

## Fertilizer Spreaders

AXIS 20.2 - 30.2 - 40.2 - 50.2



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



be strong, be **KUHN**



**AXIS**

20.2

30.2

40.2

50.2

# UNEQUALLED SPREADING PRECISION!

## YOU WANT HIGH YIELDS...

Controlling your application rate helps your crop yield while monitoring your expenses. KUHN's CDA distribution system is the key for adapting to different requirements, thus optimizing your yield under all possible circumstances.

## MAXIMUM COMFORT...

Ensuring even spreading is a complicated operation. KUHN provides electronic solutions to assist you including modern and simple ISOBUS technology. Moreover, our focus on easy adjustments further saves your time and avoids errors.

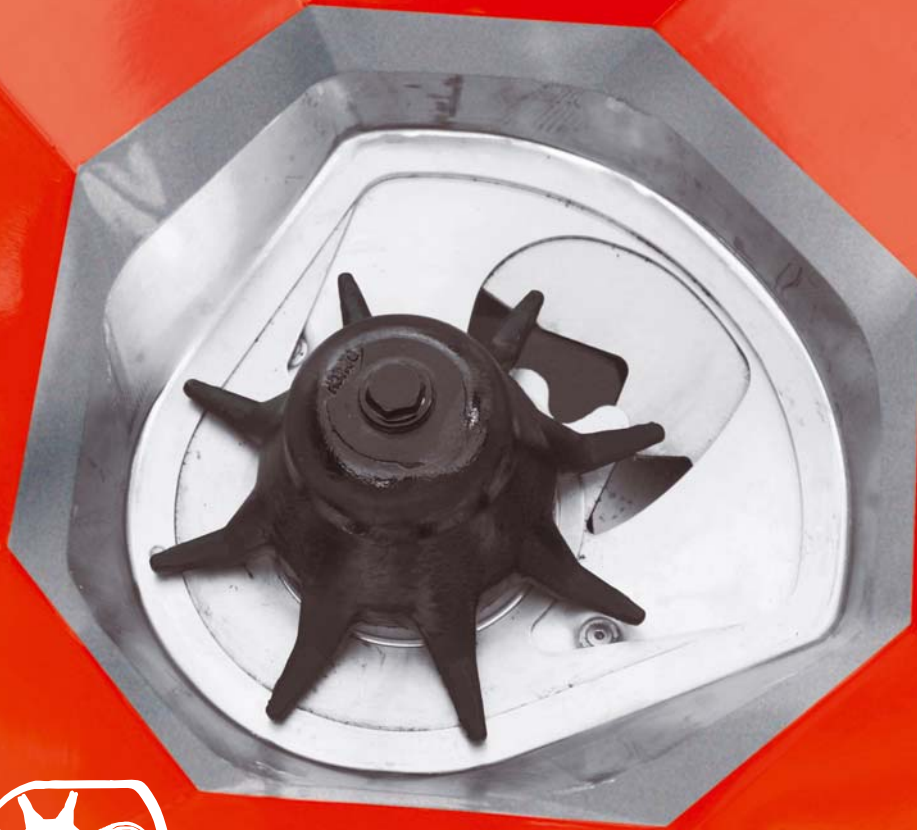
## AND A SPREADER WORKING ACCURATELY

Unique KUHN solutions cater for absolute spreading precision: CDA distribution, GPS control. KUHN's EMC technology for automatic adaptation of the application rate during spreading is unrivalled today in its precise adjustment separately for the left and right spreading disc.

## AXIS fertilizer spreaders in brief:

	Working width (m)	Min/max capacity (l)	Control box
<b>AXIS 20.2</b>	12 to 36	1,000 to 2,300	QUANTRON (on Q-model)
<b>AXIS 20.2 W / M-EMC (W)</b>	12 to 36	1,000 to 2,300	QUANTRON
<b>AXIS 30.2</b>	12 to 42	1,400 to 3,200	QUANTRON (on Q-model)
<b>AXIS 40.2</b>	12 to 42	1,400 to 3,200	QUANTRON (on Q-model)
<b>AXIS 40.2 W</b>	12 to 42	1,200 to 3,200	QUANTRON or ISOBUS
<b>AXIS 40.2 M-EMC-(W)</b>	12 to 42	1,400 to 3,200	QUANTRON or ISOBUS
<b>AXIS 40.2 H-EMC-(W)</b>	12 to 42	1,400 to 3,200	ISOBUS
<b>AXIS 50.2 W</b>	18 to 50	3,200 to 4,200	QUANTRON or ISOBUS
<b>AXIS 50.2 M-EMC-W / H-EMC-W</b>	12 to 50	3,200 to 4,200	ISOBUS





# PRECISE, SIMPLE AND GENTLE

## COMPLETE FLEXIBILITY OF APPLICATION...

Variable fertilizers, differing application rates, changing working widths...fertilizer spreaders must easily adapt to different requirements. The CDA system, part of the entire AXIS range, meets these goals while providing ultra-easy adjustments.

## ...WHILE EVEN SPREADING IS NO ISSUE

How to ensure even spreading across the whole working width even when changing the application rate, the working width or the ground speed, is a big issue for KUHN. The CDA system provides the conditions to ensure optimum lateral distribution patterns.

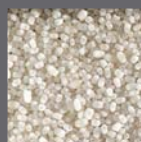
UREA



KMg



AMMONIUM  
SULFATE



CAN



NPK



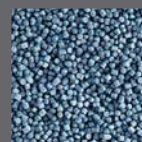
PK



MOUSE BAIT



SLUG PELLETS



FINE SEEDS



# CDA: AN UNRIVALLED SYSTEM

There are two important features, which make the CDA (coaxial distribution adjustment) system unique:

1. The pivoting hopper base, which enables a quick adaptation to various fertilizers and working widths by adjusting the drop point.
2. Metering outlets of special design close to the disc centre, allowing a multiple supply to the vanes, thus ensuring a constant fertilizer flow and even spreading.

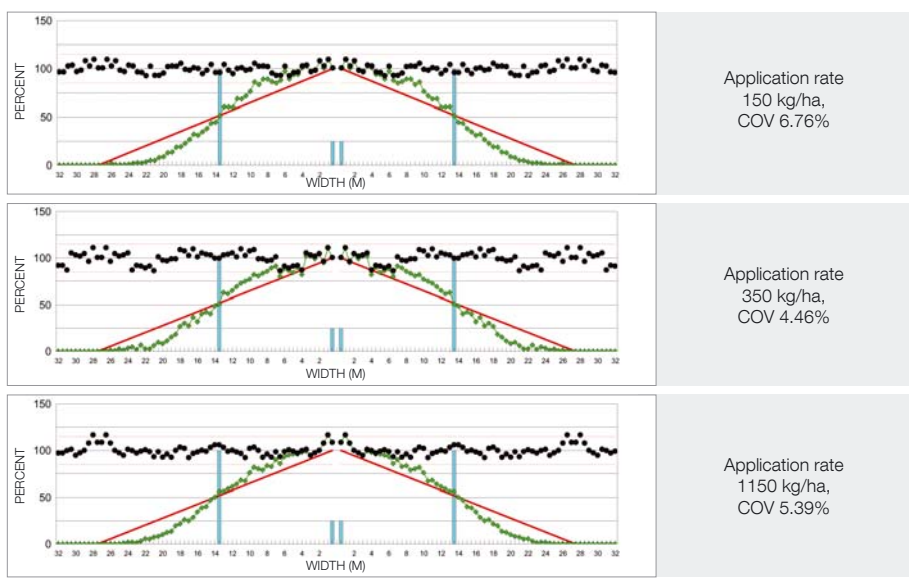


## THE RIGHT DOSE AT THE RIGHT PLACE

AXIS are the only fertilizer spreaders on the market, which prevent the so-called dose effect, meaning the modification of lateral distribution patterns across the whole width after application rate adjustments. As farmer, you are completely flexible in changing the spreader configuration and can still rely on an unmatched spreading evenness. Check it with the practical test set!

## VARYING APPLICATION RATES HAVE NO INFLUENCE

With the CDA-system, lateral distribution patterns are very regular and precise with large overlap areas and variation coefficients unbeatably low. Also different application rates or travel speeds have no negative effect on fertilizer distribution, as you can see on the diagrams.

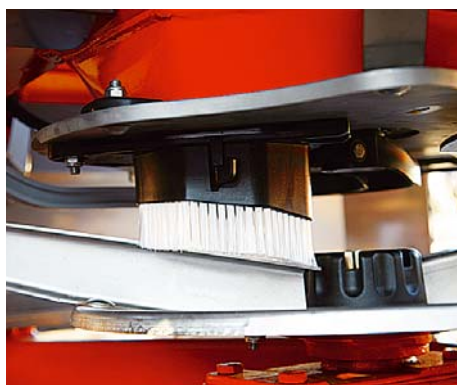


## PRECISE SPREADING PATTERNS. OPTIMUM NUTRIENT SUPPLY.



### EXTRA-SLOW AGITATOR

The agitator regulates the disc supply and promotes fertilizer flow. Rotating at only 17rpm. It treats the granules especially gentle.



### MORE ACCURACY WITH DROP GUIDE

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



### PATENT

### REDUCE TURBULENCES

AIRFIN deflectors reduce turbulences, which are generated by the rotating discs, thus ensuring an even fertilizer flow.



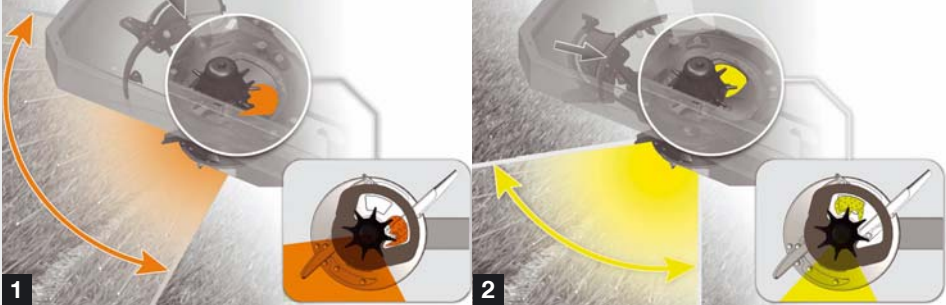
**SET WORKING WIDTH WITH JUST ONE CLICK!**

You 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 (manually or from the cab on all AXIS models with drop point actuator). No vanes have to be adjusted, no manual contact with the fertilizer is necessary!



**ROTATION OF HOPPER BASE AROUND DISC CENTER**

- 1. position for wide working width
- 2. position for narrow working width



**EXCLUSIVE**

**SETTING APPLICATION RATE INTUITIVELY**

Using the DFC (Direct Flow Control) graduated scale to modify the application rate on non-electronic spreaders (AXIS K/D/C) is very easy. After flow control, you can directly change the rates proportionally. Example: Increasing your application rate by 10 % means to enlarge the outlet also by 10 %.



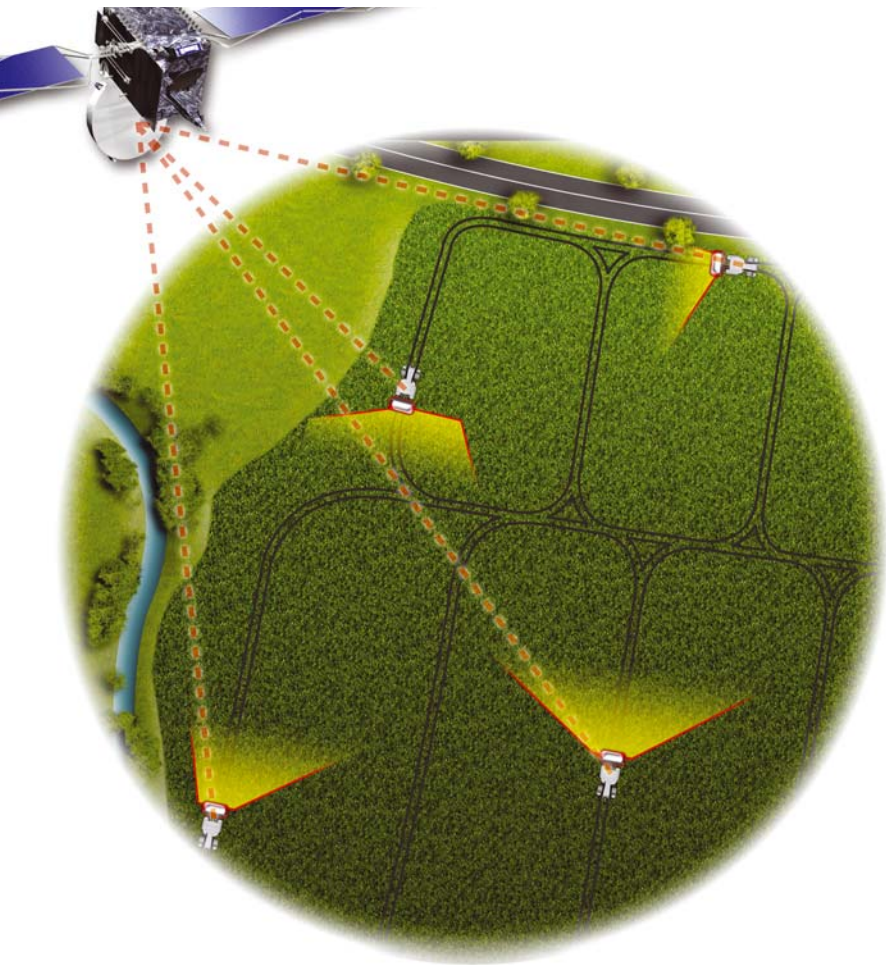
**SPREAD UP TO 500KG PER MINUTE!**

AXIS spreaders have been designed for working very precise at high travel speeds. Small application rates from 3kg/ha up to impressive 500kg/min are possible. This is equivalent to 500kg/ha at 36m with 16.5kph and at 24m with 25kph, respectively. This clears the way for considerable cost reductions and increasing daily outputs. High-speed spreading and fuel savings: any more demands?



# KUHN Electronics

INNOVATIVE FARMING



## THE INTELLIGENT FERTILIZER SPREADER

KUHN electronic solutions for AXIS fertilizer spreaders, both ISOBUS and non-ISOBUS, make use of versatile possibilities to increase spreading accuracy as well as the driver's comfort. Don't hesitate to discover the future of farming.

### QUANTRON A/E-2:

#### YOUR SPREADING ASSISTANTS

QUANTRON control boxes are the electronic fertilizer metering solutions for the entire AXIS family. They regulate the opening position of the metering outlets and therefore the flow rate (D.P.A.E. electronic device) depending on the groundspeed. In this way the pre-set application rate is always retained. During spreading, the driver is able to:

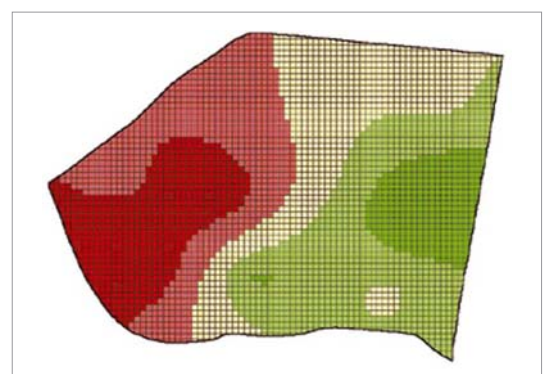
- modify the application rate while driving,
- switch part-widths for either side,
- close simultaneously either side via a button.

A work counter for 200 fields and integrated spreading charts are additional features.

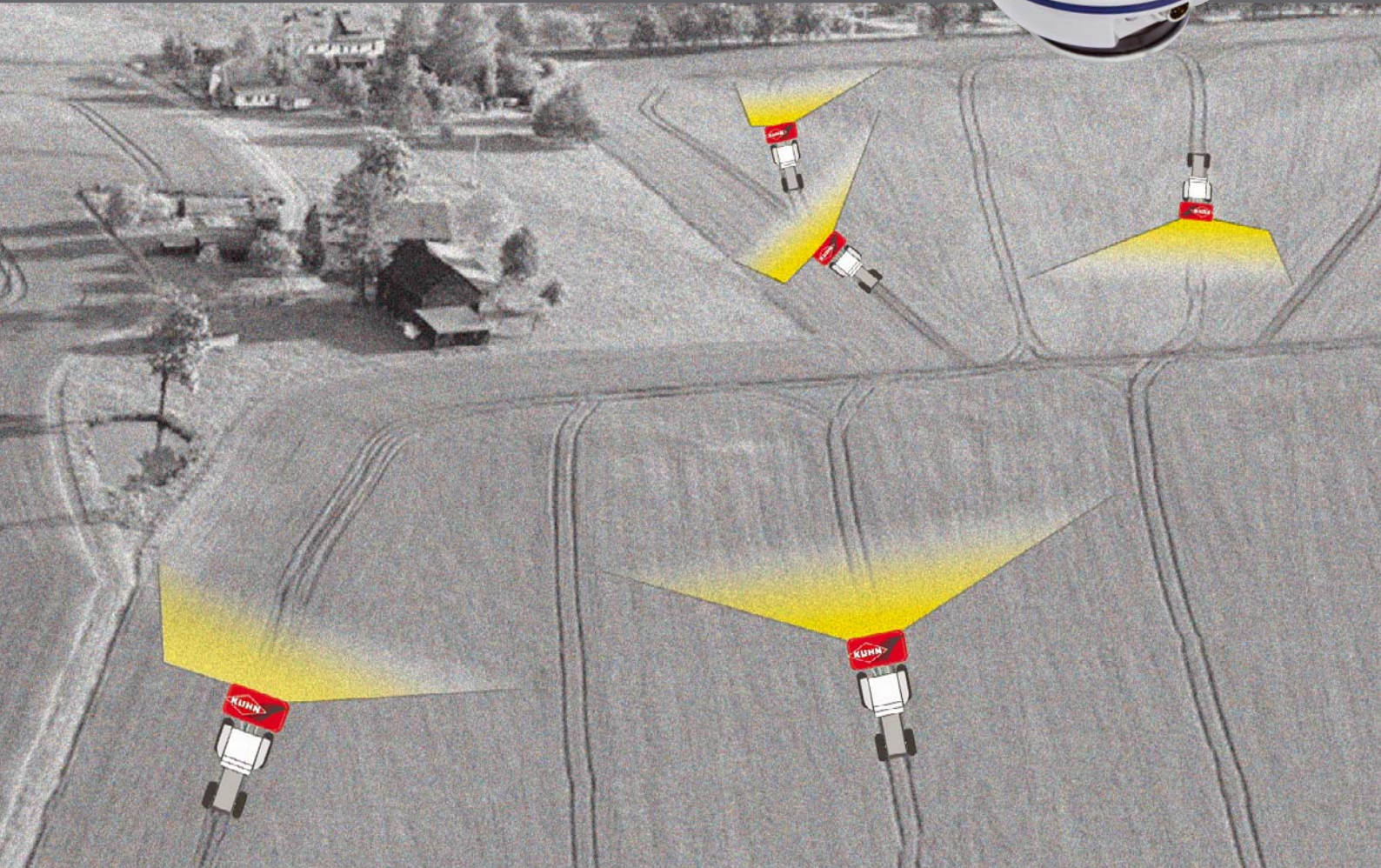
Useful for machinery rings or contractors: They can be used on several tractors!

#### HAVING THE FUTURE ALREADY ON BOARD

The QUANTRON A and E-2 control terminals are equipped for variable-rate applications using application maps in Shape- or ISOXML-format. Therefore, they can be connected to GPS control boxes via a RS 232 cable. John Deere, Trimble, Sat Plan, RDS, Raven, Agrom, TopCon...they are compatible with many boxes to modulate application rates automatically! In this way, the application maps and machine functions can also be displayed separately on the two screens.



# GPS CONTROL READY



## WORKING PRECISELY IN FIELD POINTS

With VARISPREAD the driver can adjust the working width and application rate in field points and along uneven field borders easily and quickly during work by pressing one button. The result: maximum comfort and highest possible precision.

## VARISPREAD V4

All AXIS fertilizer spreaders coming with QUANTRON A or E-2 as well as the manual CDA distribution adjustment are equipped as standard with section control VARISPREAD V4. By changing the metering outlets from the cab, two part-widths are possible for each side.

## VARISPREAD DYNAMIC:

### DON'T THINK IN SECTIONS ANYMORE!

This special section control system adapts working width and application rate gradually and fully automated according to the shape of the plot. Very reactive electrical valves determine the drop point at high groundspeeds and therefore quickly adjust the application area. Moreover, you have the choice to spread from the outside to the inside or vice versa.

8 The result: highest possible precision in all field shapes and at high speeds!



GPS control includes all KUHN solutions for automatic opening/closing of metering outlets on headlands or field points (Section Control) in order to optimize the fertilizer distribution. It can be used for spreaders with electronically controlled metering slides, including all AXIS Q-, W- and EMC-models with according control boxes (QUANTRON A, E-2 or CCI 200 ISOBUS), combined with an EGNOS GPS signal.



Ideal switch points for different fertilizer types

## FINDING IDEAL POINT TO OPEN SLIDES ON HEADLANDS

On headlands most farmers always start spreading at the same moment, though each type of fertilizer has different ballistic properties. OPTIPOINT is a programme that automatically determines the ideal point of opening and closing the metering outlets with GPS support for each type separately.

Spraying distances vary according to fertilizer type and granule shape (up left to low right: ammonium nitrate, phosphorus, potassium, urea).



**Nino Chio**  
Italy, 170ha of mainly rice and grain maize

“We choose to adjust our fertilizer inputs based on application maps. Here, some soil areas are very rich in organic matter and we want to apply our fertilizer on well-defined areas. This allows us to make significant fertilizer savings, like for phosphorus, potassium and nitrogen. That is why we needed a machine that allows us to precisely apply the previously set application rates. We have already owned a KUHN fertilizer spreader before as it is the best fertilizer spreader for Precision Farming. We rely on our AXIS, which is able to handle our application maps and which directly and automatically proceeds with the adequate adjustments.”

# AS SIMPLE AS ISOBUS CAN BE



As founding member of CCI Competence Center ISOBUS, KUHN is able to support you to quickly and comfortably pass on to ISOBUS technology, only needing one single control box to monitor and adjust different ISOBUS machines.

Following AXIS models are fitted as standard with integrated ISOBUS job computer technology:

- AXIS 40.2 W ISOBUS
- AXIS 40.2 M-EMC-(W) ISOBUS
- AXIS 40.2 H-EMC-(W)
- AXIS 50.2 W ISOBUS
- AXIS 50.2 M-EMC-W
- AXIS 50.2 H-EMC-W

**AEF (AGRICULTURAL ELECTRONICS FOUNDATION)**



KUHN is also member of the AEF organisation, who aims to define and develop the ISOBUS norm together with manufacturers. Several functions have been defined (ex.: section control, application rate modulation) and are available on AXIS ISOBUS spreaders. Consult your KUHN dealer to find out which functions are compatible with your AXIS as well as your ISOBUS terminal.



## REDUCE THE NUMBER OF TERMINALS IN YOUR CABIN

The KUHN CCI 200 terminal is universally usable with all ISOBUS machines. You will be able to handle your spreader intuitively thanks to the terminal's easily understandable logic, its colour touch screen and twelve soft keys make it very ergonomic in its use. The tractor ECU is integrated as well as a USB interface.

# CCI.APPS: INDIVIDUAL AND INNOVATIVE

The CCI 200 universal terminal can be upgraded and adapted with different CCI applications according to your needs. Several are included as standard, others are available as option. New applications can also be activated at a later moment: This way, you can always reconsider your choice or benefit from future developments. Ask your dealer about more details and availabilities!

## CCI.COMMAND

Via GPS, the CCI.Command application guides you on the right track and switches sections automatically. This saves on inputs and makes spreading more efficient and comfortable.

Different modules are available:



**Section Control:** manages automatically sections or variable working widths on headland and in field points, also controls VARISPREAD function;



**Parallel Tracking:** helps to drive without overlaps also with poor visibility;



## CCI.CONTROL

This app enables you to directly document and exchange data about executed measures for each field as standardized ISO-XML files. In this way you always have all necessary information to manage your farm at hand.



**Task Controller:** data can be exported as PDF file or imported in field mapping application;



**Georeferencing:** pilots variable application rates via GPS following application maps, which can be uploaded on the terminal via USB key;



**CCI.Convert:** The app can also be linked to biomass N-sensors, in order to adapt application rates "live".



## AXIS CAN ALSO BE RUN WITH YOUR TERMINAL!

AXIS ISOBUS spreaders are compatible with more than 30 ISOBUS terminals from different providers (John Deere, CNH/Trimble, Müller Elektronik, Fendt, MF, Topcon...). You may also use two terminals together in order to display the basic machine functions and an application at the same time to keep track of all information.



CCI with CCI.Command (Section Control + Parallel Tracking) + VT 50 (machine display)



**AXIS**

**20.2**

**30.2**

**40.2**

K-D-C-Q

K-D-C-Q

K-D-C-Q\*

## SIMPLE AND ACCURATE

The smaller **AXIS** models provide an unequalled application rate accuracy, quality of fertilizer distribution and easy adjustment. CDA distribution is the clue.

### **AXIS 20.2: from 12 to 36 metres**

Thanks to a large choice of extensions, potential hopper capacities of **AXIS 20.2** models range from 1,000 to 2,300 litres. The compact design makes it ideal for use on medium-sized tractors.

### **AXIS 30.2-40.2: reduce your spreading time**

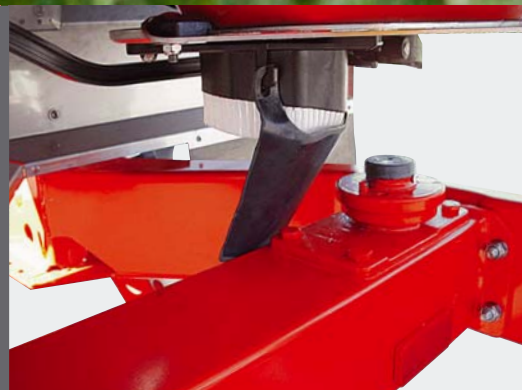
These spreaders are designed for highest work outputs. Both ranges are characterized by a modular hopper capacity of 1,200 to 3,000 litres and working widths from 12 to 42 metres.

### **E-CLICK: shut off by one click**

**E-Click** is a simple control box with two levers to open and close the outlets via electric cylinders directly from the cab. No hydraulic valves are needed!



\* Some models are not available in all countries. Please always check with your local dealer.



### FOR EVERY FARMER

Dependent on the model, the metering outlets are operated differently:

- AXIS K: two single acting hydraulic cylinders,
- AXIS D: two double acting hydraulic cylinders,
- AXIS C: two electric cylinders and E-Click,
- AXIS Q: two electric cylinders and proportional to ground speed (D.P.A.E.).

### QUICK FLOW TEST AND RATE SETTING

With the DFC system, your machine is simply set: Use initially the spreading chart settings. Then remove the disc and fit the chute (stored above disc guard) for a flow test. After collecting the fertilizer, modify the position of the DFC selector according to your needs.

### CHECK IT FROM THE CAB!

QUANTRON A is the standard control box on AXIS Q models. Apart from D.P.A.E., you can benefit also from the user-friendly design and control comfortably from the cab: metering outlets, travel speed, area spread, quantity spread, residual amount of fertilizer.

**AXIS** 20.2 W 40.2 W 50.2 W

# WEIGHING SYSTEM: PRECISE “ONLINE” REGULATION

Two weighing cells in cooperation with electronic units (QUANTRON E-2 or ISOBUS) fulfil your demand to adapt the application rate automatically during spreading. Every second the control box checks, if the flow corresponds to the programmed rate, and adjusts it for highest possible precision and controlled comfort.



## HOW IT WORKS

1. Program your work criteria (width, application rate). 2. Load the fertilizer and start spreading. 3. QUANTRON E-2 compares automatically target quantity with actually applied amount of fertilizer (analysis 100 times per second!). 4. In case of irregularities, it adjusts the metering outlets automatically every second. 5. You can modify the application rate anytime by one click.

## OPTIMUM INTEGRATION

The original, patented design of the weighing system consists of a strong hitch frame fitted with two weighing cells with a capacity of ten tons each, and in the upper part, a link rod connected to the machine frame.

## MANY BENEFITS OF THE CLEVER COUPLING SYSTEM

- Two weighing cells: accurate even on slopes,
- No increase in the loading height,
- Two coupling heights available: for late top spreading,
- Unloaded weight only slightly different (plus 35kg),
- A coupling frame: high clearance for drive.

**FLOW RATE IS ADJUSTED  
EVERY SECOND!**



### **SOPHISTICATED WEIGHING FOR EVERYONE!**

KUHN offers AXIS 20.2 W, 40.2 W, and 50.2 W models with the integrated weighing system in working widths from 12 to 50m. Therefore, the range addresses everyone seeking innovative and precise technology from demanding cereal farms of smaller size up to contractors and machinery cooperatives.

### **MORE PRECISION MEANS HIGHER RETURN ON INVESTMENT**

Linked with the weighing cells, the QUANTRON E-2 terminal records the application rate continuously during spreading.

All you need to do, is to program the application rate, working width and drop point. Then load the machine and you are ready to spread. QUANTRON E-2 then corrects the flow rate automatically one time per second, if it recognizes a deviation. Your advantages: no calibration test needed and non-negligible savings of fertilizer!.



### **THE KUHN PLUS**

### **FLEXIBLE WITH ISOBUS**

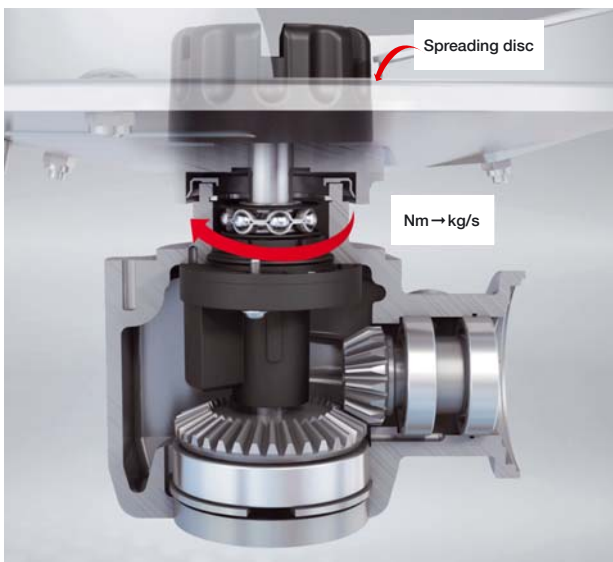
AXIS 40.2 W and 50.2 W spreaders are available as ISOBUS versions as well. Benefit from the advantages of one universal "electronic language" and run several ISOBUS machines with one terminal. GPS control compatible.



PATENT

# EMC: THE "WEIGHING" DEVICE ON EACH DISC!

EMC or „Electronic Mass Flow Control“ is a unique technology, well-established and rewarded after years of experience. It measures and continuously adjusts the application rate on each disc separately. The result: Every second 100% of the application rate is spread on the left as well as on the right!

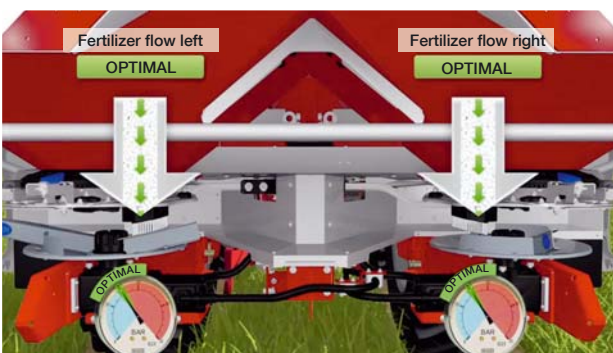


## NO METERING COMPROMISES INDEPENDENT OF FERTILIZER QUALITY

EMC utilizes the fact that the fertilizer flow rate is proportional to the spreading disc drive torque. This is independent of the type of fertilizer. The intelligent system carries out following steps:

1. Sensors read the torque at each disc.
2. The flow rate is adjusted automatically when deviating from desired value, separately for each disc.
3. Electrically controlled metering outlets are corrected automatically according to new data.

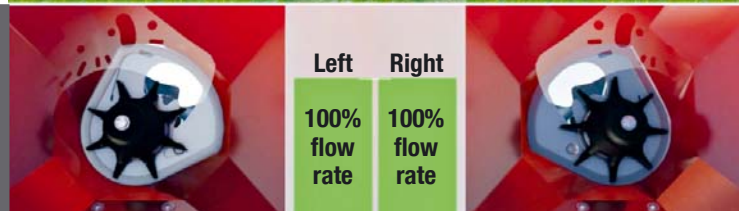
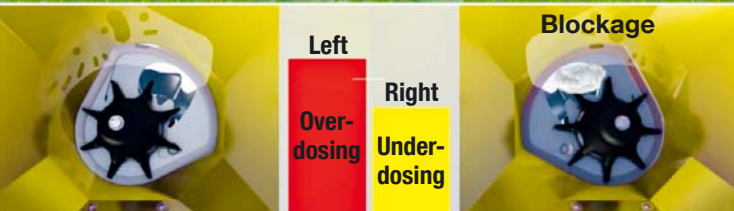
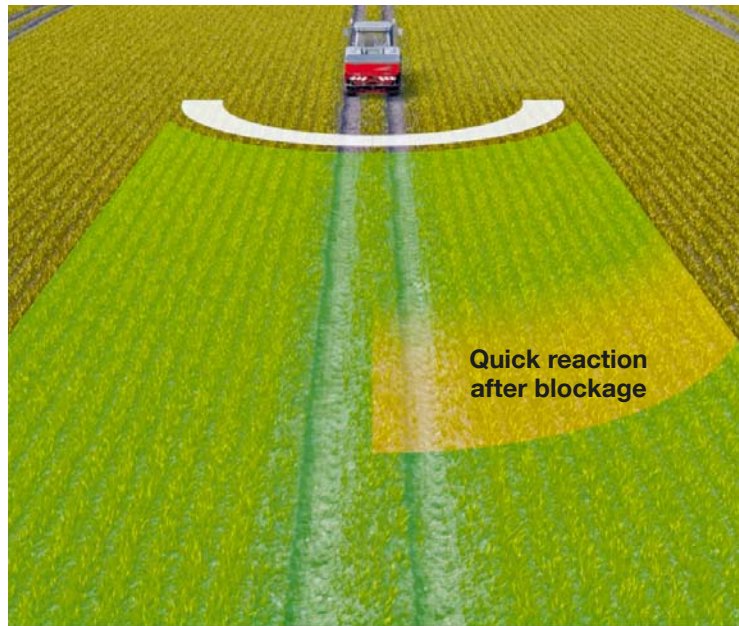
This means that you only have to insert the application rate (kg/ha) and simply start spreading. The system cares for the rest.



## THE EMC ADVANTAGES

- Individual adjustment of left and right disc every second;
- Insensitive to slopes and vibrations;
- More fuel efficiency because of reduced engine speed;
- Neither machine height nor weight increased;
- No flow test required;
- Impressive flow rate range between 20 and 500kg/min.





## CLASSIC WEIGHING SYSTEM (W)

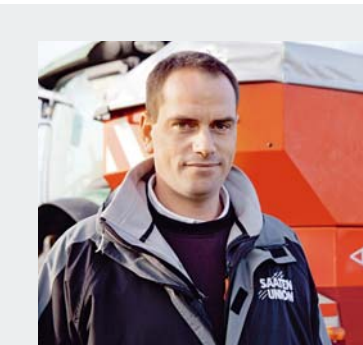
As the flow rate is adjusted every second by AXIS W fertilizer spreaders, deviations from the previously set application rate are quickly corrected in general.

If one outlet is blocked, the AXIS W weighing spreader opens both metering outlets until the foreign body can escape. In this moment, the application rates on both sides are over-dosed, but the ideal application rate is already reached again after only one second.

## “WEIGHING” DISC BY DISC (EMC)

After opening the metering outlets, AXIS EMC spreaders directly record the actual flow rate on each side every second. This way, they work with high precision already from the first metres on.

In the case of clogging of one metering outlet, the EMC system reacts instantaneously. The foreign object is quickly removed by opening the concerned outlet completely, while the other side is not affected at all. As soon as the affected outlet is cleared, EMC only needs one second to readjust it according to the desired application rate.



### Eric Gage from Saaten Union Research station in the French Oise region is convinced by the AXIS EMC system:

“As we need the spreading to be perfectly homogeneous, weighing on each disc is important. When taking into account the surface and kilos spread, it is perfect. On each test carried out, we were always below 1% error with regards to the set application rate.”

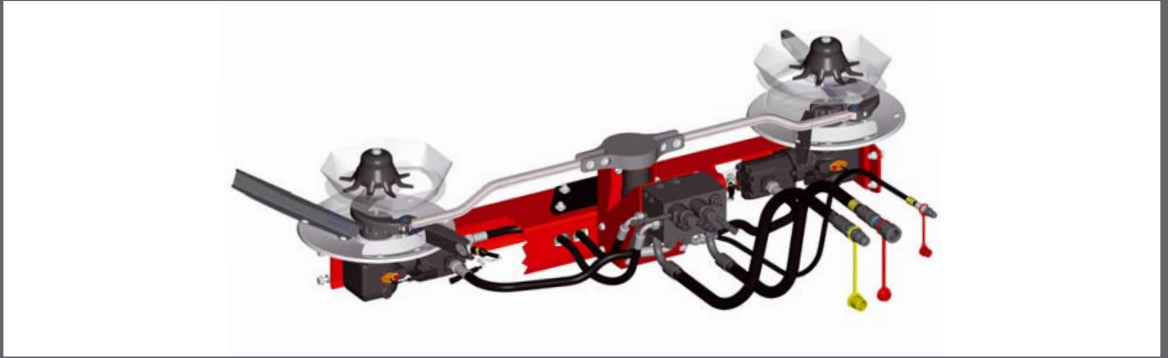
**AXIS****40.2 H-EMC****40.2 M-EMC****40.2 H-EMC-W****40.2 M-EMC-W****50.2 H-EMC-W****50.2 M-EMC-W**

# UNIFORM APPLICATION. HIGHEST COMFORT.

The AXIS H-EMC-(W) range as well as the AXIS M-EMC-(W) models offer a unique combination of innovative technologies to meet the expectations of today's professionals. CDA distribution, ISOBUS options, hydraulic or mechanic spreading disc drives and especially the integration of EMC technology for adjusting the application rate separately and continuously for each disc are the main features.

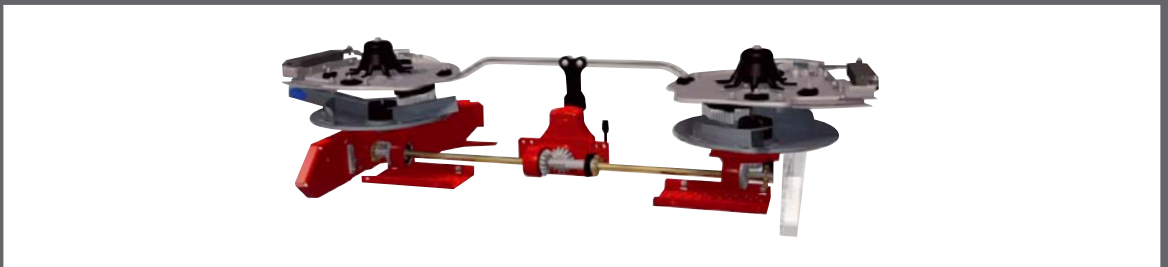
These machines are designed for accurate spreading results for fertilizer, slug pellets or also small seeds without the need of the farmer to get directly involved. He can concentrate on driving.





### HYDRAULIC DISC DRIVE: INDEPENDENT DISC SPEED

The hydraulic drive of the H-EMC models always maintains the disc rotation speed and the associated working width constant. As driven by the tractor's hydraulic system, they are independent of the motor as well as PTO speed. Therefore the spread pattern remains constant and can be adjusted flexibly when driving to field points. Another advantage for the environment and farmer's wallet: Spreading with reduced engine speed is possible, which decreases fuel consumption.



### MECHANIC DISC DRIVE: MAINTENANCE-FREE AND WELL PROTECTED TRANSMISSION

On the AXIS M models, the spreader discs are driven via the PTO shaft at 540 min<sup>-1</sup>. All shafts and angular gears operate in the oil or fat bath to minimize maintenance. Thus, they are protected against fertilizer dust, dirt, damp and mechanical damage by a robust framework structure. These models also possess their own overload protection system, shielding the entire transmission unit including the agitators.

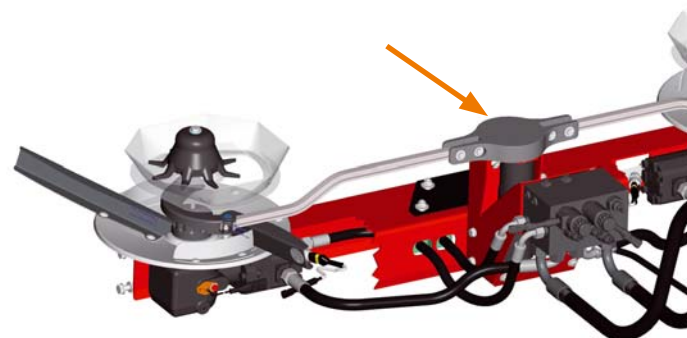
### WEIGHING FRAME FOR MORE INFORMATION

On all EMC-W models, high-capacity weighing cells inform the driver continuously about the residual fertilizer quantity remaining in the hopper.

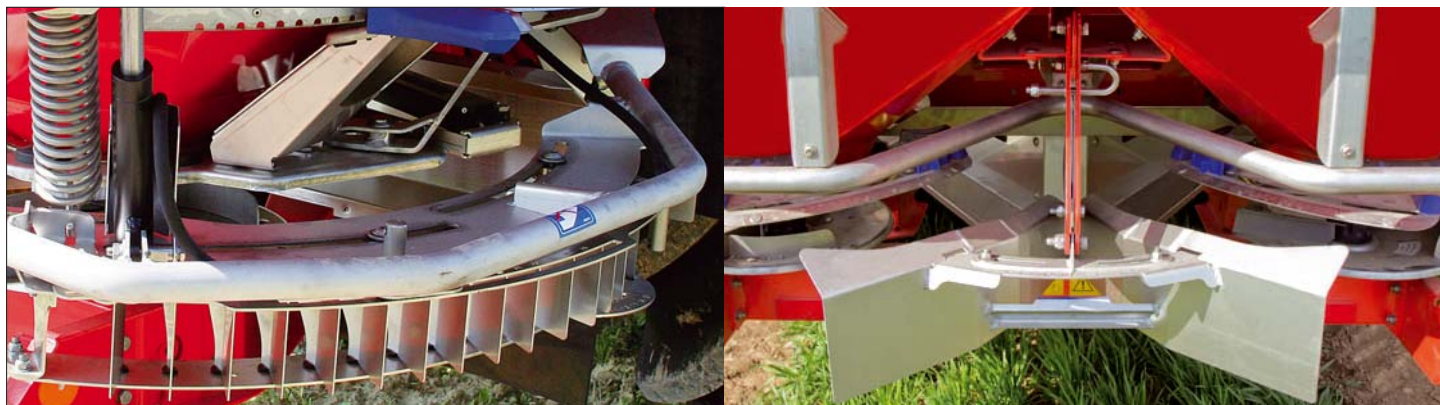


### BE GENTLE TO THE GRANULES

The electric drive of the agitator on H-EMC spreaders contributes to not damaging the fertilizer. This is, because it stops immediately, when the metering outlets are closed, consequently keeping the granules intact.

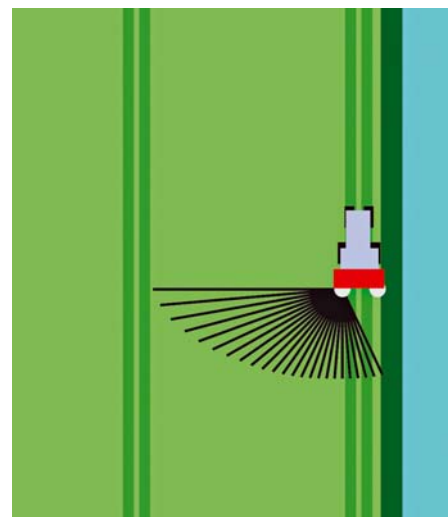
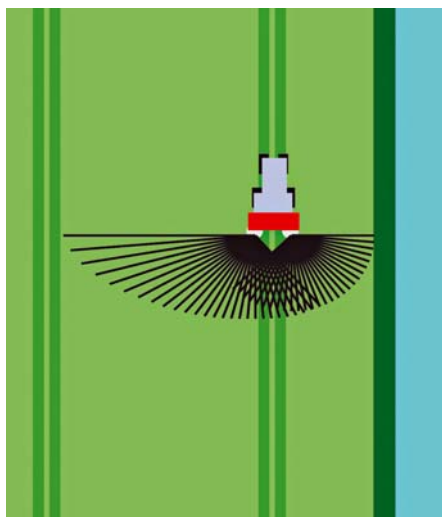


# PRECISE UP TO THE FIELD BORDER



## AXIS M: TELIMAT

TELIMAT enables exact boundary or border spreading from the first tramline. It is used to prevent fertilizer waste and respect environmental instructions. Its deflectors can be positioned and oriented according to working width and type of fertilizer. The trajectory of the granule is modified thereby. TELIMAT can be set up in total comfort without stopping or disengaging the PTO and be comfortably monitored via a well visible position indication.



## AXIS M: GSE

GSE is the boundary spreading device for AXIS 20.2/30.2/50.2 M models. It prevents any fertilizer being spread outside the field: just precise boundary spreading.



## AXIS H: BORDER AND BOUNDARY SPREADING TO THE LEFT AND RIGHT

All border limiters for the left and right side on AXIS H-EMC-(W) models can be activated from the cabin. By simply pressing one button you can change comfortably from border to boundary spreading and back during work. Application rate, drop point and disc rotation speed are automatically adjusted.

# TRUST IS FINE, CONTROL IS BEST



## PRACTICAL TEST SET TO CONTROL LATERAL DISTRIBUTION

This simple tool helps you to assess and rectify the lateral spreading distribution quickly in the field. Therefore, you can be sure about your settings and the spreading precision, which is especially important for fertilizers of poor quality or unknown origin. Together with the CDA system, adjustments are remarkably simple and safe.



## IDENTIFY YOUR FERTILIZER FOR PROPER SPREADING

For fertilizer of unknown origin, which is not listed in the spreading charts, the identification guide classifying the different varieties of fertilizer by category, helps you recognise the product and determine the optimal setting.



## COMPLETE SPREADING CHARTS

Spreading charts are supplied with the machine. They can also be found on the KUHN website ([www.kuhn.com](http://www.kuhn.com)) under „Online services“. This section is continuously updated with new fertilizers.



## FERTILIZER LEVEL ALWAYS IN SIGHT

Two openings bringing light inside the hopper, the level of fertilizer is easily visible through the hopper windows!

Optional equipment: fertilizer level sensors to be directly informed in the cab (only on AXIS Q and W).



## AXIS MORE DETAILS FOR YOUR BENEFIT



### EASY HOPPER ACCESS

AXIS 40.2 and 50.2 models are equipped with ladders of special design for an easier access to the hopper. As always KUHN sets a high value on security: Therefore the ladder can pivot for usage for more safety.



### MUD PROTECTION

Mudguards, supplied as standard, protect the machine from mud ejected by tractor wheels. An extension is available as option on AXIS 30.2 and 40.2 spreaders.



### EASY TO ATTACH

Two coupling heights make it easy to attach to tractors of different sizes for easy loading or late top spreading.



### PRACTICAL PARKING WHEEL

To be more flexible during mounting and unmounting of your spreader, a parking wheel is available with quick coupling system.



### A BETTER VIEW IN THE DARK

A set of two high-quality LED lights as well as rear signalling panels is standard on all AXIS models. With their help, you will always be well visible on the street or in the dark.



### LESS WEAR. LESS MAINTENANCE. ADDED VALUE.

A high percentage of stainless steel components and UV proof synthetics, carbide-coated VXR+ vanes (standard on S6 to S12 discs), a highly sophisticated painting process...KUHN does the most to minimize maintenance and wear and to maximize the machine's service life.

## Technical specifications

## Fertilizer spreaders AXIS

	20.2 K - D - C - Q	20.2 W	20.2 M-EMC (W)	30.2 K - D - C - Q	40.2 K - D - C - Q*	40.2 W (ISOBUS)	40.2 M-EMC (W) (ISOBUS)	40.2 H-EMC (W)	50.2 W (ISOBUS)	50.2 M-EMC-W / H-EMC-W ISOBUS	
Working width (m/ft)	12-36 / 39'4"-118'	18-36 / 59'-118'		12-42 / 39'4"-138'			18-42 / 59'-138'		18-50 / 59'-164'		
Min/max capacity (l)	1,000 / 2,300			1,400 / 3,200		1,200 (ISOBUS: 1,400) / 3,200	1,400 / 3,200		3,200 / 4,200		
Maximum load capacity (kg/lbs)	2,300 / 5,070			3,200 / 7,050						4,200 / 9,260	
Weight without extensions (kg/lbs)	295 / 650	350 / 772	335/739 (W: 385/849)	327 / 721	347 / 765	397 / 875	347/765 (W: 397/875)	397/875 (W: 447/985)	730 / 1,609	780 / 1,719	
Minimum filling height without extensions (cm/in)	92 / 36.22"			106 / 41.73						150 / 59.06	
Border spreading devices	TELIMAT and/or GSE							Hydraulically activated and/or GSE (TELIMAT on W-version)	TELIMAT and/ or GSE	H: hydraulically activated and/or GSE M: TELIMAT and/or GSE	
Application rate adjustment	adjustable lever or electronically (Q version)	DPAE electronic control + weighing system	EMC rate regulation independ- ently for each side every second	adjustable lever or electronically (Q version)		DPAE electronic control + weighing system	EMC rate regulation independently for each side every second		DPAE electronic control + weighing system	EMC rate regulation independently for each side every second	
Outlet control	by hydraulic or electric cylinders (on C or Q version)	by electric cylinders		by hydraulic or electric cylinders (on C or Q version)		by electric cylinders					
Weighing system	-	◆	- (◆)	-	◆	- (◆)		◆	◆		
Hopper cover	◇										
Control box	QUANTRON A (on Q version)	QUANTRON E-2	QUANTRON A (on Q version)			QUANTRON E-2 or CCI 200 (ISOBUS)	QUANTRON A or CCI 200 / VT 50 (ISOBUS)	CCI 200 or VT 50	QUANTRON E-2 or CCI 200 (ISOBUS)	CCI 200 or VT 50	

\* The standard equipment depends on the country of destination. DPAE: adjustment proportional to forward speed

## Extension type

	L 603		L 800		L 1500*		XL 1103		XL 1300		XL 1800*		
Extension width (m/ft)	2.40 / 7'10"											2.80 / 9'2"	
Extension capacity approx. (l)	600		800		1,500		1,100		1,300		1,800		
Total capacity (l) if fitted on basic machine	20.2	30.2- 40.2	20.2	30.2- 40.2	20.2	30.2- 40.2	20.2	30.2- 40.2	20.2	30.2- 40.2	20.2	30.2-40.2	
	1,600	2,000	1,800	2,200	-	2,900	2,100	2,500	2,300	2,700	-	3,200	
Minimum filling height (cm/in)	92/36"	99/39"	118/47"	125/49"	-	149/59"	115/46"	122/48"	129/51"	136/54"	-	151/59"	
Extension weight (kg/lbs)	40/88		50/110		85/187		70/154		75/165		85/187		

\* Extensions not compatible with AXIS 20.2 as well as with AXIS 20.2 - 30.2 - 40.2 with LEVSAK.

**Standard equipment:** work on half the width – application rate and spreading components are made of stainless materials – cat. 2 hitch with two height position hitch points - disc rotation guard to conform to Standard EN 14017-A1 – rear road lights (depending on model and country) – filtering sieve – hopper level sight glass (AXIS 30.2 / 40.2 / 50.2) – pto shaft with shear bolt on AXIS 20.2 – pto shaft with cam-type cut out clutch (on AXIS 30.2 / 40.2 / 50.2) – flow control kit - removable, tool-free, quick-release discs – gearbox 540 min<sup>-1</sup> – agitator control without maintenance – mudguards (AXIS 30.2 / 40.2 / 50.2) – with the QUANTRON E2: speed sensor (to be mounted on the pto shaft of the front axle assembly or wheel) and connection cable to ISO 11786 plug.

**Options:** S2 discs for spreading 12 to 18 m (VXR+ version available) - S4 discs for spreading 18 to 28 m (VXR+ version available) – S6 VXR+ discs for spreading 24 to 36 m – S8 VXR+ discs for spreading 30 to 42 m - S10 VXR+ discs for spreading 36 to 44 m (only for AXIS 50.1) – S12 VXR+ discs for spreading 42 to 50 m (only for AXIS 50.2) – vanes for spreading anti-slug pellets - fertilizer level sensors (AXIS Q/W) – TELIMAT position sensors (AXIS Q/W) – anti-spray deflectors (AXIS 20.2) – parking wheels – long cables for mounting on a supply tank.



\*Some models are not available in all countries. Please always check with your local dealer. -- not available option ◇ standard ◆

# SMALL PROGRAMS WITH GREAT IMPACT!

## SPREADER ADJUSTMENT MADE EASY

For increased fertilizer spreading efficiency, KUHN provides the SPREADSET application to assist you in adjusting your fertilizer spreader. The app integrates all spreading charts available from KUHN. After having selected the fertilizer type as well as other parameters such as the spreading width or type of disc, SPREADSET guides you through the right settings to apply in order to spread the right dose and obtain a good crosswise fertilizer distribution.



Available on App Store and Google Play.



Twin disc fertilizer spreaders



Pneumatic fertilizer spreaders




Lifting equipment

For more information about your nearest KUHN dealer, visit our website [www.kuhn.com](http://www.kuhn.com)



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