

66

Patz is our first TMR and we really like it. Our cows came up 5lbs. per day and the clean up is excellent. We cut our hay cost in half and save ½ hour per day feeding. -Tyler & Mike, MN



TRAILER

Pg. 10

270 - 1,580 ft.³ Capacity



STATIONARY Pg. 26

140 - 1,270 ft.³ Capacity



TRUCK

Pg. 34

420 - 1,270 ft.³ Capacity

Designed for the **Professional Producer**

RELIABILITY, VERSATILITY, TECHNOLOGY

Patz Vertical Mixers offer mixing capacities from 140-1,580 cu. ft. (11.8-44.7 m³) including single, twin, or triple screw options. The wide selection of sizes, styles, and discharge options make Patz mixers adaptable to every feeding program.



SINCE 1948

For over 70 years, Patz Corporation has been keeping up with changing demands of the Agricultural industry.

We emphasize products that save labor, feed, and fuel by intelligently designed machinery.



IN-HOUSE ENGINEERING

Our experienced Engineering team ensures every machine, part, and option is built-to-print for optimal performance. Over 50 material handling patents show safety and quality are the cornerstone of the Patz brand.



SERVICE & SUPPORT

Every Patz machine has a written
1-year Manufacturing Warranty
and 5-year prorated Power
Transmission Warranty, a dedicated
Product Support team, and local
dealerships. Always have access
to information with Published
Operator's and Parts manuals.



PATENTED TUB MOUNTED MAGNET

This powerful magnet has the strongest pull radius in the industry. The magnet can reach tramp metal in the ration while mixing without restricting feed flow. Metallic items remain secured to the contoured magnet with a 2-stage retention system

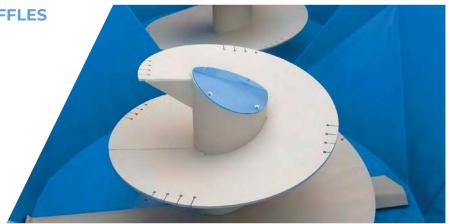
This highly recommended feature also comes with a quickopen system. The operator can easily unlatch the magnet to make cleaning and servicing effortless and safe!



PATENTED CONTOURED BAFFLES

The precision height of our patented baffles create space needed inside vertical mixers for ingredients to fall and mix together uniformly.

Our baffles are designed to simulate opposing tapered tub ends while eliminating dead spots in the TMR.



PATENTED RAPTOR™ KNIVES

A forward facing, downward angle design allows knives to dig in and cut bales more aggressively. Ideal for high-hay rations including large round or square bales.

Our Patented RaptorTM knives come in 5 sizes: $4\frac{1}{4}$ ", $4\frac{3}{4}$ ", $5\frac{1}{2}$ ", $7\frac{1}{2}$ ", and a massive 10" knife to claw into high density round bale cores.

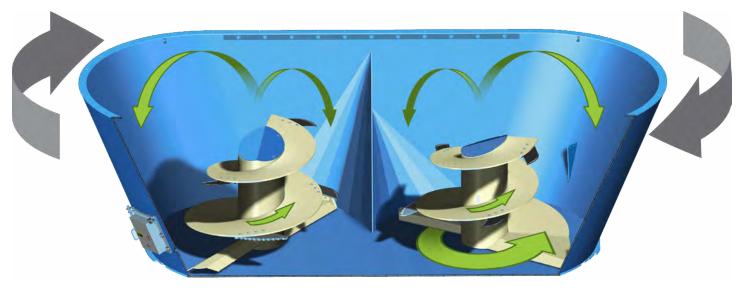


Balanced FlowTM Technology

A *total mixed ration* (TMR) is created when ingredient feed particles fall together simultaneously. A true TMR requires engineering that eliminates obstacles and dead spots without sacrificing mix performance.

Balanced FlowTM Technology creates the Patz signature "rolling boil" with a precision fitted screw inside a vertical relief proportional tub. Feed is processed along the sidewall and pulled away from the tub wall base. Lifting up the screw center, the feed then falls, and mixes at the tub end walls and patented contoured baffles. The Balanced FlowTM created allows the feed to mix uniformly together without crushing ingredients. Restrictor plates separate sidewalls and end walls to adjust the mixing cavity capacity.

Patz Corporation's Balanced Flow™ Technology ensures a consistent TMR in small and large batches when mixing a wide variety of conventional and alternative ingredients. From long fiber to the finest concentrates, Patz TMR is **balanced to the last bite**.



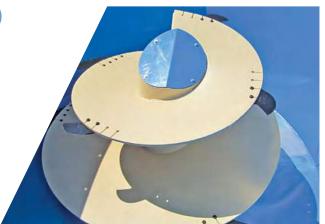
Gray arrows indicate direction of screw rotation.

Green arrows indicate Balanced Flow™ of feed

VORTEX® AND TRU TAPER™ VERTICAL SCREW(S)

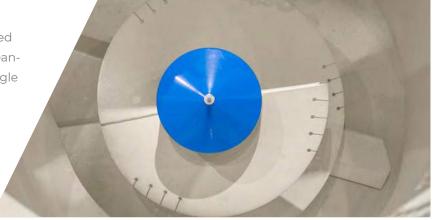
Patz vertical mixing screws are constructed of welded steel. AR 400 steel is used in high wear areas such as the leading edge, plow wing, and kicker.

Exclusive to Patz, the Vortex® screw has cupped flighting that helps create the Patz signature "rolling boil" in wide-body tubs (≥96" / 2.5m). Designed for narrow profile mixers (≤86"/2.2m wide), the Tru Taper™ screw ensures a consistent mix and superior clean-off for low HP and minimum torque application.



CONE/MULTI-ANGLE TOP

The vertical screw crown diffuses top-loaded material. A cone-top (right) allows easy clean-off in high concentrate rations. A multi-angle top (top right) directs round bales deep into the mixer tub for rapid processing.



OVERLAPPING SIDEWALLS

Sidewalls are made from surface primed UTS 58,000-80,000 PSI steel. Flared tub ends and sidewalls are overlapped and double-joined by an exterior anchor weld and interior seam weld. Seams are overlapped in a clockwise direction like the screw rotation to promote Balanced FlowTM, improving upon butt-welded seams.





XH Mixers for XL Workloads

As Dry Matter Intake (DMI) management in dairy and beef herds increases, mixing must adapt to increasingly "hotter" and heavier high-commodity and high-hay rations. Dry hay and feed concentrates - rich in nutrient value - can be abrasive.

Patz Corporation has engineered an Extra Heavy (XH) option to feed today's livestock high density

round bales and balage. Reinforced flooring, thicker side-walls, heavier screws, and a reinforced top ring make XH mixers up to 20% heavier - putting quality steel where you need it most.

Upgrade to an XH mixer for longer machine life, heavier rations, and higher trade-in value.



SIDEWALL THICKNESS

The sidewall absorbs tremendous mixing forces. Upgrade to a Patz XH mixer for a 3/8" (9.5mm) high-tensile sidewall and baffles compared to the industry standard 1/4" (6.4mm).



FLIGHTING THICKNESS

The average screw is lifting 3-4 tons of feed per minute while turning at 20-30 RPM. This may lead to high wear. At 3/4" (19mm), Patz XH screws are 1/8" thicker than the industry standard.



REINFORCED FLOOR

A 3/4" (9mm) floorplate is reinforced with thicker subfloor and canitlever steel bracing. Capable of handling round bale processing torques and heavier ration weights.



Precision Feeding



AVERY WEIGHT-TRONIX®

INDICATORS

Models: 640, 640XL, 640M, 1040, 1040XL, 3060 Touchscreen

SOFTWARE

Feed Supervisor®



DIGI-STAR®

INDICATORS

Models: COMPACT EZ400, EZ2810, EZ3410, EZ3610

SOFTWARE

TRM Tracker® Beef Tracker



DINAMICA GENERALE®

INDICATORS

Models: DG400, DG500, DG600, DG8000

SOFTWARE

 $\text{DTM}^{\tiny{\circledR}}$

Daily TMR Tracker



CAB CONTROLS



REMOTE DISPLAYS



SMART DEVICES

Data Management



RATION CONTROL

INFORMED CHANGES









Feeding management for balanced daily nutrition

- · Daily ration program and distribution management
- Increased production and animal health through consistent rations
- · Manage ingredients, pen and ration changes
- Track each and every feeding process and monitor performance achieved





Customization is Key

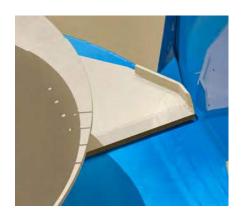
Every farm or feedlot is unique like their feeding program or individual rations.

Patz Vertical Mixers with Balanced Flow[™] Technology are designed to deliver the Patz signature "rolling boil" mix.

Your authorized Patz Dealer will help design a mixer for your operation's needs. Choose from 4-6 discharge door positions (with or without) conveyor options, choice of transmission, and several optional features.

Trailer TMR Mixers

Standard Features



PRECISION FITTED SCREWS

Patz screws are designed for sidewall mixing action, material lift, and cleanout. The welded plow wing maintains Balanced Flow™ by keeping walls clean on every rotation.



PATENTED BAFFLES

Baffles gently direct all ingredients around both screws from mixer end to end for a thorough TMR in twin and triple screw mixers.

Constructed of 1/4" (3/8" for XH) steel for durability & long life.



RESTRICTORS

Reversible restrictors are located on front left and right rear of tub. Adjust in or out to control the flow of forages inside. Longer forages can be processed faster by setting restrictors further in.



PLANETARY GEARBOX

Strong planetary gearboxes are backed by a 5-year, prorated planetary gearbox warranty.

Grease zerks are easily accessible.



OVERLAPPED SIDEWALLS

Flared tub ends and vertical sidewalls are overlapped and double-joined by an exterior anchor weld and interior seam weld.



TOP RING

The ½" (12.7mm) top ring is critical to mixer strength and shapes the tub while allowing sidewalls to flex. It absorbs round bale shock and deflects the loader bucket.





SOLID CHASSIS

Underslung "A" frame design provides 16-18" of support (depending on mixer size) where forces are greatest. The solid frame allows for a shorter turning radius. Available on select mixers.



VIEWING PLATFORM

Safely view ration mixing from front viewing platform, providing left and right access. Available on select mixers.



LED TAIL LIGHTS

LED Tail lights with 7-pin connector provide higher visibility on public roads. Lights are recessed into back channel for added protection from accidental damage.

Trailer TMR Mixers

Optional Features



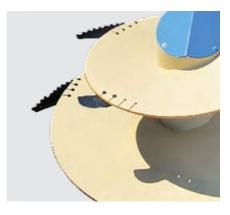
PATENTED TUB MAGNET

This Patz Exclusive patented magnet is strong enough to pull tramp metal from the ration while mixing. Quick release opening system allows for safe and easy cleaning and servicing.



DISCHARGE MAGNET

Help protect your livestock by removing trace metal from rations before it reaches your herd.



MIXING KNIVES

Add knives to cut long stemmed material. Choice of tungsten carbide or Patented RaptorTM knives in a variety of sizes.



RUBBER SIDE EXTENSION

Single screw mixers have an all rubber extension for an additional 9 1/4" height. Double and triple screw mixers have an extension combined of steel and rubber for extra durability.



CHAIN HAY RETAINER

Bolted to the top of the mixer tub, a hay retainer helps guide dry hay inside the tub during mixing.



TUB LINER

Choice of 3/16" thick steel or 11 gauge stainless steel for additional wear protection of mixer tub.





SELF-STEERING

Self-steering axles feature hydraulic brakes and six, super single truck tires. Limited to select models.



SCALES/INDICATORS

Increase your profits by accurately weighing feed ingredients with Avery Weigh-Tronix®, Digi-Star®, or dinamica generale® scales.



CAMERA PACKAGE

The 7" LCD monitor is great for backing up and discharging feed. Camera is weatherproof and shock-resistant.

Trailer TMR Mixers

Drive Options



2 SPEED MANUAL

Lowers the torque on the tractor when mixing heavy loads.
PTO must be shut off in order to shift into desired gear.



CV ARTICULATED PTO

Constant Velocity (CV) joint is located on a PTO drive shaft. Gearboxes are protected by an automatic cut-out clutch from tractor and 5-year prorated warranty. Available on select units.



AUTOSHIFT

Programmable 2-speed transmission utilizes realtime driveline torque input to optimize shifting. Three flexible modes: Fully, Semi-, and Custom Automatic. Bluetooth remote monitoring available.





Trailer TMR Mixers

Discharge Options



FRONT DISCHARGE CONVEYOR

Can be trailer mounted (feed not weighed on conveyor) or tub mounted (feed weighed on conveyor).



FLAT W/INCLINE EXTENSION

Flat with incline extension and fixed incline conveyors. Extensions with right-hand or left-hand discharge also available.



FLAT CONVEYOR

Choice of fixed or sliding flat conveyors with right-hand, lefthand, or reversible discharge.



SIDE DISCHARGE(S)

Side doors can be equipped with a chain conveyor discharge with collapsible steel sides. Available in hydraulic or manual operation.



SIDE CONVEYORS

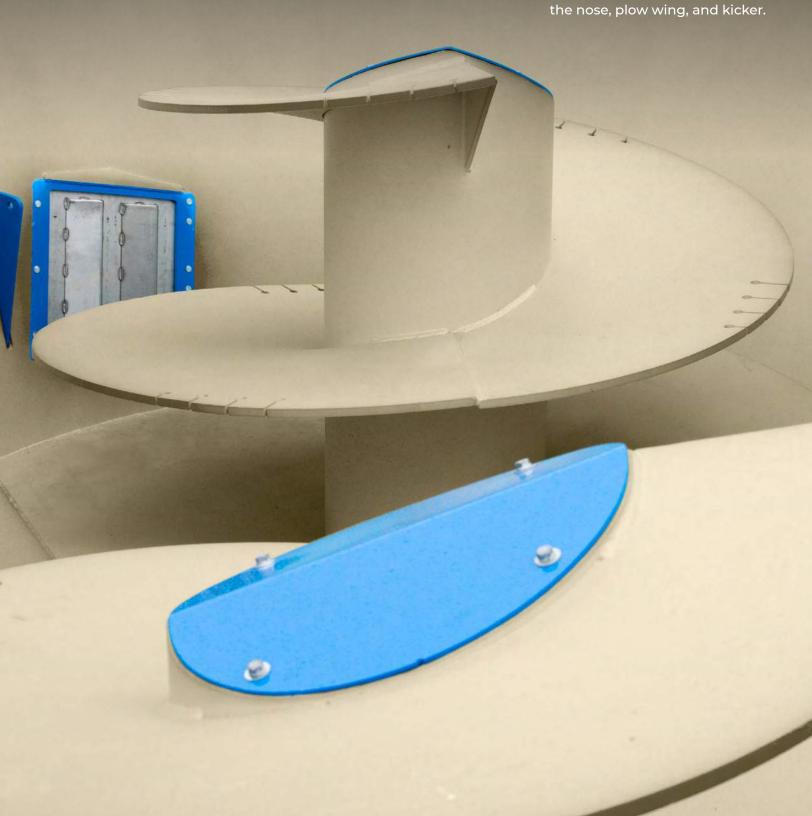
Side discharge conveyors are 36" wide with choice of 36" or 54" lengths.



REAR COMMODITY

Pre-mix commodities once & empty into a storage bin. Back mixer into narrow spaces for emptying, and streamline your mixing process.









Detailed Vertical Mixer Specifications (Trailer)

		800 Sc	eries II	1000 Series	
	U/M	270 Low Profile	350	420	420 / 420X
CAPACITY					
Mixing	ft ³ (m ³)	270 (7.6)	350(9.9)	420 (11.8)	420 (11.8)
w/Optional Extension	ft ³ (m ³)	315 (8.9)	400 (11.3)	490 (13.9)	490 (13.9)
	10 (111)	313(0.5)	T00(11.3)	450 (15.5)	450 (15.5)
UNIT					
Empty Wt.	lb (kg)	5,370 (2435.8)	5,750(2608.1)	8,133 (3689)	9,500 (4,309
XH Empty Wt.	lb (kg)		/A	N/A	11,186 lbs (5073
Max. Load @ 25#/cu.ft.	lb (kg)	6,750(3062)	8,750(3969)	10,500 (4763)	10,500 (476
Max. Gross Wt.	lb (kg)	12,120 (5510)	14,500 (6590)	18,633 (8452)	20,000 (907
XH Max. Gross Wt.	lb (kg)	N _i	/A	N/A	21,686 (983
No. of Screws (See Options below)		475 (4.4)	102(4.5)	204 (5.4)	1
Overall Length	in (m)	175 (4.4)	182(4.6)	201 (5.1)	220 (5.6)
Overall Height	in (m)	95 (2.4)	100(2.5)	97 (2.5)	97 1/8 (2.5)
Overall Height (W/ Powershift)	in (m)	404	(2.6)	1101/ (2)	N/A
Overall Width	in (m)		(2.6)	118 ½ (3)	
Screw Flighting Thickness	in (mm)		13)	5% (16)	
Floor Thickness	in (mm)	1/2 (1/2 (13)	
Sidewall Thickness	in (mm)		(6)	<u>¼ (6)</u>	05.116
Minimum PTO Horsepower*		55 HP	65 HP	85 HP	85 HP
Viewing Platform		N _.	/A		Access From Bo
Hour Meter			5.		Standar
Drive Package			: Drive		
Scale System		3-P	oint	3-Point	
Trailer Type		Sin	gle	Dual	
No. of Tires		;	2	4	
Tire Size		320 70R 15 Tubele	ss Implement Tire	245	70R 19.5 Tubeless
Operating Speed		54	40	540 or 1000)
DOOR OPENINGS					
Front/Rear Commodity					
Height	in (mm)	N/A	30 (762) (Rear only)	26 (660) (Rear only)	
Width	in (mm)	N/A	34(864) (Rear only)	42 (1,067) (Rear only)	
Side (2-4 Locations)			, , , , , , , , , , , , , , , , , , , ,		•
Height	in (mm)				39 (991
Width	in (mm)				34 (864
				Va	rious discharge pacl
Discharge					See Dealer for
Ground Clearance					Varies with dischar
OPTIONS		Ten T	aper™	Vartav® Ch	oose One Type of Sci
Vertical Mixer Screw Maximum No. of Knives+		5 Duai Kicker	- Cone Top	7	or Dual Kicker - Mult
Steel/Rubber Side Extensions		J		, , , , , , , , , , , , , , , , , , ,	Optiona
Hay Retainer Option(s)					Chain or P
Discharge Chute w/ or w/out Magnet					Optiona
Discharge Conveyor(s)					Various Options
Tub Mounted Magnet**		Various Options A Optional			
Wide Selection of Indicators		Digi-Star®, dinamica generale			
Camera Package					Option
Ladder (Rear Location)				0	ptional
Planetary Cooling System			N/A		
			N/A		







1200 Series		1600 Series	1600 Series II
500 / 500XH	615 / 615XH	620	620
500 (14.2)	615 (17.4)	620(17.6)	620(17.6)
575 (16.3)	690 (19.5)	720(20.3)	720(20.3)
,			
9,980 (4527)	10,475 (4751)	11,900 (5398)	13,700(6214)
11,743 lbs (5326.5 kg) 12,500 (5670)		15,500(7031)	N/A 15,500(7031)
22,480 (10196)	15,375 (6,974) 25,850 (11725)		
24,243 (10996)	27,748 (12856)	27,400 (12429)	29,200 (826) N/A
27,273 (10990)	27,740 (12030)	2	2
223 ¾ (5.7)	228 (5.8)	270(6.86)	288(7.31)
106 1/8 (2.7)	119 1/8 (3)	102(2.6)	103.5 (2.62)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , (, ,	()	(=,==)
109 (2.8)		101 (2.57)	101 (2.57)
% (16), ¾ (19) XH			% (16)
34 (19)			<u>/s (16)</u>
1/4 (6), 3/8 (9.5) XH			1/4 (6)
90 HP	110 HP	80 / 120 HP	80 / 120 HP
es		N/A	Access From Both Sides
Direct Drive or 2-Sp			
4-Point	l	3-point	3-point
Split Dual		Single	Dual
4		2	4
ement Tire		H40 x 14.5 Recapped Aircraft	285 70R 19.5 Tubeless Implement Tire
		1000	
26 (660)		30 (762)	30 (762)
42 (1,067)		39(991)	39(991)
available.			
s. ected.			
ceca.		Tru Taper™ Choose	e One Type of Screw for
r your Mixing Needs			ixing Needs
e or Cone Top			ti-Angle or Cone Top
7	11	7 Per Screw/14 Total	7 Per Screw/14 Total
ble			
Weigh-Tronix®			
			N/A
	Optional		14/74





Detailed Vertical Mixer Specifications (Trailer)

		1800 Series				
U/M	265	510	750	650 / 650XH	750 / 750XH	8
ft ³ (m ³)	265 (7.5)	510 (14.4)	750 (21.2)	650 (18.4)	750 (21.2)	
				, ,	, ,	
lle (lees)	7 400 (2262)	13 100 (5053)	21 000 (0525)	16 500 (7404)	17 500 (7030)	1.
	7,400 (3363)		21,000 (9525)			1
	6 625 (3005)		18 750 (8504)			20
						38
	11,025 (0500)		35,730 (10025)			40
iii (iig)	1	2	3	10.1,200 (1000010)	00/.00 (1/00 110)	
in (m)	197 ½ (5)	284 (7.2)	370 ½ (9.4)	302 (7.6)	304.5 (7.7)	
in (m)		98 ¾ (2.51)	102 (2.6)	102 (2.59)	111 (2.82)	
in (m)		N/A		N/A	N/A	
in (m)	87 (2.2)	Each side door adds 9 1/4 (0	0.23) to width of mixer.	97 (2.5)	97 (2.5)	
in (mm)		% (16)				
in (mm)		% (16)				
in (mm)		1/4 (6)				
	55 HP	90 HP	145 HP (LO) speed	130 HP	150 HP	
				Access From Bot	h Sides	
	Direct Drive	Direct Drive or 2-Speed	2-Speed	Direct Drive	e or 2-Speed	
		4-point				
	Single	Split Dual	Split Dual Walking Beam	Split	Dual	
		4	8		<u> </u>	
				285 70R 19.5 Tubel	ess Implement Tires	
	5	40 or 1000	1000 RPM			
in (mm)		26 (660)		26 (660)	30 (762)	
l in (mm)		42 (1,067)				
(/		42 (1,007)				
		42 (1,007)				
in (mm)		42 (1,007)				
		42 (1,007)				
in (mm)		42 (1,007)				
in (mm)		42 (1,007)				
in (mm)		42 (1,007)				
in (mm)		noose One Type of Screw fo	•			
in (mm)	Du	noose One Type of Screw fo aal Kicker - Multi-Angle or C	ione Top			
in (mm)		noose One Type of Screw fo	•	7 per screw/14 total	9 per screw/18 total	V
in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		
in (mm) in (mm)	Du	noose One Type of Screw fo aal Kicker - Multi-Angle or C	ione Top	7 per screw/14 total	9 per screw/18 total Chain	
in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		
in (mm) in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		
in (mm) in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		or F
in (mm) in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		or F
in (mm) in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		or F
in (mm) in (mm)	Du	noose One Type of Screw fo ual Kicker - Multi-Angle or C 7 per screw/14 total	ione Top	7 per screw/14 total		
	ft³ (m³) ft³ (m³) ft³ (m³) lb (kg) lb (kg) lb (kg) lb (kg) in (m) in (m) in (mm) in (mm) in (mm)	ft³ (m³) 265 (7.5) ft³ (m³) Up to 330 (9.3) lb (kg) 7,400 (3363) lb (kg) lb (kg) 6,625 (3005) lb (kg) 14,025 (6368) lb (kg) 1 in (m) 197 ½ (5) in (m) in (m) 87 (2.2) in (mm) in (mm) in (mm) in (mm) Single 2 in (mm)	U/M 265 510 ft³ (m³) 265 (7.5) 510 (14.4) ft³ (m³) Up to 330 (9.3) Up to 620 (17.5) lb (kg) 7,400 (3363) 13,100 (5953) lb (kg) N/A lb (kg) 12,750 (5783) lb (kg) N/A lb (kg) N/A in (m) 197 ½ (5) in (m) 98 ¾ (2.51) in (m) 87 (2.2) in (mm) 5% (16) in (mm) 5% (16) in (mm) 5% (16) in (mm) 55 HP Direct Drive Direct Drive or 2-Speed 4-point 2 4-point 2 4-point 540 or 1000	U/M 265 510 750 ft³ (m³) 265 (7.5) 510 (14.4) 750 (21.2) ft³ (m³) Up to 330 (9.3) Up to 620 (17.5) Up to 910 (25.8) lb (kg) 7,400 (3363) 13,100 (5953) 21,000 (9525) lb (kg) N/A 18,750 (8504) lb (kg) 14,025 (6368) 25,850 (11736) 39,750 (18029) lb (kg) 1 2 3 in (m) 197 ½ (5) 284 (7.2) 370 ½ (9.4) in (m) 98 ¾ (2.51) 102 (2.6) in (m) 87 (2.2) Each side door adds 9 ¼ (0.23) to width of mixer. in (mm) ½ (16) in (mm) ½ (16) in (mm) ½ (16) in (mm) ½ (6) 55 HP 90 HP 145 HP (LO) speed Direct Drive Direct Drive or 2-Speed 2-Speed 4-point 4 8 245 70R 19.5 Tubeless Implement Tires 540 or 1000 1000 RPM	U/M 265 510 750 650 / 650XH ft³ (m³) 265 (7.5) 510 (14.4) 750 (21.2) 650 (18.4) ft³ (m³) Up to 330 (9.3) Up to 620 (17.5) Up to 910 (25.8) 755 (21.4) lb (kg) 7,400 (3363) 13,100 (5953) 21,000 (9525) 16,500 (7484) lb (kg) 18,000 (8165) 18,000 (8165) 18,000 (8165) lb (kg) 6,625 (3005) 12,750 (5783) 18,750 (8504) 16,250 (7371) lb (kg) 14,025 (6368) 25,850 (11736) 39,750 (18029) 32,750 (14855) lb (kg) 1 2 3 34,250 (15535.5) in (m) 197 ½ (5) 284 (7.2) 370 ½ (9.4) 302 (7.6) in (m) 98 ¾ (2.51) 102 (2.6) 102 (2.59) in (m) 98 ¾ (2.51) N/A N/A in (mm) 87 (2.2) Each side door adds 9 ¼ (0.23) to width of mixer. 97 (2.5) in (mm) ½ (16) 10 (2.59) 10 (2.59) in (mm) ½ (16) 10 (2.59) 10 (2.59)	U/M 265 510 750 650 / 650 XH 750 / 750 XH ft³ (m³) 265 (7.5) 510 (14.4) 750 (21.2) 650 (18.4) 750 (21.2) ft³ (m³) Up to 330 (9.3) Up to 620 (17.5) Up to 910 (25.8) 755 (21.4) 859 (24.3) lb (kg) 7,400 (3363) 13,100 (5953) 21,000 (9525) 16,500 (7484) 17,500 (7938) lb (kg) 0,625 (3005) 12,750 (5783) 18,750 (8504) 16,250 (7371) 18,750 (8505) lb (kg) 14,025 (6368) 25,850 (11736) 39,750 (18029) 32,750 (14855) 36,250 (16443) lb (kg) N/A 34,250 (15535.5) 38,150 (17304.5) 38,250 (15335.5) 38,150 (17304.5) lb (kg) 1 2 3 370 ½ (9.4) 302 (7.6) 304.5 (7.7) lin (m) 197 ½ (5) 284 (7.2) 370 ½ (9.4) 302 (7.6) 304.5 (7.7) lin (mm) N/A N/A N/A N/A N/A lin (mm) % (16) 102 (2.59) 111 (2.82) lin (mm) ½ (1

Patz Paragram

*Minimum PTO horsepower requirement is for continuous run. Starting the mixer under load will require higher PTO horsepower. **Patented +Quantity varies with

	2400 Series II			3600 S	eries II	
10 / 810XH	950 / 950XH	1100 / 1100XH	1100 / 1100XH Walking Beam	1400 Non-Steering Axle	1400 Self-Steering Axle	
810 (22.9)	950 (26.9)	1,100 (31.1)	1,100 (31.1)	1,400 (39.6)	1,400 (39.6)	
950 (26.9)	1,100 (31.1)	1,270 (36)	1,270 (36)	1,580 (44.7)	1,580 (44.7)	
330 (E0.3)	17100 (3111)	1/2/ 0 (30)	1,270 (30)	1,500 (11.7)	1,555 (11.5)	
3,670 (8468.6)	19,790 (8976.6)	20,980 (9516.4)	24,200 (10976)	34,820 (15794)	35,020 (15885)	
0,550 (9321.3)	22,322 (10125.0)	23,746 (10771.0)	26,966 (12231)	N/A	N/A	
0,250 (9185)	23,750 (10773)	27,500 (12,474)	27,500 (12474)	35,000 (15876)	35,000 (15876)	
920 (17653.8)	43540 (19749.4)	48,480 (21990.2)	51,700 (23451)	69,820 (17826)	70,020 (31761)	
800 (18506.6)	46,072 (20897.9)	51,246 (23326.4)	54,466 (24705)		/A	
	2				3	
325 (8.3)	329 (8.4)	358 (9.1)	358 (9.1)	420 1/4	(10.7)	
99 (2.5)	108 ¼ (2.7)	131 (3.3)	120 (3)	128 (3.3)	132 (3.4)	
102 (2.56)	110 ¼ (2.80)	133 (3.4)	122 (3.1)	N	/A	
109 (2.8)	109 (2.8)	109 (2.8)	109 (2.8)	107 ¾	4 (2.7)	
	% (16), ¾ (19) XH			3/4 ((19)	
	³ ⁄ ₄ (19)			3/4 (
	1/4 (6), 3/8 (9.5) XH			5/16	(8)	
125 HP	145 HP		170 HP		.O) speed	
				Access From Left Sides		
	Standard					
			peed Gearbox, Powershift, or Autosh	nift.		
		4-Pc	int			
	Split Dual Walking tar	ndem	or Self-Steering Axle	Tri-	Axle	
	8		4 Super Singles	12 (Duals)	6 (Super Singles)	
245.70	R 19.5 Tubeless Imple	omant Tiras	385 / 65 R22.5	255 / 70 R22.5 385 / 65 R22.5		
243 70	it 15.5 Tubeless impli	1000		2557 70 1122.5		
		1000	THE TOTAL PROPERTY OF THE PROP			
26 (660)	30 (762)		30 (762)	20 (762)	
20 (000)	JU (70Z)	42 (1,		30 (102	
		12 (1)	,			
	39 (991)					
	34 (864)					
Various disch	arge packages avail	able.				
	Dealer for details.					
Varies wit	h discharge selected	d.				
lautax® Change	One Type of Carey for	r vour Miving Nacds		Vartor® Chassa One Tons	Carour for your Missing No	
	One Type of Screw fo				Screw for your Mixing Needs	
Single or Di per screw/10 total	ial Kicker - Multi-Ang	11 per screw/22 total	11 per screw/22 total	Single or Dual Kicker - N 7 per screw/21 total	Multi-Angle or Cone Top 7 per screw/21 total	
Jei SCIEW/ IU (Old)	7 per screw/14 total Optional	11 per screw/22 total	11 per screw/22 total	/ per screw/21 total	/ per screw/21 total	
ine	Ориона		Chain	Chain	or Pipe	
ipe	Optional		Citalii	Cridiff	οι τηρε	
Various	Options Available					
Various	Optional					
i-Star®, dinami	ca generale®, & Weig	gh-Tronix®				
,	Optional					
	Optional					
	Optional					
	Optional					

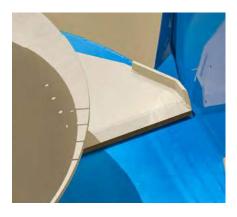


material in the ration and processing time.





Standard Features



PRECISION FITTED SCREWS

Patz screws are designed for sidewall mixing action, material lift, and cleanout. The welded plow wing maintains Balanced Flow™ by keeping walls clean on every rotation.



PATENTED BAFFLES

Baffles gently direct all ingredients around both screws from mixer end to end for a thorough TMR in twin and triple screw mixers.

Constructed of 1/4" (3/8" for XH) steel for durability & long life.



RESTRICTORS

Reversible restrictors are located on front left and right rear of tub. Adjust in or out to control the flow of forages inside. Longer forages can be processed faster by setting restrictors further in.



PLANETARY GEARBOX

Strong planetary gearboxes are backed by a 5-year, prorated planetary gearbox warranty.

Grease zerks are easily accessible.



OVERLAPPED SIDEWALLS

Flared tub ends and vertical sidewalls are overlapped and double-joined by an exterior anchor weld and interior seam weld.



SAFETY GRID

Designed to prevent accidental entry into the mixing chamber from above. Top guard meets ASABE® safety standards.

Stationary TMR Mixers

Optional Features



PATENTED TUB MAGNET

This Patz Exclusive patented magnet is strong enough to pull tramp metal from the ration while mixing. Quick release opening system allows for safe and easy cleaning and servicing.



TUB LINER

Choice of 3/6" thick steel or 11 gauge stainless steel for additional wear protection of mixer tub.



DISCHARGE MAGNET

Help protect your livestock by removing trace metal from rations.

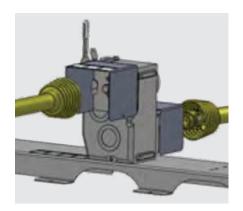


MIXING KNIVES

Add knives to cut long stemmed material. Choice of tungsten carbide or Patented Raptor™ knives in a variety of sizes.

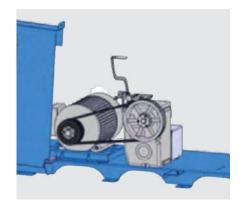


Drive Options



2-SPEED

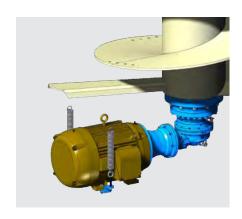
For both PTO or electric motor drives, the manual stop-and-shift High-Low transmission reduces drive power requirements.



BELT & PULLEY

Designed for 1 motor or 2, the belt and pulley option offers drive reduction and system safety.

Available with double reduction and 2-speed transmission.



DIRECT ELECTRIC DRIVE

Direct Electric Drive (DED) is self-contained under mixer for installation versatility. More efficiency—less power transmission loss.



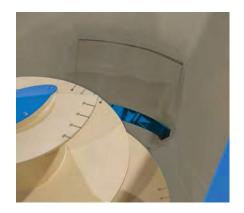


VARIABLE FREQUENCY DRIVE

VFD control package is TMR control including: built-in soft start, 3 forward speeds, 30-second BOOST for screw clean-off, and reverse.

Stationary TMR Mixers

Discharge Options



REAR COMMODITY

Pre-mix commodities once & empty into a storage bin. Capable of being installed in narrow spaces.



SIDE DISCHARGE(S)

Side doors can be equipped with a chain conveyor discharge with collapsible steel sides. Available in hydraulic or manual operation.



HYDRAULIC OPERATIONS

Discharge doors for vertical mixers are able to be opened and closed manually or hydraulically. Conveyor discharge systems also operate with hydraulics.



Feeding Options









CHAIN & FLITE CONVEYORS



12-24" BELT FEEDERS

Detailed Vertical Mixer Specifications (Stationary)

	400 Series II 600 Series		800 Ser	800 Series II			
	U/M	140	200	185	270 Low Profile	350	420
CAPACITY							
Mixing	ft ³ (m ³)	140 (3.9)	200 (5.7)	185 (5.2)	270 (7.6)	350 (9.9)	420 (11
w/Optional Extension	ft³ (m³)	180 (5.0)	240 (6.8)	235 (6.6)	335 (9.5)	425 (12)	490 (13
UNIT							
Empty Wt.	lb (kg)	4,184 (1898)	4,575 (2075)	5,517 (2503)	5,995 (2719)	6,446 (2924)	7,400 (33
Max. Load @ 25#/cu.ft.	lb (kg)	3,500 (1588)	5,000 (2268)	4,625 (2102)	6,750 (3062)	8,750 (3969)	10,500 (4
Max. Gross Wt.	lb (kg)	7,684 (3486)	9,575 (4343)	10,142 (4600)	12,745 (5781)	15,196 (6893)	17,900 (8
No. of Screws (See Options below)						1	
Overall Length	in (m)	118 ½ (3.0)	118 ½ (3.0)	120 (3.0)	132 1/8 (3.4)	146 % (3.7)	152 ¾ (
Overall Height	in (m)	86 % (2.2)	100 ¾ (2.5)	86 % (2.2)	91 ½ (2.3)	97 ½ (2.5)	93 (2.4
Overall Width	in (m)	79 ½ (2)	79 ½ (2)	84 % (2.1)	103 % (2.6)	103 (2.6)	
Overall Height w/Side Ext.	in (m)	95 % (2.4)	109 ¾ (2.8)	98 (2.5)	103 ½ (2.6)	109 ½ (2.8)	103 % (2
Screw Flighting Thickness	in (mm)			½ (13)			
Floor Thickness	in (mm)			½ (13)			
Sidewall Thickness	in (mm)	1/4 (6)					
Hour Meter							
Drive Package			Choice of PTO or Electric (Direct, VFD, or 2-Speed)				
Scale System				3-Point			
Operating Speed				540	0 or 1000		
DOOR OPENINGS							
Front/Rear Commodity							
Height	in (mm)	N/A	N/A	N/A	26 (660)	30 (762)	
Width	in (mm)	N/A	N/A	N/A			
Side	in (mm)	31 (787)	31 (787)	31 (787)	20 (00	1)	
Height Width	in (mm)	24 (610)	24 (610)	24 (610)	39 (99		
Widti	III (IIIIII)	24 (610)	24 (610)	24 (610)	34 (86	4)	
Discharge							
OPTIONS							٧
V ertical Mixer Screw			Tru Ta	per™ Dual Kicker - Cone	Top - 1 per unit		Single
Maximum No. of Knives+		4	5	4 (34"H), 5 (44"H)	5	-	7
Side Extensions		<u>'</u>		1 (3111), 3 (1111)	, ,	<u> </u>	
Hay Retainer Option(s)				N/A			
Discharge Chute w/ or w/out Magnet				IN/A			
Discharge Conveyor(s)							
Tub Mounted Magnet**							
Indicator Extension Arm							
							D:
Wide Selection of Indicators							Dig
Motor Control VFD							
Ladder							









	1200 Series			1800 Series			2400 Series II			
	500	615	265	510	750	810	950	1100		
3)	500 (14.2)	615 (17.4)	265 (7.5)	510 (14.4)	750 (21.2)	810 (22.9)	950 (26.9)	1,100 (31.1)		
9) 9)	575 (16.3)	690 (19.5)	Up to 330 (9.3)	Up to 620 (17.5)	Up to 910 (25.8)	950 (26.9)	1,100 (31.1)	1,270 (36)		
,	373 (10.3)	050 (15.5)	OP 10 330 (3.3)	op to 020 (17.5)	Op 10 3 10 (23.0)	330 (E0.3)	17100 (3111)	1,270 (30)		
57)	7,750 (3515)	8,350 (3787)	6,415 (2937)	11,970 (5430)	17,400 (7893)	15,975 (7246)	16,925 (7677)	17,975 (8153)		
53)	12,500 (5670)	15,375 (6974)	6,625 (3005)	12,750 (5783)	18,750 (8504)	22,500 (10206)	25,000 (11340)	27,500 (12474)		
20)	20,250 (9185)	23,725 (10761)	13,100 (59942)	24,720 (11213)	36,150 (16397)	38,475 (17452)	41,925 (19016)	45475 (20627)		
				2	3		2			
9)	159 ½ (4.1)	168 ½ (4.3)	132 ¼ (3.3)	218 ¾ (5.5)	305 ¾ (7.7)	261 ¼ (6.6)	268 ¼ (6.8)	277 ¾ (7.1)		
	102 ½ (2.6)	114 ¾ (2.9)	95 ¾ (2.4)	97 ¼ (2.5)	97 ¼ (2.5)	97 ¾ (2.5)	106 ½ (2.7)	120 (3)		
			109 (2.8) + 9	$\frac{1}{2}$ (0.24) per side w	ith discharge(s)					
6)	111 ½ (2.8)	123 ¾ (3.1)	107 ¾ (2.7)	109 ¼ (2.8)	109 ¼ (2.8)	108 ¼ (2.7)	117 (3)	130 ½ (3.3)		
				5/8 (16)						
		5/8	(16)				3⁄4 (19)			
				1/4 (6)						
	Standard									
				Direct Electric Driv	/e		PTO or Direct Electr	ic		
				4-Point						
				100	00 RPM					
	26 (660)			26 (660)		26 (660)	30 (762)		
	34 (864)		l	20 (000)		20 (000)	42 (1,067)	702)		
	J+ (00+)						42 (1,007)			
				39 (991)						
				34 (864)						
Vario	ous discharge packag	ges available.		- ()						
	See Dealer for de									
	Choose One Type of		Tru Tap	er™ Choose One Typ		Vorte	x [®] Choose One Type			
	or your Mixing Needs Kicker - Multi-Angle		Single or Dual Kic	for your Mixing Need ker - Multi-Angle or C		Single or Du	for your Mixing Need al Kicker - Multi-Ang			
Duai	9	9		w (34"H)+ 7 per so		5 per screw/10 total	7 per screw/14 total	11 per screw/22 total		
	Steel/Rubber		5 pe. se. e	(o,		o per ocien, ro total	7 per seren, 1 1 com.	per serent/22 total		
	Chain			N/A			Chain			
	Optional			14//1			Cridiii			
	Various Options Av	vailable								
	Optional									
	Optional									
-Star®	, dinamica generale	® & Weigh-Troniv	, @							
Jtai	Optional	, a weight hollis								
	Optional									



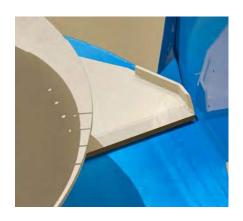
Optional serial in the ration and processing time.







Truck Mounted TMR Mixers **Standard Features**



PRECISION FITTED SCREWS

Patz screws are designed for sidewall mixing action, material lift, and cleanout. The welded plow wing maintains Balanced Flow™ by keeping walls clean on every rotation.



PATENTED BAFFLES

Baffles gently direct all ingredients around both screws from mixer end to end for a thorough TMR in twin and triple screw mixers.

Constructed of 1/4" (3/8" for XH) steel for durability & long life.



RESTRICTORS

Reversible restrictors are located on front left and right rear of tub. Adjust in or out to control the flow of forages inside. Longer forages can be processed faster by setting restrictors further in.



PLANETARY GEARBOX

Strong planetary gearboxes are backed by a 5-year, prorated planetary gearbox warranty.

Grease zerks are easily accessible.



OVERLAPPED SIDEWALLS

Flared tub ends and vertical sidewalls are overlapped and double-joined by an exterior anchor weld and interior seam weld.



TOP RING

The ½" (12.7mm) top ring is critical to mixer strength and shapes the tub while allowing sidewalls to flex. It absorbs round bale shock and deflects the loader bucket.

Truck Mounted TMR Mixers

Optional Features



PATENTED TUB MAGNET

This Patz Exclusive patented magnet is strong enough to pull tramp metal from the ration while mixing. Quick release opening system allows for safe and easy cleaning and servicing.



DISCHARGE MAGNET

Help protect your livestock by removing trace metal from rations before it reaches your herd.



MIXING KNIVES

Add knives to cut long stemmed material. Choice of tungsten carbide or Patented RaptorTM knives in a variety of sizes.



CHAIN HAY RETAINER

Bolted to the top of the mixer tub, a hay retainer helps guide dry hay inside the tub during mixing.



RUBBER SIDE EXTENSION

Single screw mixers: all rubber extension. Double and triple screw mixers: rubber and steel extension combination for extra durability. Adds an additional 9 1/4" height.



TUB LINER

Choice of 3/16" thick steel or 11 gauge stainless steel for additional wear protection of mixer tub.





VIEWING PLATFORM

View ration mixing from front viewing platform, providing left and right access.





SCALES/INDICATORS

Increase your profits by accurately weighing feed ingredients with Avery Weigh-Tronix®, Digi-Star®, or dinamica generale® scales.



CAMERA PACKAGE

The 7" LCD monitor is great for backing up and discharging feed. Camera is weatherproof and shock-resistant.

Truck Mounted TMR Mixers Discharge Options



FRONT DISCHARGE CONVEYOR

Can be trailer mounted (feed not weighed on conveyor) or tub mounted (feed weighed on conveyor).



FLAT W/INCLINE EXTENSION

Flat with incline and fixed incline conveyors with right-hand or lefthand discharge also available.



FLAT CONVEYOR

Choice of fixed or sliding flat conveyors with right-hand, lefthand, or reversible discharge.



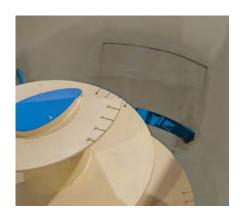
SIDE DISCHARGE(S)

Side doors can be equipped with a chain conveyor discharge with collapsible steel sides. Available in hydraulic or manual operation.



SIDE CONVEYORS

Side discharge conveyors are 36" wide with choice of 36" or 54" lengths.



REAR COMMODITY

Pre-mix commodities once & empty into a storage bin, Back mixer into narrow spaces for emptying, and streamline mixing process.



Detailed Vertical Mixer Specifications (Truck Mount)

			1200 Series		1600 Series II	
	U/M	420	500	615	620	8
CAPACITY						
Mixing	ft ³ (m ³)	420 (11.8)	500 (14.2)	615 (17.4)	620 (17.6)	
w/Optional Extension	ft³ (m³)	490 (13.9)	575 (16.3)	690 (19.5)	720(20.3)	
UNIT						
Empty Wt.	lb (kg)	6,860 (3111)	7,280 (3302)	7,780 (3529)	10,500 (4773)	
XH Empty Wt.	lb (kg)	N/A	N/A	N/A	N/A	
Max. Load @ 25#/cu.ft.	lb (kg)	10,500 (4763)	12,500 (5670)	15,375 (6974)	15,500 (7031)	
Max. Gross Wt.	lb (kg)	17,360 (7874)	19,780 (8972)	23,153 (10503)	26,000 (11804)	
XH Max. Gross Wt.	lb (kg)	N/A	N/A	N/A	N/A	
No. of Screws (See Options below)			1			
Overall Length	in (m)	152 ¾ (3.9)	159 ½ (4.1)	168 ½ (4.3)	227 (5.77)	
Overall Height	in (m)	79.7 <mark>(2)</mark>	89.3 (2.3)	108 ½ (2.7)	99 ½ (2.5)	
Overall Width	in (m)		109 (2.8)		101 (2.5)	
Screw Flighting Thickness	in (mm)		% (16)		5%(16)	
Floor Thickness	in (mm)		³ ⁄ ₄ (19)		5%(16)	
Sidewall Thickness	in (mm)	1/4 (6)				
Hour Meter					Standard	
Scale System					4-Point	
Operating Speed					1000 RPM	
DOOR OPENINGS						
Front/Rear Commodity	in (mm)	26 (660)		20 (76)		
Height Width	in (mm) in (mm)	26 (660)	42 (1,067)	30 (762	34 (864)	
Side (4 Locations)	111 (111111)		42 (1,007)		34 (604)	
Height	in (mm)				39 (991)	
Width	in (mm)				34 (864)	
	()			Va	rious discharge packages available.	
Discharge					See Dealer for details.	
Ground Clearance					Varies with Truck	
OPTIONS					Tru Taper™ Choose One Type of	
Vortex® Vertical Mixer Screw		Vortex ® Choose	One Type of Screw for y	our Mixing Needs	Screw for your Mixing Needs	
Single or Dual Kicker			cker - Multi-Angle or Cor		Dual Kicker - Multi-Angle or Cone Top)
Maximum No. of Knives+		7	9	9	7 Per Screw/14 Total	
Side Extensions					Steel/Rubber Steel/Rubber	
Hay Retainer					Chain or Pipe	
Discharge Chute w/ or w/out Magnet					Optional	
Viewing Platform					Access From Left Side	
Discharge Conveyor(s)					Various Options Available	
Tub Mounted Magnet**					Optional	
Wide Selection of Indicators				Digi-Sta	ar®, dinamica generale®, & Weigh-Tronix	(®
Camera Package		Optional				



*Minimum PTO horsepower requirement is for continuous run. Starting the mixer under load will require higher PTO horsepower. **Patented +Quantity varies with



2400 Series II						
10 / 810XH	950 / 950XH	1100 / 1100 XH				
810 (22.9)	950 (26.9)	1,100 (31.1)				
950 (26.9)	1,100 (31.1)	1,270 (36)				
17,200 (7802)	18,470 (8378)	19,170 (8695)				
19,000 (8618)	20,900 (9480)	22,000 (9979)				
20,250 (9185)	23,750 (10773)	27,500 (12474)				
37,450 (16987)	42,220 (19151)	49,170 (22303)				
39,250 (17803)	44,650 (20252)	50,400 (22861)				
2						
262 (6.7)	268 (6.8)	278 (7.1)				
74 (1.9)	83.2 (2.1)	95.6 (2.4)				
	109 (2.8)					
% (16), ¾ (19) XH						
3⁄4 (19)						
	1/4 (6), 3/8 (19) XH					

26 (660)	30 (762)	30 (762)
	42 (1,067)	

Vortex ® Choose One Type of Screw for your Mixing Needs					
Single or Dual Kicker - Multi-Angle or Cone Top - 1 per unit					
5/10 t-t- 7/14 t-t- 11/2					

5 per screw/10 total	7 per screw/14 total	11 per screw/22 total

material in the ration and processing time.







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