

# 2021 RBR ENTERPRISE PRODUCT LINE

**APPLICATION**  
**WITHOUT THE COMPLICATION**

VORTEX390





# PRODUCTIVITY IN A LEAGUE OF ITS OWN

Our straightforward design uses the highest quality components to ensure durability and reliability with fewer maintenance costs year over year. The effective multi-season capability will keep your operation going all season long.

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## LESS FILLING MORE FIELDING

With large capacity and increased transfer speed, you will spend less time loading and more time in the field, adding unmatched efficiency and profitability to your bottom line.



## UNMATCHED SERVICE & SUPPORT

We have one of the most comprehensive nationwide distributor networks, providing you exceptional product support and service. These industry leading AG dealers recognize quality, and that's why they've chosen RBR.



## TOP PERFORMANCE THROUGH THICK OR THIN

Tackle the most adverse field conditions with the ability to use a wide range of flotation tire sizes and unrivaled 4X4 capabilities. With row crop tires and optional crop guard, RBR machines can effectively spread over taller crops during the time you need it most.





# BUILT TO LAST. BUILT FOR FAST.

## STRONG FROM THE START

High strength frames are made from 10IN X 4IN high-grade material and are fully boxed with secondary reinforcement plates for added strength. All frames are coated with a polyurea armor coating for superior protection to maximize the life of your equipment.

## STRAIGHTFORWARD SIMPLICITY

The simplest solution is usually the best solution. RBR's mechanical drive train is a straightforward, no-frills design that offers reliability, lower cost of ownership and unsurpassed performance. The 2-speed transfer case delivers maximum power to both axles, allowing you to attack the most adverse field conditions with ease.

## POWERED FOR PERFORMANCE

We've installed the best powertrain package combination for maximum gains from your investment. The Cummins 9-liter engine brings the power and torque you need to tackle any field. And for years of worry-free operation, the RDS Allison is the most proven automatic transmission in the world.



# CAB FEATURES & OPTIONS

Our new 7IN chassis management touchscreen system, with interactive diagnostics tools, helps you keep the attention where it belongs: the application.

## STANDARD

- Bluetooth
- Automatic climate control system

## OPTIONS

- Heated and cooled leather seat
- Tinted windows

# CAB DESIGN

The cab is designed specifically for application equipment to create an environment for maximum focus and efficiency. Controls and information are easily accessible and intuitive, providing all the information necessary to assist the operator in safe and effective machine operation.



## CONSOLE FEATURES

Our newly designed ISO-ready cab features an ergonomic floating console with easy to read and use soft-gel controls. All models have a redundant hand-throttle for more precise speed control when operating in rough and rugged field conditions.



# VECTOR 390



The L4500 and L5000, available in painted 409SS or 304SS comes standard with 304SS sub-frame and cross members to protect your investment.

## INNOVATION TO POWER YOUR PRODUCTIVITY

Step into the new Vector 390: the most productive fertilizer applicator available. The resilient design focuses on what matters most — the highest-grade components for top-tier performance you can count on. The highly efficient Vector 390 is designed for use during pre-plant and post-plant season so you can maximize your productivity and your investment.



**PRESSURE COMPENSATED HYDRAULICS HELP MAINTAIN RATES, EVEN AT LOW ENGINE RPMs.**

## VECTOR 390 WITH NEW LEADER NL5000 G5

The NL5000 G5 is the ultimate broadcast spreader with pinpoint accuracy. With 16-section swath width control, the G5 has fore/aft and left/right automatic spinner adjustment for incredible precision.

### FEATURES INCLUDE

- Boundary spreading with left/right shut-off
- Last pass spreading
- Hydraulic feed gate
- Automatic belt tensioner
- Centralized grease bank





## PRECISION MEETS HIGH-POWER PERFORMANCE

Minimize waste and maximize efficiency. The new Venturi 430 delivers high-output pneumatic systems, for precision application, even in the most unfavorable conditions. Product is accurately placed directly on the ground through individual boom outlets, unaffected by uneven ground or windy conditions. With the largest capacity pneumatic system available on a row crop applicator, and capable of 1,200 pounds per acre at 12 MPH, the Venturi 430 offers efficient precision application year round.

## VENTURI 430 WITH RA-885

Features a straightforward design with a 304SS mesh-chain delivery system, rear-mounted 72FT and 90FT booms, application rates of up to 1,200LBS per acre, and an industry-leading 350CU FT capacity. Capable of delivering up to three products, bin dividers can adjust to a 50/50 or 60/40 split between the two main bins. A micro hopper can stand alone or be used to supplement the second bin.

# VENTURI 430





# VORTEX 390

## ENGINEERED FOR ULTIMATE PRODUCTIVITY

The Vortex covers more acres in a day to maximize your return on investment. With a large 1,600GAL or 2,000GAL tank, boom options ranging from 90FT to 132FT, and one of the lightest footprints in the market, the Vortex is designed for unmatched efficiency.

## HEAVY DUTY DESIGN

Robust center section designed to withstand the most severe field conditions while offering years of trouble-free use. The yaw motion of the center section is controlled by heavy duty dampening cushions and shocks which are adjustable to fit the operator's preference. Boom fatigue is minimized by mechanical dampeners that dissipate the effects of cornering and sudden start or stop.

## RECIRCULATION SYSTEM

With a continuous boom circuit that leads back to tank, you can prime the booms on the go to ensure that when you are ready to spray, you have full-rate product ready to come out of each spray tip without the need to a wasteful pre-spray to prime the booms.

## LOAD STATION

The Vortex's load station has electronic valves that are controlled through an intuitive display. The display allows for one touch operation that controls the required valves to perform a specific function. The display also includes critical readouts such as machine RPM, sparge setting, pressure, and tank volume.

## COMBO READY

All units are equipped with an ISO hydraulic quick-connect bulkhead for a clean and seamless change from the liquid system to a dry spinner box.

## TECHNOLOGY FEATURES

The Vortex is available with the latest in sprayer technology, like auto-height control, individual nozzle control and direct injection, to increase your efficiency in the field.

## BOOMS

A variety of boom configurations to fit your operations, stainless steel boom plumbing and recessed nozzle bodies within the boom structure provide greater protection.





## VECTOR 430 HD

The new Vector 430 HD features top-tier components and enhancements that are setting the bar for application machinery. With an extended frame, New Leader 16-foot box and increased Meritor axle capacity, the Vector 430 HD surpasses the standard Vector payload by 25 percent with an impressive 14-ton bed capacity. With a 430HP engine and 4x4 capabilities, the Vector 430 HD offers unequaled performance and productivity.



## VENTURI 430 RA-885 90FT

Bigger is better. The Venturi RA-885 goes above and beyond the standard air machine. Now available with 90-foot booms, the Venturi is 20-foot wider than average row-crop applicators, and covers over 30 acres an hour more than standard air machines. To help navigate through difficult terrain, the Raven AutoBoom® offers peace of mind by automatically adjusting boom position to avoid obstacles and maintain consistent application height.



# FOUNDED ON A PRINCIPLE OF **QUALITY**

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A little over a decade ago, we realized the need of a mechanical four-wheel drive row-crop chassis in the marketplace. At the time, we commissioned Mertz Manufacturing, a staple in the manufacturing of heavy equipment, to build a unit designed to our specifications. This machine has been enhanced over the years to offer the reliability and quality our customers expect. Today, we continue to engineer and manufacture our own machines at the RBR facility located in Byhalia, Mississippi, keeping the ever-changing agricultural industry at the forefront of our designs.







## RAVEN VISUAL GUIDANCE SYSTEM

The latest technology advancement from Raven, VSNTM transforms machine guidance through emerged crops. This patent-pending innovation utilizes a non-contact stereo vision camera to navigate crop rows, allowing the operator to focus on all other aspects of effective application control. Minimizing crop damage, covering more acres in a day and essentially providing an easier machine operation leads to a quick return on investment to maximize yield profitability.

### FEATURES AND BENEFITS

- Enhanced machine control for sprayer efficacy
- Reduces operator fatigue and crop damage
- Uses state-of-the-art image sensor and processing technologies to deliver quick response rate and better control
- VSN+ mode to fallback to GPS when minimum confidence internal is not met
- Live video row overlays in ROS platform
- In-field calibration
- ISO UT user interface, custom control widgets
- Slingshot® telematics and software update support
- Navigates emerged corn, soybeans, cotton, and sorghum
  - Crop height range 4 inches to approx. 90% canopy
  - Row spacing 20-40 inches
  - Weed coverage ≤30%
- Performance
  - Vehicle speeds exceeding 20 mph
  - Grades exceeding 8 degrees
  - Cross winds up to 15 mph



## LIGHTING PACKAGE

High-intensity LED lighting increases visibility during low-light or night time application.



## CROP SHIELD

When applying over-the-top, the front mounted shield helps prevent damage to middle and late season crops. The angled shield protects the crop from getting snagged on axles, air-lines, and other drive-line components.



## REMOTE TELEMATIC SYSTEM

Monitor performance in real time. RBR's remote vehicle telematics system, standard on all models, allows technicians to remotely connect to the machine to monitor all major components of the chassis system and provide time-saving off-site diagnostics. The remote link uses an app-based system and Bluetooth connection with an on-site smartphone. This gives end-users and service technicians a powerful, cost-efficient diagnostics tool to maximize machine up-time without the hassle and cost of subscriptions or contracts.

## VARIABLE TRACK AXLE SYSTEM (VTA)

RBR's VTA system delivers the convenience of in-cab wheel track adjustment of up to 30 inches with the touch of a button. Powerful cylinders effortlessly adjust the track to the maximum width in under 30 seconds. The VTA system also includes 4-wheel steer, which greatly reduces the turning radius to 12.5 feet for a Vector and 15 feet for a Venturi, allowing for increased maneuverability at the end of a pass. The machine creates only a single set of tracks during the turn compared to a 2-wheel steer, significantly minimizing damage to crops in the headlands.

## RAVEN GUIDANCE & CONTROL

RBR offers industry-leading application capabilities to improve your agricultural efficiency. We outfit our applicators with the latest technology, so you can be assured your equipment delivers the best return on investment for your operations. With the RBR Viper 4+ field computer, effortlessly manage dry or liquid application with the touch of your finger. Pre-loaded with RBR chassis and attachment profiles, the Viper 4+ is a user-friendly ISOBUS platform that is fully compatible with Raven steering and data transfer solutions. Raven's RS1 offers precise steering guidance at both high and low speeds with quick line acquire to give you the ability to cover more acreage in a day. The user-friendly unit is designed with simple set-up features and includes the Slingshot modem for machine connectivity.

## NARROW TRACK AXLE

Narrow Track Axle – RBR's Narrow Track Axles allow for a fixed 90" or 108" wheel track for easy maneuverability where roads or field access points restrict larger machines. The narrow track axles have been engineered with the same capacity and suspension of the standard machine.



VECTOR 390 - SPINNER SPREADER SPECIFICATIONS				Vector 390 applicators feature New Leader beds.
SPREADER SIZE	13 FT Length x 102 IN Width	14 FT Length x 102 IN Width	16 FT Length x 102 IN Width	
SPREADER MATERIAL	RBR Red 409SS or Silver Finish 304SS			
CAPACITY	276 CU FT	300 CU FT	343 CU FT	
MULTI PRODUCT	Dual product – 5FT or 7FT Insert, or 8 FT Multi-bin Insert – 3 or 4 product capability			
MULTI PRODUCT CAPACITY	5FT Insert - 115 CU FT (339 CU FT total) 7FT Insert - 161 CU FT (327 CU FT total) 8 FT Multi-Bin 166 / 143 / 23 / 21 (353)	5FT Insert - 115 CU FT (368 CU FT total) 7FT Insert - 161 CU FT (356 CU FT total) 8 FT Multi-Bin 195 / 143 / 23 / 21 (382)	5FT Insert - 115 CU FT (426 CU FT total) 7FT Insert - 161 CU FT (414 CU FT total) 8 FT Multi-Bin 253 / 143 / 23 / 21 (440)	
L4500 FEATURES	Pressure compensated product pump, 304SS subframe and cross members, automatic belt tensioner, boundary spreading capabilities, independent spinner control, 304SS jack and jack-handle, pressure and temp sensors, centralized grease bank			
L5000 FEATURES	Pressure compensated product pump, 304SS subframe and cross members, automatic belt tensioner, auto-adjust feed gate, auto spinner adjustment - fore/aft and left/right, 16 section product control, 1/2 width spreading, 304SS jack and jack-handle, pressure and temp sensors, centralized grease bank			

VENTURI 430 - AIR SPREADER SPECIFICATIONS	
APPLICATOR SPECIFICATIONS	RA-885
SINGLE PRODUCT CAPACITY	350 cu. ft.
MULTI PRODUCT CAPACITY	Bin 1: Adjustable 175 cu. ft. or 209 cu. ft. Bin 2: Adjustable 95 cu. ft., 140 cu. ft, or 174 cu. ft. Micro Bin: 45 cu. ft.
BOX MATERIAL	409SS Painted Red
BOOMS	72’ 304SS with 32 outlets or 60’ 304SS on 30” on-center outlets or 90’ 304SS with 37 outlets
METERING SYSTEM	Bins 1 & 2: LH & RH independently driven 16” 304SS mesh chains. Micro Bin: LH/RH roller meters, clutched controlled on/off.
FAN	Single 22” Fan
FEATURES	Viper 4+, 7’ break-away tips, VRA capable for up to 3 products

VORTEX 390 - LIQUID SPECIFICATIONS	
PRODUCT TANK	1600 gal. or 2000 gal. (extended frame)
FRESH WATER CAPACITY	100 gal.
PRODUCT PUMP	Ace stainless steel 3” X 2” pump - 240 gpm.
SOLUTION FILL CONNECTION	3” LHS Fill & 3” Front Fill (not available on VTA axles)
CHEMICAL EDUCTOR	6 gal. stainless steel
BOOMS	90’ , 100’, 120’, 132’
BOOM SECTIONS	9 sections
BOOM PLUMBING & SPACING	1.25” SS plumbing - Spacing 15” / 20” / 30”
MIN & MAX BOOM HEIGHT	20” min - 91” max
ADDITIONAL FEATURES	Auto-boom height control, individual nozzle control, direct injection

SPECIFICATIONS	VECTOR 390	VENTURI 430	VORTEX 390
	ENGINE		
MAKE / DISPLACEMENT	Cummins QSL 9 Liter Tier 4F with Compact Catalyst (CCC) and Selective Catalytic Reduction (SCR)		
HORSEPOWER @ 2,100 RPM	390HP (optional 430 HP)	430 HP	390HP (optional 430 HP)
FUEL / DEF CAPACITY	150 gal / 15 gal		
	DRIVETRAIN		
TRANSMISSION	Allison Automatic 3000 RDS with Dual Mode Shift Select & Shift-Lock		
TRANSFER CASE	Marmon Herrington 2-speed 2.5:1 ratio (5 speed low range / 4 speed high range)		
4 WHEEL DRIVE	Selectable 2x4 - 4x4, Standard on all axle configurations		
	AXLES		
STANDARD FIXED TRACK	Meritor wheel end planetary, s-cam brakes, front & rear differential lock (36,000# front / 36,000# rear)		
OPTIONAL ADJUSTABLE WIDTH/ 4-WHEEL STEER	Variable Track Axle (VTA) – Axle Tech adjustable wheel track 114in to 144in, 4-wheel steering (32,000# front / 32,000# rear)		
	SUSPENSION		
	High Capacity Air-Ride Suspension with Heavy Duty Shocks, in-cab airbag dump, greaseless torque rods with extended-life polycarbonate bushings		
	OPERATOR CAB		
CONTROLS	7” Touch screen engine monitor with interactive diagnostics		
HVAC	Auto Climate Control		
RADIO	FM/AM/XM Radio with Bluetooth		
COMMUNICATIONS	Remote Chassis Telematics - Subscription Free		
OPTIONS	Heated and Venilated Leather Seat, Leather Wrapped Steering wheel, High-Intensity LED Lighting, and Window Tint		
	DIMENSIONS		
FRAME	10” x 4” x 3/8” High Strength Tublar Steel with 40 mil Polyurea Coating		
OVERALL LENGTH	292 in. (7.41 m)	319 in. (8.10 m)	292 in. (7.41 m)
WHEELBASE	168 in. (4.26 m)	183 in. (4.64 m)	168 in. (4.57 m)
OVERALL WIDTH	135 in. (3.4 m)		
OVERALL HEIGHT	147 in. (3.73 m)		
	WEIGHT		
SINGLE PRODUCT	22,480 lbs.	30,100 lbs.	27,800 lbs.
DOUBLE PRODUCT	23,600 lbs.	31,400 lbs.	
TRIPLE PRODUCT	24,000 lbs.		
	TIRES		
ROW CROP	380/90R46 173D (Standard), 380/105R50 179D (Optional), 420/95R50 177D (Optional), 480/80R50 177D (Optional)		
FLOATATIONAL	650/65R38, 710/70R38, 800/50R42		





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