503)	206½ (525)	230½ (585)	234 (594)	250 (635)	278 (706)
H	Height of Mixer—Base to Top, in. (cm)	59 (150)	65 (165)	65 (165)	75 (191)	75 (191)	79 (201)	93¾ (238)	104¾ (265)
H	Height of Mixer—Oil Bath Drive, in. (cm)	65½ (166)	71½ (182)	71½ (182)	82 (208)	82 (208)	87½ (222)	99¼ (252)	109½ (278)
H	Height on Trailer—Standard Tires, in. (cm) ‡	88 (224)	96 (244)	96 (244)	110½ (281)	110½ (281)	121 (307)	130 (330)	NA
H	Height on 36/40" Truck Frame, in. (cm)	101 (257)	106 (269)	106 (269)	116 (295)	116 (295)	124 (315)	134 (340)	142 (361)
		36 (91.5)	36 (91.5)	36 (91.5)	36 (91.5)	36 (91.5)	40 (101.6)	40 (101.6)	40 (101.6)
H	Height on Stationary Scale Frame, in. (cm)	69¾ (177)	78 (198)	78 (198)	85½ (217)	85½ (217)	89½ (227)	101¼ (258)	112 (284)
	Spout Width—Truck and Trailer, in. (cm)	35 (89)	35 (89) *	47 (119.4) *	48½ (123)	48½ (123)	48½ (123)	48½ (123)	48½ (123)
	Discharge Frame Width—Stationary, in. (cm) †	22¾ (57)	34¾ (87) *	34¾ (87) *	46½ (118)	46½ (118)	46½ (118)	46½ (118)	46½ (118)
D	Truck Cab to Axle, in. (cm)	108 (274)	108 (274)	120 (305)	120 (305)	138 (351)	138 (351)	156 (396)	173 (439.42)
	Capacity, Struct Level, cu. ft. (m ³)	315 (8.91)	400 (11.32)	460 (13.02)	586 (16.59)	670 (18.97)	770 (21.80)	1,035 (29.30)	1,370 (38.79)
	Mixing Capacity, cu. ft. (m ³)	270 (7.64)	350 (9.91)	410 (11.60)	540 (15.29)	620 (17.56)	720 (20.39)	920 (26.05)	1220 (34.55)
	Mixing Capacity, bushels (liters)	216 (7,612)	280 (9,867)	328 (11,558)	432 (15,223)	496 (17,478)	576 (20,298)	736 (25,936)	960 (33,829)
	Maximum Heavy Ration, lb. (kg)	8,100 (3,674.2)	10,500 (4,762.8)	11,500 (5,216.4)	15,240 (15,240)	17,500 (7937.9)	20,500 (9298.6)	26,100 (11838.8)	36,000 (16329.3)
	Tub Bottom, in. (cm) *	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)
	Auger Bottom, in. (cm) *	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)	¾ (0.9525)
	Ends, in. (cm)	7 Ga. (0.4547)	7 Ga. (0.4547)	7 Ga. (0.4547)	¼ (0.635)	¼ (0.635)	¼ (0.635)	¼ (0.635)	¼ (0.635)
	Upper Sides (cm)	10 Ga. (0.3404)	10 Ga. (0.3404)	10 Ga. (0.3404)	7 Ga. (0.4547)	7 Ga. (0.4547)	7 Ga. (0.4547)	¾ (0.4762)	¼ (0.635)
	Top Auger Flight OD, in. (cm) *	¾ x 16 (0.952 x 41)	¾ x 20 (0.952 x 51)	¾ x 20 (0.952 x 51)	¾ x 24 (0.952 x 61)				
	Lower Auger Flight OD, in. (cm) *	¾ x 16 (0.952 x 41)	½ x 20 (1.27 x 51)	½ x 20 (1.27 x 51)	¾ & ½ x 24 (1.90 & 1.27 x 61)	¾ & ½ x 24 (1.90 & 1.27 x 61)	¾ & ½ x 24 (1.90 & 1.27 x 61)	¾ & ½ x 24 (1.90 & 1.27 x 61)	¾ & ½ 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	#140	#140
	Rotor Drive—Roller Chain	#100	#100	#100HT	#140	#140	#120-2	#180	#180
	Top Auger Drive Shaft, in. (cm)	2½ (6.35)	2½ (6.35)	2½ (6.35)	4 (10)	4 (10)	4 (10)	3½ (8.89)	3½ (8.89)
	Lower Auger Drive Shaft, in. (cm)	3 (7.62)	3 (7.62)	3 (7.62)	4 (10)	4 (10)	4 (10)	3½ (8.89)	3½ (8.89)
	Rotor Drive Shaft, in. (cm)	3½ (8.89)	3½ (8.89)	3½ (8.89)	3½ (8.89)	3½ (8.89)	9¾ (24.77)	9¾ (24.77)	9¾ (24.77)
	Stationary—Electric (Standard) Horsepower (kilowatts)	15 (11.19)	20 (14.92)	25 (18.65)	40 (29.42)	60 (44.13)	60 (44.13)	60 & 60 (44.13 & 44.13)	75 & 75 (56 & 56)
	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)	NA

* 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 hay processors and folding conveyors.



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