



## Powerblast spray system Flexibility for your application

### Durability for performance you can count on

**Stainless Steel Construction:** tank, fittings & hardware, mechanical agitation, hard plumbing, spray manifolds, fan housing, mechanical compartment cowl & doors. Rinses clean between applications.

The tank system is integrated with heavy duty tube frame for strength and durability.

**Rears Constant Velocity Hitch** for smooth 90° turns under full loads, nothing beats a Powerblast- *see inside*

**Rears centrifugal pump** 200 psi/80gpm, *see inside*

**Remote spray control** manual, electric, hydraulic, *see inside*

**Double-rollover nozzle bodies** switch your application rate with a simple twist, *see inside*

**Your ground clearance and wheel centers** in stock. Telescoping axle tubes; variable or fixed offset axles and a wide selection of tires.

**Time tested design, wide range of applications:** a flexible, durable system, *see inside*



**Variety of model profiles** pictured on this page, *clockwise from top, left:* 400 gallon, **TTN profile**, 33" fan; **1000 gallon**, 38" fan; 400 gallon, **narrow profile**, 7' tower, 33" fan; 500 gallon, **Tom Thumb profile**, 33" fan.

**33" or 38" diameter axial flow fan** fitted to the stainless steel fan housing for optimal performance, *see inside*

**Match your fan to your application:** select a blade pitch to match your application. Fans are interchangeable, *see inside*

**Electric fan clutch** on/off control for mixing



# powerblast blast

A selection of Powerblast fans are available to match your crop application and tractor horsepower. 33" diameter fans and 38" fans have a range of blade pitches available to maximize your tractor's air pushing power.

33		38	
pitch	horsepower*	pitch	horsepower*
18°	35	25°	85
20°	40	28°	95
22°	45	30°	100
25°	55	32°	110
27°	60		
28°	65		
30°	75		
32°	85		

\*Tractor PTO Horsepower requirements are provided for comparison and may not address the demands of your application. Talk to your dealer.

All 304 stainless steel blower housing- strongest in the industry; engineered for maximum air delivery and structural integrity. The large radius air inlet & outlet bells are pulled to shape for optimum performance and strength.

Each fan is manufactured by Rears and dynamically balanced.

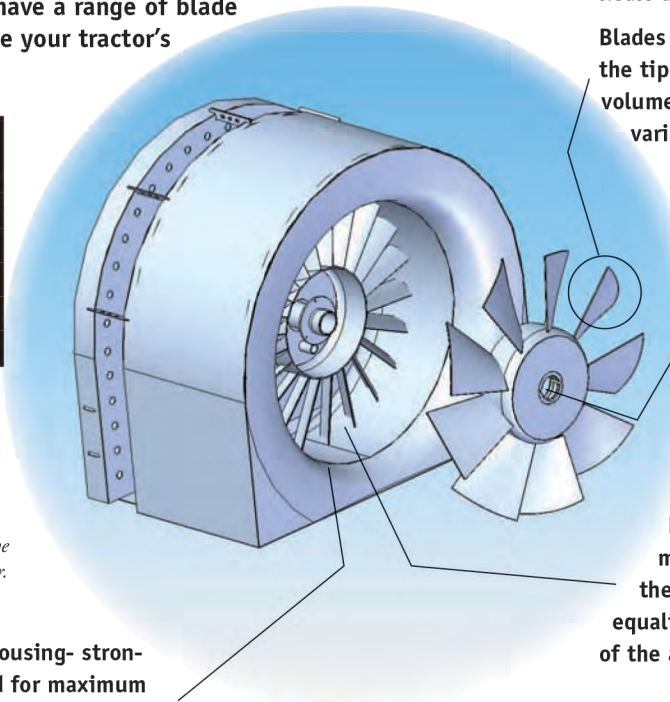
Blades are aggressively flared at the tip to push the maximum air volume... volume no single variable pitch fan could match.

To take advantage of the aggressive flair of the Rears fan blade, the fan is fitted to the fan housing with a tight tolerance between the fan housing wall and the fan blade tip. This tight fit forces air where the surface area of the blade is widest and the tip speed is greatest for optimal performance.

Louvered air straightening vanes are mounted in line with the fan to take the twist out of the air stream and equalize air velocity around the periphery of the air slot.

Electric fan clutch with remote on/off control. Allows mixing without turbine.

Changing fans is a quick, ten minute job- including removing and reinstalling the fan grill.



heavy fan screen with 38" fan



## air design

Rears has a variety of air delivery systems to match the needs of your application.

- Orchard and Row crop volute with adjustable discharge angle *facing page*
- Vertical wall stacks louvered air vanes to adjust discharge angle; individual target zone spray controls; manual or electric target zone air discharge control *above, right, front page*
- Over the Row with spray scoops adjustable span for row width, air discharge control *facing page*

- Reverse inlet fan with grape wall tower and spray scoops *left*
- Grape elbows *left, facing page*

Call for more information.



# powerblast power

The Powerblast includes Rears' Constant Velocity Hitch- Keep your PTO running through 90° turns. The CVHitch delivers superior tracking and maneuverability. Any turn your tractor can make, the Powerblast will follow.

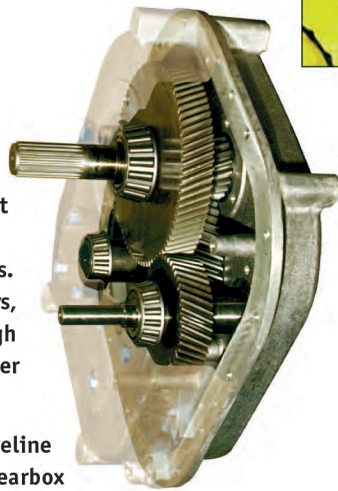
- All 55 series single U-Joint Weasler® cross kits
- Telescoping driveline eliminated protects tractor PTO system
- Utilizes the tractor 3-point hitch removes the requirement to establish a hitch pin center point
- 55 series through tank driveline 100HP rating @540RPM

Rears has been using this patented hitch for more than 30 years.

*Other hitch systems available*

Rears oversized Powerblast gearbox is built to eliminate premature maintenance issues. Engineered with oversize gears, large diameter shafts, and high capacity Timken® tapered roller bearings.

- 55 series through-tank driveline couples PTO power to the gearbox
- Gearbox drives the fan, the mechanical agitation and the pump system.
- Pump is belt driven, the only belt on the Powerblast. The belt can be removed or replaced quickly, without tools.
- The current Powerblast gearbox has been manufactured by Rears for more than 20 years. This is a proven, cost-effective, trouble-free gearbox.



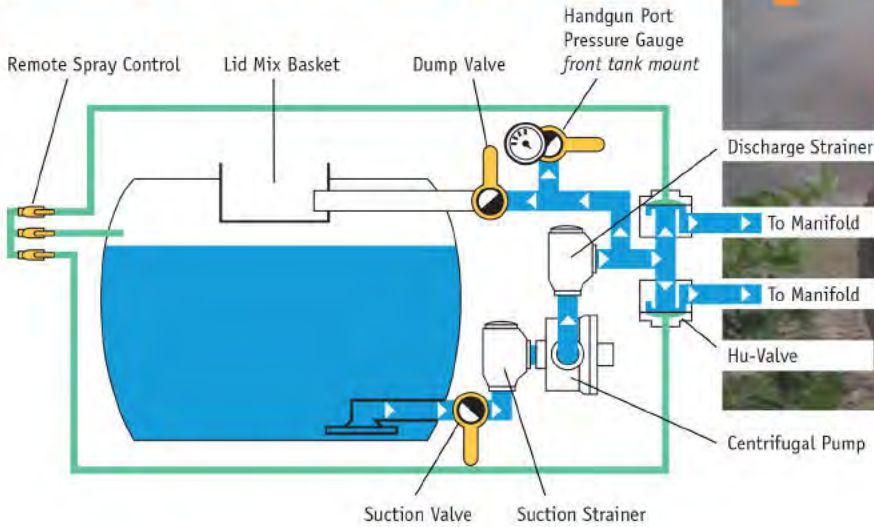
## repair



- Rears equipment is designed to be maintained by the common farm shop.
- Wherever possible commonly available and industry standard parts and fasteners have been used. These generic part numbers are listed in our manuals.
- Rears engineers strive to keep design simple and accessible.



# powerblast spray



The plumbing of the Powerblast was designed for ease of operation and maintenance: during and between applications.

- **All heavy gauge stainless steel tank and fittings: quick fill, suction, lid/hardware:** non porous and rinses clean, stainless steel is a superbly functional material for chemical mixers and storage containers. Immune to extreme temperature changes and unaffected by ultraviolet light, stainless steel construction remains dependable and strong in use and in storage.
- **Stainless steel mechanical agitation** full length paddle agitation
- **Quick access suction and discharge line strainers** are easily isolated and cleaned or replaced during or between operations.
- **Isolate the pump system easily** to flush between applications.
- **Tank dump line discharge through lid mixing basket** to incorporate powders
- **5 gallon injection hopper & venturi mixer option-** stainless steel construction. Included on 1000 gallon units.
- **Tractor seat spray controls**  
**Manual Hu-Valve controls** standard pressure actuated spray control valves  
**Electric Hu-Valve controls** optional electric actuated Hu-Valves  
**Hydraulic controls** optional spray control valves actuated by tractor remotes  
**Other electric or manual valves available.**
- **Stainless steel spray manifolds**

- **Double rolover nozzle bodies** each with diaphragm check valve for positive shut-off at end-row. Each rolover has ceramic tips, side A; SS discs w/brass cores, side B. Available with ceramic tips both sides.
- **Variety of spray management control systems** Banner Eye tree sensing, Sonic Spray® sensors, Micro-Trak and TeeJet® rate monitors/controllers
- **Spray manifolds can be fabricated to fit your application-** isolate target zones and control each zone remotely.
- **Pressure regulating valves available** manual or electric. Manual S&R valve shown here.



The RPA centrifugal pump is designed and manufactured by Rears. The RPA is the standard Powerblast pump, built by Rears for more than 30 years. This is a dependable pump: the shaft with the impeller on it is the only moving part.



- **Delivers up to 80 gpm-** allows full dilute and concentrate applications with equal efficiency
- **Automatic flow metering** with the tractor in the same gear, application rate per acre remains consistent regardless of ground speed changes\*
- **Self-priming model,** available pictured, above. Same performance curve as the standard RPA pump.
- **Easily maintained** the pump belt is replaced without tools. The pump is lifted from the machine by removing four bolts.

Call for other pump options if desired



## field mixing station

Accelerate and insulate your spray program with a field mixing station from Rears. Keep chemical filling and mixing operations in the application area, away from non-target exposure.

\*Assumes no drive wheel slip or hydrostatic drive



For more information, please call 1-800-346-7867

**Specialists in Liquid Handling Products**