



Trailed Min-Till Seed Drills
ESPRO





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ESPRO

Trailed Min-Till Seed Drills

LESS POWER REQUIRED FOR GREATER OUTPUT.

KUHN OPENS A NEW CHAPTER IN ITS HISTORY OF UNIVERSALLY APPLICABLE SEEDING SOLUTIONS WITH THE ESPRO SEED DRILLS. DESIGNED FOR USE AFTER THE PLOUGH, MIN-TILL OR DIRECTLY IN CROP RESIDUES, THEY HAVE BEEN DEVELOPED TO MEET YOUR REQUIREMENTS WITH AS MUCH VERSATILITY AS POSSIBLE.



SAVINGS. A seed drill that is easy to pull to save on fuel? The ESPRO's low power requirement is due mainly to the specific design of its press wheels in front of the coulter bar.

HIGH SEEDING PRECISION AT HIGH WORK SPEED. A universal seed drill that works with precision at high speeds? The CROSSFLEX coulter bar places each seed exactly where it should go at speeds of up to 17kph.

ROBUST AND USER-FRIENDLY. A universal seed drill easy to maintain and quickly adjustable? With its simplified structure, compatibility with ISOBUS solutions and easy settings, the ESPRO seed drill never stays still for long.

ESPRO 3000 | 4000 R | 6000 R | 8000 R | 4000 RC | 6000 RC

THE ESPRO RANGE

3 TO 8 M ESPRO SEED DRILLS WITH SINGLE HOPPER

Output and more. Foldable ESPRO models up to 8 metres are able to carry up to 5,500l of seed. They meet the requirements of large cereal farms and contractors in terms of output. Seeding speeds of up to 17kph can be reached with 160 to 270 hp tractors (depending on working conditions and machine options), so you can optimise narrow seeding windows. No concessions are made in seeding precision with the CROSSFLEX coulters bar. The ESPRO universal seed drill is also ISOBUS-compatible.



MORE AGRONOMIC POSSIBILITIES (RC)

Two metering and distribution systems. ESPRO 4000 RC and 6000 RC foldable seed drills with 4 and 6m working widths respectively come with a hopper divided in two. This gives more possibilities for use! Having two metering units means twice as much user comfort as the units are identical and calibrated in the same way. Simple clips are used to adjust the seeding depth.



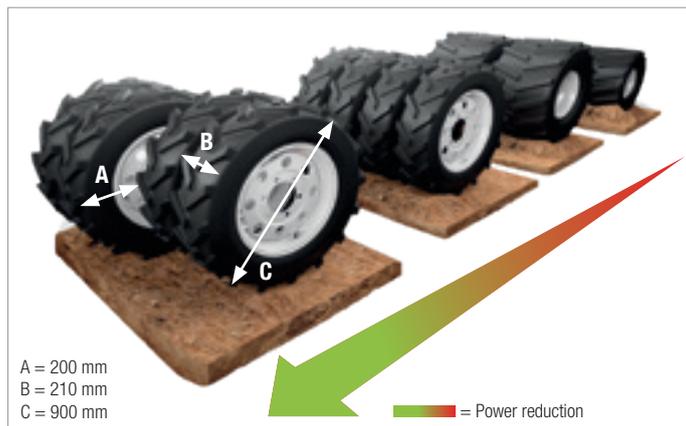
OFFSET PRESS WHEELS: A POWER-SAVING CONCEPT

The row of press wheels on the ESPRO seed drill is the key to increasing the profitability of your business. Its special design keeps soil accumulation to a minimum. Its power consumption and fuel requirement are remarkably low while work output is higher.

UP TO 16.4%* OF POWER SAVINGS

A power test was carried out at KUHN trial fields in 2015 on tilled and stubble ploughed land. The ESPRO 6000 R seed drill equipped with a row of offset tamping wheels was compared to another seed drill on the market equipped with a wheel train of aligned wheels. The overall test results showed up to 16.4%* power savings with the KUHN ESPRO seed drill.

* Power requirement may vary according to operating conditions and machine equipment.



THE KUHN +

Offset wheels with perfectly square profile

The packer wheels are offset 200mm front to rear, which eliminates the bulldozing effect: Soil does not accumulate in front of the wheel row. The drill is prevented from bouncing and seed delivery is regular. The tyres have a square profile which ensures uniform consolidation of the whole tyre width and on each seeding row. Deep treads crumble the earth to create a fine surface tilth.

THE KUHN +

Large diameter and narrow wheels

The 900mm packer-wheel diameter reduces rolling resistance and therefore the power required to pull the machine compared to smaller wheels. A width of 210mm and 85mm gap creates excellent soil and residue flow. The infiltration zone is also larger so soil erosion is reduced.

TILL, TAMP AND SEED IN ONE PASS

Six independent working sections ensure regular crop emergence in any conditions:

- on ploughed land,
- on min-tilled land,
- with direct seeding or residues.

All machine elements work independently.



1. Level...

Benefit from a row of front packer wheels, track-eradicators and a levelling bar, as an option. This equipment provides good soil-surface levelling before the two rows of working discs do their job, contributing to fuel savings and preventing the drill from sinking into light soils.

2. Till...

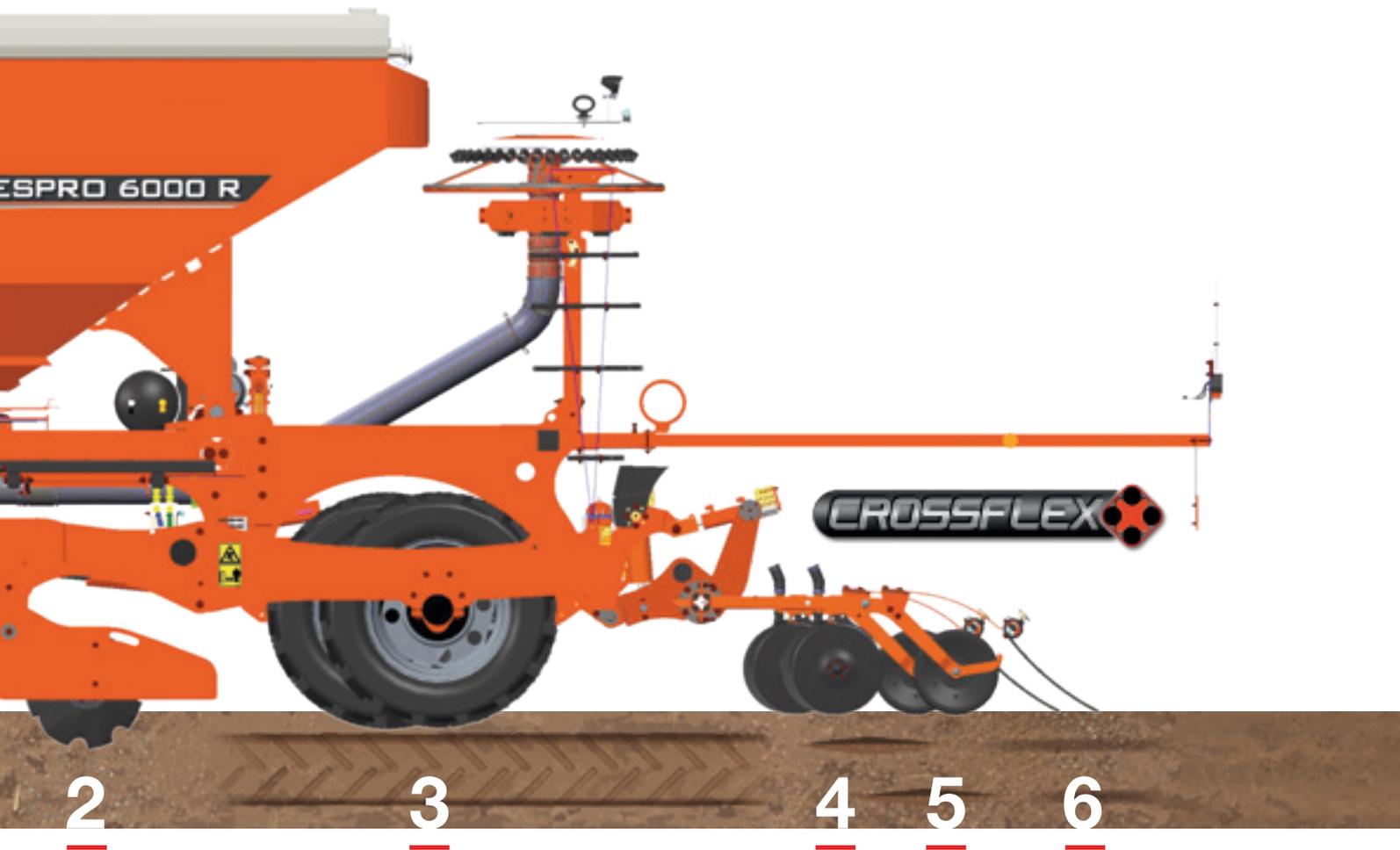
Two rows of working discs open and mix the soil at the front of ESPRO seed drills to ensure that residue is well incorporated into the surface layers. The 460mm disc diameter helps to create a fine tilth. The concave shape of the discs makes them effective in heavy soils.

3. Tamp...

Seed to soil contact and consistent seeding depth are vital to ensure uniform germination and crop establishment. ESPRO seed drills have a row of press wheels behind the working discs, each one of which consolidates the soil ahead of two seeding units.

Levelling adapted to diverse conditions

A row of front packer wheels levels the surface soil before the two rows of working discs and seeding units do their jobs. It also contributes to fuel savings and prevents the drill from sinking into light soil. Wheel pressure is hydraulically adjustable from the cab to ensure optimum performance in all soil conditions. This option is available for all ESPRO seed drills.



4. Seed at the right depth

The ESPRO universal seed drill features the CROSSFLEX coulter bar which provides uniform seeding depth in virtually all conditions and working speeds. The seeding units are mounted on a specially profiled bar on rubber blocks.

5. Ensure seed to soil contact...

Press wheels boost the transfer of humidity to the seed by capillary action. They also ensure seed to soil contact behind the seeding unit.

6. ...and cover

The covering harrow effectively covers each seed with soil. It also creates a loose soil surface to limit slaking which would inhibit seeding emergence.

ESPRO 3000 | 4000 R | 6000 R | 8000 R | 4000 RC | 6000 RC

CROSSFLEX: PRECISION AT HIGH SPEED

The CROSSFLEX coulters bar consists of single-arm seeding units mounted with a simple and effective rubber-rod system. This system is held tight in position, moving only under compression but cannot slide along the tube. The seeding unit returns quickly and precisely to its pre-set position resulting in precise seeding depth all over the plot, even at faster working speeds. Coulters pressure is therefore constant and coulters penetration guaranteed.



Work quality approved by the DLG institute

The DLG (German Agriculture Association) tested the ESPRO 6000 R seed drill in a static and field test in 2016. It scored convincing results in the «work quality» category and was awarded the «DLG approved» test quality label.

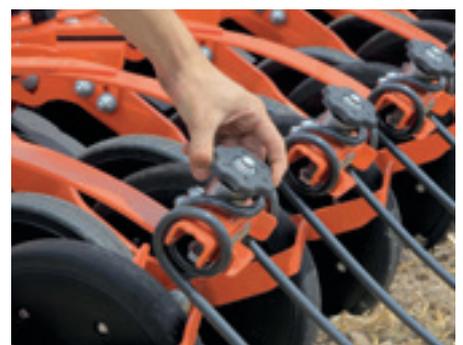
Cutting-edge double discs

The 350mm-diameter double discs with 41mm offset are designed with bevelled edge to penetrate soil efficiently and cut through crop residues. The front disc can wear down to 32mm before a difference between the discs causes soil clogging. The reduced disc angle increases beneficial inter-row spacing.



SMALL DETAILS GREAT PRECISION

The seed outlet is positioned in front of the discs' hub which provides for great seeding precision. The discs "accompany" the seed in its downward rotational movement. The outlet's special V-shape adds precision to seed delivery with no bounce, and air flow from the blower is evacuated upwards more easily.



The perfect finish

Press wheels ensure efficient seeding depth control and tamping. Being semi-pneumatic, they flex a little and have scrapers to keep them clean. A pair of covering-harrow tines is mounted behind each seeding unit. The tines are mounted on spring leaves to prevent blockages. Tilt angle is adjustable, no tools required, with lift-position available as an option.



A MULTITUDE OF POSSIBILITIES

Precise fertiliser positioning is essential. The fertiliser or second seed variety is placed directly in front of the press wheels by a row of single disc coulters. Each one, adjustable in depth, is located precisely in between two seed rows where they deliver the fertiliser. The seedlings get everything they need in their early growth stages without the risk of burning.

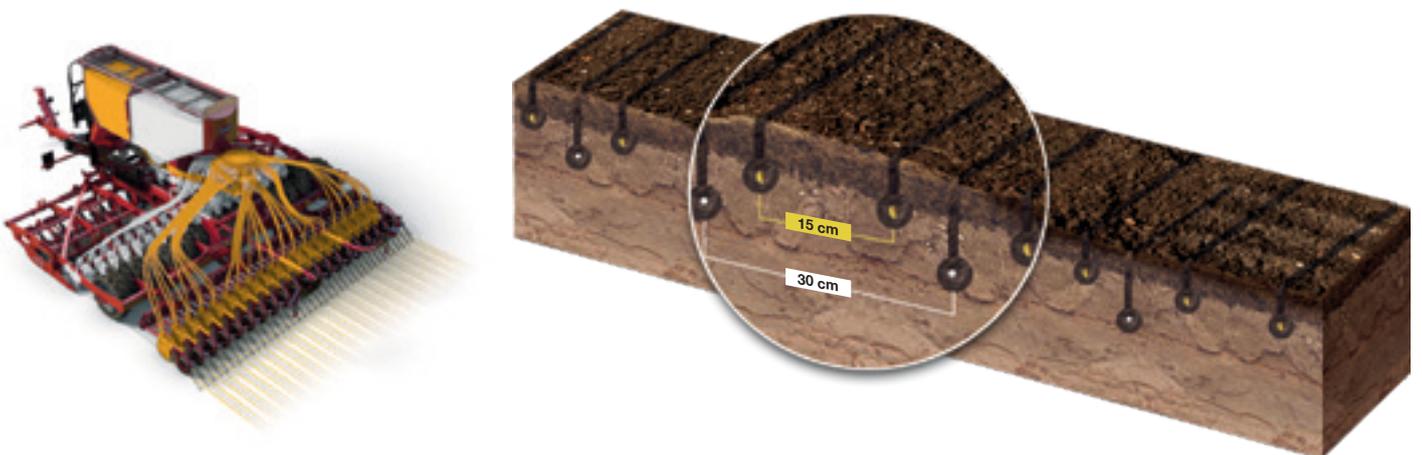
Main crop A

The entire hopper is used to load a single seed variety. Seeds go through both metering units but they are brought together in the main distribution head and sent to the CROSSFLEX coulters only.



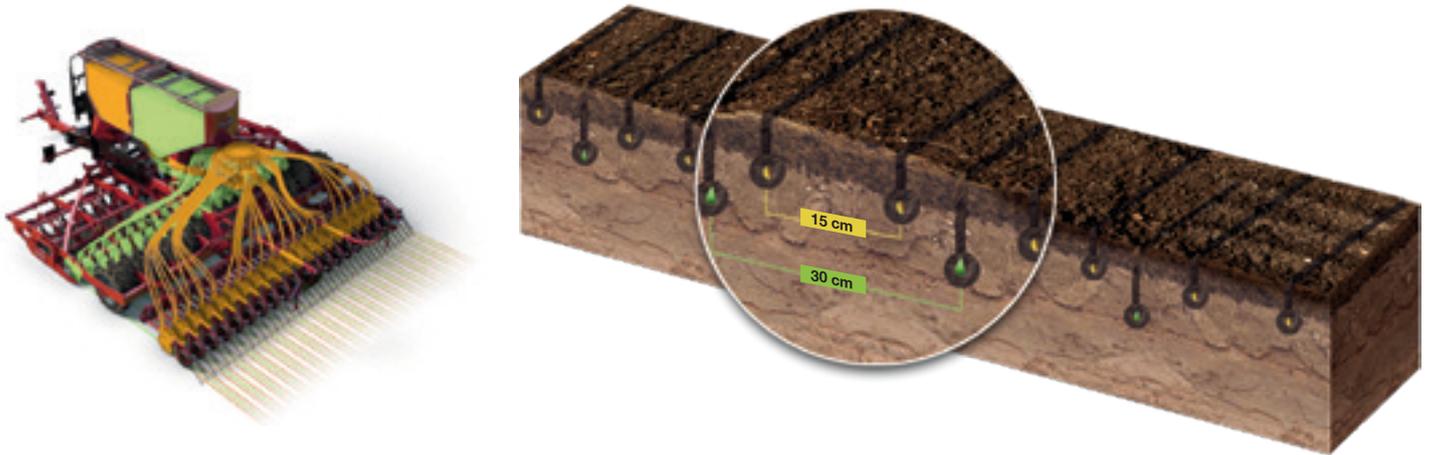
Main crop A + fertiliser A

You can meter and seed your main crop while fertilising in one single pass. The fertiliser is deposited under the roots between two seed rows. Adjustable fertiliser depth prevents seedlings from burning.



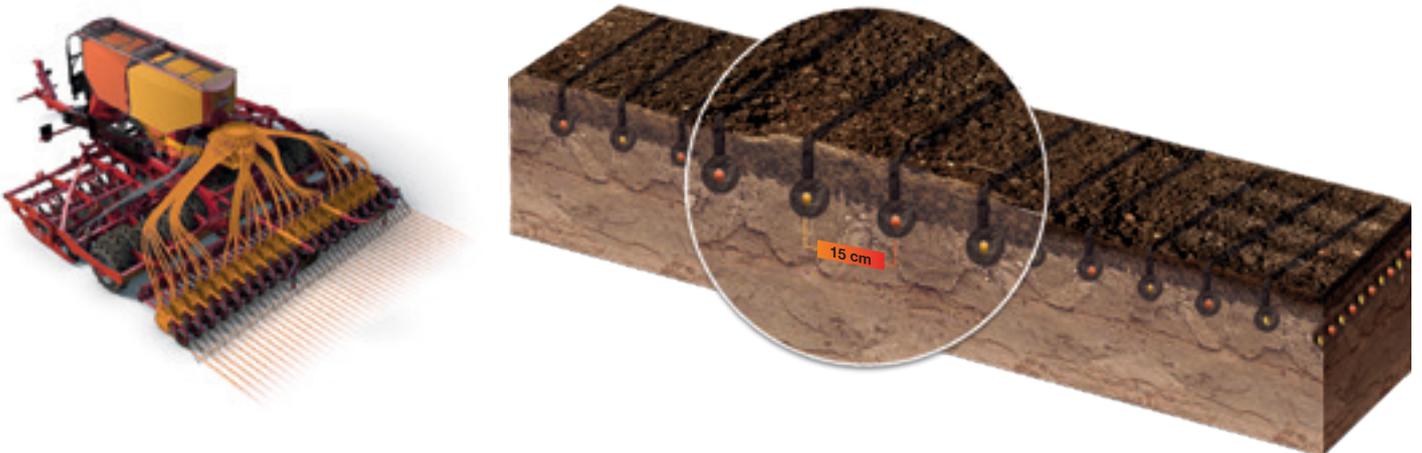
Main crop A + main crop B

You can also seed two different crops in different rows at different depths. This configuration is convenient for seeding cover crops or a mix.



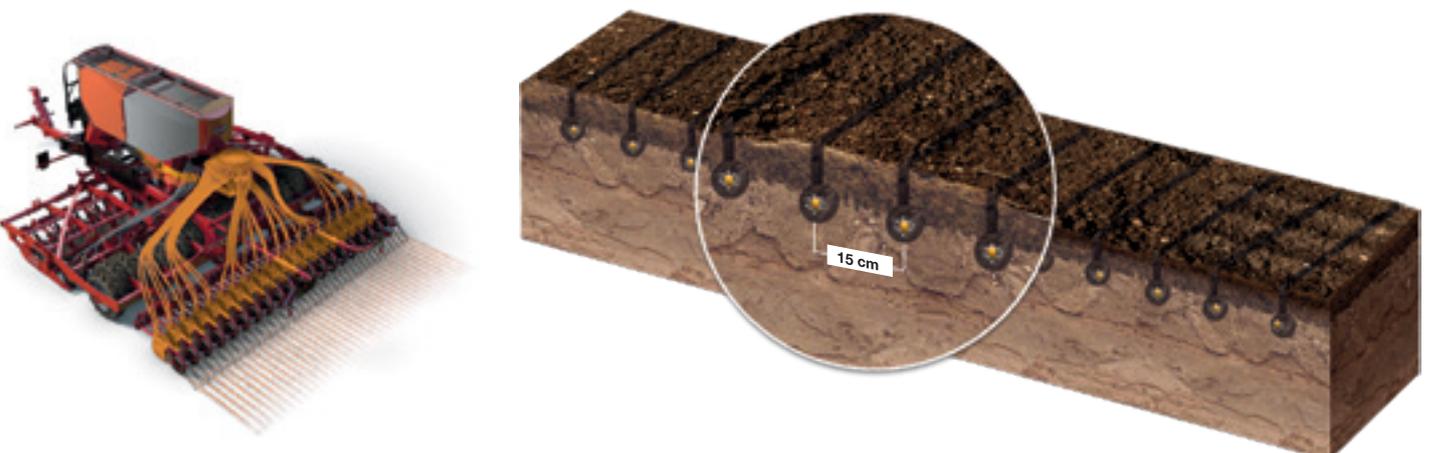
Variety A + variety B

The entire hopper is used for two varieties of the same seed species (conventional and hybrid). This allows for separate metering but joint seeding for precision drilling of a main crop.



Main crop A + fertiliser B

One part of the hopper holds the main crop while the other part holds the fertiliser that will be placed close to the seed: fertiliser placement in the row. This configuration is of real value for elements like phosphorus that are virtually immobile in the soil.



QUICK AND EASY ADJUSTMENTS

A machine that is very easy to handle and very simple to use with totally tool-free adjustments.

WITH SIMPLE CLIPS

The front working discs, seeding depth and coulter pressure are all adjusted by adding clips to the hydraulic cylinders. This system makes it possible to record settings for future reference. Seeding-depth and coulter-pressure cylinders are next to each other and easily accessible.



Simple seed calibration

Your control box guides you through the calibration process. One calibration button per metering unit reduces the number of times you have to climb into the tractor cab. A hook for hanging the weighing scales is provided on the side of the front platform. When working at night, the metering unit and hopper lights can be switched on and off with a conveniently located button.



Hugging ground contours

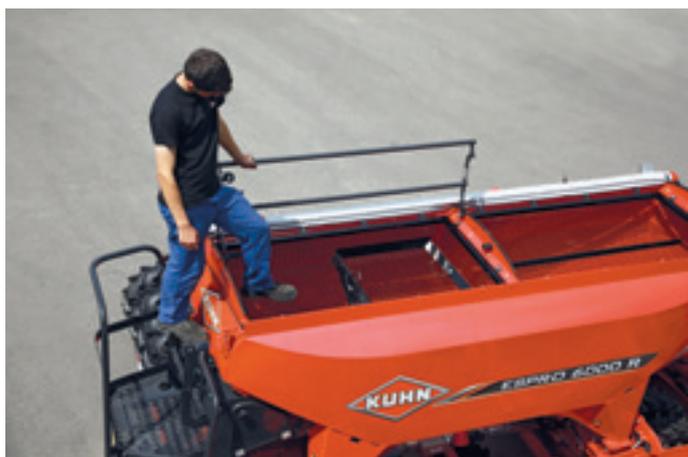
Three separate frame sections allow the outer wings of the ESPRO seed drill to smoothly adapt to the terrain across the entire drill width. Wing pressure is hydraulically adjustable.

COMFORTABLE HOPPER FEATURES

The hoppers on all ESPRO models are accessible at the front with a folding ladder. On ESPRO 4000 R / 6000 R / 8000 R / 4000 RC and 6000 RC, side access is possible via a platform placed above the working tools. The platform folds automatically when the machine is put into transport position. Cleaning is also made easy with steps inside the hopper.

LARGE-CAPACITY HOPPER: TIME SAVINGS

The hoppers of the ESPRO 4000 RC and 6000 RC seed drills, 4,000 and 5,500 l respectively, give you a lot of autonomy. The double hoppers on RC models are highly appreciated when metering fertiliser, two different main crops or a second variety. Open a hatch in the dividing wall to use the whole hopper capacity with a single variety for both models.



Easy filling and emptying

Large hopper openings and low filling heights on all ESPRO models facilitate filling with big-bags or in bulk. Practical platforms also enable you to fill the hopper by hand with small bags. A trap at the bottom of the hopper allows for quick emptying of residual seed. There is a filter above that prevents any blockage in the hopper.

Keep track of filling level

Two sensors in the hopper help to monitor filling height. Seed level is clearly shown on the screen of the terminal. In order to adapt the monitoring system to seed size, there are three different positions for the sensors, even with a full hopper.

SIMPLIFIED MAINTENANCE

The ESPRO seed drill was designed with the objective of making maintenance as easy as possible. This goal guided our choice of materials and our production and manufacturing techniques.

A SIMPLIFIED COULTER BAR

The CROSSFLEX coulters bar is made up of single arm seeding units using a simple and effective rubber rod mounting system. The only wear parts on the machine are the ones that touch the soil.



Easy greasing

The ESPRO seed drill has a simple overall structure so there are fewer grease points. And the grease points are easy to access for trouble-free maintenance.



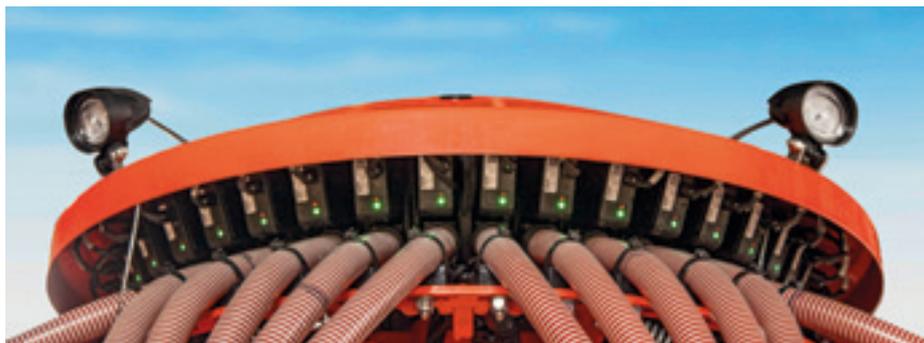
Maintenance-free disc hubs

The disc hubs of the front working discs are sealed and lubricated for life in our workshops. Absolutely no greasing!

VISTAFLOW TRAMLINING VALVE

VISTAFLOW is a smart tramlining valve that monitors seed passage inside seeding tubes. Fitted to the distribution head of each seeding row, the VISTAFLOW tramlining valve enables any tramlining rhythm and controls seed passage in each row.

MAKE LIFE EASIER WITH UNIVERSAL TRAMLINING!



Tramlining becomes possible even when seeding and spraying widths (sprayer and spreader) are incompatible. With this revolution, no more having to move valves or tubes on seeding units!

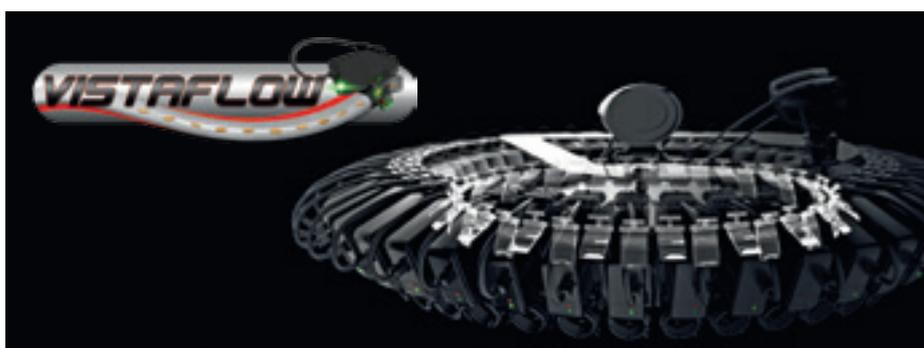
Access additional functions such as half-width seed drill shut-off (left or right) and every-other-row shut-off, directly from the cab. Different configurations can be saved via the user interface for subsequent operations. It saves the following tramlining configurations: working width, track and tyre width of sprayer or self-propelled sprayer and fertiliser spreader.



Need help?

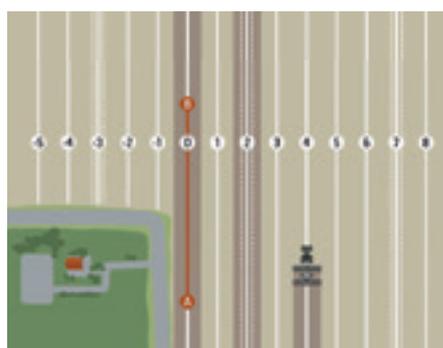
Use the KUHN VISTAFLOW configurator to find out how many valves you need to perform your tramlining rhythms according to working widths (sprayer and spreader).

Go to www.kuhn.com



Smart monitoring and detection of tube blockage: absolute peace of mind

VISTAFLOW tramlining valves feature smart monitoring and detection systems. If a blockage occurs in the distribution head, the control terminal automatically displays a warning message indicating the row concerned so that the necessary action can be taken rapidly. A red LED lights up on the distribution head to show exactly which valve is blocked. The KUHN ISOBUS terminal interface is easy to use and ergonomic. It provides fast access to previously saved tramlining configurations as well as fast and intuitive access to the automatic functions on the interface.



Benefit from Tramline Control technology

Generate your tramlining lines automatically using your GPS position. The Tramline Control* option is simple and gives you even more precision.

*CCI 800 or 1200 necessary with Parallel Tracking

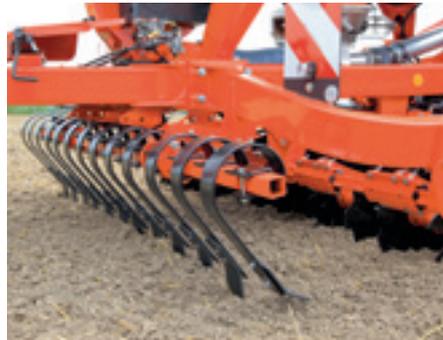
MORE OPTIONS AND FEATURES

All divider head outlets have a manual valve so that you can shut them off easily one by one if you want to increase the standard row spacing of 15cm. No tools are required for this nor is it necessary to remove the divider head cover or fit special plugs. Half-width shut-off and tramlining are available as options.



Stable during transport, travel at 40kph on the road

The centre section of the press wheels is lifted during transport. So the outer wheels bridge over any bumps in the road and the brake wheels maintain good road contact. With 40 % of the wheels on the road, stability is guaranteed. As the ESPRO drill is equipped with a pneumatic brake system it is certified for up to 40kph, even with a full hopper (according to legislation in force).



Track eradicators and levelling bar as options

Up to 2 pairs of track eradicators can be fitted behind the tractor wheels. A clever folding system enables quick retraction for headland turns. Sow directly after tillage with the levelling bar that clears clods and levels the soil perfectly.



THE KUHN +

Front wheel set as an option

You have two possibilities: the integral wheel set or the front wheel set that allows you to fit on track eradicators. This is useful for uniform tamping and easy clod crumbling.



Pre-emergence markers on separate arms as an option

The separate mounting concept makes it easy to position the pre-emergence markers behind any seed coulter to adapt to different tramline widths – very useful for contractors! Furthermore, being independent from the seed coulter means that seeding quality and coulter pressure are not affected.



Good lighting on the road and at work

Standard lighting and road signalling comply with legislation in force. The LED work light kit with 2 lights makes night work possible. Additional lights are located under and in the hopper. A camera can be fitted at the back of the machine to improve visibility during manoeuvres.



Machine hydraulics

The ESPRO seed drill is equipped with an adjustable hydraulic block that can work in load sensing mode to ensure optimum oil circulation or continuous pumping. The blower is powered by continuous oil circulation, as standard. A PTO pump can be fitted as an option.

ADDITIONAL SEEDING POSSIBILITIES WITH SEVERAL HOPPERS

Having several hoppers on the same seed drill provides many possibilities and advantages. You can plant two different crops and incorporate a fertiliser, sow a cover crop with three precisely dosed species, place starter fertilisers or immobile mineral elements close to the seed, and deliver products for protection against pests and slugs.

SH 1120 TO MIX TWO DIFFERENT APPLICATION RATES



The additional SH 1120 hopper with a capacity of 110 l is placed on the drawbar of the seed drill at the front of the machine. It allows you to sow a multitude of products with a seeding density ranging from 0.6 to 65 kg/ha for any working width ranging from 3 to 6 m.

An additional product contained in the SH 1120 hopper can be incorporated into the machine's first metering unit thanks to the flow of air from the seed drill's blower and the two electrically driven HELICA metering units.

The electrical drive of the distribution system facilitates the implementation of the calibration test. A simple switch starts the test.

*Can differ according to products and widths. For further details, please contact us.

ESPRO RC SH 1120

2 different crops + fertiliser at a different depth

Mix of cover crops (3 species) at 2 different depths

Mix of cover crops with 3 products (mixed in the same head) at the same depth

ESPRO SH 1120

Crop and micro-granules (slug pellets or starter fertiliser for example)

Mix of cover crop with 2 species



Precise metering in all conditions

Whatever the size of the seed, the HELICA groove makes it possible to change crops very easily. As SH seed drills are ISOBUS compatible, seed distribution is automatically controlled by the tractor's ground speed and/or hitch position.

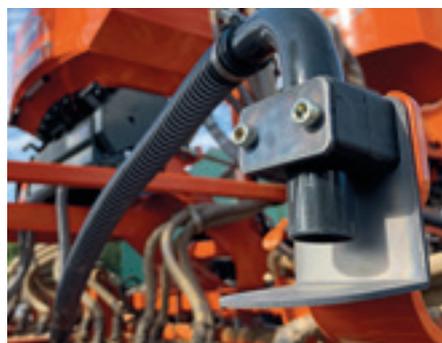


SH 1540 - 2560 - 4080 TO SOW SEEDS OR GRANULES DIRECTLY ON THE SURFACE



You can carry out broadcast seeding in a single pass when sowing your main crop. The SH 1540, 2560 and 4080 seeders have capacities of 150, 250 and 400 l respectively for working widths of 3 and 3.5, 4 and 6 m. They are capable of application rates ranging from 2.2 to 130 kg/ha. With the flow of air from the seed drill's blower or an external blower and the electrically driven HELICA metering units, an additional product contained in the hoppers can be spread from the back of the coulter bar with specific spreaders.

This is how you sow a perfectly dosed product on the surface in a single pass while sowing your main crop.
You can sow three different species of cover crops that are individually dosed using the two compartments of your main hopper plus the third additional hopper for small seeds for example, which germinate easily on the surface, grass seed or slug pellets.



Spreading plates

Electronic equipment:

KUHN seed drill	SH 1120	SH 1540 - 2560 - 4080
ESPRO	ISOBUS*	ISOBUS*
ESPRO RC	KSM 50	KSM 50

*: only if total number of metering units is not >2.

Technical specifications	SH 1120	SH 1540	SH 2560	SH 4080
Working width (m)*	from 3 to 6	3 and 3.5	4	6
Hopper capacity	110	150	250	400
Seeding density range (kg/ha)	0.6 to 65	2.2 to 130		
Distribution system	HELICA			
Power	By 12V electric motor			
Number of grooves = number of spreaders	2	4	6	8

*Can differ according to products and widths. For further details, please contact us.

IMPORTANT: THE METERING UNIT IS NOT ADAPTED FOR SANDY OR DUSTY PRODUCTS.

KUHN ISOBUS SOLUTIONS TAKE ADVANTAGE OF ISOBUS COMPATIBILITY ON ESPRO SEED DRILLS!



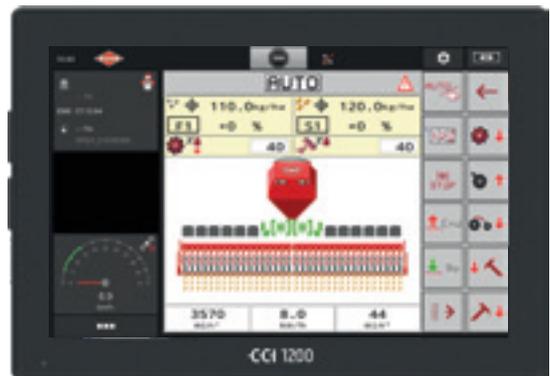
CCI 800 AND 1200: ONE TERMINAL FOR ALL KUHN MACHINES

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 antiglare touchscreen. Being capable of simultaneously displaying different essential information, connecting to a joystick and a camera, these terminals are highly versatile.



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



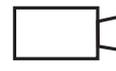
TECU
Recover basic tractor information



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

LOOK AT 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. seeding+fertilisation)



DATA TRANSFER
Data import/export via agrirouter



PARALLEL TRACKING
Guidance + tramlining assistance by GPS with the Tramline Control function

Everything at your fingertips

Combine your CCI terminal with your new CCI A3 ISOBUS joystick and control the main functions of the seed drill with your fingertips. Start your headland turn sequence simply, using the CCI A3!



TESTIMONIALS...

THESE SEED DRILLS HAVE BEEN TRIED AND TESTED IN DIFFERENT COUNTRIES.
THEY HAVE PROVEN EFFECTIVE IN DIVERSE CONDITIONS.



Ole JENSEN

BRDR, THORSEN, DENMARK

"It gives you a degree of freedom and certain advantages to have the fertiliser equipment too. For instance this autumn we seeded two types of cover crop; spring barley and fodder radish, the barley with the fertiliser discs and the radish with the regular seeding discs. I have now seeded different things with the machine and they have all germinated well, everything looks promising."



Christian GOLDACKER

AGRICULTURAL COOPERATIVE, SACHSEN-ANHALT, GERMANY - MIXED FARM WITH 850 HA ARABLE LAND AND 250 HA GRASSLAND.

"This autumn we drilled 600ha with the ESPRO drill. The particularity at our location is the diversity of soil quality, but the drill managed the varying conditions wonderfully. We have used the machine fifty-fifty on ploughed land and after the disc harrow behind a tractor of 200hp, which had no problem pulling the machine. On humid plots after sugar beet the machine was also very easy to pull due to the large front packer wheels. It requires less fuel than our previous drill."



Pierre CHAZE

CONTRACTOR, MAYENNE, FRANCE - 2500 HA (WHEAT, HORSE BEANS, PEAS, RAPESEED, TITICALE, LUPINE, SUNFLOWER, MAIZE).

"We quickly noticed how versatile the ESPRO was on our farm. The goal was to be able to sow two seed varieties at different depths on the same seeding line and especially to be able to separate the different seeds. The seed drill allowed us to develop the direct seeding activity."



Arkadiusz SMAGA

KAKOLEWICE, WEST POMERANIAN VOIVODESHIP, POLAND - FARM WITH 250 HA, MAIN CROPS: WHEAT, TRITICALE, MAIZE, SUGAR BEET

"I use the ESPRO 6000 RC seed drill and you might think that everything has already been done in terms of design. Previously I used a seed drill from another brand and I can confirm that the advantage of the ESPRO is shorter seeding time. Its design makes it possible to seed at higher speeds which translates into better output. On my minimum tillage fields I can seed even at 15kph with a 250-260 hp tractor. I'm very satisfied with the ESPRO."

Find all testimonials
on our **Youtube channel**



Scan the QRcode



Technical specifications

	ESPRO 3000	ESPRO 4000 R	
Working width (m)	3.00	4.00	
Transport width (m)			
Number of rows for seeding / spacing (cm)	20 / 15	26 / 15.38	
Number of rows for fertilisation / spacing (cm)			-
Hopper / partition capacity (l)	2,500		3,500
Linkage			
Required hydraulic equipment	2 x SA (blower drive, hydraulic unit) 1 x free return (common to unit and blower) 1 DA (central wheel lift)		
Required electric equipment			
Required tractor power (kW/hp)	74-147 / 100-200	117-170 / 160-230	
Ground speed (kph)			
Speed signal			
Weight with covering harrow approx. (kg)	3,700	5,500	
Loading height approx. (m)	2.40		2.65
Metering			
Number of metering units			1
Metering unit drive			
Disengageable agitator			
Hopper/metering unit separating hatch			
Emptying hatch			
Blower drive			
Number of soil preparation discs over 2 rows	24	32	
Number of wheels (900 x 215mm)	10	13	
Row spacing (mm)			-
Type of seeding unit			CROSSFLEX
Terminal			Machine
Electronic monitoring			
Electronic application rate modulation			
Type of seeding unit for fertilisation			-
Loading platform			
Lighting of metering unit and hopper inside			

◆ as standard ◇ as optional equipment - unavailable - Optional equipment: front press wheels across the whole width, front leveller, CCI 1200 terminal, CCI 800 turbine, in-cab depth adjustment of working discs, loading auger (according to model).



KUHN PARTS



Designed and manufactured to rival time. KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.

ESPRO 6000 R	ESPRO 8000 R	ESPRO 4000 RC	ESPRO 6000 RC
6.00	8.00	4.00	6.00
3.00			
40 / 15	52 / 15.38	26 / 15.38	40 / 15
		13 / 30.77	20 / 30
	5,500	4,000 (60/40)	5,500 (50/50)
Cat. 3 lower link arms			
2 x SA (blower drive, hydraulic unit) 1 x free return (common to unit and blower)			
1 standardized 7-pin plug for road signalling			
147-257 / 200-350	198-294 / 270-400	132-187 / 180-250	198-294 / 270-400
7-17			
Radar fitted on the machine			
8,000	10,800	6,000	9,200
	3.15	2.80	3.15
Centralised volumetric metering unit (1 to 430 kg/ha)			
		2	
Electric			
◆			
◆			
◆			
Via tractor hydraulics			
48	64	32	48
20	26	13	20
		307,6	
- single arm unit with hydraulic pressure and seeding depth adjustment, offset double discs			
ISOBUS compatible - Compatible with a CCI terminal and AEF-certified tractor terminal			
Seed level - Blower speed - Metering unit hatch and rotation			
◆			
	Single arm seeding unit with scraper - hydraulic depth adjustment		
◆			
◆			

terminal, CCI A3 joystick, monitoring + VISTAFLOW universal tramlining, VISTAFLOW half-width shut-off, track eradicators, pre-emergence markers, PTO driven

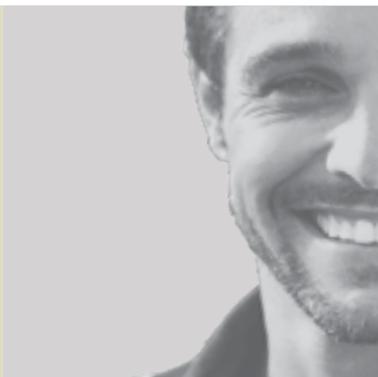
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