

# 2000 SERIES TRAILER TWIN 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

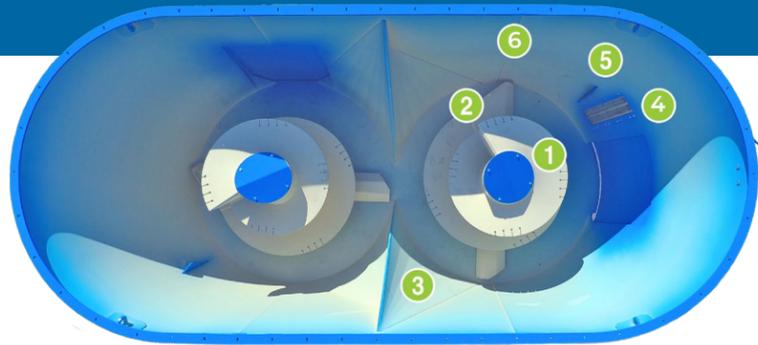
**FEEDING IS BELIEVING!**  
Schedule a DEMO Today!

**INVESTMENT FLEXIBILITY**  
Ask Dealer for Financing Details



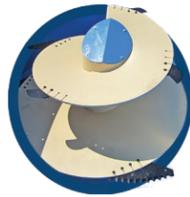
# 2000 Series Twin Screw Vertical Mixer

## BALANCED FLOW™ TECHNOLOGY

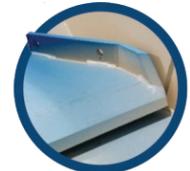


### PROVEN, PATENTED PRODUCTIVITY

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



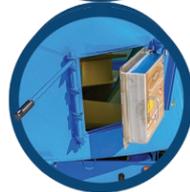
1. Precision-fitted, AR400-Component Tru Taper® screw creates the Patz signature rolling-boil for faster mixing and high-volume feed flow.



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.



# 2000 Series Twin Screw Vertical Mixer

## FEED THE POTENTIAL™

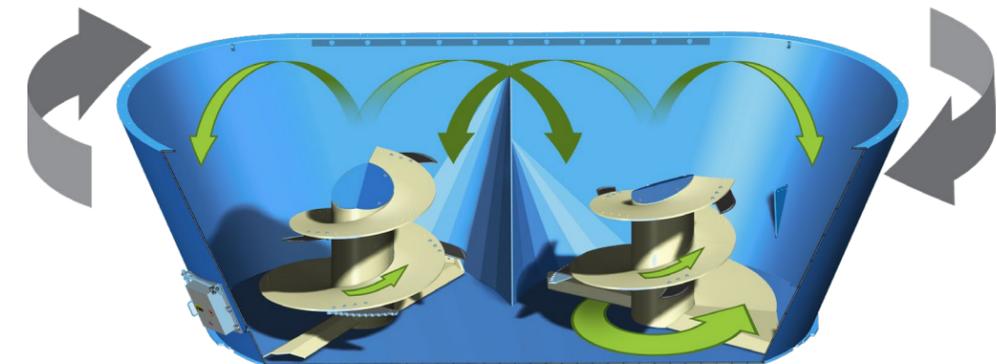
### THE PROFESSIONAL PRODUCER'S CHOICE IN TMR

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!

# 2000 Series Twin Screw Vertical Mixer

## Standard Features

Units Available: 520, 520XH, 620, 620XH, 740, 740XH cu. ft. (14.7, 17.6, 21.0 m<sup>3</sup>)



**Singles**  
 101 3/4" (2.9 m) [520]  
 109 1/4" (2.8 m) [620]  
 120" (3.1 m) [740]

**Duals**  
 99 1/2" (2.5 m) [520]  
 107" (2.7 m) [620]  
 117 3/4" (2.9 m) [740]

2-Speed Powershift

2-Speed Manual

### 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:
    - 6 Spline 1 3/8 inch (35 mm) PTO
    - 21 Spline 1 3/8 inch (35 mm) PTO
    - 20 Spline 1 3/4 inch (45 mm) PTO
  - Servicable **Shear Bolt Clutch** protects tractor PTO from mixer shock loads
- 2 **Optional 2-Speed Transmission** backed by 5 Year Pro-Rated Warranty:
  - Choice of:
    - o Manual Stop-and-Shift, Hi-Low, Single Reduction Gearbox with optional Cable Remote (Shown)
    - o 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.
- 3 **Tertiary Drive-Line with Secondary Shear Bolt Clutch** Heavy Duty 90° Planetary Gearbox backed by a 5 Year Pro-Rated Warranty

- 4 • Easy-access grease zerks 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.
- 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:

\* Ultimate Tensile Strength

- 5/8 inch (16 mm) - Solid Steel **Base Plate** with Beveled Sidewall Foundation Joist
- 3/4 inch (19 mm) - Welded Steel Sectional **Sub-Floor** forms a rigid 1 3/8 inch (38 mm) - Planetary Gearbox Mount

- 10 3-Point **Weigh System** consisting of 1 hitch and 2 spindle weigh bars
  - 11 Choice of:
    - 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) 45/50R 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.
- 1/4 inch (6.5 mm) - Formed plate steel unibody with a 1/4 inch x 3 inch x 8 inch (6.5 mm x 203 mm) - **Underslung "A"**

- 12 **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 Safely view Patz exclusive mixing action from front viewing platform with treaded ladder, hydraulic line stowage, and auxiliary indicator mount
- 14 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.

# 2000 Series Twin Screw Vertical Mixer

## Optional Features

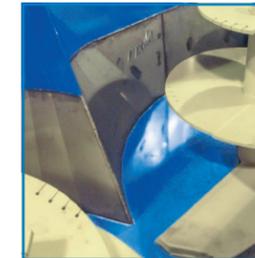


### FLAT W/ INCLINE EXTENSION

Available with adjustable hydraulic positioning, RH & 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 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®  
4¼, 4¾, 5½, 7½, and 10 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.

# 2000 Series Twin Screw Vertical Mixer Specifications



2000 Series  Tru Taper®	U/M	520	620	740
Mixing Capacity w/ Extensions (9-1/4 in)	ft <sup>3</sup> /m <sup>3</sup>	617 (17.5)	720 (20.3)	845 (23.9)
Empty Weight	lbs (kg)	12,500 (5,670)	13,700 (6,214)	14,600 (6,622)
XH Empty Weight	lbs (kg)	13,750 (6,237)	15,250 (6,917)	16,150 (7,326)
Max Load @ 25 lb/ft <sup>3</sup>	lbs (kg)	13,000 (5,897)	15,500 (7,031)	18,500 (8,391)
Max Gross Weight (XH)	lbs (kg)	26,750 (12,134)	30,750 (13,948)	34,650 (15,717)
Floor Thickness	in (mm)	5/8 (16)		
Sidewall Thickness	in (mm)	1/4 (6); XH 3/8 (9)		
Door Opening Height x Width (Front/Rear)	in (mm)	27 x 34 (686 x 864)	30 x 39 (762 x 991)	
Door Opening Height x Width (Side - 2 Locations)	in (mm)	39 x 34 (991 x 864)		
Screw Flighting Thickness	in (mm)	5/8 (16) and XH 3/4 (19)		
*Screw Height x Diameter	in (mm)	34 x 86 (864 x 2,184)	44 x 86 (1,118 x 2,184)	54 x 86 (1,372 x 2,184)
Knife Positions Per Screw		5	7	9
Operating Speed	RPM	540 or 1,000	1,000	
Drive Package		Direct/2-Speed Manual/2-Speed Powershift		
Minimum PTO HP (Continuous Run)	HP	70	80	100
Trailer Type		Unibody Fixed Axle		
Scale System		3-Point		
Tires		(2) 445/50R22.5 Tubeless Flotation Truck Tires or (4) 285/70R19.5 IMPL-VF Dual 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 series.

## OPTIONS

Mixer Screws	Hay Retainer	Selection of Indicators	Viewing Platform
Mixer Knives	Discharge Chute w/ or w/o Magnet	- Digi-Star®	Hydraulic Control Center
Side Extensions	Discharge Conveyor	- dinamica generale®	
- Rubber/Steel	Tube Mounted Magnet	- Weigh-Tronix®	



**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.