



High-capacity trailed fertiliser spreaders
AXENT 90.1 - 100.1





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AXENT

SPREADING PRECISION ON A LARGE SCALE!

AXENT TRAILED FERTILISER SPREADERS BOAST THREE KEY ASSETS FOR LARGE FARMS: LONG OPERATING RANGE, PRECISION, AND USER COMFORT. WITH A HOPPER CAPACITY OF 9,400 LITRES, THEIR OPERATING RANGE IS IMPRESSIVE.

THERE ARE TWO MODELS: THE AXENT 90.1 FOR GRANULAR FERTILISERS, AND THE AXENT 100.1 WHICH CAN SPREAD BOTH GRANULAR FERTILISERS AND SOIL-ENRICHING AGENTS BY SIMPLY CHANGING THE SPREADING MODULE.



CUTTING-EDGE EQUIPMENT

Fertiliser spreaders in the AXENT range feature state-of-the-art technological systems: the exclusive EMC system, CDA distribution, VARISPREAD PRO continuous and very high-speed variable working width setting technology ... A winning combination to ensure your crops receive just the right dose and your costs are kept under control.

ABSOLUTE COMFORT

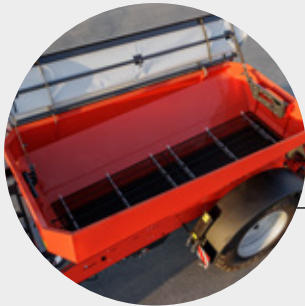
AXENT trailed fertiliser spreaders come with an array of solutions to automate spreading and allow you to concentrate on the essential. For instance, they are ISOBUS-ready, as standard, and are equipped with the AXIS PowerPack spreading module with fully automatic supply system.

EXCEPTIONALLY VERSATILE

AXENT 100.1 fertiliser spreaders are extremely versatile being able to spread granular fertilisers (AXIS PowerPack) and soil-enriching agents (UNIVERSAL PowerPack). It takes one person less than 10 minutes to change the spreading module!

ASSETS OF THE AXENT 90.1 IN BRIEF

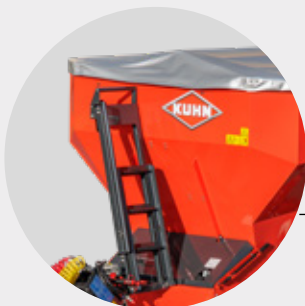
With a capacity of 9,400 litres and a working width of 18 to 50 m, the AXENT 90.1 fertiliser spreader is an efficient solution for agricultural contractors and arable farms. It is equipped with the mechanically driven AXIS Power Pack spreading module, so only requires a low hydraulic flow (35 L/min at 180 bar) to drive the conveyor belt. This means it is adapted to a wide range of tractors from 180 hp. It also features an array of technological systems for high-precision spreading.



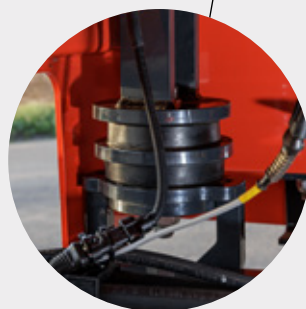
Long operating range
9,400-litre hopper



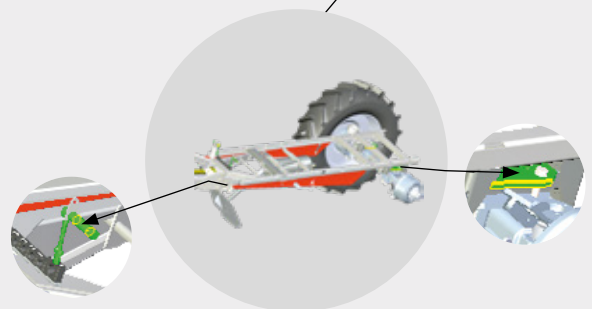
Easy loading
Hydraulic cover



**Easy-access
hopper**
Foldable ladder



Driving comfort
Mechanical hopper suspension on silent-blocks



Resupply optimised
4 integrated weighing cells to inform you
of how much fertiliser remains in the hopper,
in real time



Optimum flow

Retractable sieve to prevent any fertiliser residues / clumps from obstructing fertiliser flow through the outlets



Border spreading

TELIMAT border deflector



Regular fertiliser supply

100 % automatic conveyor belt



Practical

ISOBUS control & settings via the SpreadSet application

Precision farming

Mechanical AXIS PowerPack



- **SPEEDSERVO electric motors:**
more reactive application-rate modulation and section control.
- **EMC:**
independent left / right adjustment every second.
- **VARISPREAD PRO section control:**
continuous variable width setting at very high speeds.
- **OPTIPOINT technology:**
perfectly timed outlet opening and closing at headlands.

ASSETS OF THE AXENT 100.1 IN BRIEF

The AXENT 100.1 fertiliser spreader, with a capacity of 9,400 litres, is highly versatile. You can spread granular fertiliser (hydraulic AXIS PowerPack) and soil-enriching agents (UNIVERSAL PowerPack) by simply changing spreading modules, which takes one person less than 10 minutes!

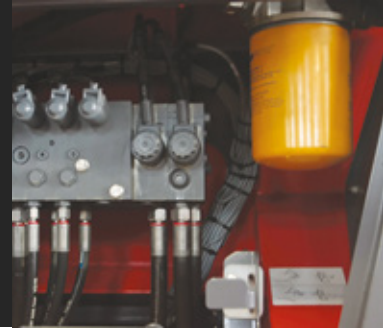
HYDRAULIC AXIS POWERPACK: GRANULAR FERTILISER SPREADING



With the AXIS PowerPack spreading module, you can spread granular mineral fertiliser (or seeds) over working widths from 18 to 50 m. The CDA distribution system ensures precise and constant spreading, even when the application rate and the working width change. An ultra-slow agitator (360° at 17 rpm) feeds the discs and protects the granules. The 3-point shape of the metering outlets creates a gradual and regular flow to the spreading discs.

The spreading module comes with many great features such as the EMC system with left/right adjustment every second, VARISPREAD PRO equipment for continuous working-width adjustment, and OPTIPOINT technology for automatic outlet control by GPS. In addition, electric SpeedServo motors make application-rate modulation and section control more reactive.

The AXENT 100.1 fertiliser spreader has its own integrated hydraulic unit to drive the conveyor belt, the metering outlets, the spreading discs, the steering axle (and the beater on the version with UNIVERSAL PowerPack). The hydraulic unit is driven by the tractor's PTO from 750 rpm. It requires no oil flow from the tractor.



UNIVERSAL POWERPACK: SOIL-ENRICHING AGENTS



The UNIVERSAL PowerPack is equipped with large-diameter discs (700 mm) with five blades, specially designed for soil-enriching agents: powder, lime, moist bulk, fertiliser pellets, etc. It is capable of high application rates (several tonnes per hectare) over a maximum working width of 18 m, depending on the product. The conveyor belt is used exclusively to dose the product in proportion to ground speed (DPAE) and the application rate entered by the user or a prescription map.

A hydraulic beater improves product feed to the spreading discs. It breaks the product up to make it flow more smoothly. The section control system works via the automatic opening and closing of the two outlets. Lastly, this spreading module features OPTIPOINT technology, as standard, and the EMC system as an option.



EXCEPTIONAL CAPACITIES

Improve your productivity and reduce your operational costs with AXENT high-capacity fertiliser spreaders. You'll optimise your spreading time by spending less time on the road and becoming more efficient in the field!



Incredibly long operating range

AXENT large-format fertiliser spreaders, with a capacity of 9,400 litres, considerably reduce the number of round trips and refilling stops necessary, saving time and fuel. With a working width of up to 50 m, they are capable of high work output, covering large areas in a short time.

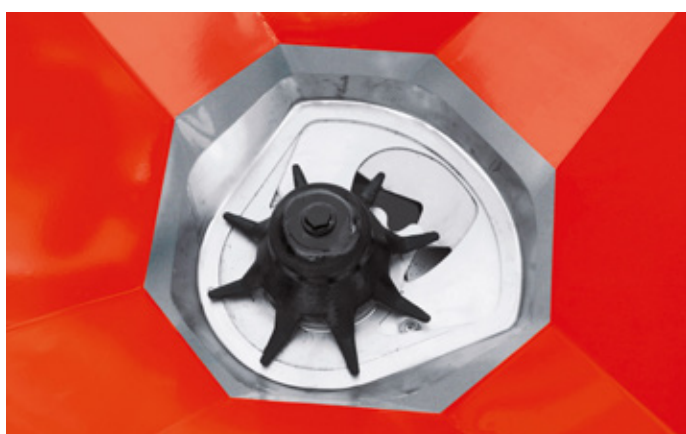


Unrivalled performances

AXENT fertiliser spreaders are capable of spreading up to 400 kg/ha of ammonium nitrate at a working width of 36 m, at more than 20 kph, continuously, over 24 hectares! The AXENT 100.1, equipped with the UNIVERSAL PowerPack spreading module, can deliver up to 10 tonnes/ha of lime at 10 kph.

PRECISE METERING AND GREAT SPREADING

The CDA distribution system (Coaxial Distribution Adjustment) ensures precise and constant spreading, even when there are variations in working width and ground speed. This exclusive technology, by KUHN, prevents the « dose effect » which causes irregular distribution patterns when the application rate is modified.



Ultra-slow agitator

An ultra-slow agitator (360° at 17 rpm) regulates supply to the spreading discs, preventing damage to the granules or clogging in the metering outlets. The special three-point shape of the metering outlets creates a progressive and regular flow to the spreading discs. This technology ensures precision metering with any product!



High-precision discs

An outlet guide brush directs the fertiliser flow to an exact point on the disc. AIRFIN deflectors reduce the turbulence generated by the rotating discs, creating a smooth fertiliser flow. Different discs can be used to suit the product and the working width. No adjustment is necessary. They are quick and easy to change, no tools required.

THE BEST PRECISION-ENHANCING TECHNOLOGIES

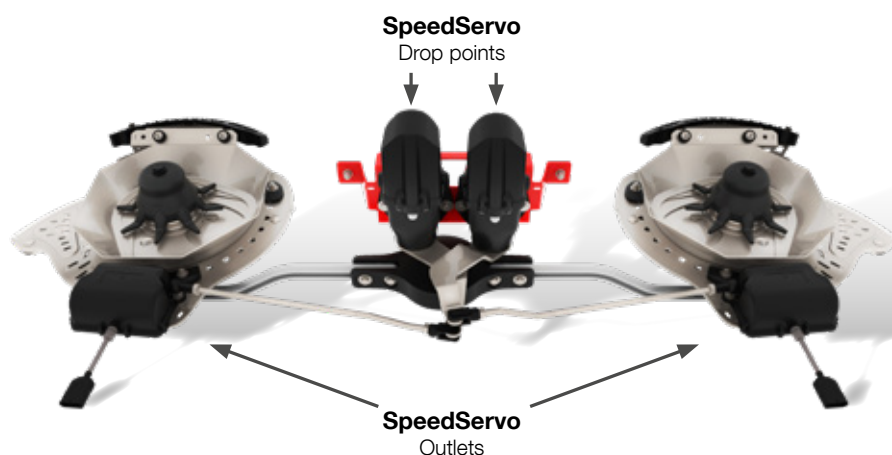
AXENT fertiliser spreaders integrate many cutting-edge technologies to ensure that your crops receive the right dose of fertiliser and your costs are kept under control.



SPEEDSERVO ELECTRIC MOTORS: STEP UP A GEAR!

AXENT fertiliser spreaders are equipped with four SpeedServo electric motors which adjust the drop point and outlet opening 2.5 to 5 times faster than a conventional cylinder. This is a major advantage which provides:

- extreme precision and reactivity for application rate adjustment when changing speed or working with a prescription map;
- fast and continuous working-width adaptation for different plot shapes and profiles;
- constant and reactive fertiliser-flow adjustment, on the left and right, every second;
- outlet opening and closing at just the right time at headlands.

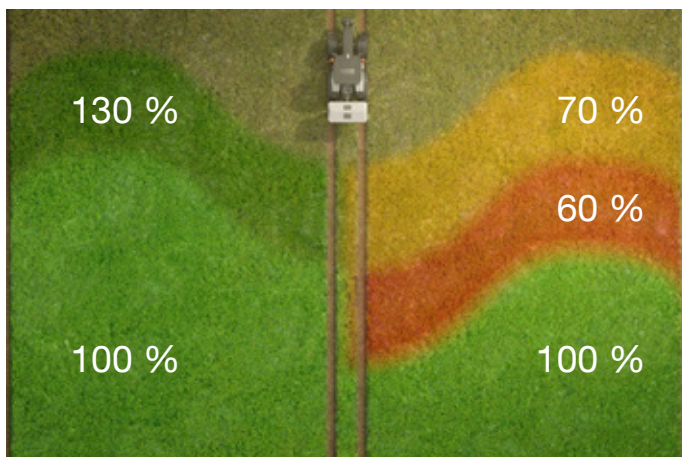




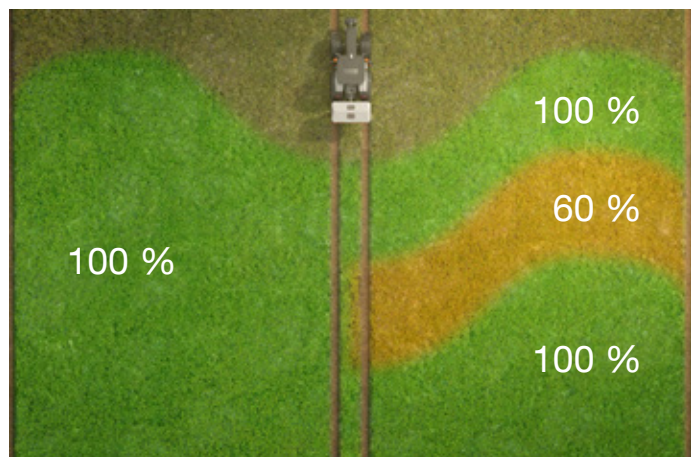
EXCLUSIVE EMC TECHNOLOGY: CONTINUOUS « WEIGHING » ON EACH DISC

EMC (Electronic Mass Control) technology is available on AXENT fertiliser spreaders no matter which spreading module is used: AXIS PowerPack or UNIVERSAL PowerPack. It regulates the flow rate independently on the left and right every second. The concept is simple: sensors measure the drive torque on each disc every second. If there is a blockage or clogging, outlet opening is immediately and automatically adjusted! This unique system, made by KUHN, enables every plant on the plot to receive just the right dose of fertiliser, even on sloping plots. No need to do a calibration test! Just enter the application rate and start spreading!

CLASSIC REGULATION BY WEIGHING CELLS



KUHN EXCLUSIVE EMC REGULATION



THE BEST PRECISION-ENHANCING TECHNOLOGIES

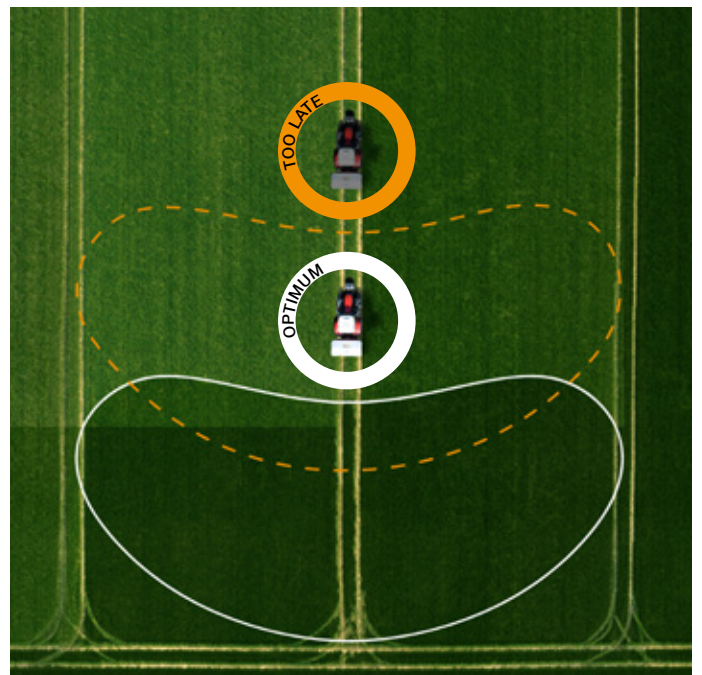
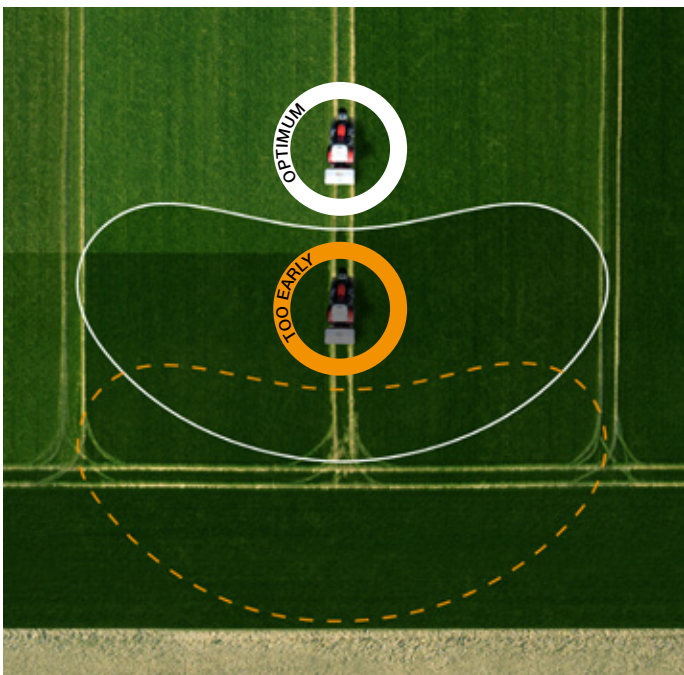


VARISPREAD PRO: CONTINUOUSLY VARIABLE WORKING WIDTH AT VERY HIGH SPEEDS

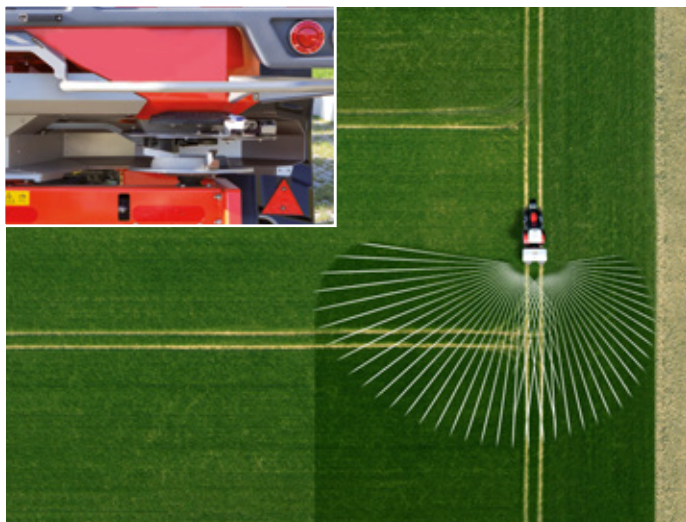
VARISPREAD equipment makes it possible to vary working width from the tractor's ISOBUS terminal directly. The VARISPREAD 8 system can reduce the fertiliser application rate gradually over 8 sections, 4 per side. VARISPREAD PRO section control has 2 SpeedServo electric motors to adjust working width continuously and at high speeds by modifying the drop points and the application rate. This results in a perfect spread fan adapted to the shape of the plot, even at high speeds.

OPTIPOINT: THE IDEAL MOMENT TO OPEN AND CLOSE OUTLETS AT THE END OF THE PLOT

At headlands, starting and stopping spreading is often managed « by chance » while different fertilisers have e different ballistic properties. OPTIPOINT technology automatically calculates the ideal opening and closing points according to fertiliser type, working width, and ground speed. It's the ideal solution for optimum cover and prevents overdosing when using GPS control.



EFFICIENT BORDER MANAGEMENT



Compatible with

AXENT 100.1

Hydraulic border management

Managing borders with an AXENT 100.1 fertiliser spreader is quick and easy. Thanks to the AXIS PowerPack spreading module with hydraulic drive, simply adjust the speed of the disc on the border side, left or right. Reducing the speed modifies the spread fan by decreasing the spread distance.

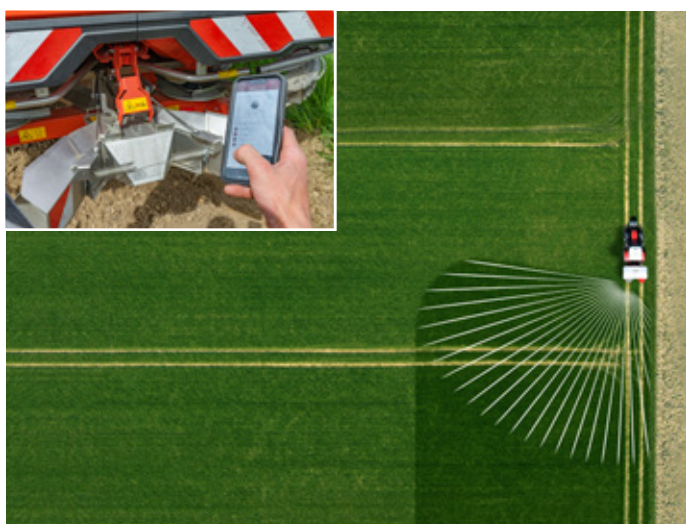


Compatible with

AXENT 90.1

TELIMAT border deflector

AXENT 90.1 fertiliser spreaders are equipped with TELIMAT border deflectors. This system enables precise spreading at borders right from the first pass, by using the sprayer tracks. For added practicality, an electric position sensor displays the position of the TELIMAT border deflector directly on the in-cab terminal.



Compatible with

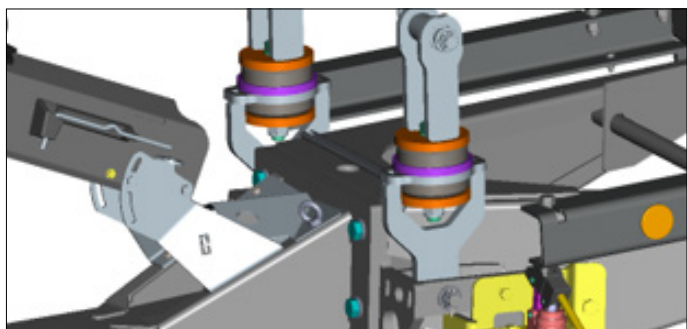
AXENT 90.1, 100.1

GSE PRO border limiter

The GSE PRO border spreading limiter is available as an option on AXENT 90.1 and 100.1 spreaders. This option combines two key fertilisation solutions: yield optimisation and respect for the environment. Its hydraulic controls are managed from the tractor cab directly. The product is spread towards the inside of the plot while driving along the edge of the field. The metering outlet on the border side is closed.

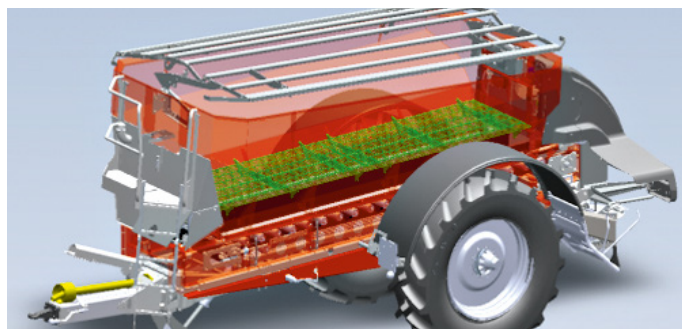
ABSOLUTE COMFORT

AXENT trailed fertiliser spreaders come with an array of special features that automate spreading and allow you to concentrate on the essential. For instance, you'll benefit from the AXIS PowerPack spreading module's fully automatic supply system and standard ISOBUS compatibility.



Hopper with suspension

AXENT fertiliser spreader hoppers come with suspension. The AXENT 90.1 is equipped with silent-block suspension and the AXENT 100.1 with hydraulic suspension. Hopper vibrations are reduced, making spreading more precise and regular. Driving comfort is increased in the field and on the road.



Regular supply, fully automatic

The self-centring, 800 mm-wide feed belt supplies a pre-chamber above the spreading discs. Fertiliser supply is automatic, requiring no operator intervention. When the fertiliser level drops in the spreading module's hopper, the conveyor belt starts up. It is positioned at a slight angle to ensure the spreading module receives a constant supply, and the weight is well balanced at the rear of the tractor.



An integrated weighing system

Four weighing cells are integrated into the frame of AXENT fertiliser spreaders. This means you can monitor the fertiliser remaining in the hopper, continuously and directly on your ISOBUS terminal or with the Spreadset application on your Smartphone. A real asset in resupply optimisation, allowing you to anticipate and facilitate refilling.



ISOBUS-ready as standard

Control the AXENT range (standard ISOBUS-ready machines) with an ISOBUS terminal for precision agriculture: application rate modulation by prescription map or biomass sensor, automatic section control with VARISPREAD PRO, and hopper level monitoring.



Make life easier with KUHN's SpreadSet application

Use KUHN's SpreadSet application to find the right settings for the ideal fertiliser dose and the optimum spread fan according to fertiliser type, working width, and ground speed. The mobile version of the SpreadSet app allows you to transfer the settings to the machine directly via a WIFI module (option). No manual data entry is required!

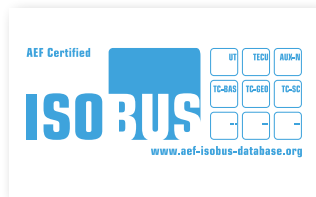


The most modern test hall in Europe

KUHN SpreadSet application data comes from tests carried out in a state-of-the-art test hall!

- 100 years' experience in fertilisation;
- 1,235 m² for extra-large working widths (75 m);
- 88 totally automatic collection trays;
- Fully air-conditioned hall for a controlled environment;
- 3,500 spreading tests carried out every year.

BENEFIT FROM THE MANY ISOBUS ASSETS



CCI 800 AND 1200: ONE TERMINAL FOR ALL KUHN MACHINES

CCI 800 and 1200 ISOBUS terminals are AEF-certified. They focus on three priorities: performance, visibility and flexibility. Control your machines intuitively with a large anti-glare touchscreen. They allow the simultaneous display of important information on one screen. Among other features, they make it possible to automate the application rate modulation using prescription maps or a biomass sensor.



CCI 800: The compact ISOBUS terminal

The 8"/20.3cm screen displays the main machine and mini-views on the side. Click on the mini-view you wish to enlarge.



CCI 1200: innovative, panoramic, high performance

With the 12.1"/30.5cm screen, all essential information is displayed. Different display formats are possible: mini-view / maxi-view / double UT.

A MULTITUDE OF APPLICATIONS COME AS STANDARD



TECU

Recover basic tractor information



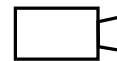
CONTROL

Control your tasks and your ISO-XLM documentation



CONVERT

Connect to your biomass sensor



CAMERA

Connect a camera and display live images



HELP SYSTEM

The assistance you need

DISCOVER THE CCI APPLICATIONS



SECTION CONTROL

Automatic seeding management by GPS



RATE CONTROL

Application rate modulation by GPS (SHP and ISOXML) of several products (e.g. seeds+fertiliser)



DATA TRANSFER

Data import/export via agrirouter



PARALLEL TRACKING

Steering assistance by GPS

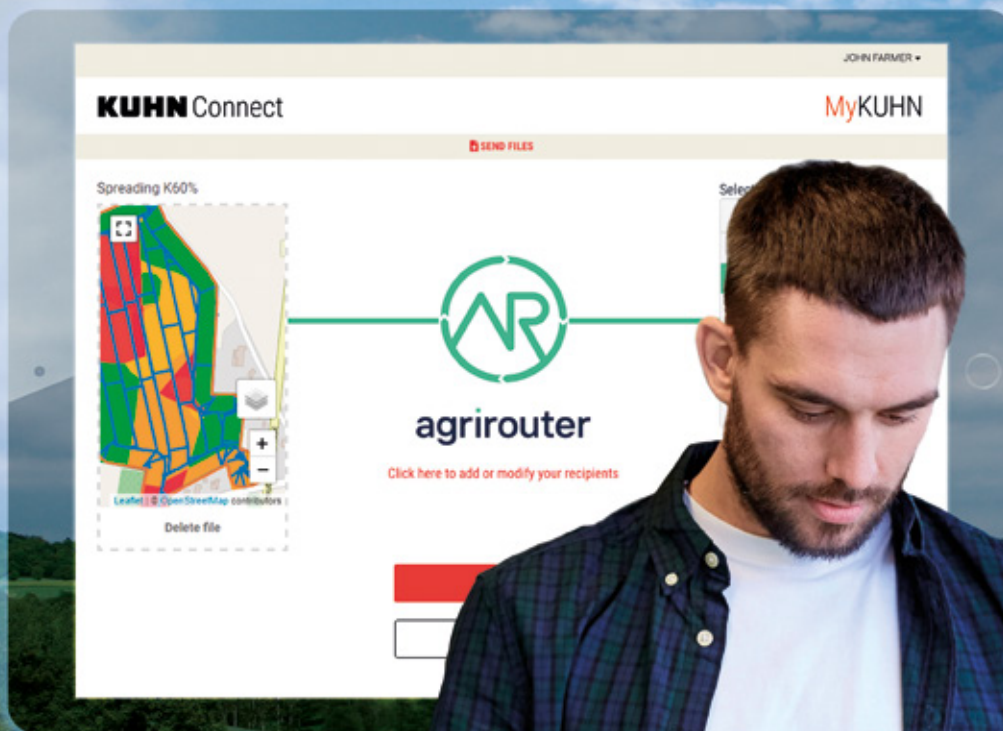
Everything within reach

Combine your CCI terminal with an ISOBUS CCI A3 joystick to control the main functions of your fertiliser spreader with your fingertips.



KUHN CCI Connect

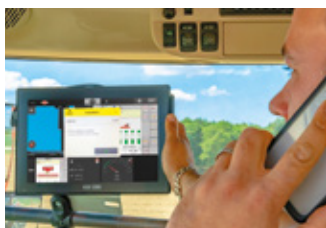
YOUR CCI 800 AND 1200 TERMINALS CONNECT TO INTERNET



MyKUHN

Find **KUHN CCI Connect**
packs on your MyKUHN space!
<https://mykuhn.kuhn.com/>

KUHN CCI Connect Lite (standard in some countries)



Online CCI Update

Your CCI terminal automatically
updated!
*The latest features
automatically installed.*



CCI Remote View

The latest features
automatically installed.
*On your MyKUHN account.
With your KUHN dealer.*

KUHN EasyTransfer (option)



KUHN EasyTransfer

Receive your prescription
maps on your terminal directly!
*And export your tasks at the
end of the job.*

**ready for
agrirouter**

Ready for agrirouter

Communicate with all software
connected to agrirouter!
*agrirouter -> multi-brand
compatibility.*

HIGH-END OPTIONS FOR OPTIMUM DRIVING COMFORT

AXENT 90.1 and 100.1 fertiliser spreaders can be equipped with a steering axle to ensure driving comfort and precise treatment-track following. For maximum visibility in the field and on the road, the AXENT 100.1 model is fitted with a backup camera as standard.



Backup camera

A backup camera is integrated into the AXENT 100.1 spreader's rear hood. It provides a clear and precise view for safe manoeuvring. This camera is a real comfort feature, particularly useful at work and in the shed.



Steering axle

AXENT 90.1 and 100.1 fertiliser spreaders can be equipped with an optional steering axle with gyroscope control system. Steering angle ranges from 10 to 17° depending on track width and tyre size. It is quick to connect as there are no specific assembly requirements. Simply position the gyroscope on the tractor. The slope-adaptation system is integrated, and manual control is possible.

Technical specifications

	AXENT 90.1	AXENT 100.1 AXIS POWERPACK	AXENT 100.1 UNIVERSAL POWERPACK
Hopper capacity (l)	9,400		
Maximum payload (kg)	7,400 – 8,400 – 10,400 (according to country)		
Filling height (m)	2.90		
Transport height (m)	3.15		
Weight empty without spreading module (kg)	4,600		
Track widths (m)	2.00 / 2.10 / 2.15 / 2.25 / 2.40 (on request)		
Axle	Rigid or steering (with gyroscope)		
Spreading modules	Mechanical AXIS PowerPack: granular fertilisers	Hydraulic AXIS PowerPack: granular fertilisers	UNIVERSAL PowerPack: soil-enriching agents
Working width (m)	18 to 50 (depending on fertiliser)		Up to 18 (depending on product)
Hopper bottom conveyor belt	Rubber - 8 mm thick, 800 mm wide - fully automatic		
Application rate proportional to ground speed (DPAE)	◆		
Application rate regulation	◆ EMC system - left/right adjustment every second		◇ EMC system - left/right adjustment every second
Section control	◆ VARISPREAD 8: Up to 8 sections ◇ VARISPREAD PRO: modification of drop point, disc speed, and continuous adjustment of application rate	◆ VARISPREAD PRO: modification of drop point, disc speed, and continuous adjustment of application rate	Automatic and simultaneous opening /closing of the 2 outlets
Border spreading	◆ TELIMAT border deflector ◇ GSE PRO border deflector	◆ To the left and right by reducing disc speed and modifying drop point ◇ GSE PRO border deflector	-
Headland management	OPTIPOINT - Automatic outlet opening and closing at headlands		
Weighing system	◆ 4 weighing cells indicate quantity remaining in the hopper		
Fertiliser level sensor	◆ (Hopper + AXIS PowerPack)		◆ (Hopper)
Backup camera	-	◆	
Hopper cover	◆ (Hydraulic folding)		
Hopper access	Foldable ladder	Foldable platform	
Terminal	ISOBUS		
Transfer of settings to the machine	◇ From the mobile Spreadset application + Wi-Fi module		
Hitch	Low drawbar with 40 mm Ø ring		
Min. power requirement (kW/hp)	135 / 180		
Hydraulic pressure and flow	35 l/min at 180 bar	Integrated hydraulic unit for belt drive, metering outlets and spreading discs	

◆ Standard ◇ Optional - Not available

KUHN SERVICES*

KUHN sos order - Express spare parts service, 24/7**
KUHN protect+ - The choice of professionals!
KUHN i tech - For ever quicker repairs!
KUHN finance - Invest rationally!

* Not all services are available in all countries. ** except January 1, May 1 and December 25

MyKUHNN

THE LINK TO MY SUCCESS

MyKUHNN is your online space. Sign up today and find out how MyKUHNN's exclusive services will help you manage your KUHN machinery and terminals more effectively. Log on with your computer, mobile phone or tablet computer to access spare parts catalogues, technical documentation and many connected services.



Check out KUHN's range of fertiliser spreaders.



1. MDS: Mounted centrifugal fertiliser spreaders - 2. AXIS: Mounted centrifugal fertiliser spreaders - 3. AXENT: Trailed centrifugal fertiliser spreaders - 4. AERO 32.1: Mounted pneumatic fertiliser spreaders - 5. AERO GT: Trailed pneumatic fertiliser spreaders

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