

VALMAR AIRFLO

9620 PULL-TYPE 8600 PULL-TYPE 5500 PULL-TYPE 245 & 246 PULL-TYPE 1255 PULL-TYPE 55 SERIES MOUNTED APPLICATORS & COVER CROP SEEDERS ST-6, ST-8 & ST-10 ROW CROP PATHFINDER 455 FORAGE PRESERVATIVE APPLICATOR



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Innovators in Agricultural Application Technology

Valmar[™], A Division of Salford Group Inc. designs and manufactures granular applicators for fertilizer, herbicide, insecticide, seed, seed inoculant and forage preservatives. Our products are used by farm producers, commercial operators and agriculture research specialists.

The company was founded in 1977 by Charles Balmer, who was the principal designer and innovator of Valmar Airflo™ technology. Both the company and the product line evolved from a custom application business he operated in the mid-1970's. The current facilities include a 30,000 sq. ft. manufacturing plant and a 12,000 sq. ft. research and development building on 12 acres. Valmar Airflo Inc. became part of Salford Group in 2015.

Valmar products have traditionally served commercial agriculture in the United States and Canada. New products now include applications in orchards, blueberries, potatoes, ginseng, forage crops (both in the field and at harvest) cranberries, golf courses and agricultural polymers to name a few.

In addition to the regular product line, Valmar has engineered and licensed Airflo applicators that have been manufactured and sold under license by companies such as AGCO®, Ag Chem®, LOR*AL® and Willmar®.

NOTE ON ISOBUS COMPATIBILITY

ISOBUS compliance does not guarantee compatibility with all functionality on 3rd party ISOBUS displays; Non-ISOBUS displays are not compatible with this controller. Always consult with the display manufacturer before purchase. Prescription mapping and/or auto section control may require software unlock. Ensure latest display firmware version is installed.

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ABOUT SALFORD



Built for Soil Productivity: Get the Most from Your Soil with Salford Multi-tools

Salford Group began production of conventional tillage equipment 1978. Over the years Salford grew with innovative tillage designs and in 2005 Salford began engineering and manufacturing seeding and application equipment as well.

In 2014, Salford purchased BBI Spreaders (founded in 1991), manufacturers of BBI Spinner Spreaders. In May 2015, Salford acquired Valmar Airflo (established in 1977), manufacturers of Valmar air boom and Valmar granular application tools. In December 2015, Salford purchased AerWay Advanced Aeration (established in 1983), manufacturers of AerWay aeration tillage and turf tools.

Salford, like BBI, Valmar and AerWay, focuses on engineering easy to use equipment that incorporates innovations that are unique in the market place.

Salford has production facilities in Iowa and Georgia in the United States, as well as in Ontario and Manitoba in Canada. Combined with a number of parts distribution centers across North America, Salford's parts distribution and product support stretches across America's heartland, America's Southeast, in the Great Lakes region and into the Canadian West.



Salford Group: Innovative Products that are Engineered to Improve Soil's Productivity



AerWay Tillage & Pasture Management

Salford's AerWay tillage and pasture management machines are designed to improve moisture and nutrient storage while alleviating compaction.



Spreaders

Salford's BBI Spreaders are engineered for the widest true driving intervals, saving time in the field. A wide range of models fit every operation.



Valmar Airflo Applicators

Salford's highly accurate Valmar Airflo applicators offer implement mounted granular product distribution or air boom applicators.



Salford Independent Series

Salford's Independent Series tillage machines improve seedbeds and manage residue. I-Series tools can be fitted for application as well.



Salford Conventional Tillage

Salford Group offers a line of conventional tillage tools engineered for maximum durability, clearance and ease of use.



Salford Commodity Carts

Salford Commodity
Carts are engineered for
seeding and fertilizer
application. Poly tanks
and stainless steel
components accurately
handle commodities.



Salford Air Drills

Salford Air Drills are engineered for high speed operation in a variety of conditions. The double disc openers place seed and fertilizer with accuracy.

VALMAR 9620 AIR BOOM APPLICATOR





70 FOOT STAINLESS BOOM

 The 70 foot air boom hydraulically folds and locks. Eight 3 inch diameter stainless steel tubes deliver product for up to 110 acres/hour.



BOOM SUSPENSION

 The 70 foot air boom has a hydraulic suspension for stability at high speeds. The booms contour up to 8 feet from ground level to follow uneven terrain.



BREAKAWAY TIPS

 The boom has 7 foot, hydraulically folding, breakaway tips to prevent costly damage when spreading near fence rows.



SECTION CONTROL

 Primary metering conveyors and the optional secondary metering have left / right sections that can be switched on and off with the 9620's ISOBUS* control system.



660 CUBIC FOOT CAPACITY

 The 660 cubic foot capacity of the 9620 is the largest on the market, as the only boom spreader that will fit an entire tender.



MULTIPRODUCT OPTION

 Equip the secondary 60 cubic foot secondary hopper with optional metering for independent variable rate application and left/right section control.



WEIGH SCALES

 Weigh scales are standard on the 9620 helping to stay ahead of fill stops and ensuring the machine is properly calibrated.



WALKING TANDEM

 20 ton walking tandem with 800/65R32 tires provide stable operation at high speed and minimize compaction.



ISOBUS COMPATIBLE

 The 9620 comes equipped with ISOBUS compatible hydraulic metering. The ECU is capable of variable rate and section control output. Monitor not included.





9620 Air Boom Applicator

Salford's Valmar 9620 is the largest pull type air boom applicator on the market today.

The 9620's 660 cubic foot capacity is designed to reduce fill stops and the heavy duty 20 ton walking beam suspension carries the load with confidence at high speed. Capable of applying up to 110 acres per hour, the 70 foot boom helps cover acres quickly as the hydraulic suspension ensures boom stability. The booms can be hydraulically raised and lowered up to 8 feet at the tip, allowing the 9620 to contour the ground for the most accurate application. Prior to leaving the factory, all air booms are factory calibrated and certified to be within +/- 5% of the target application rate on each side of the machine. The 9620's speed, precision, capacity, and value make it an economical replacement for air boom equipment floaters.

Unique Features

- 70 foot boom constructed from 304 stainless steel
- Hydraulic boom suspension with 7 foot breakaway boom tips and ability to coutour up to 8 feet from ground level to follow uneven terrain
- 660 cubic foot hopper with multiproduct metering options, and an optional "flip-flop" tank
- Keep products like coated urea and sulphur in separate compartments to increase their effectiveness
- ISOBUS compatible variable rate and left/right section control*
- Maximum flotation and high-speed travel with 20 ton walking beam suspension and 800/65R32 tires

Airflo 9620 Specifications

Hopper:

- 660 cubic foot total capacity 600 cubic feet main, 60 cubic feet secondary with partition gate closed
- Painted, 409 stainless steel
- Electric roll tarp installed
- Rear ladder and platform
- Fill screens with access doors to hopper(s)
- Work lights

Metering:

- PWM (flow control) & motor bypass valves
- 304 stainless steel funnels & air manifold
- Calibration chutes
- (Main) Left hand/right hand independent 16 inch 304 stainless steel mesh conveyors, dual hydraulically driven motors (one per conveyor) 2-section control
- (Secondary) Dual meter rollers with electric clutch for left hand/right hand on/off - single hydraulically driven motor

Booms:

- 70 foot spread / 304 stainless steel / hydraulic fold
- Hydraulic boom suspension w/accumulator
- 7 foot breakaway tips hydraulic fold
- Hydraulic boom tip manual height control

Chassis:

- 20 ton walking beam undercarriage
- 4 x 800/65R32 floatation tires with fenders

Fan:

- 17 inch hydraulic direct drive fan
- 9 inch outlet direct to air manifold

Precision Control Packages:

- Digi-Star Scale Link IŠOBUS scale kit (for ISOBUS displays)
- ISOBUS controls for left hand/right hand on/off section control for use with third party ISOBUS cab consoles, utilizing prescription mapping (i.e. John Deere 2630™, Case IH Pro 700™, etc.)
- *Does not include cab display

Hydraulic Requirements:

- Tractor supplied
- 30 gpm @ 2800 psi min
- Case drain for fan
- 4 hydraulic remotes

VALMAR 8600 AIR BOOM APPLICATOR





66 & 60 FOOT STAINLESS BOOM

 The main air boom hydraulically folds and locks. Six 3 inch diameter stainless steel tubes deliver up to 1000 lbs/acre at 8



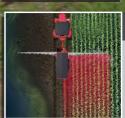
BOOM SUSPENSION

 The 8600's boom is protected by a rubber torsion suspension and also locks in place when folded.



FACTORY CERTIFIED

All air booms are factory calibrated and certified to be within +/- 5% of the target application rate on each side of the machine.



SECTION CONTROL

 Primary metering conveyors and the optional secondary metering have left / right sections that can be switched on and off manually or with ISOBUS control system.



60 CUBIC FOOT MICRO HOPPER

· Optional 60 cubic foot secondary hopper and metering for independent variable rate application and left / right section control.



AXLE SPACING & TIRE OPTS

 The 8600's standard axle is adjustable from 72 inch to 88 inch A 120 inch axle option is available. Floatation or row crop tires are available.



HYDRAULIC OR PTO FAN

The 8600 has the option for a hydraulically driven or a PTO driven fan.



GROUND DRIVEN METERING

Oil bath metering drive gear box with 30 settings and 2 speed gear ratio for 60 settings at 7% increments.



HYDRAULICALLY DRIVEN METERING

• The 8600 can be equipped with ISOBUS compatible* hydraulic metering. The ECU is capable of variable rate and section control output. Cab display not included.





8600 Air Boom Applicator

Salford's Valmar 8600 is a high capacity, high speed, air boom applicator capable of delivering up to 1000 lbs/acre at 8 mph.

The highly accurate Venturi metering system is simple to calibrate and easy to operate allowing anyone to take to the field with the 8600. An optional secondary hopper compartment and secondary metering allows for the application of lower rate herbicides and micronutrients alongside your granular fertilizer.

The 8600 has left / right section control that can be operated manually or automatically with prescription maps when equipped with hydraulic variable rate metering and ISOBUS controller.

Unique Features

- 66 foot or 60 foot booms constructed from 304 stainless steel
- Rubber torsion boom suspension and breakaway tips for maximum durability
- Two model sizes: 8608 - 8 ton / 260 cubic foot 8611 - 11 ton / 357 cubic foot
- Optional secondary hopper and secondary metering for blending low rate products like herbicide or micro nutrients with high rate application
- ISOBUS compatible variable rate and section control* (see page 2)
- Adjustable axle with rotation or optional 120 inch axle option and row crop tires

Airflo 8600 Specifications

Hopper

- •8608 8 ton / 260 cubic foot
- •8611 11 ton / 357 cubic foot
- Secondary hopper split and 60 cubic foot secondary metering drive is optional
- •409 stainless steel painted
- Chain tensioner
- Hopper screen/filter
- Roll tarp installed

Booms

- •66 foot or 60 foot spread width
- Rubber torsion boom suspension and shock absorber
- •304 stainless steel construction
- Breakaway tips
- •3 inch diameter tubes (6 per side)
- •24 outlets

Hydraulic Requirements

- 4 outlets required to operate standard functions
- Requires additional remotes for optional hydraulic drives for fan and metering
- Optional hydraulic electrical control bank
- •30 gpm @ 2800 psi
- Case drain for fan required
- •3/4 inch hydraulic lines
- •3⁄4 inch couplers and ½ inch high flow couplers included

Fan

- •17 inch impeller operates at 4700 RPM
- PTO fan drive
- •1000 RPM CV, 13/8 or 13/4 in. 21 spline driveline
- Optional hydraulic fan drive
- •16 CC motor, direct drive

Chassis

- •72-88 inch adjustable axle
- Optional 120 inch axle
- Single axle with 10 bolt hub
- •8608 14.9 inch (380/85) R38 8608 - 28L-26 R3, (750/65) R1 8611 - 800/65 R32 tire 8611 - 380/90 R46
- Optional Digi-Star scale kit

Primary Metering

- (2) 12 inch, 304 stainless steel conveyor chains
- Maximum rates 1000 lbs/acre at 8 mph
- GROUND DRIVE (Standard)
- Hydraulically engaged metering and mechanical clutch for half shutoff on right hand or left hand
- Optional 1/2 rate kit for product application below 100 lbs/acre
- Oil bath metering drive gear box with 30 settings and 2 speed gear ratio for 60 settings at 5% increments
- One way clutch allows you to back up with metering drive engaged
- HYDRAULIC DRIVE METERING (Optional)
- ISOBUS Section Control Kit*
 Two motor independent drive left hand/right hand hydraulic main metering.

For use with 3rd party ISOBUS cab consoles utilizing prescription mapping (i.e. John Deere 2630™, Case IH Pro 700™, AGCO Command Center™, etc.)

Second Metering System

- (2) 12 inch, 28 groove metering rollers
- GROUND DRIVE
- •60 speed metering gearbox with 5% between settings
- •In-cab electric clutch control with 1/2 shut off on either side
- HYDRAULIC DRIVE
- Single motor drive hydraulic metering kit with electric clutches for left hand/right hand on/off.

Dimensions

- Total weight 7200 lbs
- •Transport: Hitch 1040 lbs, Axle 5960 lbs
- Field: Hitch 1360 lbs, Axle 5640 lbs
- Transport width: 9 feet 10 inches
- Transport height: 12 feet

VALMAR 5500 AIR BOOM APPLICATOR







5500 Applicators

Salford's Valmar 5500 granular, air boom applicators are durable and simple to operate. The stainless steel hopper and components ensure years of low maintenance operation.

The metering system, ground drive or hydraulic, is easy to calibrate and has a wide range of adjustment to meet herbicide or fertilizer application goals.

The self-leveling booms provide consistent product distribution in varying terrain for the most accurate application.

The 5500 has left/right metering sections for manual left/right section control to minimize application into sensitive areas and reduce product waste through over application.

Unique Features

- 40 foot stainless steel booms with 2.5 inch tubes for high rate product output
- 409 stainless steel, painted, hopper and 304 stainless steel metering and air boom components for years of low maintenance operation
- Simple calibration and metering adjustment for ease of use in the field
- Ground driven machines have 60 speed gear box with adjustments in 5% increments to match a wide range of fertilizer or herbicide application rate
- Self-leveling boom for accurate application in rolling terrain
- Manual left/right section control

Valmar 5500 Pull-Type Specifications

Hopper

- 167 cubic feet
- 409 stainless steel, painted
- Hopper bottom shut-off slide panels
 Roll tarp installed

Booms

- 40 foot spread 304 stainless steel construction
- Self-leveling boom with break away boom tips
 2.5 inch diameter tubes with 6 deflectors per side
- Manual fold

Metering System

- 304 stainless metering bottoms with 6 outlets per side
 304 stainless steel, self cleaning metering rollers
 Manual half width shut-off on either side

- Rates up to 500 lb./acre at 5 MPH down to 5 lb./acre with optional small seed and herbicide kit
- GROUND DRIVE
- Hydraulically engaged
- *60 speed gearbox with 5% between settings
 HYDRAULIC METERING DRIVE OPTION
- Hvdraulic metering drive
- Variable rate control packages available

Fan

- 20 in. impeller and two 5 in. fan outlets
- PTO fan drive
- •1000 RPM CV driveline, 13/8 in. 21T spline
- •19:4.12 pulley drive ratio
- •4 band belt with spring loaded idler tensioner
- Optional hydraulic fan drive
- 32 CC motor requires 23 GPM operating at 1885 PSI
- •34 in. hydraulic lines
- •30 in. water column manifold pressure
- Case drain required
- 6.9:4.12 pulley drive ratio

Chassis

- Tandem walking beam
- Adjustable axle width with available tires: 16.5L x 16.1 (81-99 in.) or 9.00 x 20 (72-90 in.)
- •2.5 in. axles with 6 bolt hubs
- Single axle 550/60-22.5 tires/12 ply at 90 in. center to
- 2.75 in. axles with 8 bolt hubs

Options

- Herbicide kit includes 1 set of 28 groove metering rollers and fan intake reducer for metering finer products and lower
- Hydraulically folding booms
- Hopper screen assembly
- Meter cleaning wipers available

245 & 246 Pull Type Granular Applicators





FAN DRIVE OPTIONS

• The 245 and 246 models are available with either hydraulic or gas powered fan drive. Applicators operated from a tractor or pickup truck.



SELF-LEVELING BOOM

 The Valmar 245 & 246 feature self-leveling booms to follow ground contours for the most accurate application.



SECTION CONTROL

- Valmar 246 offers 4 section control that is ISOBUS compatible*.
- Valmar 245 has manually controlled left/right section



GROUND DRIVEN METERING

· The ground driven metering option comes with a 60 speed gear box that is adjustible in 5% increments.



HYDRAULICALLY DRIVEN METERING

• 245 / 246 can be equipped with ISOBUS compatible hydraulic metering. The ECU is capable of variable rate and section control output. Monitor not included.





245 & 246 Applicators

Salford's Valmar 245 and 246 applicators have over a decade of service on farms and in rental fleet operations.

The Valmar Venturi metering system is renowned for simple calibration and accurate application, primarily in low rate, granular herbicide application. The meters are accurate and gentle enough to be used for seed. Hydraulic drive options allow the 245 and 246 to be used for variable rate application and gas driven models can be rented for towing behind tractors or pickup trucks.

The 245 model has left/right section control and the 246 model has 4 section control that can be controlled manually or with ISOBUS compatible terminals.

Unique Features

- Top speed 20 mph
- 245 50 foot boom / 246 60 foot boom
- Gas drive allows for use with pickup trucks
- Highly accurate Valmar Venturi metering
- Simple to calibrate and clean out for use with multiple products
- Self-leveling booms
- 60 speed ground drive with adjustment in 5% increments
- 246 poly tank holds 60 cubic feet
- 245 painted stainless steel holds 40 cubic feet

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245 & 246 Pull-Type Specifications

Hopper

- 245: 40 cubic feet Mild steel with 2 component primer and 2 component urethane top coat paint
- 246: 60 cubic feet Polyurethane tank
- Weathertight lid
- Product level sight gauge
- Hopper bottom shut-off gates

Booms

- 245: 50 foot spread, breakaway tips246: 60 foot spread, breakaway tips
- Self-leveling
- Manual fold
- 1.5 in. OD tubes, 12 outlets per side

Metering

- Ground driven
- 245: Half shut-off on either side246: 4 section shut-off
- 28 groove plastic fluted metering roller 12 groove available for more coarse material or higher rates
- In-cab electric clutch control and air manifold monitor
- 60 speed gearbox with 5% between
- Air manifold and Venturi system drop for easy cleaning

- Hydraulic drive: 10.5 GPM hydraulic lines to hitch included
- 245/246: 9 HP gas engine fan drive
- 18 inch impeller with 4 inch outlet
- Operates at 3200-4000 RPM

Chassis

- 245: 6000 lb rubber torsion axle
- 245: 12.5 L 15 inch tires
 246: 7000 lb rubber torsion axle
- 246: 31 X 13.5 15 inch tires
- 6 bolt hubs

Options

- 12 groove roller assemblies for coarse material
- Agitator kit
- Stainless steel metering

- · Height: 6 ft. 8 in.
- Width: 7 ft. 8 in.
- Length: 18 ft.
- 245: Weight: 2250 lb.
- 246: Weight: 3100 lb.

1655, 4056 & 6056 GRANULAR APPLICATORS





 Valmar 55 and 56 series have left / right metering segments for section control that are ISOBUS compatible*.
 *1655 not included



 55 and 56 series applicators can be set up for ground driven metering or hydraulically driven metering.



 55 and 56 series applicators range from 16 to 32 individual metering runs and blockers can bee installed to match your desired application width.



GRANULAR HERBICIDE

 55 and 56 series applicators are extremely accurate and handle a wide range of material sizes.
 They are recommended for granular herbicide application.



SEED & COVER CROPS

 55 and 56 series applicators are gentle and accurate enough to be used for seeding cover crops or low rate crops like canola.



NUTRIENTS & FERTILIZER

 Supplement application with micro nutrients or upgrade to stainless metering with high density polyurethane tank for fertilizer.



55 Series Granular Fertilizer Applicator



55 & 56 Series Granular Applicators

Salford's Valmar granular applicators can be paired with virtually any implement between 16 feet and 80 feet. New mounting options for the Valmar 55 & 56 Series applicators include a Pull-Type Cart and 3 Point Hitch mount. These new options make the applicators even easier to fill and calibrate while keeping the applicator lower to the ground for safer operation.

The highly accurate Valmar metering system is proven as a gentle delivery method for seed, fertilizer or herbicide. 55 and 56 Series models can be equipped with hydraulic drive or ground drive systems.

Valmar implement mount applicators are ideally suited for granular herbicide application to battle herbicide resistant weeds.

Unique Features

- New 56 series have poly tanks and optional stainless steel metering to boost fertilizer application capacity for planters and other implements
- Pair 55 & 56 series with virtually any implement unit mount*, Pull-Type or 3 Point Mount options
 *Salford does not supply direct mounts for implements. Check
 with your dealer regarding direct mounts.
- Capacity and metering outlet options to fit implements from 16 to 80 feet wide
- ISOBUS compatible* hydraulic drive available
- Ground driven meter has a 60 speed gearbox capable of changing rates in 5% increments

Hydraulic **Application** Model **Outlets** Capacity Width **Fan Drive** • Hopper - Mild steel with 2 part urethane primer and 2 part urethane top coat paint · Product level sight gauge 1655 16-40 ft. 8 gal./min. 56 Series Granular Fertilizer Applicator **Application** Hydraulic Capacity Outlets Model Width Fan Drive • Hopper - Polyethylene, translucent, plastic 40 cu. ft. (1800lb) 11.5 gal./ 4056 16 24-60 ft. 11.5 gal./ 6056 32-80 ft. 24 or 32

Hopper

- Weathertight lid
- · Hopper bottom shut-off slide gates

Meterin

- Air manifold and venturi system drop for easy cleaning
- Manual half shut off on either side (except 1655)
- 28 grove plastic fluted metering rollers OR 12 groove available for more coarse material or higher rates

HYDRAULIC DRIVE OPTION

- Hydraulic metering, motor only
- Hydraulic metering, Rate Control Ready. Includes motor, flow control valve, meter encoder, fan speed and bin level sensors. Does not include ECU, harness or cab display.
- Hydraulic metering, with granular rate control. Includes motor, ISOBUS compatible ECU* and harness, flow control valve, meter encoder, fan speed and bin level sensors. Does not include display.

GROUND DRIVE OPTION

- 60 speed gearbox with 5% between settings
- In-cab electric clutch control and air manifold monitor
- Optional hydraulic engage/disengage

Options

- Stainless steel air manifold and Venturi system
- 12 groove meter roller assemblies for coarse material
- Outlet blocker kits and line splitters to match a specific number of required runs in special mounting situations
- Agitator kits
- Delivery hose quick coupler kits
- 1.25 inch ID flexible PVC hose
- Broadcast deflectors mount individually to the implement frame
- Air diffusers for in-row application

1655, 4056 & 6056 Granular Applicators

Mounting Systems



Integration Simplicity - The 3 Point Hitch mount and the Valmar Tow Behind Cart eliminate the need for implement specific mounting brackets and hardware making the 55 & 56 Series instantly compatible with virtually any implement. This "turn-key" solution greatly simplifies setup requirements.

More Ergonomic - The new platforms are designed to be more operator friendly and improve access to the hopper. With the new options available, operators are able to easily fill and calibrate the Valmar applicator without having to climb over the implement's frame.

Ground Driven or Hydraulic Drive - The new 55 & 56 Series mounting options come complete with hydraulic and electrical hookups and are compatible with hydraulic drive or ground driven metering making these units very compatible options.

Choose Your Implement - The 3-point hitch mount uses an integrated drawbar rated for 350 hp. A heavier duty, 600 hp rated version is also available on request. The ease of hitching and unhitching different implements makes it possible to use the Valmar granular applicators with multiple implements on the same farm. All hydraulic and electrical hook-ups are transferred to the rear of the unit as well. Switch between applying starter fertilizer with your planter to seeding cover crops with your tillage tool in no time.

Ease of Operation -The applicator itself has a platform for easy access to the hopper and a ladder that folds away while in operation. The 3 point applicator box also has integrated stands for storage or easy hook up and dismount from the tractor linkage.



55 & 56 Series Mounting System Specifications		
Hydraulic Remotes to Implement	Two sets of hoses standard (additional hydraulic lines available to purchase)	
Motoring Drivo	Cround Drivon or Hydraulia Materina Drivo	

3-Point Hitch Mounting System Specifications

Hydraulic engage/disengage kit for ground drive	Metering Drive	Ground Driven or Hydraulic Metering Drive
, , , , , ,		Hydraulic engage/disengage kit for ground drive

350 HP Rating	Front 3-Point Hitch: CAT .3 hitch
	Rear Implement Hitch: Single or double CAT .3 hitch

600 HP Rating Front 3-Point Hitch: CAT 3 or CAT 4 N (specify when ordering) **Rear Implement Hitch:** CAT 4 hitch

Pull Type Mounting System Specifications

Pull Type Tires 14L - 16.1 tires w/6-bolt rims

COVER CROPS





Improve yields by enhancing soil health

Cover crops have the power to improve crop yields by enhancing overall soil health. The roots from cover crops improve soil tilth and the decomposing plant material increases soil organic matter. Specific cover crops like brassica produce a large, deep root that can generate pressure up to 240 pounds per square inch to break up compacted soil. Living cover crops interact with soil biology to create aggregates that build soil structure. This improves soil permeability, aeration, water infiltration and holding capacity, and ease of crop emergence and root growth.



Improved soil tilth and organic matter after successive years of cover crop rotation.

Cut fertilizer costs

Cover crops can fix unused, or atmospheric nutrients, and make them more available for the next commercial crop. Cover crops can also improve the effectiveness of fertilizer application by helping hold nutrients that might otherwise run off or be lost with soil erosion. Nitrogen fixing cover crops can be a great benefit to commercial crops such as corn. These cover crops can even be inter-seeded between established corn rows to add atmospheric nitrogen to the soil in season.

Better weed control

Cover crops can improve the effect of herbicides by out competing weeds for light, moisture, nutrients and space. Cover crop mulch that is covering the ground, and decomposing while the commercial crop is getting established, can effectively smother weeds trying to grow between the seed rows, potentially leading to increased yields.

Prevent soil erosion and protect water quality

By providing ground cover in the off times of the growing season, cover crops provide a natural barrier to wind and water erosion. The standing cover crop shields the soil from the impact of

raindrops while the crop's root systems anchor the soil to prevent wind and water erosion. This not only keeps soil in place in highly erodible ground, but also fixes the nutrients and organic matter contained in the soil.



Cover crop holding water and reducing erosion

Conserve soil moisture

Rotated cover crops, and even an inter-seeded cover crop, help the soil hold more moisture by preventing water runoff. This increases the soil's moisture storage capacity by improving soil structure, adding organic matter and reducing moisture evaporation by shading the soil surface from the sun's rays.

Possible feed source

Cover crops can provide a feed source for producers that have livestock or have a secondary market for forage. The cover crop can be grazed or harvested and still provide erosion control by maintaining the cover crops root mass.



Cover crop inter-seeded between established corn rows before the corn was harvested.

ST-6, ST-8 & ST-10 HIGH CAPACITY APPLICATION



Application Anywhere

Valmar ST-Series applicators bring high capacity, highly accurate, commodity metering to your strip-till bar, planter, tillage equipment or virtually any other implement you choose. ST-Series models can also be mounted directly on an implement or used with Salford's PATHFINDER self-steering under carriage to tow the ST-Series applicator behind your implement.

Accuracy and Simplicity

Salford's Valmar ST-Series models are equipped with the same accurate, simple, Venturi metering system found on other Valmar models. The ST-Series metering system reliably handles a wide range of application rates up to 650 lbs at 5 mph. The peg metering rollers handle a wide range of material sizes and are gentle enough to handle seed. The peg roller also gently meters fertilizer to prevent crushing

the product. This reduces the amount of dust in the air stream and helps to prevent plugging in the air lines. A meter brush system cleans the meter roll during use to prevent fertilizer buildup to ensure accurate metering.

Superior Blending and Section Control

ST-8 and ST-10 models are capable of multiproduct metering*. Their tanks are spit 60/40 to blend two products on the fly. Rather than blending the two products down the air stream like some other commodity carts, these machines blend right at the meter for maximum accuracy.

ST-Series models are also capable of ISOBUS compatible section control to help direct fertilizer exactly where it is needed and prevent over application.

*Optional second meter on the ST-8



Jack Huerkamp, Macon, MS 1,800 acres of cotton and corn

"Everything about the PATHFINDER did a better job for me.

"I could run twelve 38 inch rows while putting down 600 lbs of fertilizer at about 6 mph. That's really rolling out a lot of fertilizer. Compared to our old cart we sped up and increased the amount of fertilizer with this rig.

"It's very operator friendly to run. You can look back and you can see every single row. If its running or if its plugged, or if there's some kind of problem. And actually we did not have any trouble with it. We had perfect flow the whole year long.

"It stayed tucked behind us a little better and when I made a hard turn, I wasn't worried about the PATHFINDER steering into my tool bar and damaging the tires."



ST-10, 10 ton split tank metering on Salford PATHFINDER



ST-8, 8 ton split tank metering on Salford PATHFINDER



ST-6, 6 ton single tank metering mounted on Salford PATHFINDER.



ST-10, 10 ton single tank metering mounted directly on application tool bar.



ST-Series Metering



Simple Accurate Metering:

The ST-Series uses highly accurate, simple, roller metering to deliver product evenly into the separate Venturi air lines. delivering precisely how much product you need. Meters are designed to stay clean and are simple to change.

Match Your Working Width:

ST-Series applicators can be fitted with 6, 8, 12, 16 and 18 metering runs and the primary air delivery lines can be split downstream to deliver up to 36 rows of product.



Hydraulic Drive with ISOBUS Compatibility:

ST-Series applicators use hydraulically driven systems. Factory optional ECU's allow for simple straight rate application or ISOBUS compatible variable rate application.

Meter Removal and Clean out:

A hopper slide gate and removable bottom makes emptying tanks guick and easy and meters simple to remove.





More Accurate Fertilizer

Blends: ST-8 and ST-10 models can carry two separate commodities with their 60/40 split tanks. Blending is done right at the meter, rather than in the air line. This ensures the most accurate blend possible. The ST-10 has 2 separate tanks. The ST-8 has one tank with an adjustable gate to divide it into 2 compartments.

Section Control Ready:

ST-Series models are capable of ISOBUS compatible section control. The ST-6 and ST-10 metering system is split into four sections for the most accurate. cost effective application. ST-8 models are capable of left/ right section control.

Strin Till Granular Fortilizer Applicator Specifications

Strip IIII Gra	Strip Till Granular Fertilizer Applicator Specifications		
	ST-6	ST-8	ST-10
Hopper Capacity	• 185 cu ft 6 Tons	• 250 cu ft 8 Tons	• 300 cu ft (120 /180 cu ft) 10 Tons (4 / 6 ton)"
Tank Configuration	Single compartment	• Single or Dual (internal gate 60/40 split)	Two tanks
Tank Material	High Density Polyethylene	409 Stainless steel with 2 part urethane paint	High Density Polyethylene
Metering Sections	Up to four sections (Electric clutches per section)	One or two sections	Up to four sections (Electric clutches per section)
Tank Features	Air Manifold gaugeHopper ScreenLadder and platform as	sembly	
Air Manifold	• 6, 8, 12, 16, 18 and 20 C	outlet manifolds (choose at the	e time of ordering)

- **Meter** Plastic peg meters rollers with brush for self cleaning
 - Manual hopper bottom shut-off slide gates
 - PWM Valve
 - Meter encoder. Fan speed sensor. Bin level sensor
 - Low rate rollers available

Mounting

Implement • Check with dealer regarding mounting requirements* *ST-10 does not come standard with mounting hardware.

Fan • Hydraulic fan drive

Second fan available for high rates, swaths, or ground speeds

- **Options** Air line splitters
 - Low rate peg meter rollers
 - Deflector kit for broadcast application
 - Air diffusers for in-row application
 - PVC flexible air hose
 - 2 inch or 2½ inch from Venturi to splitter/diffuser or deflector
 - 1 inch. 1½ inch or 1¾ inch after splitters
 - 1 inch. 1½ inch or 1¼ inch after diffuser

- **Hydraulic** Requires 30-42 gpm @ 2800 psi (single fan or dual fan)
- **Requirements** Case drain required
 - Hoses to tractor not included

Optional Control Packages and Scales

- ISOBUS Controls* (includes ECU and harness)
- Digi-Star Scale Kit (includes one cab display) or available as ISOBUS

For use with 3rd party ISOBUS cab consoles utilizing prescription mapping (i.e. John Deere 2630™, Case IH Pro 700rd, etc.) ISOBUS compliance does not guarantee compatibility with all functionality on 3rd party ISOBUS displays; Non-ISOBUS displays are not compatible with this controller. Always consult with the display manufacturer before purification in the property of t

PATHFINDER SELF-STEERING APPLICATOR





Ackerman steering tracks more accurately behind implements and reduces stress on the implement, while reducing the horsepower required to



DOUBLE BALL HITCH

The PATHFINDER's double ball hitch provides near universal integration with many planters and implements. Call your local dealer or Salford Group to determine fit.



The PATHFINDER offers 5 axle spacing options from 120 inches to 160 inches, in order to match your row crop needs.





PATHFINDER

High Capacity Self-Steering Cart

The PATHFINDER and ST-Series commodity metering system adds high capacity, multi-product, fertilizer delivery to tillage equipment, strip-till bars, side dress applicators and planters. The universal, double ball hitch can be adapted to fit virtually any frame design or custom mounts can be developed on farm to employ the double ball hitch.

Row Crop Application

The *PATHFINDER* features a high clearance axle for post emergence, inter-row application. The axle can be stubbed out to match various row crop spacings.

Ackerman Steering Accuracy

Using the Ackerman steering principle the *PATHFINDER* tracks more accurately behind implements. This steering principle reduces stress on the implement and cart while reducing the horsepower required to maneuver.

Unique Features

- Ackerman steering for accurate tracking and less horsepower required to maneuver
- High clearance frame can be used for post-emergence side dressing
- Double ball hitch for attaching to most implements
- Axle spacing options to fit row crop requirements
- Tow hitch available to pull anhydrous or other implements behind the PATHFINDER
- Rigid frame with 5 link steering improves side-hill tracking

PATHFINDER Specifications

Chassis

- . 6 ton rated base cart
- 8 ton rated base cart
- 10 ton rated base cart

Tires

	6 Ton	8 Ton	10 Ton
Wheel Hub	• 10 Bolt	• 10 Bolt	• 10 Bolt
Standard Tire	• 380 / 90 R46 156A	• 380 / 90 R46 173D	• 380 / 90 R46 173D
Optional Row Crop Tire	• 480 / 80 R46 168A8	• 480 / 80 R46 174A8	• 480 / 80 R46 174A8
Optional Floatation Tire		• 800 / 65 R32	• 800 / 65 R32
Compatible Fertilizer System	• ST-6	• ST-8	• ST-10

Axle Spacing Options

- 120 inches (20 inch, 30 inch rows)
- 132 inches (22 inch rows)
- 144 inches (36 inch rows)
- 152 inches (38 inch rows)
- 160 inches (40 inch rows)

Steering

 Standard: Implement guided mechanical steering -5-point mechanical tie-rod links

Implement Connection

- Highly adaptable double ball hitch to fit virtually any leading implement*
- *Special hitch options may be required.

Options

- Tow hitch for trailing implements
- Double ball hitch for pickups

1665 AIR SEEDER MOUNT INOCULANT APPLICATOR



Get all the Benefits from In-Furrow Applied Granular Inoculants

Inoculant Applicator

- Injects inoculant into air seeder towers for precise placement in seed furrows.
- Modified hopper shaft provides agitation to reduce bridging in the hopper.
- Comes with 8 tower injectors.
- Injectors do not affect tower performance for seed
- Individually metered outlets allow matching the numbers of air seed towers.



Tower injector.

1665 Individual **Metering Applicators**

Individual Outlet Positive Displacement Applicator

Apply insecticides, herbicides, small seeds, inoculants or micro-nutrients precisely where needed and at the rate required. Valmar's ground drive metering assures precise application, regardless of varying ground speed. The roller chain driven, 60 speed mechanical gearbox, delivers accurate application in 5% increments. With the addition of the optional hydraulic drive, variable rate application can be achieved. With Valmar's individual metering, matching the number of outlets required for your operation is easily accomplished by opening or closing individual slide gates.



Individual metering outlets.

Go to www.salfordgroup.com for more product information, specific dimensions and calibration charts.

1665 Inoculant Applicator Specifications

Hopper

- 33 cubic feet
- Mild steel with 2 component urethane primer and 2 component urethane top coat paint
- Weathertight lid
- Product level sight gauge
- Agitator to reduce product bridging

Product Delivery

- 1.25 inch ID flexible PVC hose
- 8 air seeder tower injectors

Metering

- Stainless steel metering bottom
- 18 individual metering outlets can be shut off independently to match the number of air seeder towers
- Optional Valmar ground drive, hydraulic drive or utilize some components of air seeder

Fan

- Requires a fan drive
- 16 inch impeller with 3 inch outlet
 Operates at 3200-4000 RPM
- In some cases the air seeder fan provides sufficient air and a Valmar fan is not required

Options

- Metering drive is a required option
- Mechanical ground drive includes 60 speed gearbox with 5% between settings, ground drive tire and hand crank for calibration
- Hydraulic metering drive includes an 11.3 CID hydraulic motor that requires up to 12 GPM for complete operating range
- JD 1900 Commodity Cart ground drive take off includes 60 speed gearbox and necessary material
- A fan drive is a required option when using the Valmar fan
- Hydraulic: 2.2 CID motor requires 8 GPM does not include hydraulic lines
- Gas: 9 horsepower engine
- 16 outlet broadcast deflector kit
- Electric clutch and control kit
- JD 1900 tow behind cart mounting kit
- Seeding tool hitch mount kit

- Height: 45 inches
- Width: 73.5 inches (48 inches without fan and platform)
- Length: 46 inches
- Weight: 740 lbs

1665 ROW CROP APPLICATOR



Increase Yields and Decrease Input Costs

Row-Crop Positive Displacement Insecticide Application

Mounts on planters or toolbars to apply products in the seed furrow or over the row.



Protect your Crop from Wind Erosion by Seeding Cover Crops Between Rows

Row-Crop Applicators for Inter-Row Seeding:

- Seed exactly at the rate you desire
- Achieve precise placement of seed
- Avoid unwanted seed in the row
- Reduce damages and losses from wind or water erosion
- Increase soil organic matter content



SPECIAL REPORT

GRANULAR AIRFLOW TECHNOLOGY DELIVERS HIGHER YIELDS Go to www.salfordgroup.com

Valmar Units Can Be Used With:

Hipper, Lister, Bed Conditioner, Paratill, Terratill, and most other implements.

1665 Row Crop Specifications

Hopper

- 33 cubic feet
- Mild steel with 2 component urethane primer and 2 component urethane top coat paint
- Weather tight lid
- Product level sight gauge
- Manifold pressure gauge

Product Delivery

- 1 inch ID flexible PVC hose
- Optional individually mounted broadcast deflectors or straight tube outlets

Metering

- Ground drive or hydraulic drive required option
- 18 individual metering outlets can be shut off independently for up to 16 rows or broadcast up to 40 feet
- Stainless steel metering bottom

Fan

- 16 inch impeller with 3 inch outlet
- Hydraulic drive 2.2 CID motor requires 8 GPM
- Operates at 3200-4000 RPM

Options

- Metering drive is a required option
- Hydraulic (Tee-Jet IC18 with CL250 control)
- Micro-Track hydraulic metering option
- Ground driven
- 60 speed gearbox with 5% between settings
- Mounting kits for various tool bars and planters
- Broadcast deflector kit
- Electric clutch and control kit
- LOCK 'n' LOAD valve assemblies
- Straight tube outlet kit

- Height: 50 inches
- Width: 73.5 inches
- Length: 46 inches
- Weight: 740 lbs

1255 PULL-TYPE INTER-ROW BANDING



Pull-Type Inter-Row Banding or Broadcast Applicator for Fertilizer, Seeds, Herbicides, and Insecticides

Air Manifold Gauge

A Murphy gauge measures air manifold pressure using inches of water column. The gauge is connected to the in-cab control with warning light and buzzer to warn of insufficient air pressure, ensuring proper application.

Manifold-Venturi System and Funnel Trav

The Venturi and manifold systems can be lowered by means of a quick release. Funnel trays are inserted for collection of product when calibrating or emptying the unit.

Hopper Bottom Slide Gates

Manually operated slide gates stop product flow to the metering system allowing you to remove the roller for cleaning or servicing.

Calibration Hand Crank

To make calibrating a product as precise and easy as possible a hand-crank is provided to turn the metering system. The product can be collected by using the funnel trays and weighed for determining exact application rates.

In-Cab Control

The dual electric clutch control allows you to operate the metering system from the operator's seat. Two magnetic clutches and in-cab control allow ½ shut-off on either side.



Broadcast boom.



60 Speed Gearbox: Rate adjustment is easy and precise with 60 settings at 5% increments. The gearbox features 8 speeds, 2 ranges and 4 input drive ratios giving a wide selection of rates. Combined with the around drive system, it provides unparalleled accuracy over the entire range of settinas.



Metering Roller: The 1255 PT uses two fluted rollers for metering granular product or seed. The red rollers have 28 grooves and are used for application of fine products such as granular herbicide and small seeds such as grass, flax, canola, alfalfa, etc. The coarse rollers have 12 grooves and are used with fertilizer and larger seeds such as wheat or soybeans. Each unit comes with both types of rollers.

1255 Pull Type Specifications

- 18 cubic feet
- 409 stainless steel with 2 component urethane primer and 2 component urethane top coat paint
- Weather tight lid
- Product level sight gauge

Broadcast or inter-row banding boom

- Broadcast boom
- Self-levelling frame with 16 foot boom (can be extended to 20 feet or 24 feet with optional 4 foot or 8 foot extension kits); adjustable boom height
- •(6) left hand and (6) right hand broadcast deflectors 1.25 inch ID, PVC Hose

Inter-Row Banding Boom

- 2 stainless steel assemblies with 6 drop tubes
- Telescoping to accommodate various row spacing up to
- Adjustable angle and height provide different band application widths
- Also includes a 7 foot non-folding broadcast boom with breakaways for inter row broadcasting with 12 drop
- •1.25 inch ID, PVC Hose

Meterina

- Ground driven
- Comes with 28 groove rollers for fine granular and small seeds and 12 groove rollers for fertilizer and large seeds
- In-cab electric clutch control and air manifold monitor
- 60 speed gearbox with 5% between settings
- · Air manifold and venturi system drop for easy cleaning
- · Half width shut off on either side

- 18 inch impeller with 3 inch outlet
- Operates at 3200-4000 RPM
- Hydraulic or gas engine fan drive
- Hydraulic 2.2 CID motor requires 8 GPM; hydraulic lines to hitch included (customer supplied connectors); includes sheaves, belt, shields, flow control with check
- Gas engine 9 HP engine; comes with Cyclone Air Cleaner; includes centrifugal clutch, engine mount, sheaves, belt and shields
- Note: Engine ordered separately

- 1500 lb. rubber torsion axle Tail lights
- 5 bolt hubs
 - Safety chains
- P265/50R15
- Clevis type hitch

Options

Foam marker

- · Height: 6 ft., Width: 6 ft. 10 in., Length: 8 ft. 7 in.
- Weight: 1080 lb.

455 GRANULAR FORAGE PRESERVATIVE





Maximize the Nutrient Value and Palatability of your Hay

The addition of a preservative when harvesting forage is the most important thing you can do to preserve its nutrient value and promote optimum palatability for livestock.

Preservatives allow you to harvest at a higher moisture content. This means you put up a better quality crop containing more of the valuable leaf matter with less of the problems associated with heating.



When it comes to applying granular preservatives, nothing is more accurate or easy to use than Valmar's Forage Preservative Applicator. This applicator has been extensively researched and field tested to provide you with the most dependable and efficient means of applying preservatives during forage harvesting.

Mounts Easily to Most Balers

Valmar's universal mounting stand allows you to easily attach the applicator to most makes and models of balers and forage harvesters.

Convenient In-Cab Monitoring and Control

Monitor and control all applicator operations

with Valmar's convenient in-cab unit. With its large, easy to read digital display you will have complete control of metering by



adjusting the roller RPM's. An alarm sounds when there's a problem with the system.

Efficient Air Driven Application

With the fan driven air delivery system you are able to more evenly distribute granules through the hay mass, plus you will have more options on mounting locations than with gravity fed systems. The fan's electric drive operates at 3600 RPM and easily connects to your tractor's 12 Volt system.



Extremely Accurate Metering

Valmar's four outlet system with a 12 or 28 groove plastic metering roller allows you to precisely distribute granules at a rate of up to five pounds a minute. Preservative is distributed through flexible heavy duty delivery hoses with rigid outlet tubes.

Weather Tight Hopper

Valmar's precision manufacturing keeps the weather out and the hopper screen prevents foreign materials from entering. It features a 2.8 cubic foot capacity with a hopper bottom shut off for easy access to metering rollers for regular cleaning.

455 Forage Preservative Applicator Specifications

Hopper

- Mild steel construction
- 2.8 cu. ft. holds approximately 250 lbs
- 2 component urethane primer and 2 component urethane top coat paint
- Hopper bottom shut off
- Fitted tarp is included
- Weathertight reversible lid

Metering

- 4 outlet manifold system
- Manifold is reversible for front or rear product delivery
- 12 Volt electric drive
- Manifold is easily removed for cleaning
- Both coarse and fine roller segments are included
- Meters up to 5 lbs/minute

Fan

- Operates at 3000-3600 RPM
- Plastic fan impeller
- 2.5 inch diameter fan outlet
- 12 Volt electric drive

In-Cab Control

- Both audible and digital alarms
- Operates and monitors fan and metering
- Digital read out shows metering roller RPM, low or high voltage, metering errors and warnings

Options

 Mounting stands to fit most round balers and large/medium square balers

Dimensions/Shipping Information

Height: 28 inchesWidth: 22 inchesLength: 23 inches

• Weight: 135 lbs

INDEPENDENT SERIES	AERWAY	TILLAGE	BBI SPREADERS	VALMAR APPLICATORS	SEEDING	SALFORD
I-1100	HAY &	5200	MAGNASPREAD	8600 PULL-TYPE	520 AIR DRILLS	USA - Osceola, Iowa • Cornelia, Georgia
I-1200	PASTURE	ENFORCER	ENDURANCE	9620 PULL-TYPE	525 AIR DRILLS	Canada - Salford, Ontario • Elie, Manitoba
I-2100	TILLAGE ORCHARD/	9200 IN-LINE RIPPER	LIBERTY	5500 PULL-TYPE	AIR CARTS	Phone: 519-485-1293 Toll Free: 1-866-442-1293
I-2200	VINEYARD	MOLDBOARD	GRASSHOPPER	1255 PULL-TYPE	PATHFINDER	Email: sales@salfordgroup.com
I-4100	TURF	PLOWS	CRICKET	245 PULL-TYPE	CART	www.salfordgroup.com
I-4200		CULTIVATORS	TROOPER	55/56 SERIES		
		UNIVERSAL HARROWS		455 FORAGE PRESERVATIVE APPLICATOR		
No. of the last	The Land		A Const	ST-6, ST-8, ST-10 ROW CROP		

