



# Rotary Mixers

*Designed for Feeding Performance*



# Commercial Series

Models 540-14, 620-16, 720-16, 920-18 truck, trailer or stationary

## Why ROTO-MIX?

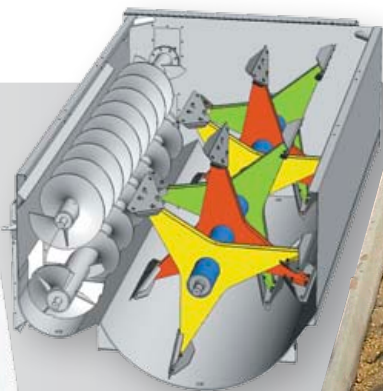
ROTO-MIX has built its reputation as the leading manufacturer of livestock mixing and feeding equipment, compost mixing equipment by continually setting standards for the industry. The company was founded in Dodge City, Kansas by Ben Neier and Bill Pullen in 1984. Since that time, ROTO-MIX has grown to include an additional manufacturing facility in Hoisington, Kansas as well as a retail location in Scott City, Kansas. The marketing arm has over 120 dealers providing local sales and service in the U.S. and sales in over 35 international markets. With an in-house engineering department and continuing input from Mr. Neier, the company's leading edge

developments such as the Staggered Rotor is 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 mixer to the customer. Contact your local ROTO-MIX representative to schedule a demonstration and discover the truthfulness of our motto, "ROTO-MIX mixers are truly Designed for Feeding Performance"

**Better Mix  
Less Time  
Save Fuel**



**GeneRation II Staggered Rotor**



### Forward Pitched Rotor and Staggered 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. Patented tumbling design reduces mixing power requirements. See more about rotor options on page 6.

For more information scan QR Code



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Watch the video at

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



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Model 920-18



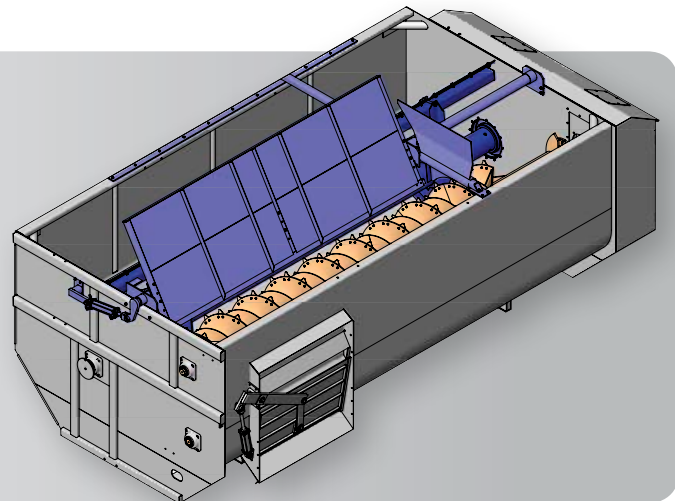
Model 620-16XD shown with optional hay processor

### Hay Processor

Adding hay to the ration is easy and convenient. Place the hay in the Hay Processor on the unit and let it do the work of separating the hay and distributing the long stemmed material into your mix. The result is hay with leaves intact and the stem not continually cut up or crushed.

### Patented Double Flighted Top Auger

Helps to hold the hay in the processor to be separated and eliminates “hay balls” from slipping in-between the flights and into the mixing chamber.



### Rotary Blend Rations

Our thorough mixing action eliminates dead spots and corner pile-up, giving you a consistent balance of nutrients from the first pound of feed to the last. Complete mixing of ingredients also reduces the ability of the cattle to sort and “nose out” ingredients.

### Flexibility

Feeds all types of grain, liquid feed, by-products, and forages. Ability to mix small and large batches with consistency, day after day, even with micro ingredients.

### Commercial Duty Drive Train

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

## Commercial Series Models 540-14, 620-16, 720-16, 920-18 truck, trailer or stationary

### Commercial Flighting

$\frac{3}{4}$ ",  $\frac{5}{8}$ " and  $\frac{1}{2}$ " flighting available for lower auger to extend life. Top augers available in  $\frac{3}{8}$ " and  $\frac{1}{2}$ " 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.

### 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.



### Lower Center of Gravity

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



### Roto-Mix is raising the feed mixer standards with the XtraDuty 540-14XD and 620-16XD Commercial Feed Mixers.

Loaded with new design features and benefits, the XtraDuty mixers are stronger, longer lasting and even more maintenance free.

- Maintenance free design Nyloil® bearing
- New heavy-duty rotor assembly
- Redesigned oil bath
- Improved drive system

Depending on your feeding program, Roto-Mix offers a choice of mixing options for your mixer. Units are available in truck mount, stationary, or trailer.

Model 620-16 XD



620.225.1142



Model 620-16XD

### 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 scale or load cell mounting.
- 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.

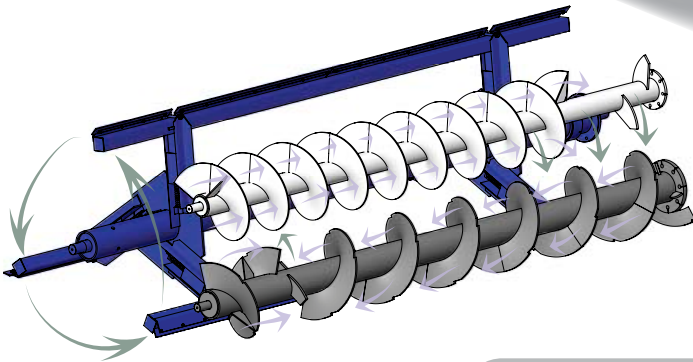
Features	Benefits
<b>Heavy Duty Rotor Assembly</b>	
Increase rotor tube diameter from 8 <sup>5</sup> / <sub>8</sub> " to 10 <sup>3</sup> / <sub>4</sub> ".	50% increase in tube strength. Extended rotor life.
Replaced mechanical rotor bearing with oil impregnated Nyloil® bearing.	Maintenance free bearing design, superior lubrication, long life and smooth performance.
<b>Redesigned Oil Bath</b>	
Larger, relocated lower oil bath access door.	Improved access to input shaft sprocket and bearing.
One piece front end sheet and rear oil bath end sheet.	Less welding required. Reduces incidence of rust along weld seam for better appearance.
Relocated rotor bracing.	Eliminates cracking and deformation of oil bath sidewalls.
<b>Improved Discharge</b>	
Spout lift cylinder relocated from auger tube to door frame.	Prevents spout from going over center. Extended cylinder life. Reduced maintenance.
Optional 3" raised discharge height.	Better clearance to bunk, reduced damage from hitting bunk.
Optional 12v self-contained hydraulic system for discharge door and spout (truck models only).	Easier serviceability. Allows operation of door and spout when mixer is not running.
<b>Improved Drive System</b>	
UST RS chain standard on all models, half links eliminated. Optional Extra Heavy Drive includes UST Super High Test (HT) chain.	The complete chains are up to 30% stronger. Quieter operation.
Optional Electronic Overspeed (EOC) PTO.	Eliminates danger of high RPM starts which can damage power train.
New quick-change machined sprocket hubs.	Easier to change sprockets, relative output speeds.
Improved location of drive chain spring tensioners.	Improved accessibility and function. Easier maintenance.
Redesigned drop-in jack shaft.	Major diameter fit spline. Better serviceability, reduced shaft wear and longer life. Jack shaft sprockets located with snap ring, results in reduced maintenance and improved chain alignment.
<b>Exterior Features</b>	
Recessed taillights in rear bumper (truck models only).	Reduced breakage of taillights. Improved appearance.
Access ladder moved from left side rear to right side front.	Eliminates damage from hitting bunks.

### 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.
- Flexible motor mount designs to keep overall space requirements to a minimum.
- Wide base scale frame.



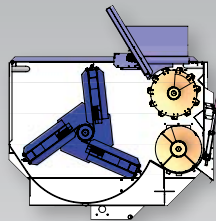
Model 920-18



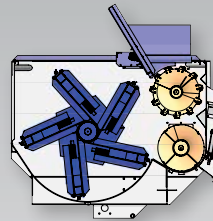
### Options

- Door—Wide door openings allow for fast feed delivery with easy hydraulic control while mixer is running.
- Spouts—Gravity discharge spouts have no moving parts. Wind exposure is reduced compared to other units throwing feed to the cattle.
- Magnets—Trap foreign metal before it reaches the feed bunk.
- Ladders to aid in inspection of mixing chamber.
- Stainless steel liners for mixing chamber.
- Rotor options of 3, 5, 6 or staggered to match the ration density and improve mixing speed and performance.

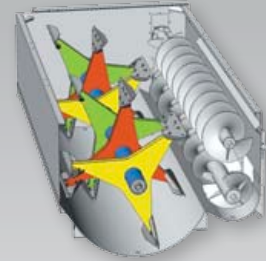
### Which Style Rotor Should I Choose?



*3-Bar option* Rotary Mixer allows more leaves and particle length during mixing with hay—a preference when feeding in dairy operations.



*5-Bar option* allows for more leaves and more flakes. The patented rotor lifts feed up to the side augers that move feed from end to end for thorough mixing. This option is preferred in beef operations not using wet distillers grains.



*GeneRation II 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.

# Forage Express Series

Models 274-12B, 354-12B, 414-14B truck, trailer or stationary



Available with optional staggered rotor and optional hay shear bar.



354-12B

**Bring the freshness of the field to your hay ration.**



Rotor is equipped with spring tension bars which relieve pressure and eliminate wedging of bulky materials. The UHMW wiper blades are adjustable for fast, effective cleanout.



Flaired tub side increases tumbling action with ration containing hay or other long stem forages. Single point latch system for increased accessibility.

## Trucks

- A lower center of gravity puts less shock load on the axle and springs when cornering or driving over rough terrain.
- Patented double flighted upper auger working in conjunction with the ROTO-MIX hay processing system increases hay inclusion levels.
- Short wheel base allows tight turns and easy maneuverability.
- Stainless steel tub and end liners are available in 10 or 12 gauge material for extended mixer shell life.

Note: Inside of units shown above have been painted to show detail only.

## Forage Express Models 274-12B, 354-12B, 414-14B truck, trailer or stationary

### Trailers

Trailer models are mounted on heavy-duty tubular steel trailer frames, complete with built-in scale mountings. Heavy-duty eight- or ten-bolt hubs and spindles with a selection of tires for eight- and ten-hole wheels. The single pole trailer tongue is constructed of heavy wall tubing for a shorter turning radius. A sturdy rear bumper and an adjustable, replaceable trailer hitch clevis are also standard equipment.



Model 414-14B



### Stationary

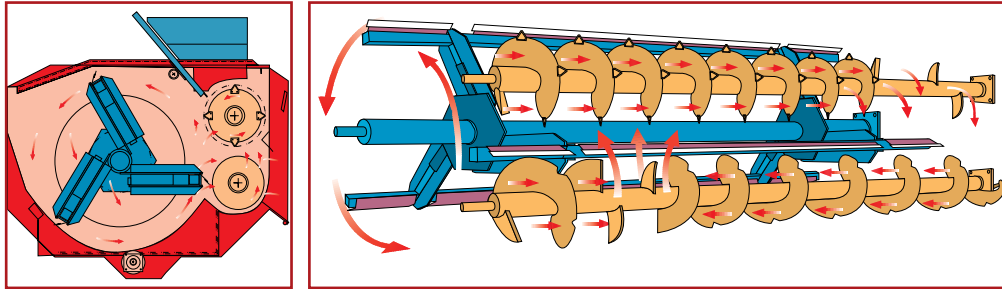
Forage Express stationary units are equipped with the same quality mixing features as the truck and trailer mounted units. Forage Express Mixers are available in 3 sizes. Each are energy-efficient and suitable for overhead or ground-level installation. Their higher side discharge location allows easier loading of your conveyor or leg while maintaining a minimum mixer height.



Electric motor drive.







U.S. Patent Nos. 4,506,990 4,597,672 4,741,625  
 Canada Patent No. 1,249,262. Other U.S. and Foreign Patents Pending.

## **A Better Way!** **The ROTO-MIX® Forage Express Mixing System**

*The rotor lifts the feed past the wedging point of the lower side auger. This gives you a fluffier ration at lower power requirements. Total feed movement in the mixing chamber eliminates dead spots, pile-up in corners, and auger tunneling through feed, which are common in conventional auger mixers.*

### **Your Benefits**

#### **Fresh Fluff**

This means big nutritional advantages for lower cost of gain or increased milk production. ROTO-MIX consistently produces premium quality feed by lifting the ingredients past the lower auger's wedge point, resulting in a fresher, fluffier ration that insures increased consumption.

#### **More Leaf**

The gentle tumbling action with the ROTO-MIX system mixes fragile ingredients, such as hay leaves, flakes, and high-moisture grain, without causing excessive damage. More leaf in the mix means more protein to your herd.

#### **Total Mixed Rations**

Our thorough mixing action eliminates dead spots and corner pile-up giving you a consistent balance of nutrients from the first pound of feed to the last.

#### **Fresh Cut**

The ROTO-MIX Hay Processor keeps the hay out of the mixing chamber until the knives on the top auger cut...not beat...the hay. The result is hay, with leaves intact, cut to the proper length, resulting in fewer incidents of acidosis.

#### **More Nutritious**

Conventional auger mixers crush, grind and mash all ingredients, which create more fines in the bunk...a waste of your feeding dollars. The ROTO-MIX tumbling action mixes all ingredients, even fragile and flaked, without excessive breakage.

#### **Fines**

With the ROTO-MIX mixing system, there's less grinding of flaked and high moisture grain, pellets or other ingredients so you'll have less fines in the bunk which means less wasted feed...giving you the most for your feed dollars.

#### **Shrinkage**

Our unique ability to process baled hay as you need it results in less wind shrinkage when loading and processing. You'll get the most out of your feed ingredients.

#### **Supplemental Flexibility**

The thorough mix provided by ROTO-MIX eliminates unpleasant tastes associated with certain supplements, allowing you more options when choosing feed supplements.



### Augers

Extra-heavy, small diameter wall auger tubes give maximum life with less maintenance. Hay knives are hard surfaced to provide a self-sharpening effect; thereby, cutting the hay to the proper length while giving the knives an extended life.



### 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. Patented tumbling design allows easier pulling mixer action, reducing the load on the PTO, drive line and transmission.



### 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.



### Drive

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



### Floating Lower Auger

Floating lower auger available with hay processor option relieves pressure when wet or grassy chunks of hay are inadvertently loaded into the mixer.

### Grease Bank

The single point grease bank allows easy access to main lubrication points from the ground.



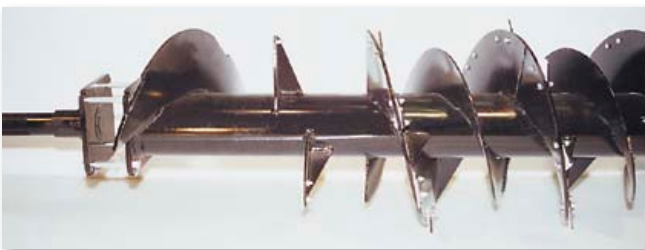
### Rear Doors

Easy access rear doors with single point latches.



### Hay Processor

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



### 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.

### Bottom Auger with Knives

### Spline Jack Shaft

### Optional 10 or 12 Gauge Liners



### Trailer Frame

Heavy-duty tubular trailer frame ensures long life and maximum scale accuracy. Single pole tongue allows the tightest turning radius possible.



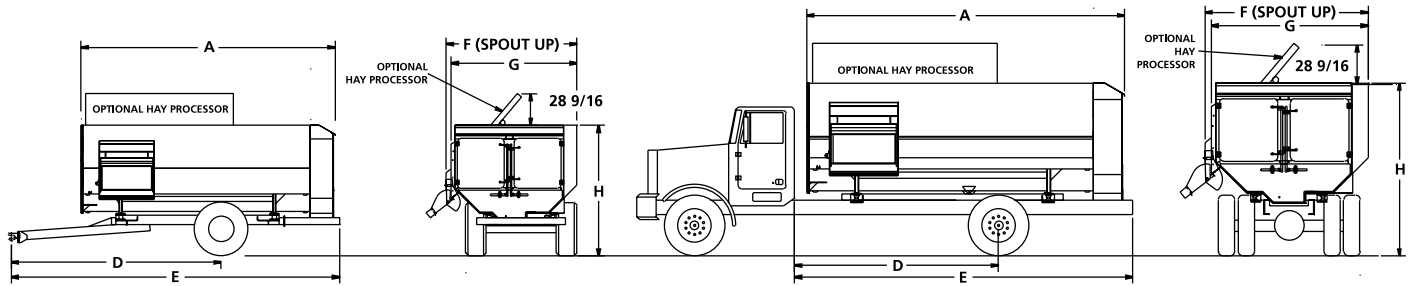
### Tongue and Hitch Clevis

Adjustable hitch clevis allows an operator to level mixer with most tractors to maximize mixer efficiency.



### Convenient PTO Storage





Horizontal Feed Mixers		Forage Express			Commercial			
Ref	Dimensions, Weight, Capacity	274-12B	354-12B	414-14B	540-14XD	620-16XD	720-16	920-18
	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)
	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)
	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)
	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)
	Rotor Diameter, in. (cm)	54 (137)	60 (152)	60 (152)	72½ (184)	72½ (184)	76½ (194)	84½ (215)
	Inside Length, in. (cm)	144 (366)	144 (366)	168 (427)	168 (427)	192 (488)	192 (488)	216 (549)
	Inside Width, in. (cm)	80½ (204)	92 (234)	92 (234)	103¼ (262)	103¼ (262)	105 (267)	113½ (288)
A	Overall Length—Mixer Only, in. (cm)	163½ (415)	163½ (415)	187½ (476)	194 (493)	218 (554)	223 (566)	231¼ (589)
G	Overall Width—Mixer Only, in. (cm)	87½ (222)	100½ (255)	100½ (255)	115 (292)	115 (292)	110 (279)	118¼ (302)
F	Overall Width—Spout Up, in. (cm)	90 (229)	102 (259)	102 (259)	112½ (286)	112½ (286)	115 (292)	122¾ (311)
E	Overall Length including Trailer, in. (cm)	216 (549)	221 (561)	242 (615)	253¾ (645)	277¾ (578)	278 (706)	300 (706)
E	Overall Length—Stationary Drive, in. (cm)	175 (445)	175 (445)	198 (503)	206½ (525)	230½ (585)	234 (594)	250 (635)
H	Height of Mixer—Base to Top, in. (cm)	59 (150)	65 (165)	65 (165)	75 (191)	75 (191)	79 (201)	93¼ (238)
	Height of Mixer—Oil Bath Drive, in. (cm)	65½ (166)	71½ (182)	71½ (182)	82 (208)	82 (208)	87½ (222)	99¼ (252)
H	Height on Trailer—Standard Tires, in. (cm) ‡	88 (224)	96 (244)	96 (244)	110½ (281)	110½ (281)	121 (307)	130 (330)
H	Height on 36/40" Truck Frame, in. (cm)	101 (257) 36 (91.5)	106 (269) 36 (91.5)	106 (269) 36 (91.5)	116 (295) 36 (91.5)	116 (295) 36 (91.5)	124 (315) 40 (101.6)	134 (340) 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)
	Spout Width—Truck and Trailer, in. (cm)	35 (89)	35 (89) *	47 (119.4) *	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)
D	Truck Cab to Axle, in. (cm)	108 (274)	108 (274)	120 (305)	120 (305)	138 (351)	138 (351)	156 (396)
	Capacity, Struct Level, cu. ft. (m <sup>3</sup> )	315 (8.91)	400 (11.32)	460 (13.02)	586 (16.59)	670 (18.97)	770 (21.80)	1,035 (29.30)
	Mixing Capacity, cu. ft. (m <sup>3</sup> )	270 (7.64)	350 (9.91)	410 (11.60)	540 (15.29)	620 (17.56)	720 (20.39)	920 (26.05)
	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)
	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)

\* 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.



414-14B



620-16XD Commercial

Horizontal Feed Mixers		Forage Express			Commercial			
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 1/4 (24.77)	9 1/4 (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.

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Weights listed with most common option packages excluding hay processors and folding conveyors.

Ask for a demonstration

Distributed by:



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