

Precision Fertilizer Spreaders



[www.KuhnNorthAmerica.com](http://www.KuhnNorthAmerica.com)

**AXIS®**

40.2 / 50.2 H-EMC-W



**Invest in Quality®**





AXIS® 40.2 / 50.2 H-EMC-W

# UNEQUALED SPREADING PRECISION!

## REDUCE COSTS, INCREASE YIELDS

Controlling your application rate helps you maximize crop yield while minimizing your expenses and environmental impact. KUHN's EMC and CDA systems are key for adapting to different needs and optimizing your return on investment under all possible circumstances.

## SIMPLE ADJUSTMENTS

Ensuring even spreading can be complicated. KUHN provides electronic solutions to simplify and automate this process. Our focus is on easy adjustments to save you time and avoid errors.

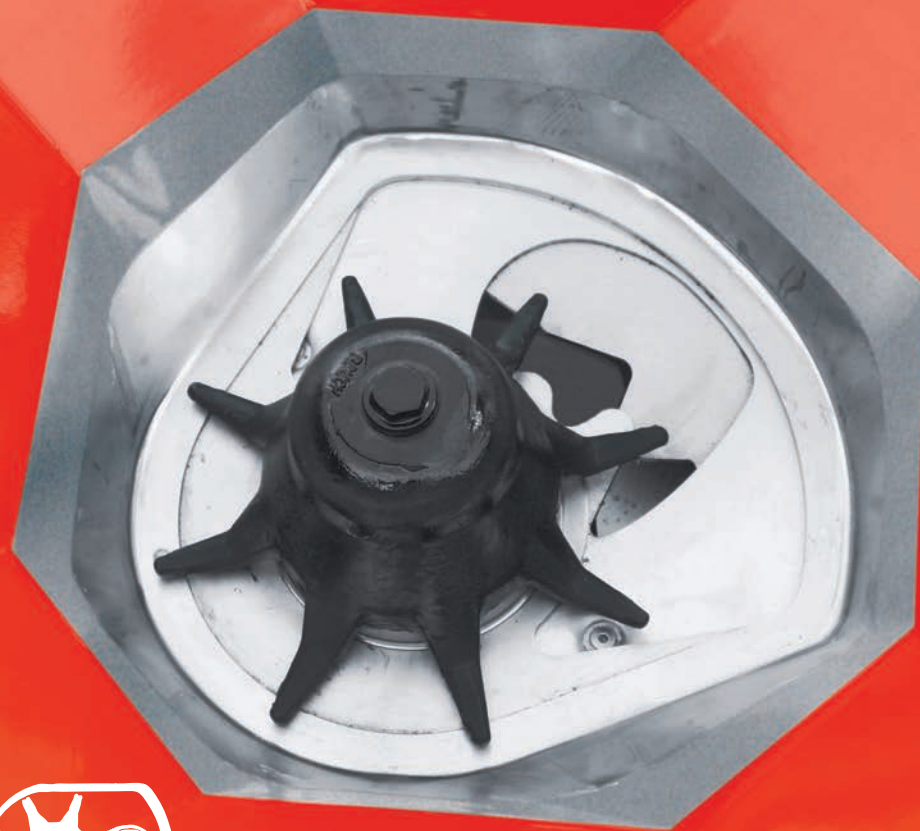
## MAXIMUM ACCURACY

Unique KUHN solutions provide absolute spreading precision: CDA distribution, GPS control, and EMC technology for automatic adaptation of the application rate during spreading are unrivaled in the industry.

## AXIS® PRECISION FERTILIZER SPREADERS in brief

Models	Working Widths	Max. Capacity	Control Terminal
Axis 40.2 H-EMC-W	59' – 138'	112 cu. ft.	ISOBUS
Axis 50.2 H-EMC-W	59' – 164'	148 cu. ft.	ISOBUS





# SIMPLE AND PRECISE

## SET THE WORKING WIDTH WITH JUST ONE CLICK

You can modify the working width in a few seconds by simply changing the drop point of the fertilizer onto the disc. This is done without any tools by pivoting the base – from the cab on the Axis 40.2 and 50.2 H-EMC-W. No paddles have to be adjusted and no manual contact with the fertilizer is required.

## COMPLETE FLEXIBILITY OF APPLICATION

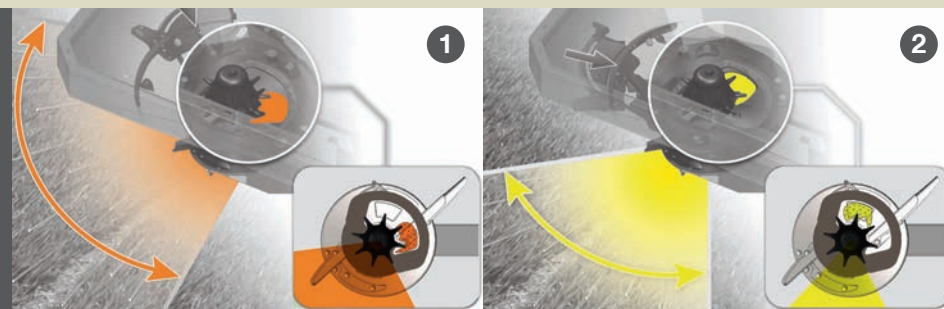
Different fertilizers, variable application rates, multiple working widths – your fertilizer spreader must quickly adapt to different needs. The Coaxial Distribution Adjustment (CDA) system, part of every KUHN Axis® spreader, helps meet these challenges while providing easy adjustments.

## CONSISTENT SPREADING

Whether you're changing the application rate, spread width or ground speed, it is critical to ensure even spreading across the entire working width. The CDA system provides the solution to ensure optimum distribution patterns.

### ROTATION OF HOPPER BASE AROUND CENTER OF DISCS

1. Position for wider working width
2. Position for narrower working width



EXCLUSIVE

# CDA: UNRIVALED ACCURACY

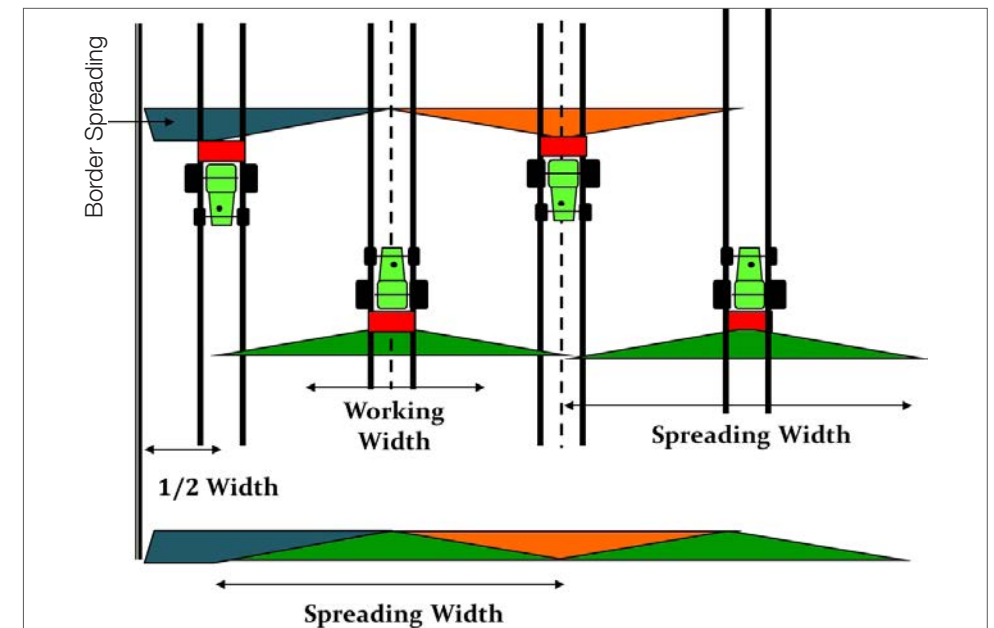
There are two important features that make the CDA system unique:

1. The pivoting hopper base enables quick adaptation to various fertilizers and working widths by adjusting the drop point of the fertilizer onto the spreading discs.
2. Specially designed metering outlets close to the center of the discs allow multiple supply points to the paddles. This helps ensure constant fertilizer flow and an even spread pattern.

## WIDE, ACCURATE SPREAD PATTERNS IN ALL CONDITIONS

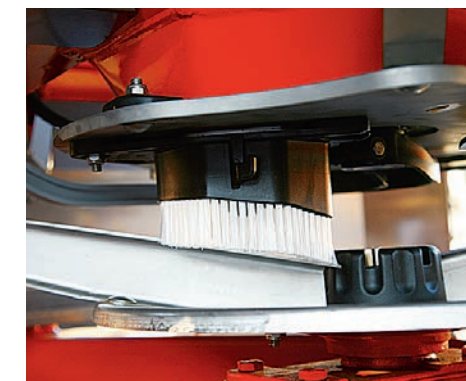
The CDA system creates triangular spread patterns, where the total spreading width is actually much wider than the set working width. The next pass "fills in" the edges of the triangle for even distribution across the field. In breezy conditions, the wide triangular patterns greatly reduce the risk of unfertilized strips of crop.

In border spreading mode, the side nearest the boundary reduces the drop point and disc speed to keep fertilizer in the field and out of sensitive areas. This gives dual advantages of lowering both fertilizer costs and environmental impact.



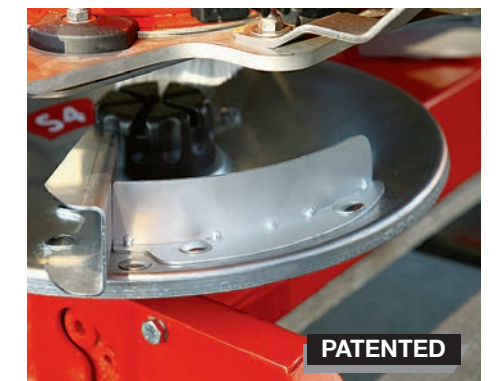
## EXTRA-SLOW AGITATOR

The agitator regulates the supply and promotes fertilizer flow. Rotating at only 17 rpm, it handles the granules gently to significantly reduce damage and prevent powder formation.



## MORE ACCURACY WITH DROP GUIDE

To ensure an accurate drop point of the fertilizer on the disc, a brush drop guide follows the fertilizer flow until it is caught by the paddles.



## REDUCED TURBULENCE

Airfin deflectors reduce turbulence generated by the rotating discs to ensure even fertilizer flow.

PATENTED



# EMC: INDEPENDENT DISC BY DISC

For two decades, KUHN fertilizer spreaders have led the industry with Electronic Mass Flow Control (EMC) technology. This innovative, award-winning system measures and continuously adjusts the application rate on each disc separately for unmatched rate-control precision. With EMC, you can rest assured that your "as applied" data map matches the targeted rate as closely as possible.



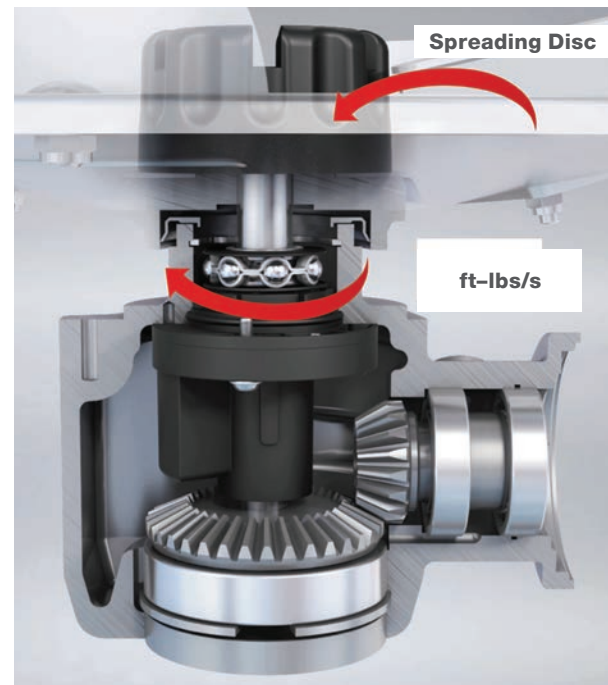
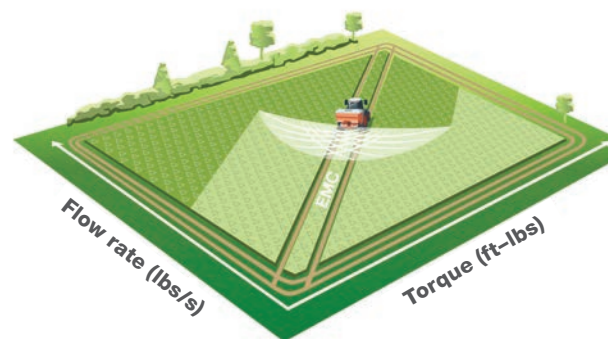
# THE INTELLIGENT FERTILIZER SPREADER

All of our industry-leading components and sensors won't do you much good without an intelligent way to control them. KUHN electronic solutions tie everything together into a smart, easy-to-use system that seamlessly integrates into your fleet.

## NO METERING COMPROMISES

Torque differences measured at the hubs of the spreading discs are proportional to the fertilizer flow rate at the metering outlets. This is independent of the type or size of fertilizer. The EMC system uses this information and carries out the following steps:

1. Current flow rate (application rate) is read via the torque sensor.
2. If measured rate differs from the targeted rate, the software automatically makes independent corrections at each metering outlet.



The electro-magnetic torque sensor system eliminates the need for a calibration process, saving you time and hassle when switching between materials.

# KUHN Electronics



**INNOVATIVE FARMING**

## ISOBUS

### REDUCE THE NUMBER OF TERMINALS NEEDED

ISOBUS, the universal language for ag equipment electronics, allows different equipment (tractor, implement, data management program) to communicate with each other. You can monitor and control different machines with one single terminal, such as the KUHN CCI 1200 or any other ISOBUS compatible terminal. This allows compatibility with all ISOBUS tractors to simplify operation.

*\*Please contact your dealer or visit [www.aef-isobus-database.org](http://www.aef-isobus-database.org) to verify third-party ISOBUS virtual terminal capabilities. Software by provider may be required for premium features.*



## MORE ADVANTAGES

1. Individual adjustment of left and right disc every second for more accuracy with variable-rate spreading
2. Models are not affected by slopes or changes in forward speed
3. No flow tests required



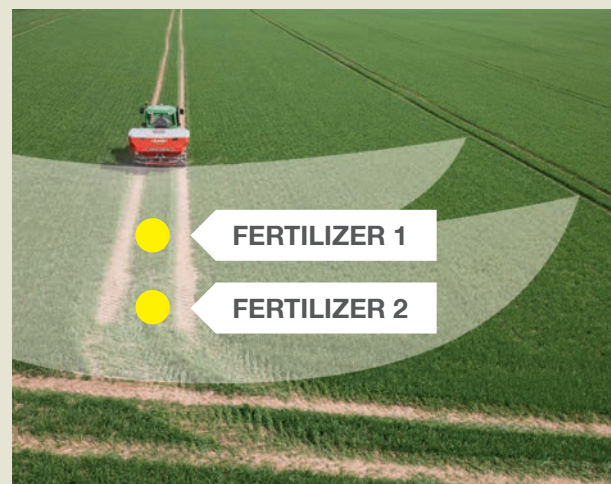
## ENGINEERED WITH PRECISION FARMING IN MIND

Precision farming uses data and technology to optimize inputs and returns while preserving resources. Innovative tools found on all Axis® H-EMC-W spreaders help you accurately implement recommendations based on historical data, while generating quality "as-applied" data for future reference. Our goal is to maximize your benefit from these tools and maintain a simple, user-friendly design.

### GPS CONTROL

GPS is the primary driving force in precision applications, pinpointing your location in the field to deliver accurate results. Connecting a compatible receiver to your ISOBUS control terminal unlocks the full capability of the Axis H-EMC-W spreader.

*\*Please contact your dealer to verify third-party ISOBUS virtual terminal capabilities. Software by provider may be required for premium features.*



Opti-Point – Ideal engagement points for different fertilizer types

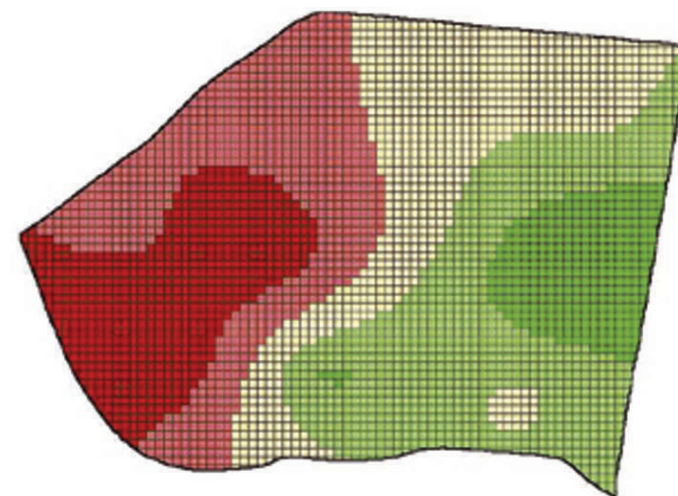


### SPREAD LIKE A PRO

Using an appropriate Section Control activation from your ISOBUS terminal supplier, Vari-Spread Pro maintains the proper working width by changing drop point and disc speed based on your location in the field. Sections on the left and right sides are shut off at the ideal moment to minimize overspreading and save input costs.

### FINDING THE IDEAL POINT TO OPEN OUTLETS

Fertilizer granules and seeds vary widely in size, shape, and aerodynamic properties. Our innovative Opti-Point software takes the guesswork out of opening and closing the metering outlets in the headlands. It automatically determines the ideal point to start and stop the flow of material according to settings made with the GPS system.



### VARIABLE RATE CAPABILITY

Variable spreading rates allow you to tailor your application to your soil's potential while saving significant amounts of fertilizer. All Axis H-EMC-W machines feature integrated rate control software from the factory, saving you the cost of installing a third-party rate controller. Our CCI family of terminals also accepts prescription maps in ISOXML or .shp file formats. Carrying out data driven spreading recommendations from your agronomist or farm management program is as easy as inserting a USB flash drive into your KUHN or compatible third-party ISOBUS terminal.



# INDIVIDUAL FERTILIZER CONTROL FOR EACH SIDE

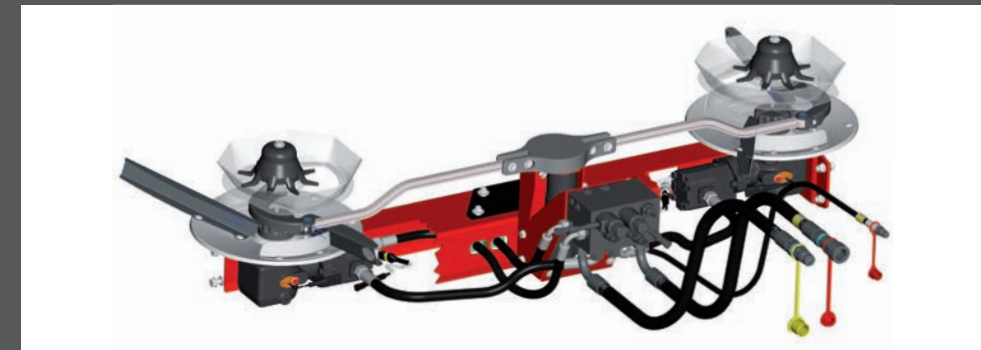
The Axis® H-EMC-W range offers a unique combination of innovative technologies to maximize precision and return on investment for your modern, progressive operation. Premium standard features include CDA distribution, ISOBUS options, hydraulic disc drive and integration of EMC technology for adjusting the application rate separately and continuously for each disc. Additionally, border spreading can be accomplished on either side by changing drop point and disc speed.

These machines are designed for precise spreading without the need for manual adjustments – you can simply concentrate on operating the tractor.



## BUILT TO LAST

All of our fertilizer spreaders are made with high-quality materials and finishes to ensure a long-lasting return on your investment. All metering and spreading components are stainless steel, while the main frame and hopper body have a multi-step powder coat finish to resist rust, fading and cracking.



## INDEPENDENT DISC SPEED

The hydraulic drive keeps the speed of the discs independent of each other and the engine or ground speed of the tractor. Low power requirements allow reduced engine speed, helping you save fuel. All disc speed changes are handled by the spreader's integrated software.



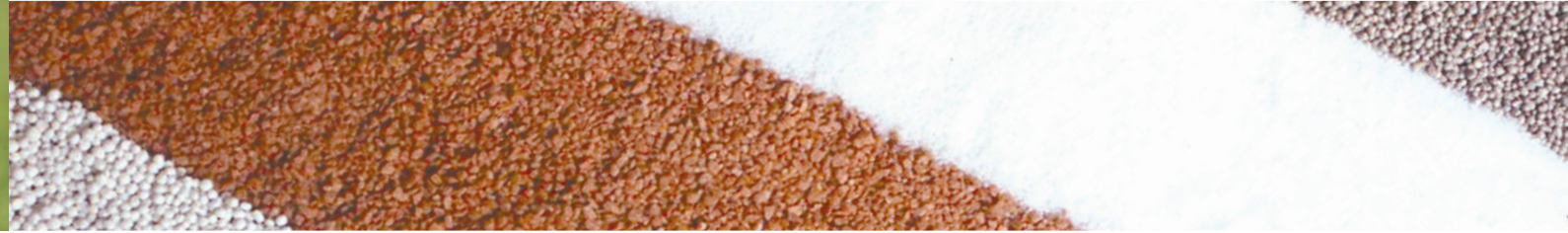
## WEIGH SCALES

All Axis 40.2/50.2 H-EMC-W models feature weigh scales as standard. Scales assist with recording and documentation of applied nutrients, while informing the operator of the remaining material quantity in the hopper.



# OPTIONAL EQUIPMENT

# MAXIMIZE YOUR PERFORMANCE



### PRACTICAL PARKING WHEEL

To allow more flexibility during attaching and detaching of your spreader, an optional parking wheel set is available. When the spreader is mounted to the tractor, the wheels can be stored out of the way.



### QUICK HITCH

For 50.2 models, Quick Hitch brackets are available to allow the spreader to be attached to CAT 3/4N Quick Hitches that meet current ASABE specifications. Mounting to a Quick Hitch will move the spreader rearward approximately 12" and additional front weight is advised for ballasting.



### SPREADLIGHT

This set of lights (circled) mounts to each side of the machine and lights up the width of the spread pattern. Controlled in the cab via the ISOBUS display, you can keep an eye on the field long after the sun goes down.



### HOPPER COVER

All Axis 40.2 and 50.2 models feature a retractable hopper cover as standard to protect the fertilizer from moisture. The available electric control kit allows you to open and close the cover from the cab, saving time-consuming trips in and out of the tractor while reloading.

### AXIS® AC 100 CART

The AC 100 Cart is a separate option to further enhance the versatility of any Axis spreader. The "hook and go" drawbar connection saves time, increases comfort, and allows tractors with lighter-duty hitches to safely utilize the machine. If a particular application calls for a mounted spreader, the Axis is easily removed from the cart. Single-axle versions have a track width adjustable from 80 – 90", while tandem axle models offer fixed 90" spacing.



### IDENTIFY YOUR FERTILIZER FOR PROPER SPREADING

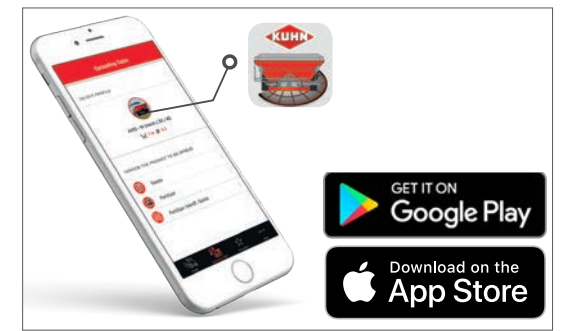
For fertilizer of unknown origin, the KUHN-exclusive visual identification guide classifies the different varieties of fertilizer by category, helping you recognize the product and determine the optimal baseline machine settings.

All Axis spreaders include printed charts and identification guides as standard.



### SPREADSET MOBILE APP

This convenient solution puts all of the information from the printed identification charts and setup guides into your pocket. When new fertilizers are released, you will have the settings available immediately.



## GENUINE KUHN PARTS®

No part better fits a KUHN machine than an original KUHN part

Here at KUHN, we produce spare parts built to last in our very own foundries, our forges and our ultra-modern production facilities. You can trust in our longstanding know-how, based on almost two centuries of experience. With KUHN Parts, you can be assured of the highest quality parts and customer service in the agriculture equipment industry. Seven distribution centers, located strategically throughout North America, ensure that KUHN, KUHN Knight and KUHN Krause dealers have access to parts and assistance so you can get back in the tractor.



INVEST IN QUALITY®



# RESPONSIBLE FERTILIZER INCORPORATION

Use of fertilizer is essential in achieving profitable crop yields; however, the environmental sensitivity to the management of these fertilizers has never been more evident or in the public eye.

Environmental conservation and your profitability are equally important components of long-term sustainable production agriculture. We, at Kuhn North America, are proud partners of 4R Nutrient Stewardship as an effective means to both ends. Applying the right products at the right rate, at the right time, and in the right place keeps fertilizer out of sensitive areas while putting money into your pocket through reduced input costs and increased yield. Our Axis® precision fertilizer spreaders help you effortlessly incorporate the 4R principles into your operation.



**Right Source:** Axis spreaders can apply a wide variety of granular materials, so you can match the type of fertilizer to the needs of the crop. Additionally, spreading cover crop seed with an Axis assists with nutrient retention beyond the growing season.

**Right Rate:** No other broadcast spreader on the market better matches the amount of fertilizer to what the crop needs. Proven EMC technology and variable-rate software in every Axis H-EMC-W spreader ensures your "as applied" maps precisely match your prescription maps.

**Right Time:** Whether applying just prior to planting or side-dressing emerged crop with our higher hitch-attachment point, owning an Axis spreader puts you in control of making nutrients available when the crop needs them.

**Right Place:** Axis spreaders are packed with technology to keep nutrients where the crop can use them and out of waterways. Opti-Point and Vari-Spread Pro technology reduces over-application within the field, while two modes of border control nearly eliminate spreading beyond your set field boundaries.



**RIGHT SOURCE**

Matches fertilizer type to crop needs.



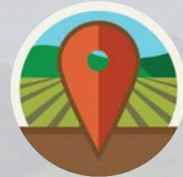
**RIGHT RATE**

Matches amount of fertilizer to crop needs.



**RIGHT TIME**

Makes nutrients available when crops need them.



**RIGHT PLACE**

Keeps nutrients where crops can use them.

## Model Specifications

	Axis 40.2 H-EMC-W	Axis 50.2 H-EMC-W
Hitch Type	Cat. 2	Cat. 3, 4N (QH Brackets Optional)
Drive System	Hydraulic	
Max. Capacity	112 cu. ft. (3,200 L)	148 cu. ft. (4,200 L)
Working Width	39' – 138' (12 – 42 m)	59' – 164' (18 – 50 m)
Standard Spreading Discs	S6 VXR+	
Section Control Capability	Standard – Vari-Spread Pro*	
Application Rate Adjustment	Up to 1,100 lbs (500 kg)/min	
Metering Outlet Control	Speed Servos	
Min. Filling Height	62" (157 cm)	67" (170 cm)
Min. Hydraulic Capacity Required	12 GPM at 2,610 PSI (45 L/min at 180 bar)	17.5 GPM at 2,610 PSI (66 L/min at 180 bar)
Required Hydraulic Connections	1 DA with Free Return or Direct Connection to Load Sensing	
Border Spreading	Two modes - independent for each disc	
Weighing System	Standard	
Hopper Cover	Standard	
Hopper Level Sensors	Standard	
Control Terminal	ISOBUS (Optional Terminal Available)	
Working Width Adjustment	Automatic CDA with ISOBUS Terminal	
Road Lights and Signaling	Standard	
Fertilizer ID Cards and Spread Charts	Standard in Imperial and Metric	
Unloaded Weight (Approximate)	1,200 lbs (545 kg)	1,875 lbs (852 kg)
Maximum Net Load (Hopper Contents)	7,050 lbs (3,205 kg)	9,260 lbs (4,209 kg)

\*Requires Section Control activation from controlling ISOBUS terminal

## Spreading Discs

	Spreading Width	Axis 40.2	Axis 50.2
S2 VXR+	39'–59' (12–18 m)	X	
S4 VXR+	59'–91' (18–28 m)	X	X
S6 VXR+	79'–118' (24–36 m)	X	X
S8 VXR+	98'–138' (36–42 m)	X	X
S10 VXR+	118'–157' (36–48 m)		X
S12 VXR+	137'–164' (42–50 m)		X

Values shown are approximate. Exact distance depends on material spread. Consult charts to determine disc needed for a specific material. Always use high-quality fertilizer for wide working widths.





# COMPLEMENTARY PRODUCTS

## MORE PRODUCTS TO MEET YOUR NEEDS

With over 700 models of equipment, we have the most complete implement line in the industry. Whether you have a small or large operation, we have a broad range of models and options to help fit your diverse needs.



Disc Harrows



Secondary Tillage



Vertical Tillage



Grain Drills

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Your KUHNS dealer

## KUHNS NORTH AMERICA, INC.

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1501 West Seventh Avenue - Brodhead, WI 53520

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