

Trailed Fertiliser Spreader

AXENT 100.1



www.kuhn.com



be strong, be **KUHN**



AXENT

100.1

SPREADING PRECISION ON A LARGE SCALE!

Discover AXENT trailed fertiliser spreaders with a capacity of 9,400l and working width from 18 to 50m. They are capable of spreading **granular fertiliser and soil-enriching agents with precision.**

ADVANCED TECHNOLOGY AT YOUR SERVICE

Exclusive! The only trailed machine on the market with continuous EMC "weighing" on each disc: KUHN, pioneer for over 20 years. VARISPREAD PRO technology gives you continuous Section Control at very high speed with the new SpeedServo motors.

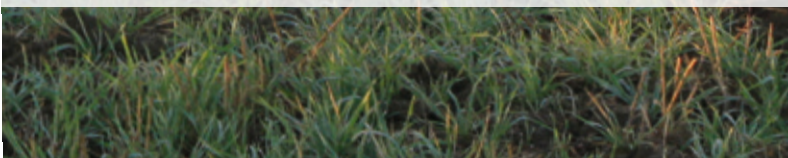
SPREADING ALL OF YOUR PRODUCTS:

Spread granular fertiliser with the AXIS PowerPack spreading module, and soil-enriching agents with the LIME PowerPack. Conventional high-capacity spreaders spread either granular fertiliser or soil-enriching agents whereas the AXENT 100.1 model is capable of metering and spreading both types of fertiliser using the different spreading modules that can be changed in **less than 10 minutes.**



AXENT :

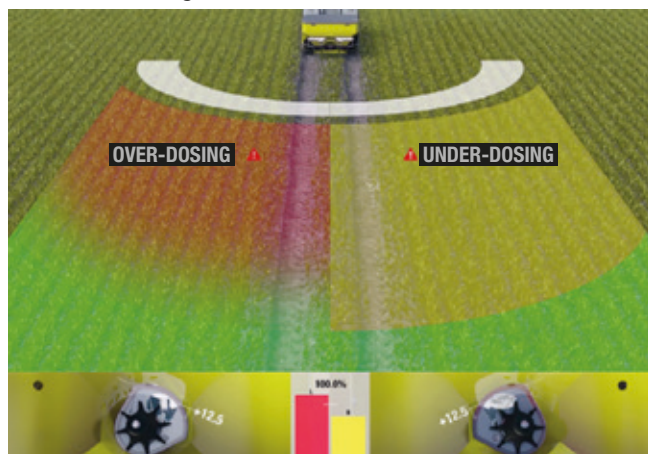
Model	Working width (m)	Max. capacity (l)	Products spread
AXENT 100.1 - AXIS PowerPack	18 - 50	9,400	granular fertiliser
AXENT 100.1 - LIME PowerPack	up to 18	9,400	lime, moist bulk, organic fertiliser



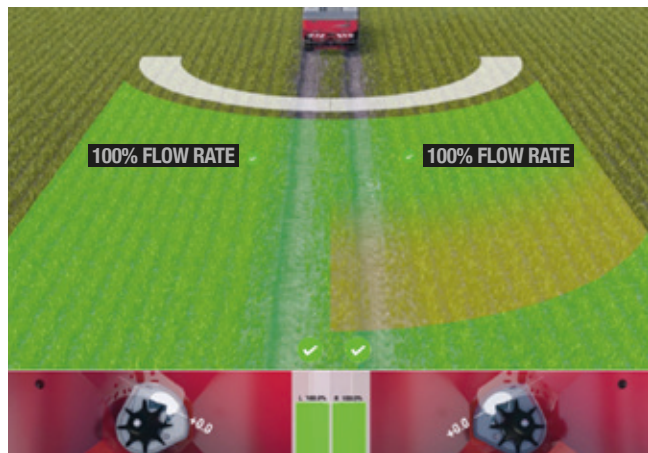
ADVANCED TECHNOLOGY AT YOUR SERVICE

With an array of advanced technology (EMC, VARISPREAD PRO and more), you can guarantee that your crops receive just the right dose and you keep your costs under control.

Conventional weigh-cell control:



KUHN exclusive EMC control:



THE CONTINUOUS "WEIGHING SYSTEM" ON EACH DISC

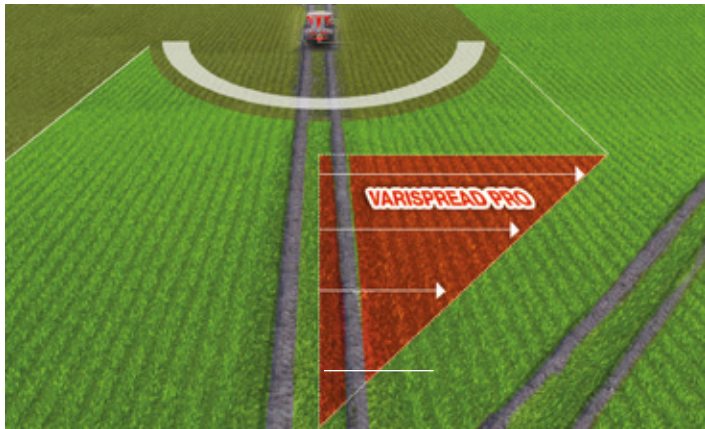
EMC (Electronic Massflow Control) adjusts the application rate, left and right, every second independently, like a "weighing" device on each disc. This unique system by KUHN allows every plant to receive the right dose of fertiliser every second. It's simple; fertiliser flow is measured on each disc, so in the event of clogging or blockage, the flow rate of the outlet concerned is corrected immediately and automatically!

For over 20 years, this system has been spreading the right application rate in the right place because at each outlet the fertiliser flow is just right.

Sensors read the drive torque every second at each disc. Depending on the reading, the flow rate is adjusted automatically and separately on the left and right-hand discs.

With EMC control, left and right flow rates are adjusted individually and the effects of slopes and vibrations are not felt. You are also more fuel efficient due to the lower motor speed. There is no need to do a flow test, just enter the application rate and start spreading. Flow rate range is wide at between 20 and 500 kg/min, so left/right application rate adjustment by GPS is possible with extreme precision.

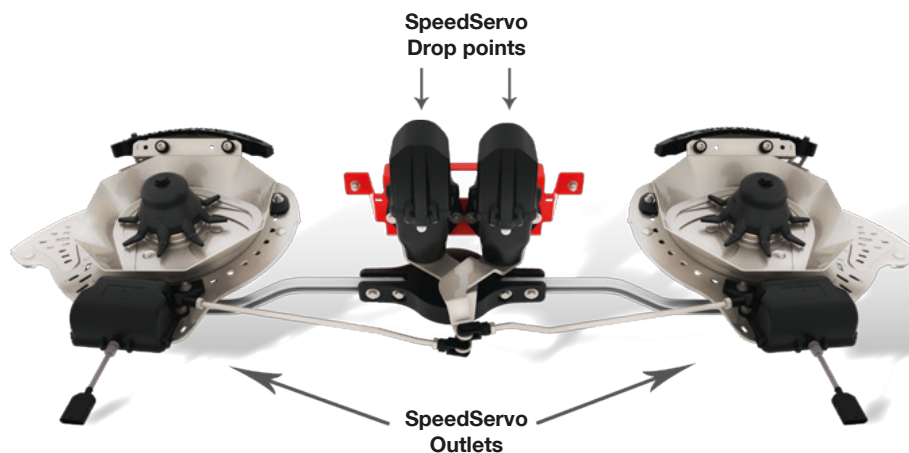




NEW

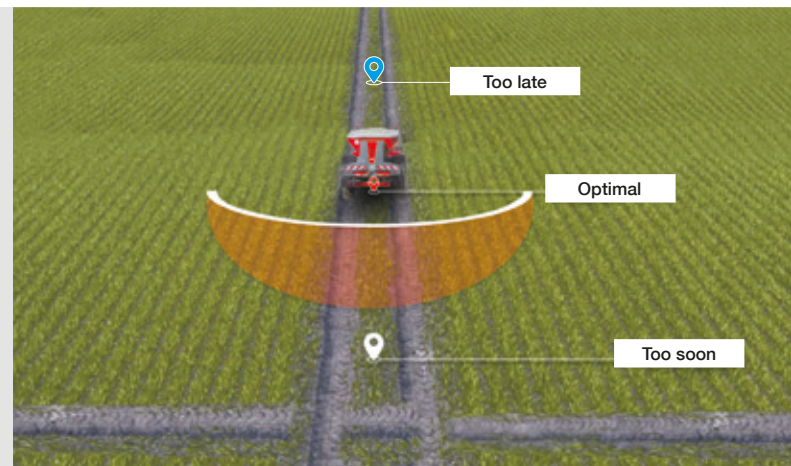
VARISPREAD PRO: CONTINUOUS SECTION CONTROL AT VERY HIGH SPEED WITH SPEEDSERVO

SpeedServo is a new control system composed of two electric motors that are 2.5 times faster than a traditional cylinder. It modifies drop points and adapts the spread fan to the shape of the plot. This results in improved overlap management and the right application rate in the right place, even at high ground speeds.



OPTIPOINT: THE IDEAL POINT TO OPEN AND CLOSE OUTLETS AT HEADLANDS

At headlands, most farmers start and stop spreading at the same moment even though different fertilisers have different ballistic properties. OPTIPOINT automatically calculates the ideal opening and closing point of the metering outlets according to the type of fertiliser as well as ground speed. This results in higher precision when using GPS control.



CONVINCED BY THE EMC SYSTEM:

Éric Gage

from Saaten Union Research station in the French Oise region

"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."

THE SAME TECHNOLOGY FOR SOIL ENRICHERS AND FERTILISERS

The AXENT 100.1 trailed fertiliser spreader is capable of spreading different types of product: Granular fertiliser, lime, moist bulk, organic fertiliser and more.



SPREAD GRANULAR FERTILISER WITH AXIS POWERPACK

A clever, fast-fit system makes it possible to switch from one configuration to the other in only ten minutes, and it can be handled by one person alone. The AXIS PowerPack is the **hydraulically driven** spreading module for high-precision spreading of granular fertiliser. Based on the well-proven AXIS H-EMC model design, the fertiliser system allows granular fertiliser and seeds to be spread with ultimate precision from 18 to 50m. The spreading discs are equipped with the CDA system which ensures optimum lateral distribution. The modification of fertiliser drop point enables quick adaptation to different products and working widths. The specific design of the metering outlets creates multiple supply to the discs which provides constant fertiliser flow and uniform spreading. With the CDA system, distribution patterns are regular and precise. Application-rate variations and changes in ground speed have no effect on fertiliser distribution. The ultra-slow agitator regulates supply to the spreading disc and improves fertiliser flow. It rotates 360° at a speed of only 17rpm so is gentle with granules, and enables a flow rate of 500 kg/min.

With this spreading table you benefit from EMC regulation, VARISPREAD PRO Section Control and point management by GPS OPTIPOINT.

FULLY AUTOMATED PRECISION

The 800 mm wide and 8 mm thick conveyor belt is in a pre-chamber above the spreading discs. It provides automatic, precise and regular supply to the spreading modules and optimum application rates with its automatic centring system. Fertiliser supply is automatic so no driver intervention is required. As soon as the fertiliser level gets low in the AXIS PowerPack's hopper, the feeding belt will automatically start up again.





LIME POWERPACK FOR SOIL-ENRICHING AGENTS

With its 700 mm diameter heavy discs fitted with 5 blades, this spreading module is designed to spread heavy and wet products: lime, moist bulk, organic fertiliser (pellets)...at high application rates of several tons per hectare over a maximum width of 18m. The conveyor belt is used exclusively to meter the material according to ground speed (DPAE) and the selected rate. A hydraulically driven agitator (as standard) improves flow to the spreading discs (also hydraulically driven).

CHANGE SPREADING MODULES IN LESS THAN 10 MINUTES!

A clever and comfortable fast-fit system makes it possible to switch from one configuration to the other in only ten minutes. The switch in modules can be handled by only one person. Two machines in one!



PREMIUM FEATURES BUILT INTO EVERY MACHINE



EQUIPPED FOR TRACTORS FROM 180 HP

The AXENT spreader has its own on-board hydraulic system as standard so no oil flow is needed from the tractor, except for the hopper cover and parking stand. This hydraulic unit is PTO powered from 750 rpm which reduces the tractor's fuel consumption. It drives the spreading discs, conveyor belt, metering outlets, the agitator on the Lime PowerPack as well as the steering axle.



THE AXENT IS ISOBUS-READY AS STANDARD ALL OF YOUR INFORMATION DISPLAYED ON ONE SCREEN



CCI 1200 TERMINAL ALL OF YOUR INFORMATION ON ONE SCREEN!

The new AEF-certified ISOBUS CCI 1200 terminal has three priorities: performance, visibility and flexibility. It enables you to control your machines intuitively with its large (30.5cm/12.1") anti-glare touch screen. It allows the simultaneous display of important information, includes the functions for joystick control and use of camera. It has many innovative applications such as being compatible with a biomass sensor (standard), being able to carry out Section Control, driving assistance and application rate modulation / control by GPS, differently on the left and right! It can be changed easily from one tractor to another to use it with different ISOBUS machines.

Change the application rate of granular fertiliser by GPS with the AXIS PowerPack spreading module (different application rates on the left and right), and soil-enriching agents with the LIME PowerPack module.

INTEGRATED BACKUP CAMERA MAKES REVERSING EASIER

The backup camera, which is integrated into the rear cover, allows for safer manoeuvring into barns and sheds.



HYDRAULIC COMFORT FEATURES AS STANDARD

We have paid particular attention to driver comfort. The following hydraulic features are part of the standard package: **Linkage drawbar with hydro-pneumatic suspension**, hydraulic hopper cover for faster loading, and hydraulic parking stand controlled from the cab to provide faster and easier coupling/uncoupling operations.

HIGH-PERFORMANCE EQUIPMENT

ADAPTING YOUR MACHINE

TO YOUR CONDITIONS



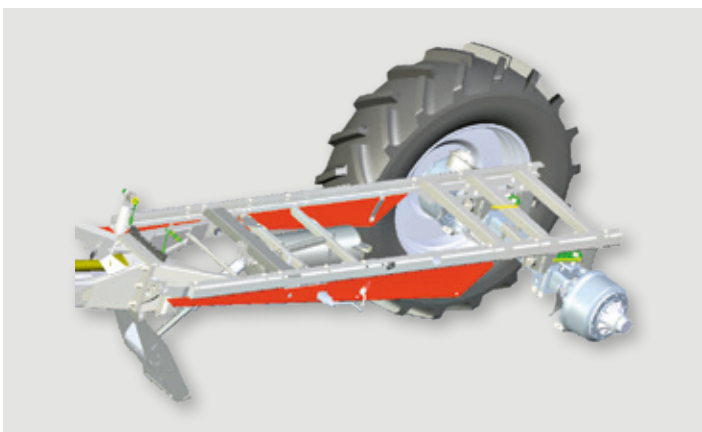
STEERING AXLE: GO EXACTLY WHERE YOU MEAN TO!

Benefit from a steering axle with gyroscope control system. Steering angle ranges from 10 to 17 degrees depending on selected track width and tyre size. It is quick to connect to different tractors as there is no specific assembly requirement. Just position the gyroscope on the tractor. The slope-adaptation system is integrated and manual control is possible.



REMOVABLE FILTERING SIEVE

The standard filtering sieve takes just a few minutes to remove for spreading soil-enriching agents. The belt takes the product to the pre-metering hatches which regulate flow to the spreading modules.



FOUR INTEGRATED WEIGHING CELLS TO OPTIMISE YOUR LOGISTICS!

For precise data and improved operator comfort, four integrated weighing cells are available as an option. They enable you to monitor the remaining fertiliser load in the hopper and the area left to spread before reloading becomes necessary.

Specifications

	AXENT 100.1
Maximum hopper capacity (l)	9,400
Spreading modules	AXIS PowerPack: for granular fertiliser OR Lime PowerPack: for lime, moist bulk, organic fertiliser
Working width (m)	AXIS PowerPack: 18 - 50 (depending on fertiliser) Lime PowerPack: up to 18 (depending on product)
Maximum payload (kg)	7,400 - 8,400 - 10,400 (according to country)
Weight empty without spreading module (kg)	4,250
Weight approx. of spreading module (kg)	350
Total weight (kg)	12,000 - 13,000 - 15,000
Filling height (m)	2.90
Transport height (m)	3.15
Overall width (m)	2.55 (with 2.00m track)
Overall length without spreading module (m)	7.70
Track widths (m)	2.00 - 2.10 - 2.15 - 2.25
Axle	rigid or steering (with gyroscope)
Brake system	hydraulic or pneumatic**
ISOBUS	◆
Control terminal	ISOBUS as standard - CCI ISOBUS terminal or tractor's ISOBUS terminal
Electronic ground speed related application rate control (DPAE)	◆
VARISPREAD section control	AXIS PowerPack: VARISPREAD PRO as standard (for modification of drop point, disc speed and continuous reduction of application rate at very high speed) Lime PowerPack: simultaneous opening/closing of the 2 outlets
OPTIPOINT headland management	◆
Border spreading	AXIS PowerPack: to left and/or right by reducing the drive speed and modifying the drop point
Fertiliser low level sensor	◆
Rear camera	◆
Hopper cover	◆ (hydraulic folding)
Conveyor belt	8mm thick, 800mm wide
Foldable ladder	◆ (in front of the hopper)
Min. power requirement (kW/hp)	135 / 180
Integrated hydraulic unit	◆ (for drive of belt, metering outlets, spreading discs)
Tractor hydraulic requirements	2 x DA (parking stand, hopper cover)
Lighting and signalling	rear LED lighting + signalling panel

◆ standard ◇ optional - not available

*Depending on drawbar type and country. Please check with your local KUHN dealer.

**Some configurations are not available in all countries. Please check with your local KUHN dealer.

Optional equipment: AXIS PowerPack or Lime PowerPack - steering axle - hydraulic or pneumatic brakes - different tyre options according to track width (520/85 R42track 2.00m, 520/85 R46 track 2.10m, 520/85 R42 track 2.25m).**

KUHN SERVICES* Maximise operations and the productivity of your equipment

*Not all services and equipment is available in every country.

KUHN sos order

EXPRESS SPARE PARTS 24/7

You need a part urgently? With KUHN sos order, benefit from express delivery seven days a week, 362 days a year. Minimise downtime and increase productivity.

KUHN protect +

THE CHOICE OF PROFESSIONALS!

Take advantage of KUHN's 36-month warranty, KUHN protect +. Concentrating exclusively on the job at hand and the performance of your machine is all you should have to do when investing in high-tech machinery.

KUHN i tech

FOR EVER QUICKER REPAIRS!

An unexpected technical problem always happens at the worst time. With KUHN i tech, your KUHN authorised dealer can quickly and efficiently come to the rescue. KUHN i tech is an online service, 24/7, that provides a fast and exact diagnosis.

KUHN finance

RATIONAL INVESTMENT!

Need a new machine but financing is uncertain? Modernise your equipment and develop your farm with KUHN finance, the secure and customised finance plan adapted to your requirements.

KUHN

KUHN MOBILE APPS

SPREADSET APPLICATION



SPREADER SETTINGS ADAPTED TO EVERY FERTILISER!

- Up-to-date spreading charts.
- Transfer of settings from your smartphone to your machine.
- Hopper level displayed during loading.

Available on App Store and Google Play



Centrifugal fertiliser spreaders



Pneumatic fertiliser spreaders



Lifting equipment

For more information about your nearest KUHN dealer, visit our website www.kuhn.com



Visit us on our YouTube channels.



www.kuhn.com

Your KUHN dealer

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