

SALFORD

MECHANICAL

HYDRAULIC

BBI SPREADERS

SALFORD



BUILT FOR SOIL PRODUCTIVITY.

Producers worldwide have utilized a set of practices paired with technological advances to push the envelope of farming to new heights of economic performance, field conservation, and sustainability.

Every step of the way, Salford has embraced precision agriculture, empowering our customers with equipment, hardware, software, and options that bring their crop science to maximum potential.



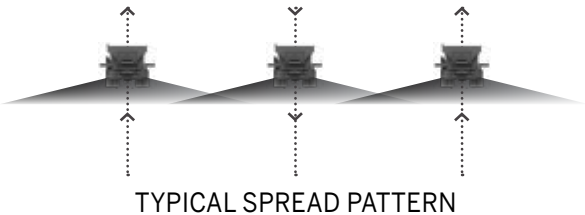
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THE FLAT-SPREAD PATTERN OF ALL SALFORD BBI SPREADERS

When properly calibrated, Salford BBI spreaders will output an even product distribution or flat spread pattern. This flat spread pattern allows the driving interval to equal the swath resulting in minimal or no overlap. The benefit of this pattern is fewer passes, less time in the field, less fuel use, and less risk of soil compaction.

Typical results from spinner spreader pan tests, indicate that the amount of product spread will taper off from the outside of the swath, resulting in additional passes, significant overlap of material, product waste and higher risk of soil compaction.



MECHANICAL SPINNER SPREADERS

STRAIGHT RATE RELIABILITY

Salford's BBI mechanical spreaders are engineered for simple, reliable operation with maximum application widths. These spreaders are designed for faster application. Heavy duty components and superior design mean less down time. Wider swaths mean less time spreading and less fuel required.

Salford's dependable mechanical spreaders give operators confidence in their application practices, knowing that they are achieving accurate rates to feed their crops throughout the season.



*Options vary by model.

	GRASSHOPPER	LIBERTY	TROOPER
			
FERTILIZER	✓ PTO Driven Spinners: Up to 60-ft. Hydraulic Spinners: Up to 80-ft.**	✓ PTO Driven Spinners: Up to 60-ft. Hydraulic Spinners: Up to 80-ft.**	✓ PTO Driven Spinners: Up to 60-ft. Hydraulic Spinners: Up to 80-ft.**
AG LIME	✓ UP TO 60-FT.	✓ UP TO 60-FT.	

** Hydraulically Driven Spinners require 21-GPM @ 2000-PSI for maximum swath width.



GRASSHOPPER

High clearance 5-Ton fertilizer, 7-Ton lime spreader, designed for precision application of top dressings and row cropping. Rounded payload capacity of 180-cubic feet. This unit is PTO and ground wheel driven with optional tractor supplied hydraulic spinners.

SINGLE AXLE | 9-FOOT HOPPER



LIBERTY

BBI Liberty pull-type spreaders are designed to be the toughest, most durable fertilizer and lime spreaders on the market. This 10-foot. long, tandem-axle frame is built to deliver the most efficient fertilizer and lime field application, saving time and money.

TANDEM AXLE | 10-FOOT HOPPER



TROOPER

Designed for fleet applications, and used by growers across North America, the BBI Trooper is easy to operate and towable with almost any type of vehicle. Flotation tires prevent soil compaction, making this applicator ideal for small to medium-capacity jobs in a variety of settings.

TANDEM AXLE | 10-FOOT HOPPER

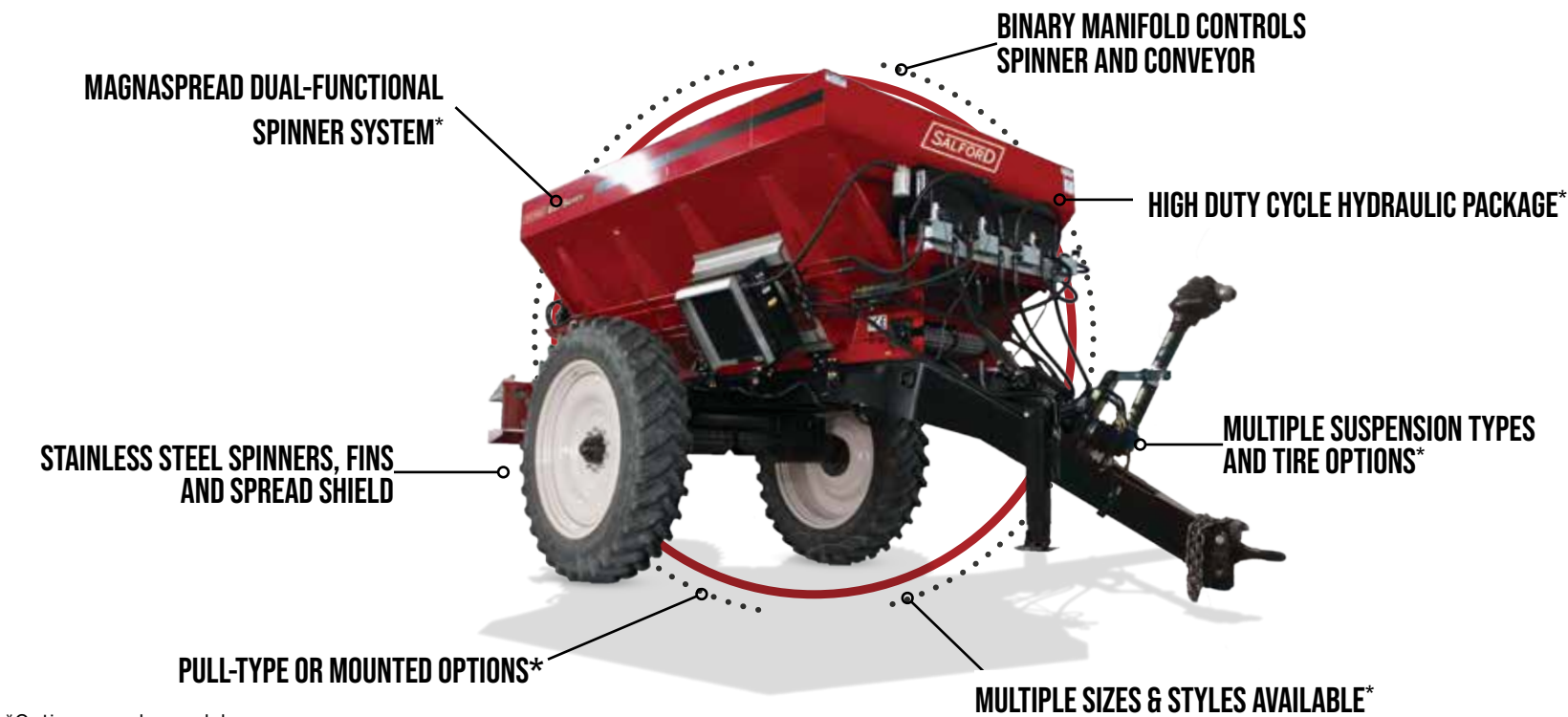
	GRASSHOPPER	LIBERTY	TROOPER
Hopper Size	<ul style="list-style-type: none">9-ft. Standard Body Hopper - 180 cu-ft capacity	<ul style="list-style-type: none">Choice:10-ft. Standard Profile Hopper 200 cu-ft capacity10-ft. High Profile Hopper 220 cu-ft capacity	<ul style="list-style-type: none">10-ft. Hopper 270 cu-ft capacity
Hopper Material	<ul style="list-style-type: none">Choice: 409 Stainless Steel, PaintedChoice: 304 Stainless Steel	<ul style="list-style-type: none">Choice: 409 Stainless Steel, PaintedChoice: 304 Stainless Steel	<ul style="list-style-type: none">409 Stainless Steel, Painted
PTO Drive	<ul style="list-style-type: none">Choice:540 RPM Series 6 CV Joint PTO Shaft1000 RPM Series 6 CV 1-3/4 20 Spline1000 RPM Series 6 CV 1-3/8 21 Spline	<ul style="list-style-type: none">Choice:540 RPM Series 6 CV Joint PTO Shaft1000 RPM Series 6 CV 1-3/4 20 Spline1000 RPM Series 6 CV 1-3/8 21 Spline	<ul style="list-style-type: none">Choice:540 RPM Series 6 CV Joint PTO Shaft1000 RPM Series 6 CV 1-3/4 20 Spline1000 RPM Series 6 CV 1-3/8 21 Spline
Spinner Drive	<ul style="list-style-type: none">Standard: PTO Driven SpinnersOptional: Hydraulic Plug-To-Tractor Spinners (Plug-To-Tractor), requires 21 GPM @ 2000 PSI	<ul style="list-style-type: none">Standard: PTO Driven SpinnersOptional: Hydraulic Plug-To-Tractor Spinners (Plug-To-Tractor), requires 21 GPM @ 2000 PSI	<ul style="list-style-type: none">Standard: PTO Driven SpinnersOptional: Hydraulic Plug-To-Tractor Spinners (Plug-To-Tractor), requires 21 GPM @ 2000 PSI
Metering Drive Options	<ul style="list-style-type: none">#60 stainless steel ground drive chainStandard: Press Wheel Pneumatic TireOptional: Metal Press Wheel	<ul style="list-style-type: none">#60 stainless steel ground drive chainStandard: Press Wheel Pneumatic TireOptional: Metal Press Wheel	<ul style="list-style-type: none">#60 stainless steel ground drive chainStandard: Press Wheel Pneumatic TireOptional: Metal Press Wheel
Primary Metering	<ul style="list-style-type: none">20-in. Stainless Steel Mesh Chain	<ul style="list-style-type: none">20-in. Stainless Steel Mesh Chain	<ul style="list-style-type: none">8-in. Stainless Steel Mesh Chain
Axle	<ul style="list-style-type: none">12-Ton rigid, high-clearance axle for row-cropping & top dressing 72-in. track width(68 - 80-in. track available on request)	<ul style="list-style-type: none">Standard: 7-Ton Torsion-Flex Tandem Axle (12.5 X 15 implement tires with 6-Bolt Hub)Optional: 9-Ton Heavy Duty Tandem Axle Suspension (16.5 X 16.1 R3 tires & 8-Bolt Hub)Optional: 10-Ton Walking Beam (16.5L X 16.1 R3 Tires & 8-Bolt Hub) Includes Heavy Duty Jack	<ul style="list-style-type: none">10,000-lb. Torsion-Flex Tandem Axle
Tire & Wheel Options	<ul style="list-style-type: none">Standard: 11.25 x 28 Tires & WheelsOptional: 440/80R28 Tires & 15 x 28 Wheels	<ul style="list-style-type: none">7-Ton Torsion-Flex suspensionStandard: 12.5L x 15 6 bolt wheels & tires9 & 10-Ton SuspensionStandard: 16.5L x 16.1 R3 Tires & 8-Bolt WheelOptional: 16.5L x 16.1 Ribbed Implement Tires & 8-Bolt WheelOptional: 21.5L x 16.1 R3Optional: 21.5L x 16.1 Ribbed Implement Flotation tiresOptional: 500/45-22.5	<ul style="list-style-type: none">21.5L X 16.1 Flotation Tires with 8-Bolt Hub
Monitors Options & Rate Control	<ul style="list-style-type: none">Optional: Spinner Speed Monitor Kit	<ul style="list-style-type: none">Optional: Spinner Speed Monitor Kit	<ul style="list-style-type: none">Optional: Spinner Speed Monitor Kit
Tarp	<ul style="list-style-type: none">Optional: 9-ft. Tarp for Standard or high Profile Hoppers Aluminum End Caps	<ul style="list-style-type: none">Optional: 10-ft. Tarp for Standard or high Profile Hoppers Aluminum End Caps	<ul style="list-style-type: none">Optional: 10-ft. Tarp for Standard or high Profile Hoppers Aluminum End Caps
Tail Light	<ul style="list-style-type: none">Optional: Rear Tail Lights with Turn Signal, Side Markers, Wired with Corrosion Resistant Wiring Kit	<ul style="list-style-type: none">Optional: Rear Tail Lights with Turn Signal, Side Markers, Wired with Corrosion Resistant Wiring Kit	<ul style="list-style-type: none">Standard: Rear Tail Lights with Turn Signal, Side Markers
Hopper Ladder	<ul style="list-style-type: none">Standard: Ladder for Carbon Steel Hopper	<ul style="list-style-type: none">Standard: Ladder for Carbon Steel Hopper	<ul style="list-style-type: none">Standard:Ladder for Carbon Steel Hopper

HYDRAULIC SPINNER SPREADERS

PRECISION VARIABLE RATE

Salford's BBI hydraulically driven spreaders take the dependable foundation of our mechanical machines and elevate it with the modern precision of variable rate application capabilities. The proprietary Binary Manifold allows Salford spreaders to pair with almost any ISOBUS control system allowing growers to use their existing monitor. Salford can also supply rate control packages to meet your application needs.

Salford spreaders are full of industry-leading technology; The revolutionary Sniper spreader features application widths up to 120-feet and is combined with straightforward, dependable right/left section control. The MagnaSpread Plus allows for application widths up to 120-feet with fertilizer, then quickly converts to apply up to 60-feet with lime.



*Options vary by model.

	SNIPER	MAGNASPREAD+ 12ft & 20ft	MAGNASPREAD	GRASSHOPPER HDR	LIBERTY HDR	CRICKET
FERTILIZER	✓ UP TO 120-FT.	✓ UP TO 120-FT.*	✓ UP TO 80-FT.	✓ UP TO 80-FT.	✓ UP TO 80-FT.	✓ UP TO 10-FT.
AG LIME		✓ UP TO 60-FT.*	✓ UP TO 60-FT.	✓ UP TO 60-FT.	✓ UP TO 60-FT.	✓ UP TO 10-FT.
ORGANICS						✓ UP TO 10-FT.

* MagnaSpread Plus models require a spinner change for maximum swath width with each material. MagnaSpread model available as truck mount.



High-Duty Cycle Hydraulic Package

Salford high-duty cycle hydraulics* are engineered for continuous use spreading on large farms and commercial operations. The high-duty cycle hydraulics combines special hydraulic pumps and an oil cooler system to keep large commercial units running at optimal temperatures for longer periods of time.

- Ennnhance your operation with high-duty cycle hydraulics for:
- Frequently spreading large amounts of lime
 - High-capacity spreader hopper (recommended for 16-foot hoppers and larger)

*Standard on all MagnaSpreads, MagnaSpread+, Sniper. Optional for Endurance.

BBI HYDRAULIC VALVE OPTIONS

BBI hydraulic valve options increase the versatility of your spreader by allowing the equipment to handle a wider range of rates, application speeds, and weight of material.

HY-TORQUE MANIFOLD OPTION

Delivering added torque to the spreader’s spinners when activated, the Hy-Torque manifold is engineered to maintain swath width and accuracy when spreading heavy material.

HIGH-SPEED CONVEYOR VALVE OPTION

Designed to double the available conveyor speed, units equipped with the high speed conveyor valve option are able to increase application rates and/or ground speeds.

THE HIGH-DUTY CYCLE
HYDRAULIC PACKAGE GIVES
YOUR SPREADER ADDITIONAL
CAPABILITY FOR:

HIGHER GROUND SPEED



HIGHER SPREAD RATES



STAY COOLER LONGER



PRECISION TECHNOLOGY

Salford BBI is a pioneer in ISOBUS 11783 compatible precision control technology. Options like variable rate application, left/right section control, and swath control, can be achieved with factory-offered Electronic Control Units (ECU) that are compatible with a wide range of in-cab consoles. Salford BBI ISOBUS compliant control options* maximize your farm's total investment in precision application technology by allowing you to use one, or many, of the consoles you already use on your farm today to run your Salford BBI equipment.

Salford BBI implements are also compatible with a wide range of ECUs. Growers can use almost any terminal to control a Salford spreader.

ECU SYSTEM COMPATIBILITY

Compatible with these systems. Call for updated display compatibility. Monitors not included.

	Mueller Touch800 ®	John Deere 2630 / 4640®	Case IH Pro700 ®	New Holland Intelliview IV ®
RATE CONTROL	●	●	●	●
SECTION CONTROL	●	●	●	●
PRESCRIPTION	●	●	●	●

Mueller Touch800 ® - Requires a TC upgrade for Prescription and a Section Control unlock

John Deere 2630 / 4640® - Requires a Section Control unlock

Case IH Pro700 ® - Requires a TC unlock for Prescription and Section Control

New Holland Intelliview IV ® - Requires a TC unlock for Prescription and Section Control

AgLeader ® Integra - Requires a multi-product unlock for multi-bin Rate and Section Control

BBI BINARY MANIFOLD

Exclusive to all BBI hydraulic spreaders, including BBI Endurance, the Binary Manifold System enables quick connections to precision agriculture systems for rate control, guidance and more.

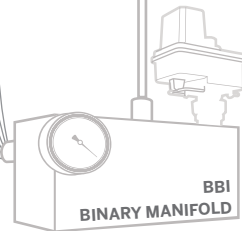
Choose any OEM Virtual Terminal

Mueller Electronic
John Deere Gen 4
Raven Viper 4+
AG Leader inCommand
Green Star 2 2600
Green Star 3 2630
Topcon X30 / X25
AFS Pro 700
Trimble FMX CNH FM-1000
Trimble TMX-2050
NH Intelliview IV
AG Leader Integra

Choose any Third- Party Rate Control Device

Raven
AG Leader
Trimble
John Deere
Mueller Electronic
TeeJet

ISOBUS 11783
COMPATIBLE



*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. Application modes such as section control and swath control are only available on select models.



CRICKET

The BBI Cricket spreader is an affordable and dependable tool for spreading fertilizer, lime and compost in your vineyard or orchard. This spreader gets below overhanging limbs, and the reversible wheels allow a 50 or 60-inch track to accommodate most vineyards, orchards or small farms.

VINEYARD OR ORCHARD | 8-FOOT HOPPER



LIBERTY HDR

Engineered with a hydraulic conveyor chain and spinner motors to allow for a higher rate performance spinner spreader. Making the BBI Liberty HDR an ideal medium capacity machine for fertilizer and lime application with variable rate capabilities.

TANDEM AXLE | 10-FOOT HOPPER



GRASSHOPPER HDR

High clearance 5-Ton fertilizer, 7-Ton lime spreader, designed for precision application top dressing and over row crops. Payload capacity of 200 cubic feet, the steel hopper is 10 feet long and 8 feet wide with 45 degree angle sides. This unit is driven using either self contained hydraulics or optional tractor supplied hydraulics.

SINGLE AXLE | 10-FOOT HOPPER

MAGNASPREAD

Optimized for a variety of high-capacity farming applications, spreading both lime and fertilizer. Spreads lime at up to 2 tons per acre at 14 mph with a 60-foot swath and fertilizer to 80-foot-plus swaths. Equipped with Salford BBI's Binary Manifold, making connections to your precision agriculture electronics a snap.

TANDEM AXLE | 16-FOOT HOPPER



MAGNASPREAD PLUS+

MagnaSpread Plus+ one spreader to maximize both fertilizer and lime application widths, saving you time and money. Change from fertilizer applicator to lime applicator in minutes. Multiple hopper capacity options - the high-clearance single axle 12-foot hopper or the tandem axle 20-foot hopper, equipped with Salford's latest advancements in application technology.

**SINGLE AXLE | 12-FOOT HOPPER
TANDEM AXLE | 20-FOOT HOPPER**



SNIPER

Sniper 120' is engineered for application widths up to 120 feet, and uses patent pending technology to rapidly adjust its application swath on-the-fly. The Sniper's tremendous application width and superior spread pattern control make for an efficient applicator that reduces overlap and keeps fertilizer out of environmentally sensitive areas. The simple spread pattern control is easy to set and maintain, keeping high acreage operators moving fast.

SECTION CONTROL | SINGLE AXLE | 12-FOOT HOPPER



CRICKET		LIBERTY HDR		GRASSHOPPER HDR		MAGNASPREAD	MAGNASPREAD PLUS	MAGNASPREAD PLUS	SNIPER
Hopper Size	• 8-ft. hopper 63.5 cu-ft	Choose from: • 10-ft. Standard Profile Hopper 200 cu-ft capacity • 10-ft. High Profile Hopper 220 cu-ft capacity	Choose from: • 10-ft. Standard Body Hopper - 200 cu-ft capacity • 10-ft High Body Hopper - 220 cu-ft capacity		• Standard: 16-ft. Standard Hopper 320 cu-ft • Optional: 16-ft. High Hopper 352 cu-ft	• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*
Hopper Material	• 409 Stainless Steel, Painted or • 304 Stainless Steel	Choose from: • 409 Stainless Steel, Painted or • 304 Stainless Steel	Choose from: • 409 Stainless Steel, Painted or • 304 Stainless Steel		• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel	• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel	• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel	• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel	• Standard: 409 Stainless Steel, Painted • Optional: 304 Stainless Steel
PTO Drive	• Choice for self-contained models only: • 540 RPM Series 6 CV Joint PTO Shaft	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics - Req 46 GPM total - 2300 PSI; 2 Remotes@ 23 GPM each; Zero pressure case return	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics - Req 46 GPM total - 2300 PSI; 2 Remotes@ 23 GPM each; Zero pressure case return		Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline • Tractor Supplied Hydraulics for MagnaSpread*	Choose from: • 1000 RPM Series 6 CV 1-3/4 20 Spline • 1000 RPM Series 6 CV 1-3/8 21 Spline
Spinner Drive	• Standard: Self Contained PTO Hydraulics • Optional: Plug to Tractor Hydraulics	• Standard: Self Contained PTO Hydraulics • Optional: Hydraulic Plug-To-Tractor Spinners (Plug-To-Tractor), requires 21 GPM @ 2000 PSI • Optional: HY TORQUE Manifold **For use with standard hydraulics only** Two speed / Manually operated to handle HIGH Rates, Weight & Speeds. • Optional: Cooler for Self Contained Hydraulics only	• Standard: Self Contained PTO Hydraulics • Optional: Hydraulic Plug-To-Tractor Spinners (Plug-To-Tractor), requires 21 GPM @ 2000 PSI • Optional: HY TORQUE Manifold **For use with standard hydraulics only** Two speed / Manually operated to handle HIGH Rates, Weight & Speeds. • Optional: Cooler for Self Contained Hydraulics only		• Standard: Self Contained, PTO Driven High Duty Cycle Hydraulics with Oil Cooler • Optional: Plug to Tractor Hydraulics	• Standard: Self Contained, PTO Driven High Duty Cycle Hydraulics with Oil Cooler • Optional: Plug to Tractor Hydraulics	• Standard: Self Contained, PTO Driven High Duty Cycle Hydraulics with Oil Cooler • Optional: Plug to Tractor Hydraulics	• Standard: Self Contained, PTO Driven High Duty Cycle Hydraulics with Oil Cooler • Optional: Plug to Tractor Hydraulics	• Standard: Self-Contained PTO Hydraulic, ISOBus system and scales
Metering Drive Options	• Overhead mounted spinner motors • Banding attachment on spinners • Optional: 4-ft. Rear Banding Conveyor with belt	• Standard: Tandem Gear case • Optional: High-Speed Conveyor Valve (GR Valve)	• Standard: Tandem Gear case • Optional: High-Speed Conveyor Valve (GR Valve)		• Overhead mounted spinner motors • Tandem conveyor drive gearbox	• Overhead mounted spinner motors • Tandem conveyor drive gearbox	• Overhead mounted spinner motors • Tandem conveyor drive gearbox	• Overhead mounted spinner motors • Tandem conveyor drive gearbox	• Overhead mounted spinner motors • Independent left /right hand conveyor gearboxes
Primary Metering	• 16-in. stainless steel mesh chain conveyor	• 20-in. Stainless Steel Mesh Chain	• 20-in. Stainless Steel Mesh Chain		• Standard: 30-in. Belt-Over-Bar Chain Optional: 20-in. Stainless Steel Mesh Chain	• Standard: 30-in. Belt-Over-Bar Chain	• Standard: 30-in. Belt-Over-Bar Chain	• Standard: 30-in. Belt-Over-Bar Chain	• Split Chain - Twin 10-in. Mesh Chains
Axle	• Standard: 7,000-lb rigid axle 15-in. axle ground clearance, 13-in. clearance under spinners	• Standard: 7-Ton Torsion-Flex Tandem Axle (12.5 X 15 implement tires with 6-Bolt Hub) • Optional: 9-Ton Heavy Duty Tandem Axle Suspension (16.5 X 16.1 R3 tires & 8-Bolt Hub) • Optional: 10-Ton Walking Beam (16.5L X 16.1 R3 Tires & 8-Bolt Hub) Includes Heavy Duty Jack	• Standard: 12-Ton High Clearance Axle • Optional: 120 Axle Fixed Track Set Up • Optional: 90 - 120 Adjustable Axle • Optional: 120 - 152 Adjustable Axle		• Standard: 14-Ton Tandem Walking Beam Suspension (21.5 x 16.1-14 ply tires, 10 bolt hubs & wheels) • Optional: 20-Ton Walking Beam MagnaSpread Suspension Upgrade (800/65R32 Tire & 10-Bolt Hub) includes Tubular Trailer Frame	• Standard: 14-Ton Tandem Walking Beam Suspension (21.5 x 16.1-14 ply tires, 10 bolt hubs & wheels) • Optional: 20-Ton Walking Beam MagnaSpread Suspension Upgrade (800/65R32 Tire & 10-Bolt Hub) includes Tubular Trailer Frame	• Standard: 90 to 120-in. Adjustable Axle • Optional: 120 to 152-in. Adjustable Axle	• 20-Ton Walking Beam MagnaSpread Suspension - Includes Tubular Trailer Frame, CV Joint PTO shaft	• Standard: 90 to 120-in. Adjustable Axle • Optional: 120 to 152-in. Adjustable Axle
Tire & Wheel Options	• 14L implement tires, 6-bolt hubs	• 7-Ton Torsion-Flex suspension: Standard: 12.5L x 15 6 bolt wheels & tires • 9 & 10-Ton Suspension: Standard: 16.5L x 16.1 R3 Tires & 8-Bolt Wheel • Optional: 16.5L x 16.1 Ribbed Implement Tires & 8-Bolt Wheel • Optional: 21.5L x 16.1 R3, 16.5L x 16.1 R3 (Note: overall width is approx. 106) • Optional: 21.5L x 16.1 Ribbed Implement Flotation • Optional: 500/45-22.5 Tires	• Standard: 11.25 x 28 Tires & Wheels on 12-Ton Axle (includes 10 bolt hubs, additional High Clearance Spreader frame construction) • Optional: 440/80R28 Tires & 15X28 Wheels on 12-Ton Axle (includes 10 bolt hubs, additional High Clearance frame construction) • Optional: 380/90R46 Tires (Available only on adjustable axles)		• 14-Ton Suspension: Standard: 21.5L x 16.1 R3 or Ribbed Flotation Tire & 10 Bolt Hub - Available for 14-Ton Walking Beam Suspension • Optional: 550/60-22.5 • Optional: 700/40-22.5/16 Tires • 20-Ton Suspension: Standard: 800/65R32 Tires on a 10 Bolt Hub	• Standard: 380/90R46 Tires • Optional: 800/65R32 Tires	• Standard: 380/90R46 Tires • Optional: 800/65R32 Tires	• Standard: 380/90R46 Tires • Optional: 800/65R32 Tires	• Standard: 380/90R46 Tires • Optional: 800/65R32 Tires
Options	• Tarp • Tail lights	• Scales • Tarp • Tail lights • Inverted 'V' • Rate control packages	• Scales • Tarp • Tail lights • Inverted 'V' • Rate control packages		• Scales • Tarp • Tail lights	• Scales • Tarp • Tail lights	• Scales • Tarp • Tail lights	• Scales • Tarp • Tail lights	

• MagnaSpread* Requires 50 GPM total with max pressure of 2800 PSI. 2 Remotes, 1 at 30 GPM with a 3rd line case drain for Spinners & 1 at 20 GPM for the Conveyor. This hydraulic configuration (does not) include an oil cooler & one cannot be added. Use of 1/2 coupler on spinner circuit will likely result in reduced performance in heavy applications such as lime.

MAGNASPREAD MOUNTED OPTIONS

CONVERTIBLE SPINNER PACKAGE

Maximize both fertilizer and lime application widths, saving you time and money. Change from fertilizer applicator to lime applicator in minutes. Apply fertilizer up to 80 feet and lime up to 60 feet.

STANDARD EQUIPMENT

- Hydraulic Binary Manifold with pilot operated relief, manual flow controls for spinner and conveyor
- High-Speed Conveyor Valve
- High-duty cycle hydraulics
- Overhead mounted spinner motors
- Tandem conveyor drive gearbox
- Stainless steel spinners, fins and spread shield
- Stainless steel hopper
- Over-slung center 'V'
- 30" belt-over-bar conveyor
- Spreader pan test kit



SELF-PROPELLED EQUIPMENT

MagnaSpread unit mount options will maximize your total application investment with the most efficient, versatile and advanced spreader packages available in the industry.





BBI ENDURANCE

MODELS & OPTIONS

ENDURANCE

Meet the leader in precision application of litter, manure, and a host of other organic materials. The Endurance is optimized to get the job done when it comes to spreading a range from light to heavy materials on farms of all sizes. The Endurance is a durable spreader that achieves targeted application with a uniform spread pattern. Powered by hydraulics and a spinner system that achieves a wide spread pattern that others can only achieve with much heavier material, the Endurance is optimized for precision agriculture and improving the economics of the modern farm.

SPREAD VARIETY OF MATERIALS



Chicken Litter



Turkey Litter



Beet Lime



Lime



Bark



Wood Chips



Shavings



Pelletized Material

CHOICE EQUIPMENT FOR MULTIPLE FARM SIZES

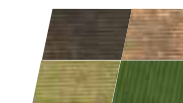
From 50 acres to 10,000 acres, Endurance is customized to fit your unique needs.



0 - 1000 acres



1000 - 2500 acres



2500 - 5000 acres



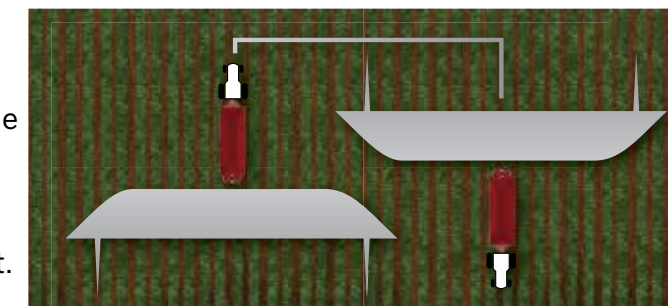
5000 - 10000 acres



10000+ acres

UNBEATABLE FLAT SPREAD PATTERN

Salford spreaders are known for their precision. That precision is achieved through targeted application of material across an unbeatable spread pattern that can create driving intervals up to 60-feet. True pattern, true swath, and true drive interval equals a reduction in fuel expended and time spent in the field—that means improved economic performance of your operation. That is what the Endurance is all about.



Superior Salford Driving Interval

OPTIONS

Option-rich and available in sizes ranging from 16-24 feet. Available in pull-type and truck-mount versions. Salford has an Endurance model to fit your farm for today’s needs and future growth.

HOPPER CONSTRUCTION

STANDARD PROFILE HOPPER has a capacity of 20 cu/ft. struck level per linear foot, is 88-in. wide and 51.5-in. high.
WIDE HOPPER has a capacity of 21 cu/ft. struck level per linear foot, is 96-in. wide and 52-in. high.



SUSPENSION

LOAD HEIGHT OPTIONS

TORSION AXLE



WALKING BEAM



SUSPENSION TYPE	TIRE SIZE	STANDARD
7,000 lb Torsion-Flex Tandem Axle	12.5	79.5 in
7,000 lb Torsion-Flex Tandem Axle	14	82-in.
9-Ton Heavy Duty Tandem Axle	16.5	87.5-in.
9-ton Heavy Duty Tandem Axle	500	87.5-in.
9-Ton Heavy Duty Tandem Axle	21.5	89.5-in.
10-Ton Walking Beam	16.5	89.5-in.
10-Ton Walking Beam	500	89.5-in.
10-Ton Walking Beam	21.5	91.5-in.
14-Ton Walking Beam	21.5	91.5-in.
14-Ton Walking Beam	550	94-in.
14-Ton Walking Beam	700	94-in.
20-Ton Walking Beam	800	107.5-in.



HIGH PERFORMANCE LIME SPREADER PACKAGE

Now more than ever, the Endurance gives you greater return on investment through more choice on the farm, with heavy duty lime packages available. Greater versatility for greater economic performance, season to season.

3RD RUN 88K CONVEYOR CHAIN

OVER-SLUNG CENTER-V

POLY FLOOR UHMW

WALKING BEAM SUSPENSION

HIGH DUTY CYCLE HYDRAULICS

ENDURANCE SPECIFICATIONS PULL-TYPE & TRUCK MOUNT
LITTER / LIME / SHAVINGS / COMPOST / OTHER ORGANIC MATERIAL

	16 FT.	18 FT, 20 FT	24 FT.
Drive	Hydraulic Drive	Hydraulic Drive	Hydraulic Drive
Standard Profile Hopper capacity in cu-ft.	304	342, 380	456
96 in. Wide Body Hopper capacity in cu-ft.	400	450, 500	550
Hopper Material	10-Gauge Carbon Steel with Electrostatic Paint (7-Gauge Carbon Steel Optional) Includes standard: Hopper Ladder		
Hopper Floor	Standard: 7-gauge steel rails and floor Optional: Poly Floor		
Conveyor	34 inch wide “Close-Bar” Conveyor Chain with 2 runs of 88K Chain. (Bars Every OTHER Link)		
Spinner Construction	Carbon Steel Spinner Drive Motors. (Plug to Tractor Spinner Drive is Available.)		
Spinner Size	28 inch spinner, 6 blade		
Drive	Standard: Tandem Gearcase Choose: 540 RPM 6 Series CV or 1000 RPM 6 Series CV*		
Hydraulic Drive Control	Binary Manifold (Combines the hydraulic controls for the conveyor and spinners into one control manifold. Allows for quick ISOBUS Connection)		
Tires & Suspension	<ul style="list-style-type: none">Standard: 7-Ton Tandem Axle Suspension (12.5L x 15 Tires and 6-Bolt hub) Includes Heavy Duty JackOptional:<ul style="list-style-type: none">9-Ton Heavy Duty Tandem Torsion Axle Suspension (16.5 X 16.1 /tires and 8-Bolt Hub)10-Ton Walking Beam (16.5L X 16.1 Tires and 8-Bolt Hub)14-Ton Walking Beam (21.5 14 Ply Tires and 10-Bolt Hub)20-Ton Walking Beam Endurance Suspension Upgrade (800/65R32 Tire and 10-Bolt Hub). Includes Tubular Trailer Frame. CV Joint PTO shaft series.		
Optional Tire Upgrades	<ul style="list-style-type: none">14L x 16.1 Flotation Tires in lieu of standard 12.5L x 15 6 bolt wheels and tires21.5L x 16.1 Flotation Tires in lieu of standard 16.5 8 Bolt wheels and tires500/45-22.5 Tires in lieu of standard 16.5L x 16.1 8 Bolt wheels and tires550/60-22.5 Tires in lieu of standard 21.5 x 16.1 14 Ply 10 Bolt wheels and tires700/40-22.5/16 1-3 Tires (Requires 14-Ton walking beam)		
Additional Options	<ul style="list-style-type: none">Hopper ExtensionsLight kitScalesTarp1/4 inch floor rails3rd run of 88K drive chainHopper Inverted “V” (prevents material bridging)		
Hydraulic Options	Hy-Torque Manifold, GR Value, Oil Cooler, High Duty Cycle Hydraulics (includes more efficient pumps & motors)		





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