Front hoppers – Seeding bars

TF 1512 / TF 2300 C / BTF / BTFR

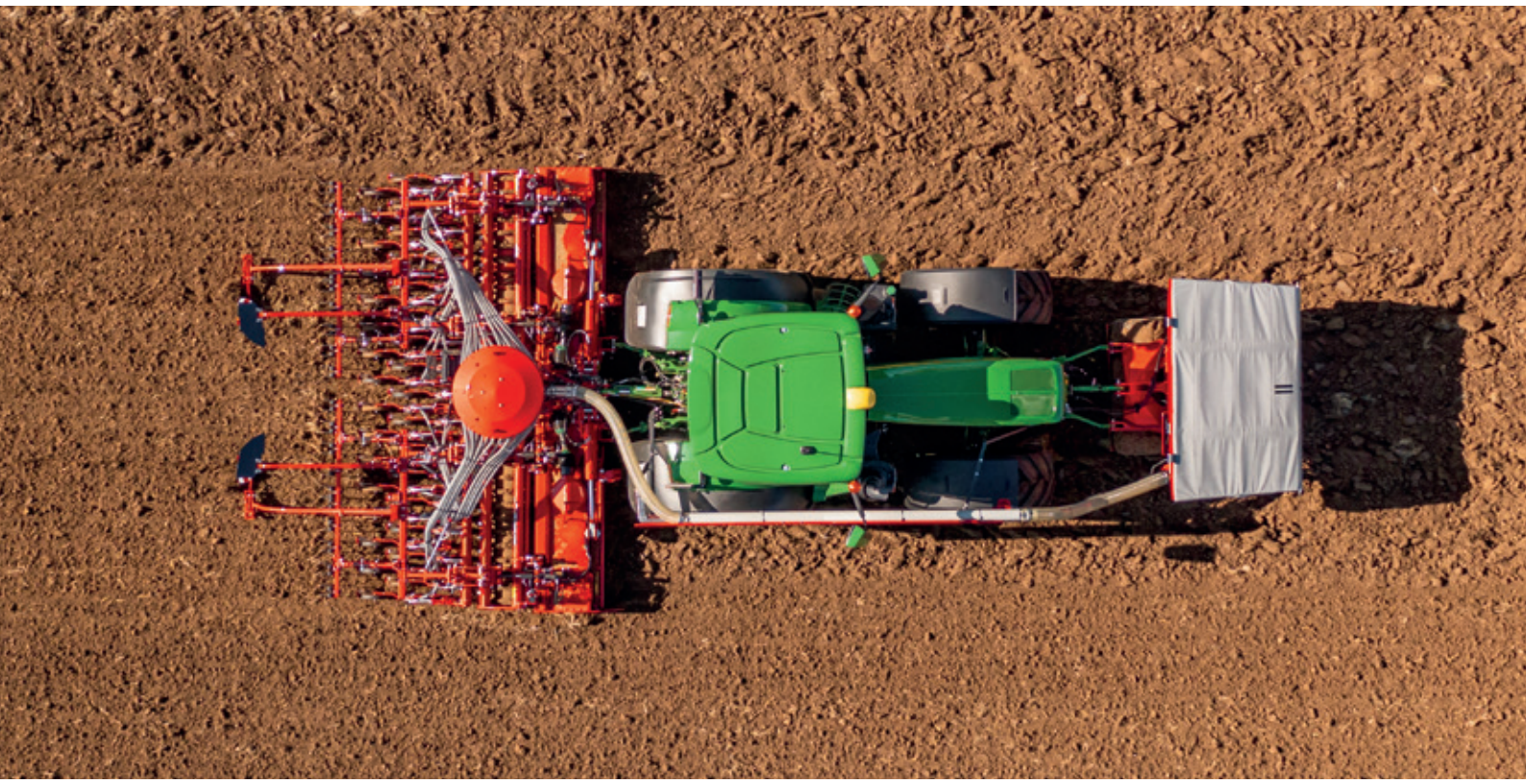












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TF **BTF** **BTFR**

Front hoppers - seeding bars

FROM VERSATILITY TO AUTONOMY

BTF AND BTFR SEEDING BARS, WITH WORKING WIDTHS OF 3.00 TO 6.00 M, SOW AT CONSTANT DEPTHS AND ARE QUICK TO ADAPT TO WORKING CONDITIONS. WHEN COUPLED TO A POWER HARROW AND A FRONT HOPPER, THEY FORM A WELL-BALANCED AND HIGH-PERFORMANCE COMBINATION WITH HIGH AUTONOMY.



OPTIMUM WORK OUTPUT
KUHN seeding combinations optimise output by limiting downtime thanks to: high-capacity hoppers, hydraulic or centralised manual seeding-depth adjustments, and the possibility of fitting the distribution head with VISTAFLOW valves.

RELIABILITY AND PRECISION
BTF rigid and BTFR 1030 folding seeding bars are equipped with SEEDFLEX 1000 seeding units well-known for their precision, even at high speeds. Some models are also available with Suffolk coulters (BTFR 1010), or single-disc coulters (BTFR 1020) for working conditions that are particularly difficult.

BALANCE AND VERSATILITY
Your comfort is our priority! Adding a TF 1512 or TF 2300 C front hopper to a KUHN seeding combination composed of a seeding bar and a power harrow balances the load between the tractor's front and rear axles.

TF

FRONT HOPPER
TF 1512

The TF 1512 front hopper, with a total capacity of 1,500 litres (2,000 litres with extension), provides a high-performance combination that adapts equally well to seeding crops and cover crops as well as fertilisation. It can be coupled to a seed drill, precision seed drill, or tillage tool. It's the versatile seeding solution, highly technical and easy to use.



FRONT HOPPER
TF 2300 C

The TF 2300 C front hopper, with a total capacity of 2,360 litres, is pressurised and divided into two compartments (60%/40%). It is equipped with the new OPTISEED metering unit with cassettes which can seed two products, mixed or not, in a single pass. It can be coupled to a seed drill, precision seed drill, or tillage tool. A winning combination that ensures productivity and versatility, while at the same time prioritizing ergonomics and user comfort.



BTF **BTFR**

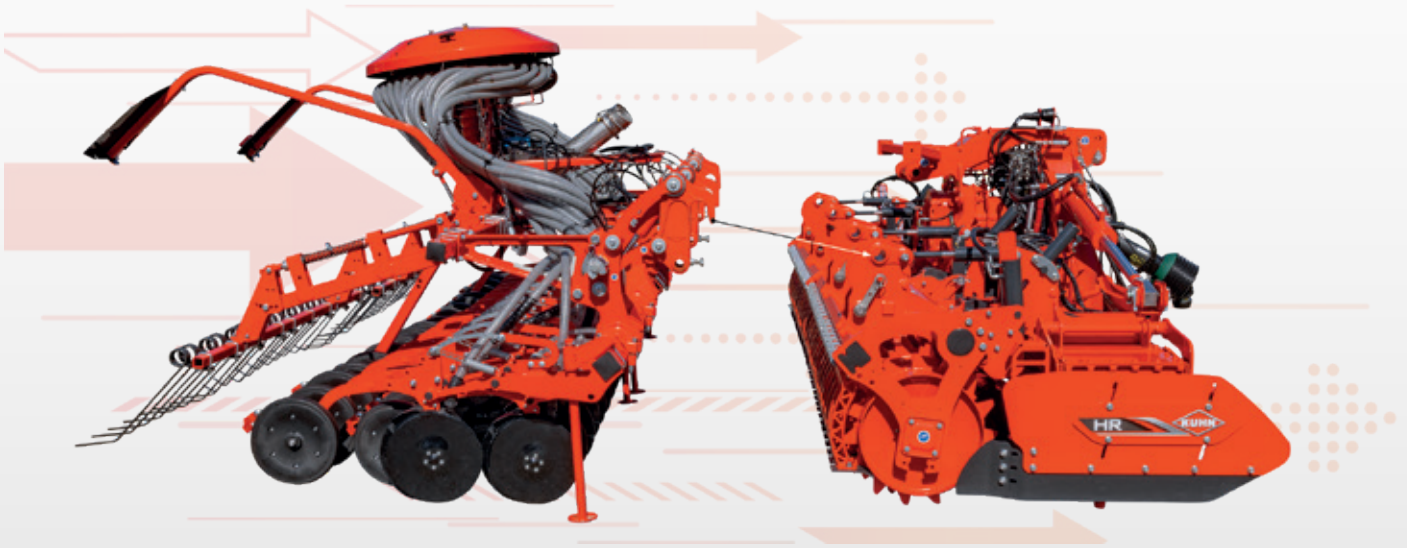
RIGID SEEDING BARS
BTF 1030

BTF 3030 and 4030 rigid seeding bars, with working widths of 3.00 and 4.00 metres respectively, are compatible with KUHN's HR 1020, 1030 and 1040 power harrows. The 3.00 metre version can also be coupled to a CD 3020 cultivator with discs. These combinations can work in diverse conditions such as after the plough or as part of a min-till method. The seeding bar is fitted to the power harrow's roller making it a perfectly integrated seeding combination with optimum ground-following capacities.



FOLDING SEEDING BARS
BTFR 1010 - 1020 - 1030

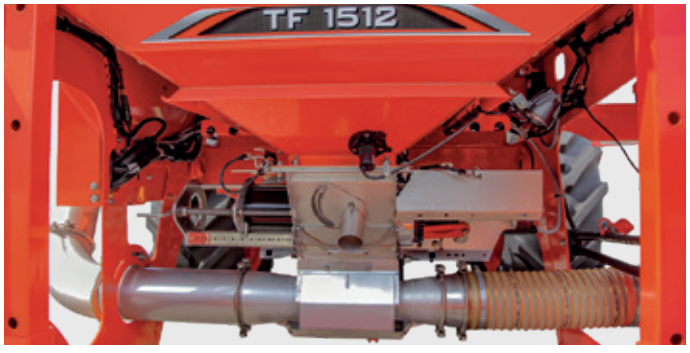
BTFR 1010, 1020, and 1030 seeding bars, with working widths from 4 to 6 m depending on the model, attach directly to the roller frame on KUHN's HR RCS range of power harrows. This configuration ensures excellent ground following and optimal driving comfort. Hydraulic settings for the power harrow's working depth, the levelling bar, and seeding depth, enable fast adaptation to working conditions. These features make BTFR seeding bars precise, practical, and adaptable tools!

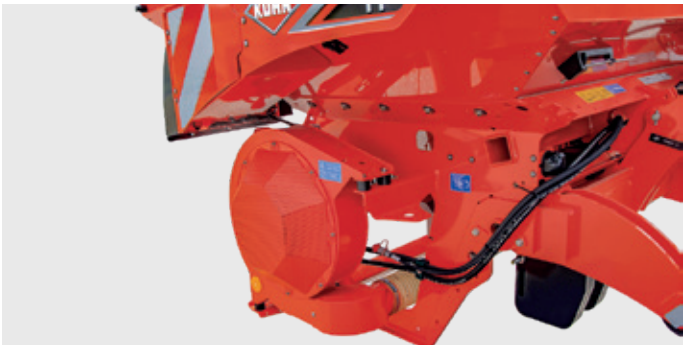


TF 1512

MORE AUTONOMY WHILE KEEPING THE BALANCE

KUHN seeding bars are combined with the TF 1512 front hopper which can be controlled with an ISOBUS terminal or QUANTRON S-2 control box (for non-ISOBUS tractors). The front hopper has a capacity of 1,500 litres (2,000 litres with extension) which reduces downtime during seeding. It is easy to fill with a big bag due to its large opening (210 x 124 cm). It is low and compact to ensure good visibility on the road and in the field.





Precise and regular metering

The TF 1512 front hopper is equipped with a central metering unit with volumetric splines capable of distributing all seed types, from the smallest to the largest, with the same precision and uniformity, without having to change any parts. The metering unit has a wide application-rate range from 1 to 430 kg/ha. It is also possible to disengage the agitator, no tools required, to protect delicate seeds. The seeds are then transported pneumatically, with the air flow, to the distribution head and then sent, uniformly, towards the seeding units.

A powerful blower

The powerful blower on the hopper prevents clogging with dense volumes of seeds and at high speeds. The blower can be powered by:
- the tractor's hydraulic system (LOAD SENSING);
- or an independent hydraulic circuit (VARIO).

With the VARIO independent hydraulic unit and its regulation valve, the speed of the blower is not impacted by changes in engine speed.





Easy to use, fast, and practical
To start the calibration test, it's so easy! There's a simple start/stop button next to the metering unit. Once the weight has been entered into the terminal, the motor does the rest by automatically adjusting the rotation speed of the metering unit.

A well-balanced combination
Adding a TF 1512 front hopper to a KUHN seeding combination, composed of a seeding bar and a tillage tool, balances out the weight between the tractor's front and rear axles. This provides more operating comfort on the road and in the field. It is easier to manoeuvre and there is less soil compaction.

TF 2300 C

INCREASED POSSIBILITIES FOR HIGHER COMFORT

The world of farming is changing and methods are becoming more diverse: crop rotation, the use of multi-species cover crops, spot fertilisation, stubble cultivation and seeding simultaneously, etc. The new, TF 2300 C, universal front hopper, can be coupled to a seed drill, precision seed drill, or stubble cultivator, making it possible to adapt to these new practices.





Many possibilities

The new, TF 2300 C, front hopper, with a total capacity of 2,360 litres, has two compartments (60% / 40%). In a single pass, this machine configuration is capable of establishing cover crops consisting of several precisely-dosed species, delivering starter fertiliser or immobile nutrients as close as possible to the seeds, and protecting the seeds from pests.

Optimum weight distribution

Adding the front hopper to a tillage tool balances out the weight between the tractor's front and rear axles and makes for increased user comfort. The front hopper can be fitted with either a carrying frame or the new front packer. The front packer is equipped with four large-diameter wheels (Ø 822 mm) that reduce rolling resistance and limit compaction.





Easy to load
This hopper is easy to load with bags or big bags thanks to its wide opening and loading platform.

Excellent visibility
The low and compact design of the TF 2300 C hopper provides excellent visibility on the road and in the field. It is positioned very close to the tractor to reduce overhang. This makes manoeuvring easier and reduces soil compaction.

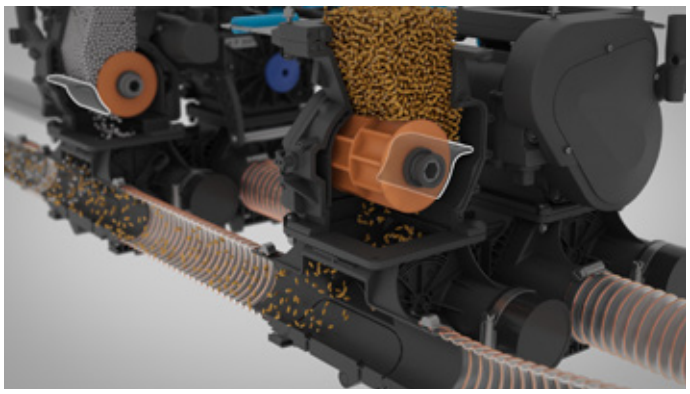
PRECISE METERING, UNIFORM DISTRIBUTION

The new, TF 2300 C, front hopper, is equipped with the new OPTISEED metering unit with cassettes. Together with the pressurised hopper, this metering unit ensures many application rates up to 500 kg/ha at 15 kph. Each compartment has two independent metering units so two products can be metered individually and then mixed (single shot) or delivered separately (double shot).



Ultra precise metering

The OPTISEED metering unit is extremely precise, even at high working speeds and with any shape and size of seed or fertiliser. Choosing the right cassette is essential to obtaining the best performance from your tool. If necessary, an agitator can be used to help odly-shaped seeds flow more smoothly or to break up any clumps of fertiliser.



Uniform mix and even distribution

The hopper is pressurised to ensure that the metering unit and splines get a constant supply. It also features a powerful blower, powered by the tractor's hydraulic system, which provides a regular flow of seeds and a homogeneous mix, while preventing clogging risks when seeding at high speeds.



Quick and easy cassette change

To make sure you choose the right cassette, just enter the product name, working speed, and the required application rate into the ISOBUS terminal. It's so easy to change, no need to unscrew anything. Just flip the handle, replace the cassette, and you're ready to go. When changing cassettes, the closed guillotine hatch separates the seeds from the cassette.



Intuitive calibration test

Start and stop the calibration test with the calibration button next to the metering units. Once you have entered the weight into the terminal, the motor takes care of the rest by automatically adjusting the rotation speed of the metering units.

BTF 1030

A PERFECTLY INTEGRATED UNIT

BTF 3030 and 4030 rigid seeding bars have working widths of 3.00 and 4.00 metres respectively and are equipped with SEEDFLEX 1000 seeding units for precise, fast, and regular seeding. Directly mounted on the roller, they can even be coupled to a power harrow with hydraulic lift system without having to disassemble the lift system. A modular concept which simplifies changing from a cereal seeding bar to a precision seed drill.







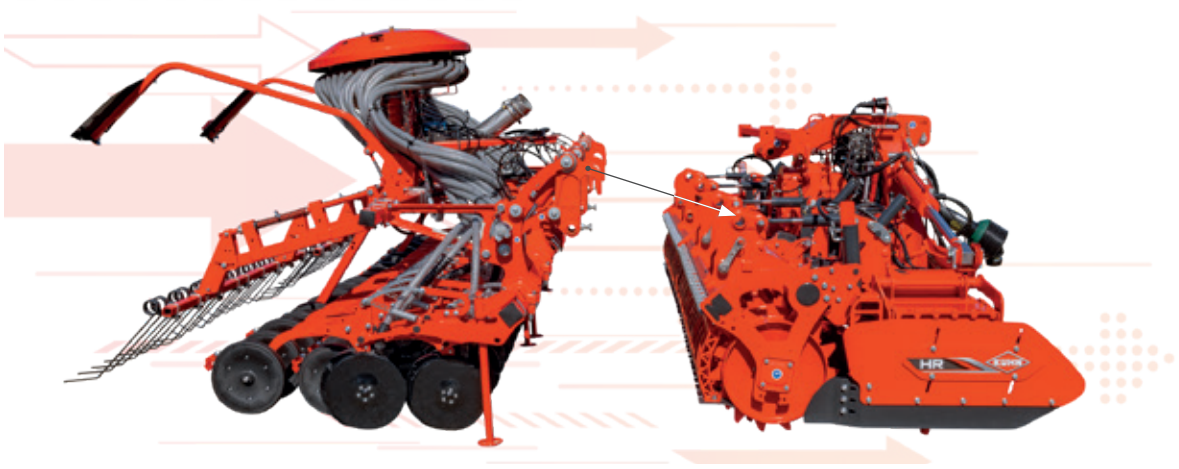
A perfect combination
BTF 1030 seeding bars are compatible with KUHN HR 1020, 1030 and 1040 power harrows. The 3.00 metre version can also be coupled to a CD 3020 disc cultivator for weed destruction, burying crop residues, and crumbling the top few centimetres of the soil for optimum germination. It is quick to couple and uncouple without the use of tools. It is fitted to the power harrow's roller, so it is perfectly integrated into the seeding combination and follows the ground beautifully.

Centralised settings
Seeding depth is set centrally on both sides of the seed drill with a key and a marker. Adjusting the tillage tool does not affect seeding depth. A real time-saver when faced with increasingly short weather windows.

BTFR 1010 | 1020 | 1030

PRECISE, PRACTICAL, AND ADAPTABLE

Seeding bars in the BTFR 1010, 1020, and 1030 ranges are equipped either with Suffolk coulters, single-disc coulters or SEEDFLEX 1000 seeding units. With working widths of 4 to 6 m, they attach directly to the roller frame on KUHN's HR RCS range of power harrows. In-cab hydraulic settings for working depth, levelling bar and seeding depth, controlled via the front hopper's ISOBUS terminal, offer the user optimal working comfort!



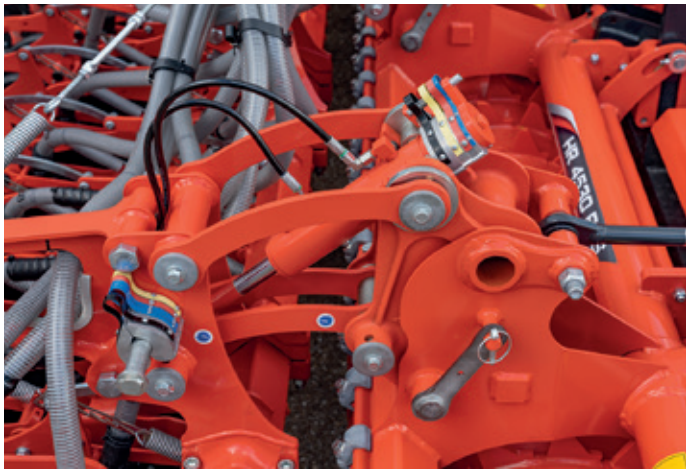
Quick and easy coupling/uncoupling

Power harrows in the HR RCS range are designed to work solo or as part of a combination with a cereal or precision seeding bar. The power harrow's roller frame is equipped with linkage components that facilitate coupling/uncoupling the seeding bar. The seeding bar has hydraulic tie rods that contribute to reducing overhang. It is also possible to pivot the seeding bar to use the power harrow solo without having to remove it.

A seeding bar fitted to the power harrow's roller

The seeding bar is fitted directly to and guided by the power harrow's roller. This has many advantages:

- the centre of gravity is closer to the tractor;
- the seeding combination is perfectly integrated;
- the power requirement for lifting is lower;
- seeding depth is always constant, irrespective of the power harrow's working depth. Adjusting one does not affect the position of the other;
- Stability and ground following is optimum, even in stony plots.





Hydraulic settings, as standard
To adapt the parameters of your seed drill to variations in soil texture between plots and thus achieve optimum working quality, you have to be able to adjust it quickly and easily. Seeding depth can be adjusted hydraulically from the tractor cab directly. Cylinders with shims are used as a reference point. The power harrow's hydraulic unit is controlled from the front hopper's ISOBUS terminal directly.

Safe transport
The removable carrying frame bears the weight of the combination during transport so that the GVWR and maximum load on the tractor's rear axle are respected. The large-diameter, twin wheels on the chassis can swivel. The carrying frame is easy to remove thanks to the semi-automatic coupling system. During work, you can leave it at the end of the field to reduce the weight of the combination. For road transport the hydraulic top link is set to float position to ensure smooth driving on any soil.

BTFR 1010

THE EFFICIENCY OF SUFFOLK COULTERS

BTFR 5010 and 6010 seeding bars, with working widths of 5 and 6 m respectively, are equipped with Suffolk coulter seeding units for working in varied and difficult conditions. They are perfectly adapted to seeding in clayey, sticky, or stony plots.



Little maintenance

The specific shape of the Suffolk coulters enables precise seed delivery in the furrow, in any conditions. Due to their robust design, little maintenance is required. Suffolk coulters are fitted with just one screw to make them quick and easy to change, if necessary.

Lower stop as standard

Easier passage in difficult conditions

The Suffolk coulters are fitted in 3 rows, spaced at 33 cm, which makes it easier to pass through plant residues and stones, as well as wet or clayey conditions.

Uniform seeding depth

Seeding depth can be controlled with precision, even in heterogeneous plots that have both clayey and silty areas, for instance. This is thanks to the hydraulic settings for seeding depth and coulter pressure (up to 25 kg) as well as the standard lower stop. These settings are independent from each other.

BTFR 1020

THE VERSATILITY OF SINGLE DISC COULTERS

BTFR 4520, 5020, and 6020 seeding bars, with working widths of 4.5, 5 and 6 m respectively, are equipped with single-disc-coulter seeding units that can adapt to different types of soil and farming methods. They are positioned over two rows which facilitates passage in wet conditions and plant residues. These seeding bars can be fitted with press and depth-control wheels to promote soil-seed contact.



Perfect furrow opening
With a large diameter disc (Ø 327 mm), the singe-disc-coulter seeding unit opens the furrow beautifully. It is slightly tilted which reduces soil spray in the row and is particularly useful when seeding at high speeds.

Precise seed delivery
A cast iron Suffolk coulter, on the side of the disc, consolidates the furrow and places the seed with precision. The standard lower-stop system and possibility of hydraulic coulter pressure adjustment up to 32 kg, enable precise seeding-depth control. This configuration is ideal for shallow seeding with high pressure.

Easy passage in plant residues and wet conditions
The discs are positioned over 2 rows, spaced at 27 cm, to facilitate passage in wet conditions or plant residues.

THE PRECISION OF SEEDFLEX 1000 SEEDING UNITS

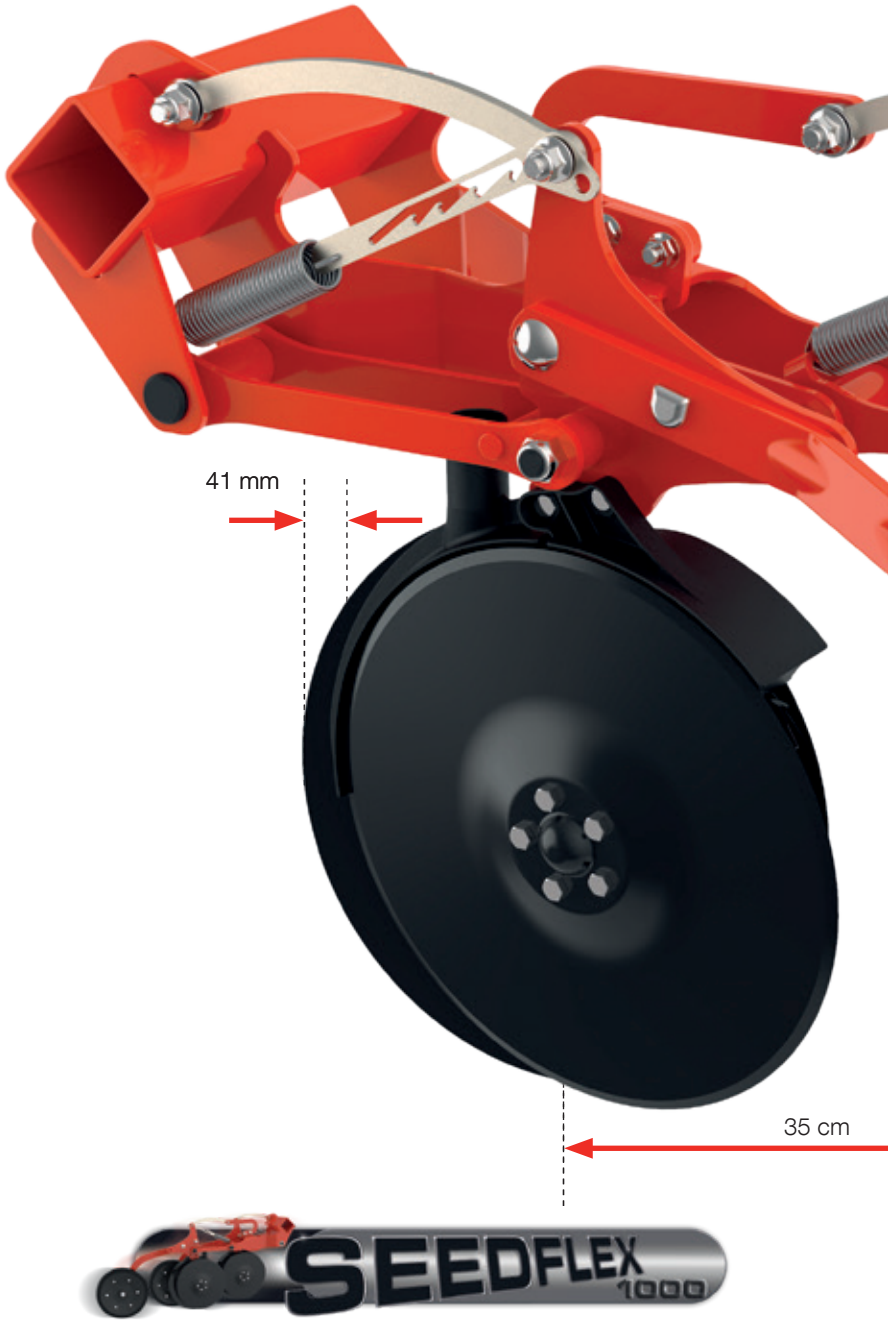
SEEDFLEX 1000 seeding units feature offset double discs that open the furrow perfectly. The discs are mounted on a parallelogram and equipped with press wheels that control seeding depth with precision and optimise seed/soil contact.

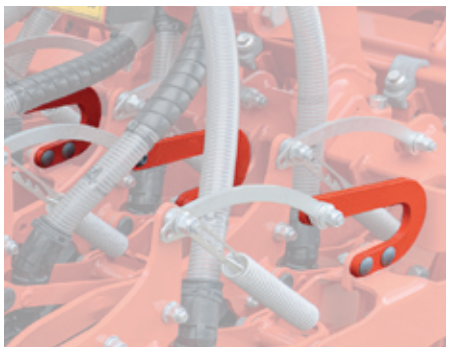


Clean-cut furrow opening
The large double discs on the SEEDFLEX 1000 unit are offset by 41 mm for perfect furrow opening. They have a small opening angle which limits soil being sent into the row and makes furrow closing easier.



Fast, precise seeding in any conditions
SEEDFLEX 1000 seeding units are positioned in 2 rows spaced at 35 cm. This facilitates the passage in clayey soils and in plant residues. No need to grease! SEEDFLEX 1000 bearings are lubricated for life.





Safe seeding jobs
SEEDFLEX 1000 seeding units are equipped with a safety component. If the units hit a large obstacle, the component does not break, it bends. It is easy to change and does not require replacing the whole unit, so you can finish the job quickly.



Seeding depth respected, even at high speeds
Three features enable you to maintain a constant seeding depth, even when the plot is uneven: parallelogram-mounted double discs, large-diameter press wheels, and coulter-pressure adjustment up to 45 kg. A winning combination in all conditions.



Better soil/seed contact
Press and depth-control wheels enhance soil/seed contact as well as moisture-transfer to the seed by capillary action. Seeding depth is controlled row by row which leads to optimum germination and uniform seedling emergence. The covering harrow finishes off the seedbed beautifully.

TF 1512 QUANTRON S-2

FEEL THE BENEFIT OF AN INTUITIVE SEEDING EXPERIENCE

Compatible with
BTF 1030

The QUANTRON S-2 control box has proven effective on KUHN seed drills for many years. It is suited to non-ISOBUS tractors and features a colour screen and intuitively arranged navigation keys. The menu divides into different sections: seeding adjustments, machine adjustments, plot files, services, and information.







Simply the essential
The QUANTRON S-2 control box features numerous functionalities:
- monitoring of application rate, blower speed, low hopper level;
- work counters: area and quantity seeded, work time;
- tramlining control;
- calibration test assistance;
- saving of settings of 30 varieties (in addition to the common pre-recorded varieties).

Manual application-rate modulation
It is often necessary to adapt the application rate to differences in the plot and weather conditions. The QUANTRON S-2 control box makes this possible by implementing an increase or reduction in percentage.

TF 1512 ISOBUS TF 2300 C

TAKE ADVANTAGE OF ISOBUS COMPATIBILITY

Compatible with
BTF 1030
BTFR 1010 / 1020 / 1030

CCI 60, CCI 800, AND CCI 1200: ONE TERMINAL FOR ALL KUHN MACHINES.
CCI 60, CCI 800, and CCI 1200 ISOBUS terminals are AEF-certified. They have three priorities: performance, visibility, and flexibility. The CCI 60 is simple to use with backlit keys. The CCI 800 and 1200 terminals are equipped with a large antiglare touchscreen capable of displaying different essential information at the same time on the same screen. They also enable automatic seeding management by GPS.



CCI 60:
the simple ISOBUS terminal
This new CCI 60 ISOBUS terminal comes with a 5.7"/14.5 cm colour touchscreen. It features 12 backlit keys for easy access to the machine functions.



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, high performance, wide screen
All essential information is displayed on the 12.1"/30.5 cm screen. Different display formats are available: mini-view / maxi-view / double UT.

CCI 800 AND 1200: ADVANCED FUNCTIONS FOR PRECISION FARMING!

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

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

BTF BTFR

MAKE YOUR LIFE EASIER WITH VISTAFLOW VALVES!

The distribution head on BTF and BTFR seeding bars is equipped, as standard, with VISTAFLOW valves that allow 2x2-row tramlining. It is possible to fit VISTAFLOW valves to each row, as an option, for universal tramlining and improved monitoring of possible clogging.







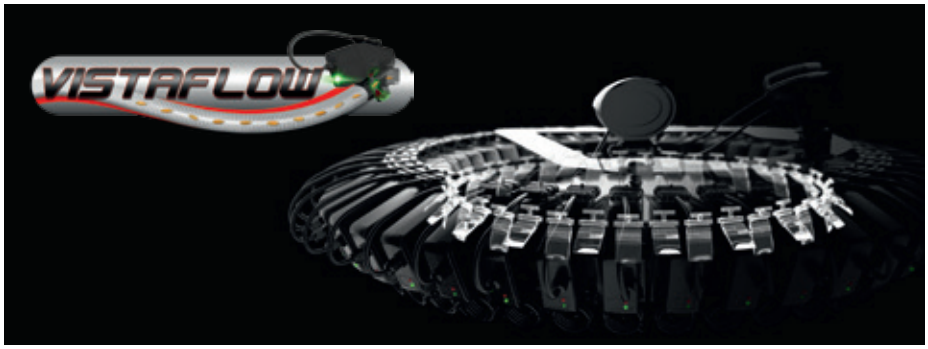
Universal tramlining

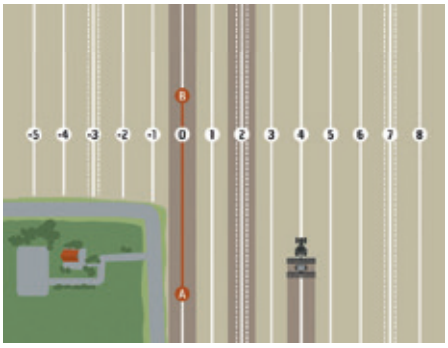
Tramlining is now possible even if seeding and spraying widths (sprayer or fertiliser spreader) are incompatible. With this technical revolution, valves or tubes no longer have to be moved on seeding units! You can access additional functions such as half-width seed drill shut-off (right or left) and every-other-row shut-off, directly from the cab. Different configurations can be saved in the user interface for subsequent operations. The following tramlining parameters are saved: working width, track and tyre width of sprayer, self-propelled sprayer or fertiliser spreader.

Need help?

Use the KUHN VISTAFLOW configurator to find out how many valves you need to carry out tramlining, according to the working width of your seed drill and crop treatment tools (sprayer or fertiliser spreader).

Go to www.kuhn.com





Smart monitoring and detection of tube blockage
VISTAFLOW tramlining valves feature smart monitoring and detection systems. If a blockage occurs in the distribution head, the terminal's screen 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 the driver exactly which valve is blocked. The KUHN ISOBUS terminal is easy to use and ergonomic and provides fast access to preferred tramlining configurations as well as the best possible use of the automatic user-interface functions.

Benefit from Tramline Control technology
Generate your tramlining lines automatically using your GPS position. The Tramline Control* option makes all this simpler and even more precise.

* Requires a A CCI 800 or 1200 terminal with Parallel Tracking activated

TF BTF BTFR

BENEFIT FROM EXTRA EQUIPMENT

Access a superior level of comfort with our optional equipment designed to match all your needs.



FRONT HOPPER



Front packer
The TF 1512 front hopper can be equipped with an optional front packer. This system reduces soil compaction by the tractor's tyres by carrying the weight of the hopper. It also provides uniform soil tamping and levelling across the entire width of the tractor which makes the power harrow's job easier.



Additional weights
The carrying frame and the 4-wheel front packer can be fitted with additional weights to provide optimum weight transfer. Up to 800 kg can be added to the wheel packer and up to 1,400 kg to the carrying frame.



LED work lights
The front hopper is equipped with two LED work lights as standard. An additional two LED work lights can be fitted as an option to improve hopper visibility at night.

BTF, BTFR SEEDING BARS & CSC SEEDING COMBINATION



Side and pre-emergence markers
Seeding bars can be equipped with side markers so that you can mark the soil and facilitate later passes. Pre-emergence markers are also available as an option. They allow you to mark the passes of work carried out before the emergence of seedlings.



Press and depth-control wheels
Single-disc-coulter seeding units can be equipped with press and depth-control wheels. These wheels enhance soil/seed contact as well as water transfer to the seed, by capillary action, for optimum germination and uniform emergence. No tools are required to adjust the press wheels.



Wheel scrapers
The press wheels on SEEDFLEX and single-disc seeding units can be fitted with scrapers to prevent soil buildup on wet or freshly ploughed land.



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.

Technical specifications

Front hopper

	TF 1512 with carrying frame	TF 1512 with front packer	TF 2300 C with carrying frame	TF 2300 C with front packer
Main features				
Transport width (m)	2.50		2.58	
Weight with chassis approx. (kg)	745	840	1,175	1,270
Hopper				
Partitioning	-		Double hopper - partition: 60% / 40%	
Capacity (l)	1,500 (2,000 with extension)		2,360 (1,400/960)	
Payload (kg)	1,800		2,300	
Loading height (approx.) (cm)	135	165	148	176
Closing	Roll-up cover		Rigid cover with centralised locking	
Distribution				
Application rate	Centralised volumetric metering unit		Optiseed - metering unit with cassettes	
Quantity of metering units	1		4 (2 per hopper)	
Application rate (kg/ha)	1 to 430		Up to 500 (depending on cassettes)	
Metering system drive	Electric			
Blower drive	Hydraulic			
Electronic equipment				
Terminal	QUANTRON S-2 or ISOBUS		ISOBUS	
Other equipment				
LED work lights	◆ 2 / ◇ 4			
Metering-unit and hopper lighting	◆			
Front and side signalling	◆			
Additional weights	◇			
Retractable step	◆			

◆ 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

Technical specifications

	Rigid seeding bars			
	BTF 3030	**BTF 4030**	**BTFR 5010**	**BTFR 6010**
Main features				
Working width (m)	3.00	4.00	5.00	6.00
Transport width (m)	3.00	4.00		
Chassis	Rigid			
Weight approx. (kg)	750	1,100/1,140	990	1,125
Linkage	On the harrow's roller			
Tillage tool				
Tillage tools compatible	HR 3020 / HR 3030 / HR 3040 / CD 3020	HR 4020 / HR 4030 / HR 4040	HR 5030 RCS	HR 6030 RCS / HR 6040 RCS
Transport				
Removable transport system	-			
Quantity of wheels and dimensions	-			
Hopper				
Front hopper compatible	TF 1512 ISOBUS or QUANTRON S-2 / TF 2300 C			
Seed delivery				
Number of rows	24	28/32	32	40
Spacing between rows (cm)	12.5	14.3/12.5	15	
Type of seeding unit	SEEDFLEX 1000 with double discs mounted on parallelogram and offset by 35 cm		Suffolk coulters in 3 rows spaced at 33 cm	
Press and depth-control wheels	◆		-	
Covering module	Covering harrow with universal tines			
Seeding-depth adjustment	Manual centralised		Hydraulic by cylinder	
Coulter pressure	45 kg max.		25 kg max.	
Hydraulic lift of seeding bar	◆			
Seeding management				
Terminal	QUANTRON S-2 or ISOBUS			
Tramlining	VISTAFLOW valves: 2 x 2-row tramlining ◆ Half-width shut-off ◇ Monitoring and universal tramlining ◇			

◆ Standard ◇ Optional - Not available

Folding seeding bars						
BTFR 4520	**BTFR 5020**	**BTFR 6020**	**BTFR 4030**	**BTFR 4530**	**BTFR 5030**	**BTFR 6030**
4.50	5.00	6.00	4.00	4.50	5.00	6.00
3.00						
Folding						
1,005 / 1,070	1,045 / 1,130	1,205 / 1,285	1,160 / 1,290	1,240 / 1,365	1,300 / 1,470	1,620 / 1,750
On the harrow's roller						
HR 4530 RCS	HR 5030 RCS	HR 6030 RCS / HR 6040 RCS	HR 4030 RCS	HR 4530 RCS	HR 5030 RCS	HR 6030 RCS / HR 6040 RCS
Semi-automatic coupling						
2 wheels 10 / 75-15.3						
TF 1512 ISOBUS / TF 2300 C						
30 / 36	32 / 40	40 / 48	26 / 32	30 / 36	32 / 40	40 / 48
15 / 12.5	15.6 / 12.5	15 / 12.5	15.4 / 12.5	15 / 12.5	15.6 / 12.5	15 / 12.5
Single-disc coulters in 2 rows spaced at 27 cm			SEEDFLEX 1000 with double discs mounted on parallelogram and offset by 35 cm			
◇			◆			
Covering harrow with universal tines						
r with shims and a lower stop			Hydraulic by cylinder with shims			
32 kg max.			45 kg max.			
◆						
ISOBUS						
VISTAFLOW valves: 2 x 2-row tramlining ◆ Half-width shut-off ◇ Monitoring and universal tramlining ◇						

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