

2400 SERIES III TRAILER TWIN SCREW VERTICAL MIXERS



Patz



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.

FEEDING IS BELIEVING!
Schedule a DEMO Today!

FEEDINGSOLUTIONS
www.patzcorp.com

INVESTMENT FLEXIBILITY
Ask Dealer for Financing Details



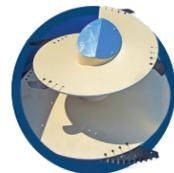
2400 Series III Trailer Twin Screw Vertical Mixer

BALANCED FLOW™ TECHNOLOGY

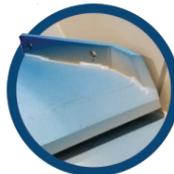


PROVEN, PATENTED PRODUCTIVITY

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



1. Precision-fitted, AR400 - Component Vortex® screw with cupped fliting 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. Contoured patented baffles balance horizontal processing and vertical mixing action in twin and triple screw vertical mixers.



4. The original, 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.



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



6. Overlapping sidewall and tub-end design for added strength, with reinforced exterior anchor and interior seam welds.



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FEED THE POTENTIAL™

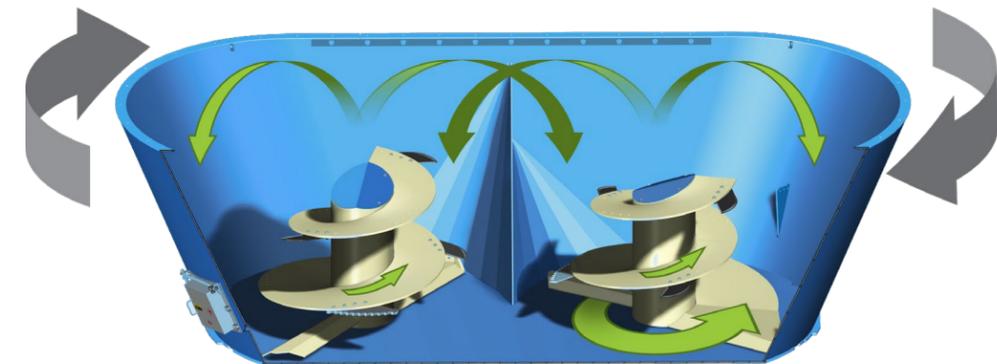
THE PROFESSIONAL PRODUCER'S CHOICE IN TMR

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

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Standard Features

Units Available: 810, 950, and 1100 cu. ft. (22.9, 26.9, and 31.15 m³)



HIGH EFFICIENCY DRIVETRAIN ENGINEERING

Overload Protected, Poly-Sheilded ASABE/ISO/CE Safety Guarded/Harnessed Drive-Line

- 1 Primary Drive-Line
 - Dual-Yoked **Constant Velocity (CV) Joint** PTO minimizes vibration during in-motion pivot operation. Available in:
 - 1 3/8 inch - 21 Spline (35 mm) PTO
 - 1 3/4 inch - 20 Spline (45 mm) PTO
 - Synchronized **Cut-Out Clutch** protects drive-line and tractor PTO from shock loads and eliminates shear-pins
- 2 Choice of manual 2-speed or programmable **T2 or T3 Autoshift Transmission** backed by 5-Year Pro-Rated Warranty
 - Manual 2-Speed Hi-Low transmission with optional cable remote cab control

- 3 Tertiary Drive-Line with Secondary **Cut-Out Clutch**
- 4 Heavy Duty 90° Planetary Gearbox backed by a 5 Year Pro-rated Warranty
 - Easy-access grease bank for routine drive-line maintenance
- 5 Independent oil reservoirs with dip-stick cap to monitor planetary gearbox oil level, centrally located for routine maintenance

DURABLE TUB AND TRAILER DESIGN

- 6 1/2 inch (13 mm) - Reinforced, Welded Gusset Top Rim
- 7 Sidewalls and tub-ends manufactured with ≥80,000 PSI UTS*, surface-primed, premium grade steel; sandblasted and primer sealed, finished with high-gloss hardened, premium paint

* Ultimate Tensile Strength

- 8 Reversible restrictor plates are located on front left and right rear of tub. Adjust in or out to control forage flow and particle size.
- 9 Integrally formed, reinforced tub floor provides the solid structure for mixer construction minimizing flex and fatigue:
 - 3/4 inch (19 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 a rigid 1 1/2 inch (38 mm) - Planetary Gearbox Mount
- 10 4 Independent **Weigh Bars** anchor tub to trailer for accuracy, serviceability, and reliability

- 11 3/8 inch x 6 inch x 10 inch (9.5 mm x 152 mm x 254 mm) - Rectangular **Steel Tube Frame** equalizes load weight from hitch to taillight
- 12 1/4 inch x 4 inch x 8 inch (6.5 mm x 102 mm x 203 mm) - **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
- 13 Split Dual **Walking Tandem Suspension** on eight heavy duty hubs fitted with hybrid DOT spec'd highway truck tire sidewall implement tires
- 14 Safely view Patz exclusive mixing action from front viewing platform with treaded ladder, hydraulic line stowage, and auxiliary indicator mount
- 15 Recessed LED taillights with 7-pin ISO connector for safe, visible transport

Some variations may apply to standard and optional equipment for each unit size. Please refer to specifications page for more information.

2400 Series III Trailer Twin Screw Vertical Mixer

TRANSMISSIONS T2 and T3

PRECISION TMR AUTOSHIFT TRANSMISSION

You may never mix a ton of feathers and a ton of bricks – but you do know they would mix differently. Density determines feed flow and friction, and friction equals torque. Weight is static – torque is movement. Don't just weigh your TMR – mix it with torque!

The next generation in precision feeding, Patz **patented** torque-controlled autoshift technology promotes TMR quality while protecting tractor PTO. **Patented** transmission control system design utilizes real-time operating torque to automatically shift up-or-down – and now shift into neutral (T3 only)– for optimal mixing speed and efficiency.

Patz precision TMR autoshift packages include:

- On-board Control Module with 3.5 inch high resolution color display for programming, manual functions, and real time diagnostics
- Operating Mode Options offers unparalleled flexibility with three (3) transmission operating modes Fully Automatic; Semi-Manual for manual control; and Custom Automatic with up to five (5) custom automatic shift point sequences for special rations



PATENTED AUTOSHIFT TECHNOLOGY EXCLUSIVE TO PATZ!

T2 Autoshift

2-Speed transmission with optimal mixing speed in 1st and high 2nd for faster feeding and cleanout.



T3 Autoshift

3-Speed transmission with neutral adds a low 1st gear for start-up under load, optimal mixing speed in 2nd gear, and a high 3rd gear for efficient feeding and cleanout.

Patz exclusive T3 features include:

- Built-in kinetic soft start technology protects tractor PTO clutch
- T3 defaults to neutral when started allowing primary driveline to free spin to preset minimum RPM before engaging transmission under load
- Low first (1st) gear eliminates full-torque hard starts or the need to over mix and over process the ration during transport
- Electronic buffered Modulated Shifting stabilizes shift points and reduces torque for smooth transition when shifting
- Timed-Neutral optimizes particle size and prevents over-processing through a programmable revolution counter, shifting the transmission to neutral when mix is complete



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Optional Features



FLAT W/INCLINE EXTENSION

Available with 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 3/16 inch thick steel or 11 gauge stainless steel for additional wear protection of mixer tub.



SIDE EXTENSION

Designed for durability and flexibility, 9 1/2 inch side extension includes rugged rubber side belting reinforced with steel end wall framework 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®
4 1/4, 4 3/4, 5 1/2, 7 1/2, and 10 inch

AR400 or Tungsten/
Carbide Serrated
12 and 21 1/2 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.

2400 Series III Trailer Twin Screw Vertical Mixer Specifications



2400 Series III Vortex®	U/M	810	950	1100
Mixing Capacity w/ Extensions (9 1/4")	ft ³ /m ³	950 (27)	1,100 (31)	1,270 (36)
Empty Weight	lbs (kg)	18,305 (8,303)	19,130 (8,677)	20,310 (9,213)
XH Empty Weight	lbs (kg)	20,185 (9,156)	21,062 (9,554)	22,796 (10,340)
Max Load @ 25 lb/ft ³	lbs (kg)	20,250 (9,185)	23,750 (10,773)	27,500 (12,474)
Max Gross Weight (XH)	lbs (kg)	40,435 (18,341)	44,812 (20,326)	50,296 (22,813)
Floor Thickness	in (mm)	3/4 (19)		
Sidewall Thickness	in (mm)	1/4 (6); XH 3/8 (9)		
Door Opening Height x Width (Rear/Front)	in (mm)	26 (660) x 42 (1,067)	30 (762) x 42 (1,067)	30 (762) x 42 (1,067)
Door Opening Height x Width (Side - 2 Locations)	in (mm)	39 (991) x 34 (864)		
Viewing Platform		Front w/ Right/Left Access		
Screw Flighting Thickness	in (mm)	5/8 (16); XH 3/4 (19)		
*Screw Height x Diameter	in (mm)	34 x 108 (991 x 2,743)	44 x 108 (1,118 x 2,743)	54 or 64 x 108 (1,372 or 1,626 x 2,743)
Knife Positions Per Screw		5	7	9 / 11
Operating Speed	RPM	1,000		
Drive Package		2-Speed Manual / T2® Autoshift / T3® Autoshift		
Minimum PTO HP (Continuous Run)	HP	125	145	170
Trailer Type		Split Dual; Tandem Walking Beam		
Scale System		4-Point		
Tires		(8) 245/70 R 19.5 Tubeless Implement Truck Tires or (8) 320/70 R 15 Tubeless Flotation Tires		(8) 285/70 R 19.5 Tubeless Implement Truck 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 Hay Retainer	Discharge Chute w/ or w/o Magnet	Discharge Conveyor Tub Mounted Magnet	Scale Systems - Digi-Star® - dinamica generale® - Weigh-Tronix®	Camera Package Ladder	Planetary Cooling System Gear Box Cooling System 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.



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