



RENEGRADE™

ANHYDROUS AMMONIA APPLICATORS

HIGH-PERFORMANCE NH₃ APPLICATORS FOR
HIGH-PERFORMING FARMING OPERATIONS



FERTILIZER APPLICATION

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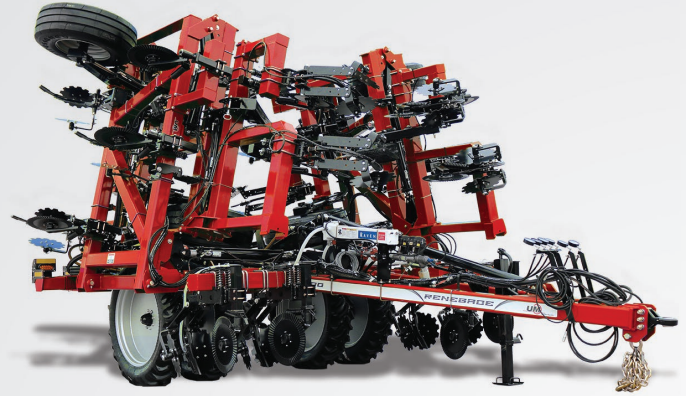


UNVERFERTH RENEGADE

ANHYDROUS AMMONIA APPLICATOR

ANHYDROUS AMMONIA INTRODUCTION

Anhydrous ammonia (NH_3) application can provide many benefits to your farming operation. The high concentration of 82% nitrogen equates to more valuable nutrients for the plant, and since NH_3 bonds to moisture in the soil, it can be available for a longer period of time. With this in mind, trust the Unverferth Renegade™ NH_3 applicator to spread out your workload and apply anhydrous ammonia in the fall after harvest or in the spring before planting to meet your application needs!



MODEL 3500 TOOLBAR

- Toolbar sizes of 25-, 24-, 23-, 19- and 18-row with 30" spacing and a 36-row with 20" spacing
- Heavy-duty 6" x 6" main frame with a constant-level design maintains even depth and precise application in uneven terrain
- Wing flex from 15° up to 9° down on the primary wing and 6° up to 9° down on the secondary wing to follow extreme ground contours
- Standard dual 385/65 R22.5 oscillating tires on the main frame or optional 12.4 R38 dual tractor tires
- Main wings and secondary wings feature hydraulic lift wheels with 295/75 R22.5 tires (optional 385/65 R22.5 tires) and the outer wings feature pin-adjust 20.5-8 x 10 gauge wheel tires.



MODEL 2500 TOOLBAR

- Toolbar sizes of 21-, 19-, 18-, 17-, 16- and 15-row with 30" spacing and a 24-row with 20" spacing
- Heavy-duty 6" x 6" main frame features a constant-level design to maintain even depth and precise application over uneven terrain
- Wing flex from 15° up to 9° down on the primary wing to follow field contours
- Standard dual 295/75 R22.5 oscillating tires on the main frame or optional 385/85 R34 single tractor tires and single 295/75 R22.5 tires on the hydraulically controlled wing lift wheels
 - Optional 385/65 R22.5 tires on the main frame and wings

MODEL 1500 TOOLBAR

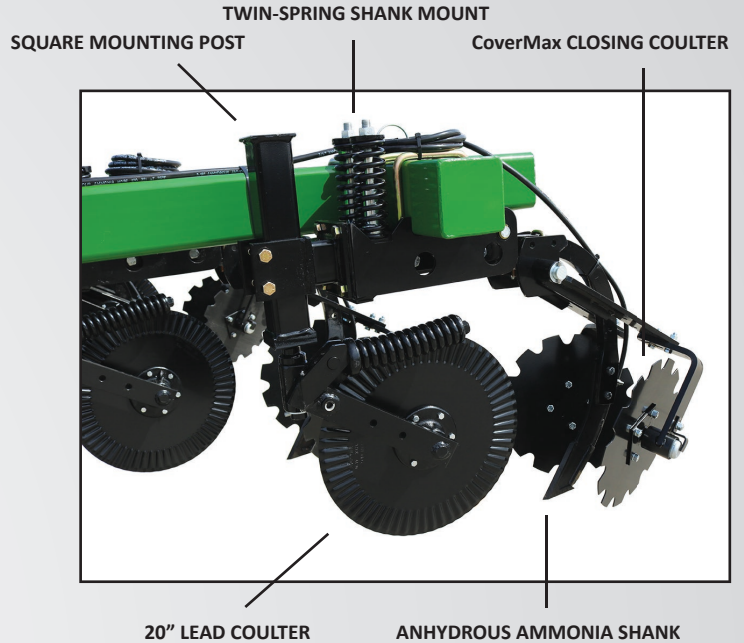
- Toolbar sizes of 15-, 13-, 12- and 11-row with 30" spacing
- 4" x 6" main frame and wing flex from 16° up to 11° down on the primary wing to follow ground contours
- Standard dual 11L-15 12-ply tires on the main frame or an optional walking tandem undercarriage and single 11L-15 tires on the hydraulically controlled wing lift wheels
 - Optional 320/70 R15 tires on the main frame and wings
 - Optional 11L-15 dual or walking tandem lift wheels, depending on model

RENEGADE

FEATURES

RENEGADE ROW UNIT DESIGN

- The lead couler features 10° of swivel and utilizes heavy-duty square mounting posts to ensure it stays straight and slices through the soil to clear a path for the NH₃ shank
 - 20" diameter rippled blade cuts residue with 1,500 lbs. of downforce
 - 6-bolt greaseable hubs with 5 layers of seal protection for longer life
- 1.25" x 2" edge bent anhydrous ammonia shank features twin-spring shank mounts with 300 lbs. of trip force for consistent working depth and obstruction flexibility
- The CoverMax closing couler sealer features two notched blades that are angle-adjustable to fill and close the slot to prevent fertilizer loss
 - Greaseless 1.25" plated pivot shaft with self-lubricating bushings and flat-face, zero-maintenance hubs with a 4-bolt design provide long-term, trouble-free use
 - Disc sealer arms operate independently from each other allowing for superior trash flow and continuous soil contact
 - 17" of overall travel and 9" of vertical travel from working depth allows the sealers to climb over obstacles
 - Optional down pressure springs for the closing coulers



ANHYDROUS AMMONIA CONTROL

- Tool-free adjustable rear nurse tank hitch retracts towards the front of the applicator so it can automatically lock when the operator drives forward
- Single NH₃ nurse tank safety coupler features a splash guard and quick disconnect for easier and safer operation
- The anhydrous ammonia nurse tank coupler utilizes single 1.25" plumbing as standard, optional dual 1.25" plumbing or single/dual 1.5" plumbing
- The Renegade applicators are standard with a Raven ISOBUS rate controller and 50 gallon per minute single stainless steel Vortex cooler with 1.5" single fast valve
- 2-Section John Blue Impellicones with Raven shutoff valves on models 3500 and 2500, and 1-section control on model 1500



RAVEN VORTEX COOLER



REAR NH₃ NURSE TANK COUPLER & HITCH

NH₃ DISTRIBUTION OPTIONS

- 2-, 3-, 4-, 5- or 6-section plumbing in lieu of the standard 1-section or 2-section plumbing depending on the model and size
- Raven 450 rate controller in lieu of ISOBUS rate controller (requires dual flow control valves)
- High-volume PWM Raven cooler pump increases capacity to 80 gallons per minute (requires ISOBUS)
- 1.5" dual valves in lieu of the single fast valve is available for any controller option
- Double safety NH₃ couplers with 1.25" plumbing in-lieu of standard single coupler for tending two nurse tanks
 - 1.5" plumbing is available for the safety NH₃ coupler systems in lieu of the 1.25" plumbing
- Dual nurse tank hitch add-on kit makes for a total of 3 hitches and allows the operator to pull 2 nurse tanks in the field and 1 nurse tank at the center of the toolbar during road transport (Available on 19-, 23- and 25-Row 30" models)
- Nitrogen stabilizer direct injection system features dual 55-gallon tanks with Raven direct injection pump that provides 1-40 oz. of flow and T's into the plumbing after the cooler (Requires Raven ISOBUS controller)
 - Nitrogen stabilizers preserve the fertilizer in the soil for a longer period of time
- Nurse tank hose and valve connection kits are available for easily connecting the tank to the NH₃ safety coupler

ROW UNIT OPTIONS

- 20" Vortex blades for more aggressive tillage or 20" smooth blades for less tillage in lieu of the 20" rippled coulter blades
- MaxForce shank mounts in lieu of the twin spring-cushioned shank mounts
 - 790 lbs. of trip force and 6" of vertical travel from working depth ensures accurate depth in heavy soil types with rocks
- Greaseless bearing pivot points reduce maintenance requirements
- Disc sealer spring add-on kit adds down pressure to the CoverMax sealers
- 17" wavy blades are available in lieu of the notched blades on the CoverMax sealers for increased soil movement

Visit your nearest Renegade applicator dealer or umequip.com for additional details!

RENEGADE ANHYDROUS AMMONIA APPLICATOR SPECIFICATIONS

Model	3500		2500		1500	
Size	19 Row 30"	25 Row 30"	17 Row 30"	21 Row 30"	11 Row 30"	15 Row 30"
Shank Mount/Sealer	Twin Spring-Cushioned/CoverMax					
Approx. Weight (lbs.)	20,880	23,950	18,590	20,800	9,960	12,450
Approx. Tounge Weight (lbs.)	1,850	2,110	1,960	2,180	450	600
Transport Width	17' 4"	17' 4"	17' 4"	17' 4"	17' 6"	17' 10"
Transport Height	13' 6"	13' 6"	13' 6"	13' 6"	10' 10"	13' 4"
Transport Length	27' 8"	27' 8"	24' 8"	24' 8"	19' 4"	19' 4"
Hitch to Center of Axle	18'	18'	15'	15'	13' 7"	13' 7"
Main Frame Tires	Dual Oscillating 385/65 R22.5		Dual Oscillating 295/75 R22.5		Dual 11L-15 12-Ply	
Main Wing Gauge Tires	Single 295/75 R22.5		Single 295/75 R22.5		Single 11L-15 12-Ply	
Outer Wing Gauge Tires	Single 20.5-8x10		-		-	
Hitch	CAT 4		CAT 4		CAT 3/4	
Toolbar Rank	54"		54"		38"	
Main Frame Tubing	6" x 6"		6" x 6"		4" x 6"	
Main Frame Tubing Thickness	3/8"		3/8"		3/8"	
Wing Tubing Thickness	3/8"		1/4"		1/2"	
Main Wing Flex	15° Up & 9° Down		15° Up & 9° Down		16° Up & 11° Down	
Secondary Wing Flex	6° Up & 9° Down		-		-	
Minimum HP Requirements	380+ HP	500+ HP	340+ HP	420+ HP	220+ HP	300+ HP

Due to continuing improvements in the design and manufacture of Unverferth products, all specifications contained herein are subject to change without notice.

Unverferth
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