

# 1600 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!

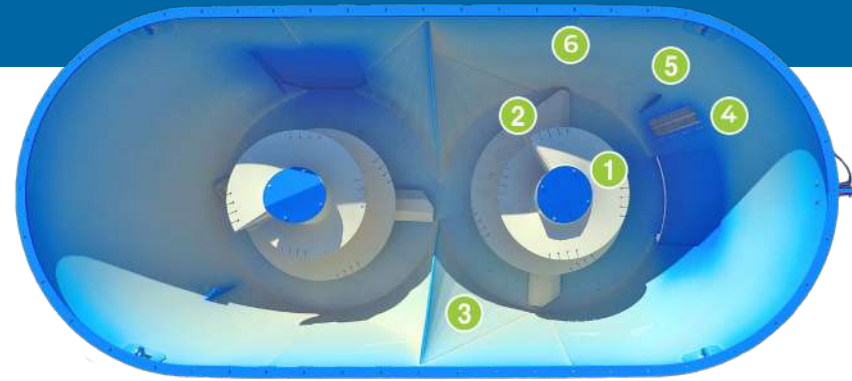
**INVESTMENT FLEXIBILITY**  
Ask Dealer for Financing Details





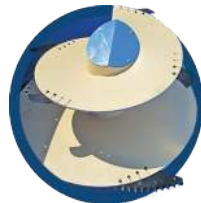
# 1600 Series Trailer Twin Screw Vertical Mixer

## BALANCED FLOW™ TECHNOLOGY

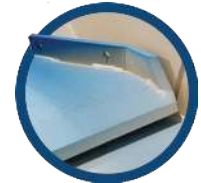


### PROVEN, PATENTED PRODUCTIVITY

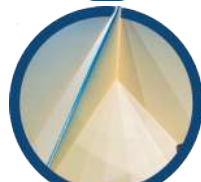
Patz exclusive design engineering balances horizontal processing and vertical mixing. The continuous, controlled motion ensures a thorough and consistent mix with superior clean-out.



1. Precision-fitted, AR400-Component 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. 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™

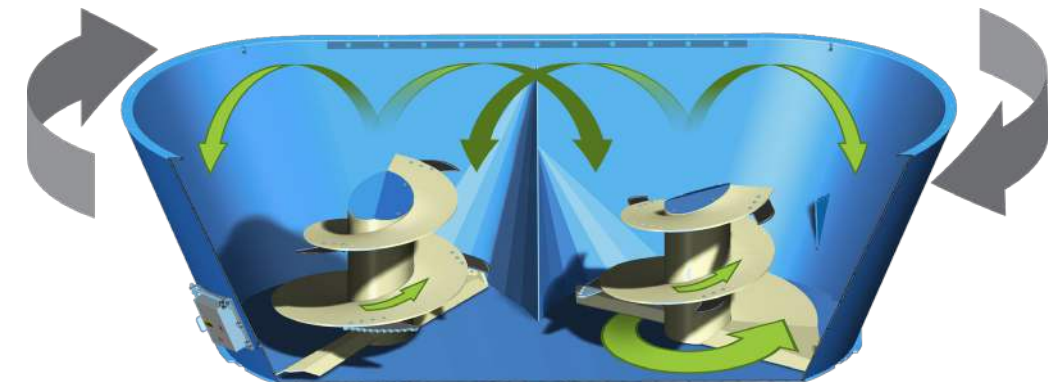
### THE PROFESSIONAL PRODUCER'S CHOICE IN TMR

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!



# 1600 Series Trailer Twin Screw Vertical Mixer

## Standard Features

520, 520 XH, 620, 620 XH, 740, 740 XH ft<sup>3</sup> (14.7 m<sup>3</sup>, 17.6 m<sup>3</sup>, 21.0 m<sup>3</sup>)



### 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" - 21 Spline (35 mm) PTO
    - 1 3/4" - 20 Spline (45 mm) PTO
  - Servicable **Shear Clutch** protects tractor PTO from mixer shock loads
- 2 Standard Direct-Drive mount allows for optional upgrade to 2-speed transmission.
- 2.1 Optional **2-Speed Manual** (pictured) or **2-Speed Powershift** transmission backed by 5 Year Pro-Rated Warranty.
- 3 Tertiary Drive-Line with Secondary **Shear Bolt 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 1/4 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

- 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

- 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 1/2 inch (38 mm) - Planetary Gearbox Mount

- 10 3-Point **Weigh System** consisting of 1 hitch and 2 spindle weigh bars

- 11 34 inch tread print with (2) 445/50R 22.5 flotation tires on heavy duty, super single rims and 10-bolt, 15,000 lb hubs

- 12 1/4 inch (6.5 mm) formed plate steel unibody with reinforced tapered Apex tongue hitch

- 13 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.

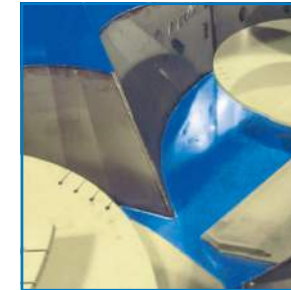
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## Optional Features



### 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.



### TUB LINER

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

### 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.





# 1600 Series Trailer Twin Screw Vertical Mixer Specifications



1600 Series I  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 (Standard)	lbs (kg)	10,900 (4,944)	11,900 (5,398)	12,200 (5,534)
Empty Weight (XH)	lbs (kg)	12,400 (5,625)	13,770 (6,246)	14,200 (6,441)
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)	25,400 (11,522)	29,270 (13,277)	32,700 (14,832)
Width	in (m)	99 (2.51)	101 (2.56)	103 (2.62)
Floor Thickness	in (mm)	5/8 (16)		
Sidewall Thickness	in (mm)	1/4 (6); XH 3/8 (9)		
Door Opening Height x Width (Side - 2 Locations)	in (mm)	27 x 34 (686 x 864)	30 x 34 (762 x 864)	
Door Opening Height x Width (Rear)	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 Drive / 2-Speed Manual / P2 Powershift; / 20/21 - Spline		
Minimum PTO HP (Continuous Run)	HP	70	80	100
Trailer Type		Unibody Fixed Axle		
Scale System		3-Point		
Tires		(2) 445/50R 22.5 Tubeless 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/Steel

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

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

Ladder



**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.