

# 1200 SERIES II TRAILER SINGLE SCREW VERTICAL MIXERS



## THE MOST TRUSTED MIXER THE MOST VALUED MIX

- ✓ **Consistent** TMR beyond demo and after the sale - precision feeding for service life.
- ✓ **Capacity** with Balanced Flow™ Technology - no dead spots at struck height!
- ✓ **Cleanout** minimizes residue carryover for balanced rations, batch integrity, and nutrient cost control.

**FEEDINGSOLUTIONS**  
www.patzcorp.com

**FEEDING IS BELIEVING!**  
Schedule a DEMO Today!

**INVESTMENT FLEXIBILITY**  
Ask Dealer for Financing Details



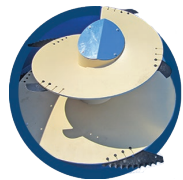
# 1200 Series II Single Screw Vertical Mixer

## BALANCED FLOW™ TECHNOLOGY

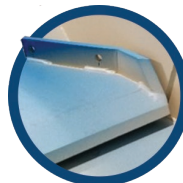


### PROVEN, PATENTED PRODUCTIVITY

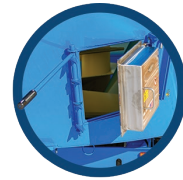
Patz® exclusive engineering design balances horizontal processing and vertical mixing. This continuous, controlled motion ensures a thorough and consistent mix with superior clean-out.



1. Precision-fitted, AR400 Component Vortex® screw with cupped flighting creates the Patz signature rolling-boil for faster mixing and high-volume feed flow.



2. Welded, AR400 shear plow wing tight tolerance cleans the tub sidewall for maximum mixing action and cleanout with minimal torque.



3. Stainless steel tub-mounted magnet with patented, reticulum retention design removes tramp metal without restricting feed flow. Feed safer and inspect frequently with quick-opening access.



4. Reversible restrictor plates are located on front left and right rear of tub. Adjust in or out to control forage flow and particle size.



5. Surface-primed, overlapping steel tub-ends and sidewalls with reinforced exterior anchor and interior seam welds; sand-blasted and primer finish with high-gloss hardened, premium paint.



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## FEED THE POTENTIAL™

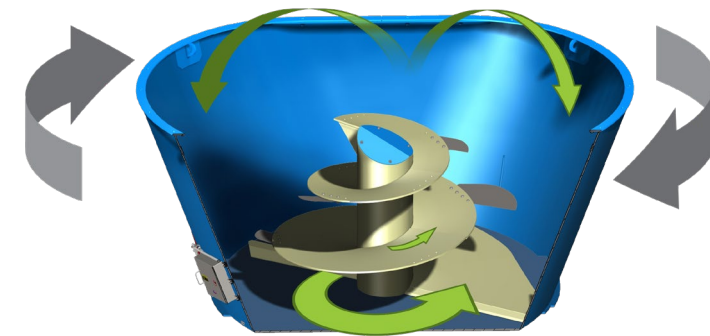
### THE PROFESSIONAL PRODUCER'S CHOICE IN TMR

Feed is 65% of operating costs. Make every ingredient count with a consistent TMR from start to finish.

- Feed a wider variety of ingredients.
- Maximize dietary fiber with large squares and wet or dry standard and high-density round bales.
- Batch size flexibility for special needs or pre- and post-fresh groups.



### UNLEASH THE TOTAL MIX POTENTIAL OF YOUR FEED, YOUR HERD, AND YOUR MANAGEMENT WITH PATZ VERTICAL MIXERS!



Gray arrows indicate direction of screw rotation.  
Green arrows indicate Balanced Flow™ of feed



- Highest rated consistency throughout service life in the industry in independent TMR audits!
- Minimize sorting and reduce refusals with a palatable, well-blended TMR.
- Increase dry matter intake (DMI) with uniform theoretical length of cut (TLC).
- Improve TDN utilization by preserving physically effective fiber (peNDF) integrity.
- Ensure precision feeding program accuracy with Patz superior cleanout!

# 1200 Series II Single Screw Vertical Mixer

## Standard Features

Units Available: 420, 420XH, 500, 500XH, 615, & 615XH cu. ft. (11.89, 14.16, and 17.41 m<sup>3</sup>)



Singles  
420 cu. ft. - 103"  
500 cu. ft. - 112"  
615 cu. ft. - 125"

Duals  
420 cu. ft. - 97"  
500 cu. ft. - 106 5/16"  
615 cu. ft. - 119 5/16"

2-Speed Powershift

2-Speed Manual

### HIGH EFFICIENCY DRIVETRAIN ENGINEERING

Overload Protected, Poly-Shielded ASABE/ISO/CE Safety Guarded/Harnessed Driveline. Available in:

- 6 Spline 1 3/8 inch 540/1000 RPM PTO; or
- 21 Spline 1 3/8 inch 1000 RPM PTO; or
- 20 Spline 1 3/4 inch 1000 RPM PTO

### ROBUST DRIVE PACKAGE OPTIONS

- 1 Non-CV Direct Drive:** A simple design that makes this an economical choice with low maintenance.
  - Standard, shear bolt style primary shaft
  - Frame mounted pillow block bearing
  - Solid secondary driveline coupled to the planetary gearbox
- 2 CV Direct Drive:** Optimal for operating while maneuvering.
  - 540 or 1000 RPM Constant Velocity primary shaft
  - Frame mounted flange bearing to reduce vibration
  - Collapsible secondary shaft
- 3 \*2-Speed Manual:** Stop-and-Shift, Hi-Low, Single Reduction Gear box with optional Cable Remote.
- 4 \*2-Speed PowerShift:** First in its class PowerShift Transmission allows operator to shift under full power. When disengaged, transmission defaults to Low. Includes wireless remote and LED status indicator.

\*Transmission backed by 5-Year Pro-Rated Warranty.

- 5** Independent **oil reservoir** with dip-stick cap to monitor planetary gearbox oil level, centrally located for routine maintenance.
- 6** Heavy Duty 90° **Planetary Gearbox** backed by a 5-Year Pro-Rated Warranty.

### DURABLE TUB AND TRAILER DESIGN

- 7** 1/2 inch (13 mm) Reinforced, Welded Gusset Top Ring.
- 8** 3/4 inch (6 mm) or 3/8 inch (9 mm) XH - Overlapping, surface-primed, 58-80K PSI Ultimate Tensile Strength (UTS) sidewalls reinforced with exterior anchor and interior seam welds, finished with high-gloss hardened, premium paint.
- 9** **Reversible restrictor plates**, located front left and right rear of tub, adjust in or out to control forage flow and particle size.

- 10** Integrally formed, reinforced **tub floor** provides the solid structure for mixer construction minimizing flex and fatigue:
  - 3/4 inch (16 mm) Solid Steel **Base Plate** with Beveled Sidewall Foundation Joist
  - 1/2 inch (13 mm) Welded Steel **Cantilever Cross Members** evenly distribute orbital mixing torque
  - 3/4 inch (19 mm) Welded Steel Sectional **Sub-Floor** forms rigid 1 1/2 inch (38 mm) Planetary Gearbox Mount
- 11** 4 Independent **Weigh Bars** anchor tub to trailer for accuracy, serviceability, and reliability.
- 12** 3/4 inch x 4 inch x 8 inch (6.4 mm x 101.6 mm x 203 mm) Rectangular **Steel Tube Frame** equalizes load weight from hitch to taillight.
- 13** **Underslung "A" Frame Tongue** design provides 32 inches (81 cm) of strengthened load carrying capacity and turning torsion with a narrow turning radius to safely manage tongue weight.

- 14** **Undercarriage options** include choice of:
  - **Split Duals** with (4) 45/70 R 19.5 Tubeless Implement Tires fitted on heavy duty hubs fitted twin spindles on independent axles. The inline design allows for individual tire service, optimal turning radius, and minimum tire scrub.
  - **Conventional Duals** with (4) 45/70 R 19.5 Tubeless Implement Tires fitted on heavy duty hubs with independent axle/spindles. Designed with tire placement outside the trailer frame for service ease while maintaining low profile.
  - **Super Single Flotation Tire** (2) 445/50R 22.5 Flotation tires fitted on heavy duty hubs with independent axle/spindles. Designed with tire placement outside the trailer frame for service ease and improved off-road performance.
- 15** Safely view Patz exclusive mixing action from front **viewing platform** with treaded ladder, hydraulic line stowage, and auxiliary indicator mount.
- 16** Recessed **LED taillights** with 7-pin ISO connector for safe, visible transport.

Note: Variations may apply to standard and optional equipment for each unit size. Please refer to specifications (back page) for more information.

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## Optional Features

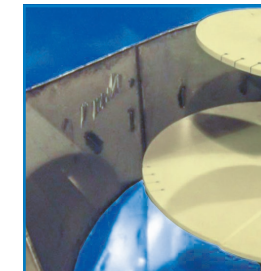


### FLAT W/INCLINE EXTENSION

Adjustable hydraulic positioning, RH and LH, cross conveyor extensions may extend 41 or 53 inches.

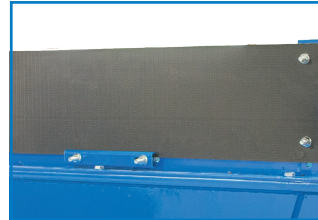
### FRONT DISCHARGE CONVEYOR

Tub-mounted cross conveyors weigh material on conveyor; Trailer-mounted conveyors are unweighed. Flat cross conveyor include RH, LH, reversing, and sliding discharge options.



### TUB LINER

Choice of  $\frac{3}{16}$  inch thick steel or 11 gauge stainless steel for additional wear protection of mixer tub.



### SIDE EXTENSION

Designed for durability and flexibility, 9½ inch side extension includes rugged rubber side belting for 15% more capacity.

### CHAIN HAY RETAINER

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



### MIXING KNIVES

Install genuine Patz knives to manage long fiber in your ration. Pair Patz patented AR400 RAPTOR® bale knife with our AR400 or hardened Tungsten/Carbide serrated knives in a variety of sizes.

### KNIFE OPTIONS

AR400 RAPTOR®  
4¾, 4¾, 5½, and 7½ inch

AR400 or Tungsten/  
Carbide Serrated  
12 and 21½ inch



### REAR COMMODITY

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



### 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 inch wide with choice of 36 inch or 54 inch lengths.



### PATENTED MAGNET

This Patz Exclusive patented magnet is strong enough to pull tramp metal from the ration while mixing or feeding.

### MAGNET OPTIONS

Tub Magnet  
Magnet that is mounted into the tub wall.  
Discharge Magnet  
Attaches to inside of discharge shrouding.



# 1200 Series II Single Screw Vertical Mixer Specifications



1200 Series II Vortex®	U/M	420	500	615
Mixing Capacity w/ Extensions (9-1/4 in)	ft <sup>3</sup> /m <sup>3</sup>	490 (14)	575 (16)	690 (19.5)
Empty Weight	lbs (kg)	9,500 (4,309)	9,890 (4,486)	10,475 (4,751)
XH Empty Weight	lbs (kg)	11,186 (5,074)	11,743 (5,327)	12,373 (5,612)
Max Load @ 25 lb/ft <sup>3</sup>	lbs (kg)	10,500 (4,763)	12,500 (5,670)	15,375 (6,974)
Max Gross Weight	lbs (kg)	20,000 (9,072)	22,390 (10,156)	25,850 (11,725)
Mixer Width	in (m)	109 (2.8)		
Floor Thickness	in (mm)	3/4 (19)		
Sidewall Thickness	in (mm)	1/4 (6); XH 3/8 (9)		
Door Opening Height x Width (Front)	in (mm)	26 x 42 (660 x 1,067)	30 x 42 (762 x 1,067)	
Door Opening Height x Width (Side - 2 Locations)	in (mm)	39 x 34 (991 x 864)		
Viewing Platform		Front; Right/Left Access		
Screw Flighting Thickness	in (mm)	5/8 (16); XH 3/4 (19)		
*Screw Height x Diameter	in (mm)	34 x 108 (864 x 2,743)	44 x 108 (1,118 x 2,743)	54 x 108 (1,372 x 2,743)
Knife Positions		5	7	9
Operating Speed	RPM	540 or 1,000	1,000	
Drive Package		Non-CV Direct; CV Direct; 2-Speed Manual; 2-Speed Powershift; 6/20/21 - Spline		
Minimum PTO HP (Continuous Run)	HP	85	90	110
Trailer Type		Split Dual - Inline (4); Conventional Duals (4); Super Single Flotation (2)		
Scale System		4-Point		
Tires		(4) 245/70 R 19.5 Implement Tires or (2) 445/50R22.5 Flotation Tires		

\*NOTE: For high hay rations (5% or more of total ration), including round bales, baleage, or large squares, select shorter screw from next smallest unit in this series.

## OPTIONS

Mixer Screws  
Mixer Knives  
Side Extensions  
- Rubber

Hay Retainer  
Discharge Chute w/ or w/o Magnet  
Discharge Conveyor  
Tub Mounted Magnet

Selection of Indicators  
- Digi-Star®  
- dinamica generale®  
- Weigh-Tronix®

Camera Package  
Ladder  
Hydraulic Control Center



**CAUTION:** Never operate Patz equipment without all shields and guards in place. **Safety Is No Accident.** Before operating any piece of equipment, be sure to read and understand the operator's manual. This manual should be kept with the machine at all times. Additionally, make sure all safety shields and devices are functioning properly and are securely in place. Specifications and prices subject to change without notice.