

BBI MAGNASPREAD OVERVIEW

- 1 Dual-Functionality Spinner System**
Standard: MagnaSpread Spinners — offer true driving intervals, reducing swath overlap (driving interval of 60 feet with Lime, 80 feet with Fertilizer).
Optional: Javelin Spinners— offer the widest swath for urea in the industry (driving interval of 120 feet with urea).
See pg. 12-13 for more details.
- 2 Section Control Option**
Select MagnaSpread models can apply material in a full swath, to the left only, or to the right of the spreader, using split conveyor chains and independent spinner control.
See pg. 14 for more details.
- 3 Optional High Duty Cycle Hydraulic Package**
The high duty cycle hydraulics option utilizes a combination of special hydraulic pumps and an oil cooler system to keep large commercial units running at optimal temperatures for longer periods of time.
See pg. 15 for more details.
- 4 Multi-Hopper Bin System**
The MagnaSpread2 and MagnaSpread3's patented design is engineered to offer variable rate application of accurately blended essential nutrients.
See pg. 16-17 for more details.
- 5 Binary Manifold**
Patented hydraulics control system offers connectivity to all major precision agriculture technology brands.
See pg. 19 for more details.



LIME: 60 FEET
FERTILIZER: 80 FEET
UREA: 120 FEET *

**with Optional Javelin spinners only*



6 **MagnaSpread Spinner System**

MagnaSpread achieves consistent swaths of 80 feet with fertilizer and 60 feet with lime. The MagnaSpread spinner system is capable of spreading lime, a wide range of fertilizers and products like gypsum and micro-nutrients. See pg. 12-13 for more details.

7 **Optional Javelin Spinner System**

The interchangeable spinner platform allows you to have one spreader body with the versatility of MagnaSpread and the industry-leading 120 foot urea application of Javelin. See pg. 12-13 for more details.

8 **Multiple Suspension Types**

Choose from adjustable axle, torsion axle, or walking beam suspension types. See pg. 10 for more details.

9 **Multiple Lengths and Hopper Styles**

Choose from 10-20 foot hopper bodies and "H" or "B" bodies that offer standard or higher clearance hoppers. See pg. 10 for more details.

10 **Available in Pull-Type or Multiple Mounted Options**

Pull-type, floater chassis, high-clearance chassis or ag truck, MagnaSpread is powerful no matter how you haul it. See pg. 10-11 for more details.

BBI MAGNASPREAD SPECIFICATIONS

BBI MagnaSpread Models and Options Overview

Precision fertilizer and lime applicators bearing the Salford name meet the demands of the largest farms, as well as small and mid-sized family operations looking to take their businesses to next-generation sustainability. The option-rich MagnaSpread line is the powerhouse of Salford's BBI series, our flagship line of precision applicators of fertilizer, lime, and now urea with the optional Javelin spinner system. See how you can customize base MagnaSpread models to meet your most demanding farming tasks:

| | | | | |
|--|--|---|--|--|
| BASE MODELS |  |  |  |  |
| | <p>10-12ft Single Axle, High Clearance, Row Crop</p> <p>Medium-capacity applications, for turf farms, pastures, and row crops. High clearance, adjustable axles, straddle rows.</p> | <p>10-12ft Standard Torsion Axle or optional Tandem Axle</p> <p>Mid-sized to high-capacity farming applications.</p> | <p>14-16ft Larger Body, Tandem Axle Standard, Standard GR & Hy-Torque Hydraulic Valves</p> <p>Large or commercial operations requiring high duty cycle spreading.</p> | <p>18-20ft Largest Body, Tandem Axle Standard, Standard GR & Hy-Torque Hydraulic Valves</p> <p>High acreage commercial operations that achieve greatest efficiency from fewer fill stops.</p> |
| <p><i>All base models spread lime at up to 2 tons per acre at 14 mph with a 60 foot swath All base models spread fertilizer at swaths of 80 feet and higher.</i></p> | | | | |

| | | | | |
|------------------------|---|---|---|---|
| UPGRADE OPTIONS |  |  |  |  |
| | <p>Dual-Functionality System</p> <p>By adding the Javelin spinner system, you can add the ability to drive wider intervals, spread wider swaths, and top dress, all with the same machine.</p> | <p>Section Control</p> <p>BBI Section Control's economic benefits go hand-in-hand with environmental advantages by reducing spread pattern overlap in the field and on headlands, as well as reducing or eliminating over spread on fence rows, buffer strips and waterways.</p> | <p>High Duty Cycle Hydraulic Package</p> <p>The high duty cycle package is suited for high-capacity commercial operations demanding longer periods of spreading. This system boasts increased hydraulic efficiency, improving spinner speed and torque over the standard BBI hydraulics.</p> | <p>Multi-Hopper Bin System</p> <p>The patented multi-hopper design enables three hoppers to operate independently, all controlled by variable-rate technology.</p> |

SALFORD BBI MagnaSpread (Fertilizer / Lime) - Working Width - Fertilizer 80 feet +, Lime 60 feet

| Hopper Capacity and Material | | | | | | | | |
|------------------------------|--|--|---|---|---|---|---------------------------------------|---------------------------------------|
| Hopper Length | 10 feet High Clearance | 12 feet High Clearance | 10 feet | 12 feet | 14 feet | 16 feet | 18 feet | 20 feet |
| Capacity | 210 cubic feet | 282 cubic feet | 235 cubic feet | 282 cubic feet | 294 cubic feet | 336 cubic feet | 432 cubic feet | 480 cubic feet |
| Hopper Material | Standard: 304 Stainless Steel Optional: Painted 409 Stainless Steel | | | | | | | |
| Drive, Chain and Spinners | | | | | | | | |
| Drive | Standard: PTO Driven 1000 rpm Self-Contained System, BBI Binary Manifold & Tandem Gear Case Optional: Tractor Supplied Hydraulics (requires 2 remotes, 50 GPM, max 30 per remote, 3200 psi, case drain) | | | | | | | |
| Conveyor | Standard: 20 inch Stainless Steel Mesh Chain | Standard: 20 inch Belt Over Bar Chain | Standard: 20 inch Stainless Steel Mesh Chain | Standard: 20 inch Stainless Steel Mesh Chain | Standard: 30 inch Belt Over Bar Chain | Standard: 30 inch Belt Over Bar Chain | Standard: 30 inch Belt Over Bar Chain | Standard: 30 inch Belt Over Bar Chain |
| | Optional: 20 inch Bar Chain | Optional: 20 inch Mesh Chain | Optional: 20 inch Belt Over Bar Chain | Optional: 20 inch Belt Over Bar Chain | Optional: 20 inch Stainless Steel Mesh Chain | Optional: 20 inch Stainless Steel Mesh Chain | Optional: 18 inch Straight Belt | Optional: 18 inch Straight Belt |
| | | Optional Section Control: Two 10 inch Mesh Chain | | | | | Optional: 20 inch Straight Belt | Optional: 20 inch Straight Belt |
| Spinner Construction | Stainless Steel Spinners and Fins | | | | | | | |
| Spinner Type | Standard: MagnaSpread (Lime 60 feet, Fertilizer 80 feet +) Optional: Javelin (Urea 120 feet) | | | | | | | |
| Hy-Torque Manifold | Standard: Increases available spinner torque | | | | | | | |
| GR Valve | Standard: Designed to double the available conveyor speed | | | | | | | |
| Tires and Suspension | | | | | | | | |
| Suspension | 24,000 lb high clearance axle | 24,000 lb high-clearance adjustable axle Standard: 90 - 120 inches Optional: 80 - 110 inches | Standard: 10,000 lb torsion flex tandem axle Optional: 10 ton walking beam | Standard: 10,000 lb torsion flex tandem axle Optional: 10 ton walking beam | Standard: 14 ton walking beam Optional: 20 ton walking beam | Standard: 14 ton walking beam Optional: 20 ton walking beam | Standard: 20 ton walking beam | Standard: 20 ton walking beam |
| Tires | Standard: 440 80R 28 Optional: 11.25 x 28 | 380/90R46 Row Crop Tire | Standard: 16.5L x 15 Optional: 21.5L x 16.1* Optional: 500/45-22.5 | Standard: 16.5L x 15 Optional: 21.5L x 16.1* Optional: 500/45-22.5 | Standard: 550/60-22.5 Optional: 800/65-32* *800 tire on 20 ton walking beam | Standard: 550/60-22.5 Optional: 800/65-32* *800 tire on 20 ton walking beam | Standard: 800/65-32 | Standard: 800/65-32 |
| Track Width | 72 inches (call for options) | Standard: 90 - 120 inches Optional: 80 - 110 inches | | | | | | |
| Features and Options | | | | | | | | |
| Light Kit | Standard feature | | | | | | | |
| Options | High Duty Cycle Hydraulics with Oil Cooler Hopper Extensions & Hopper V to prevent material bridging (Hopper V is standard on 14 - 20 foot models), Scales, Tarp | | | | | | | |

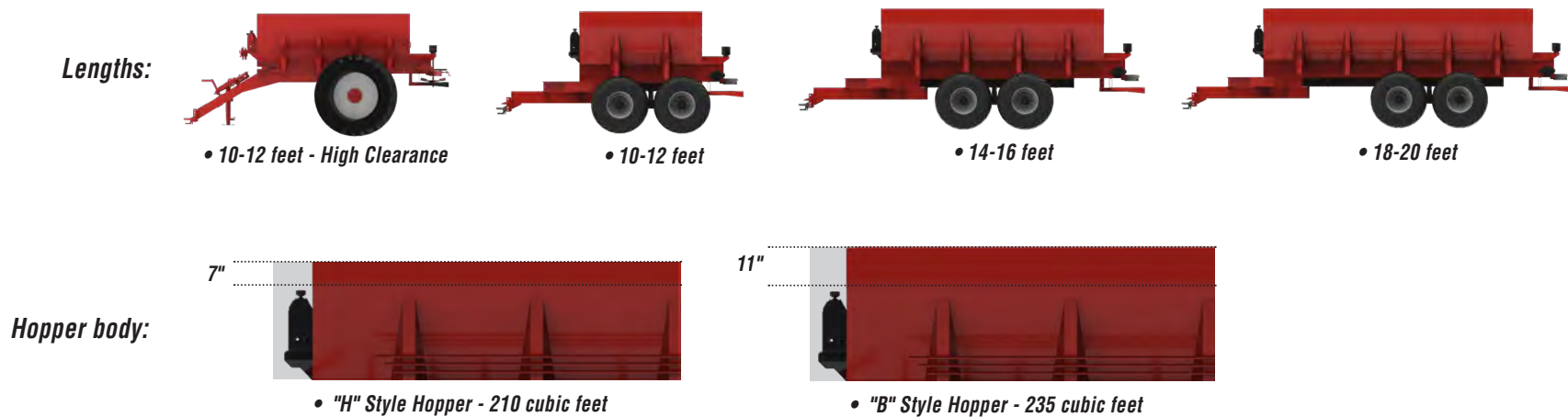
BBI MAGNASPREAD

BBI MagnaSpread - Pull-Type

The MagnaSpread pull-type spreader is the industry leader in cost-in-use, a measure of efficiency and profitability. MagnaSpread is optimized to precisely spread lime, fertilizer, and now urea, with the optional Javelin spinner system. See how the MagnaSpread pull-type spreader can be customized for your specific farming needs:



Body Size Options



MOUNTED OPTIONS



- 1 Bolt-On, Interchangeable Spinners**
Standard: MagnaSpread Spinners — offer true driving intervals, reducing swath overlap (driving interval of 60 feet with Lime, 80 feet with Fertilizer).
Optional: Javelin Spinners— offer the widest swath for urea in the industry (driving interval of 120 feet with Urea).
- 2 Optional Section Control**
Apply material in a full swath, to the left only, or solely to the right of the spreader, using split conveyor chains and independent spinner control.
- 3 Multi-Hopper Offerings**
Multi-hopper spreaders can be used to vary the rate of N, P and K in one pass, with higher accuracy in fewer passes. Multi-hoppers can also be used to blend multiple fertilizers, micronutrients and/or cover crops.
 - Hopper construction in carbon steel, 304 stainless steel or 409 painted stainless steel
 - Wide array of hopper sizes for range of capacity and special clearance options



Options for Self-Propelled Equipment

Whether you are driving a floater chassis, high-clearance chassis or ag truck, MagnaSpread unit mount options will maximize your total application investment with the most efficient, versatile and advanced spreader packages available in the industry.



BBI MAGNASPREAD DUAL-FUNCTIONALITY

BBI MagnaSpread Overview

Salford BBI offers two spinner packages—MagnaSpread and Javelin—built to help you achieve maximum soil productivity through precision nutrient application.

MagnaSpread, Engineered for Versatility

MagnaSpread achieves consistent swaths of 80 feet with fertilizer and 60 feet with lime. The MagnaSpread spinner system is capable of spreading lime, a wide range of fertilizers and products like gypsum and micro-nutrients.

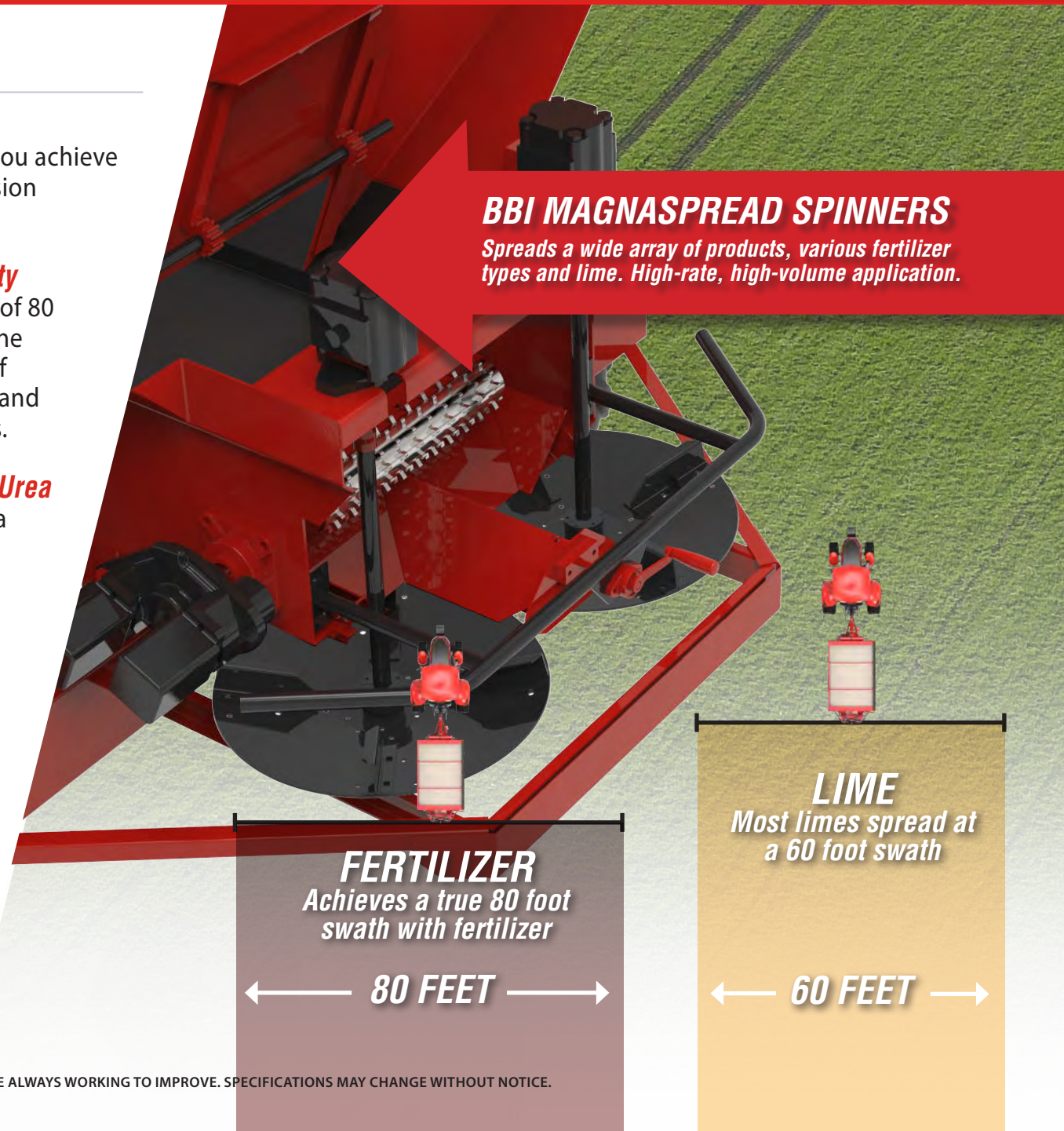
Javelin, 120 Feet Driving Interval with Urea

The Javelin spinner system is available as a bolt-on option for MagnaSpread Models.

The interchangeable spinner platform allows you to have one spreader body with the versatility of MagnaSpread and the industry-leading 120 foot urea application of Javelin spinners.

BBI MAGNASPREAD SPINNERS

Spreads a wide array of products, various fertilizer types and lime. High-rate, high-volume application.



FERTILIZER
Achieves a true 80 foot
swath with fertilizer

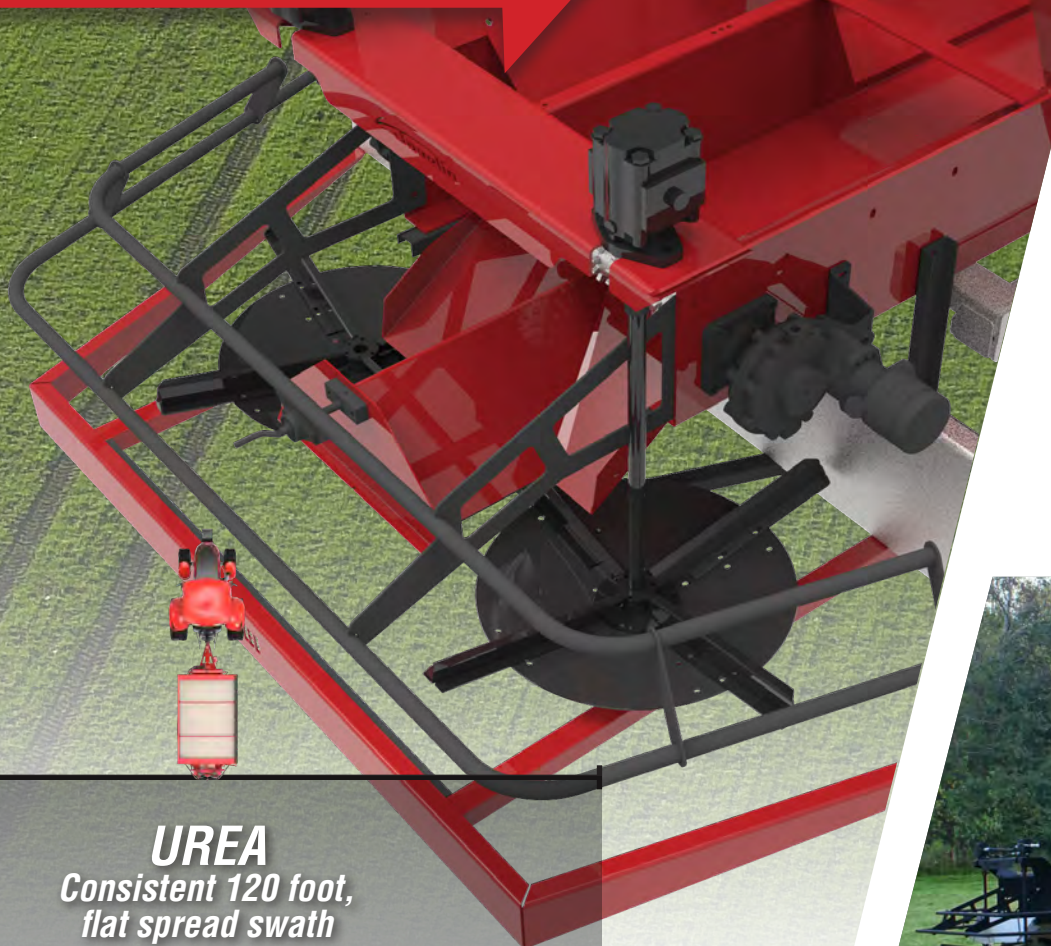
← 80 FEET →

LIME
Most limes spread at
a 60 foot swath

← 60 FEET →

BBI JAVELIN SPINNERS

*Purpose-built urea applicator, top dress applications.
Mid to low range application rates.*



UREA
*Consistent 120 foot,
flat spread swath*

← 120 FEET →

Section Control

Select MagnaSpread models can be equipped with section control. Section Control allows for greater application control in the field—spread material in a full swath, to the left only, or solely to the right of the spreader, using split conveyor chains. Reduce material overlap and outright waste, and conserve bordering land and water.

Interchangeable Spinner System

Salford spinner systems are bolted on the BBI MagnaSpread models. Order your MagnaSpread with each spinner system to take advantage of maximum spreading versatility.



BBI MAGNASPREAD SECTION CONTROL

Industry-Leading Precision, Efficiency and Sustainability

The BBI section control option for select MagnaSpread models, is the result of taking years of experience with split-chain conveyor systems in orchard/vineyard application and combining that left/right spread pattern control with BBI's advancements in spreader hydraulics and precision application technology. BBI section control is available on select models and compatible with the MagnaSpread and Javelin spinner systems.

BBI section control delivers positive economic benefits, such as more consistent yields through precise variable rate* application and reduced material and fuel use. BBI section control's economic benefits go hand in hand with environmental advantages by reducing spread pattern overlap in the field and on headlands, as well as reducing or eliminating overspread on fence rows, buffer strips and waterways.

**Variable rate spreading is available on full width application.*

SECTION CONTROL MAXIMUM PRECISION AND EFFICIENCY



HYDRAULIC OPTIONS



High Duty Cycle Hydraulic Package

The high duty cycle hydraulics option is designed with continuous use spreading on large farms and commercial operations. The high duty cycle hydraulics option utilizes a combination of special hydraulic pumps and an oil cooler system to keep large commercial units running at optimal temperatures for longer periods of time.

The High Duty Cycle Hydraulics enhance the operation of MagnaSpread units that:

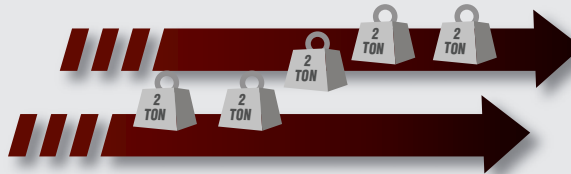
- Frequently spread large amounts of lime
- Use high-capacity spreader bodies (recommended for 16 foot bodies and larger)

The High Duty Cycle Hydraulic Package gives your spreader additional capability for:

1 Higher Spread Rates



2 Higher Ground Speeds



3 Staying Cool Longer



BBI Hydraulic Valves Options

Standard on MagnaSpread

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

Standard on MagnaSpread

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

GR Valve Option

Standard on MagnaSpread

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

BBI MAGNASPREAD 2 & 3

BBI MagnaSpread - Multi-hopper System

The MagnaSpread2 and MagnaSpread3's patented design is engineered to offer variable rate application of essential nutrients when blending the elements before spreading just is not good enough.

**Two-Bin
BBI MagnaSpread2**



**Three-Bin
BBI MagnaSpread3**



BBI MAGNASPREAD2

| | Hydraulic Pull-Type | Truck-Mount |
|--|--|--------------------------------|
| Capacity (in cubic feet, struck) | Hopper 1) 220 Hopper 2) 145 | Hopper 1) 220 Hopper 2) 145 |
| Tires | 21.5L x 16.1 Tires Optional: 550/60-22.5 Optional: 800/65R32 with 20 Ton | N/A |
| Suspension | 14 Ton Walking Beam Optional: 20 Ton Walking Beam | |
| | Tube Construction | |
| Conveyor chain | Proprietary Stainless Steel Mesh | |
| Hoppers | 304 Stainless Steel | 304 Stainless Steel |
| | Patented Delivery System | Patented Delivery System |
| Hydraulics | Self-Contained | Self-Contained |
| | Tractor-Supplied | Tractor-Supplied |

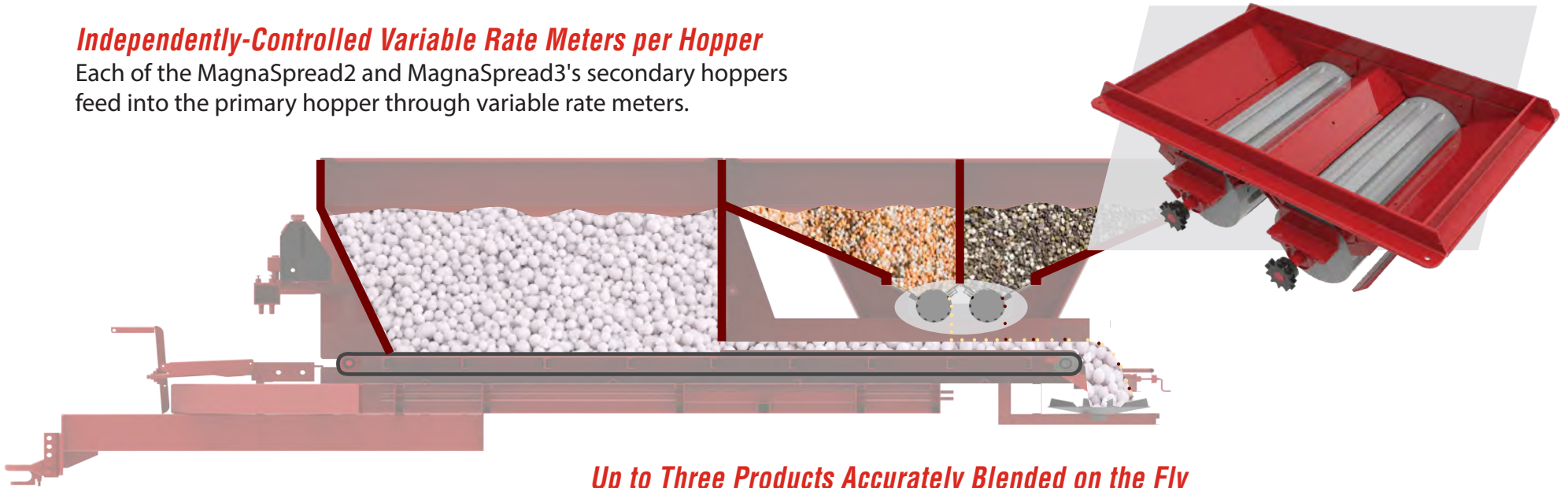
BBI MAGNASPREAD3

| | Hydraulic Pull-Type | Truck-Mount |
|--|--|---|
| Capacity (in cubic feet, struck) | Hopper 1) 210 Hopper 2) 84 Hopper 3) 84 | Hopper 1) 210 Hopper 2) 84 Hopper 3) 84 |
| Tires | 21.5L x 16.1 Tires Optional: 550/60-22.5 Optional: 800/65R32 with 20 Ton | N/A |
| Suspension | 14 Ton Walking Beam Optional: 20 Ton Walking Beam | |
| | Trailer Frame - Tube Construction, Hydraulic tube-in-frame | |
| Conveyor | Mesh Chain | Mesh Chain |
| Hoppers | 304 Stainless Steel | 304 Stainless Steel |
| | Patented Delivery System | Patented Delivery System |
| Hydraulics | Self-Contained | Self-Contained |
| | Tractor-Supplied | Tractor-Supplied |

Variable Rate Application of Multiple Products

Independently-Controlled Variable Rate Meters per Hopper

Each of the MagnaSpread2 and MagnaSpread3's secondary hoppers feed into the primary hopper through variable rate meters.



Up to Three Products Accurately Blended on the Fly

With each hopper having its own metering system, up to three products can be independently controlled and blended on the fly for precise variable rate application.

// We're very surprised and impressed with how simple it is to setup. It probably took us about 10 minutes to calibrate each box on that spreader. With one person it took about 10 minutes a box to calibrate it, and with two people, you could do it in less time. **It's well-built, and I think if you had any issues with any components, it's all very easy to get at.** Everything is out in the open which made service easier. When you're all done with it, or if you're not going to use for a few days, it's very easy to clean up. And the quality of the material is very good. **I'm really impressed with the uniformity... it spreads 80ft wide and overlaps very little, and the amount it does overlap, you really have to check closely for.**

We have some fields that have quite a bit of variability. I've walked over it and I'm very impressed with the uniformity of the spread on this machine. As time goes on we'll see the long term performance of this unit but like I say, it's well-built, the material is all heavy on it, and I don't foresee any problems with it. As long as we maintain it and take care of it, it should last a long time."

— **Tony & Jonathan DeBruyn**

Owner of MagnaSpread3 / Corn, Soy Beans and Wheat

Spread 3,200 acres in first season, variable rate from each of the 3 product bins