



For Earth, For Life
Kubota


DS

KUBOTA DISC SPREADERS

**KUBOTA
DS SERIES**

Disc spreaders with a working width ranging from 33' up to 177' (10-54m)





**Fresh thinking
is the answer
to today's
challenges**

The challenges facing the agricultural sector are becoming increasingly bigger. And when times are tough, only one thing helps: a new way of thinking. Envisaging alternative options and making smart decisions. For your next tractor purchase, this means opting for efficiency instead of image. For a tractor that can do tough work with top performance whilst under constant strain. And all that at a reasonable price. A Kubota tractor is exactly the right alternative at times like these.





Comfort level - ease of use

DSM

Working width: 10-28 metres (33-92 feet)
Hopper capacity: 1,100-2,000 litres (31-57 bushels)



DSM-W

Working width: 10-28 metres (33-92 feet)
Hopper capacity: 1,100-2,000 litres (31-57 bushels)



DSX-W GEOSPREAD®

Working width: 12-54 metres (39-177 feet)
Hopper capacity: 1,500-2,800 litres (43-79 bushels)



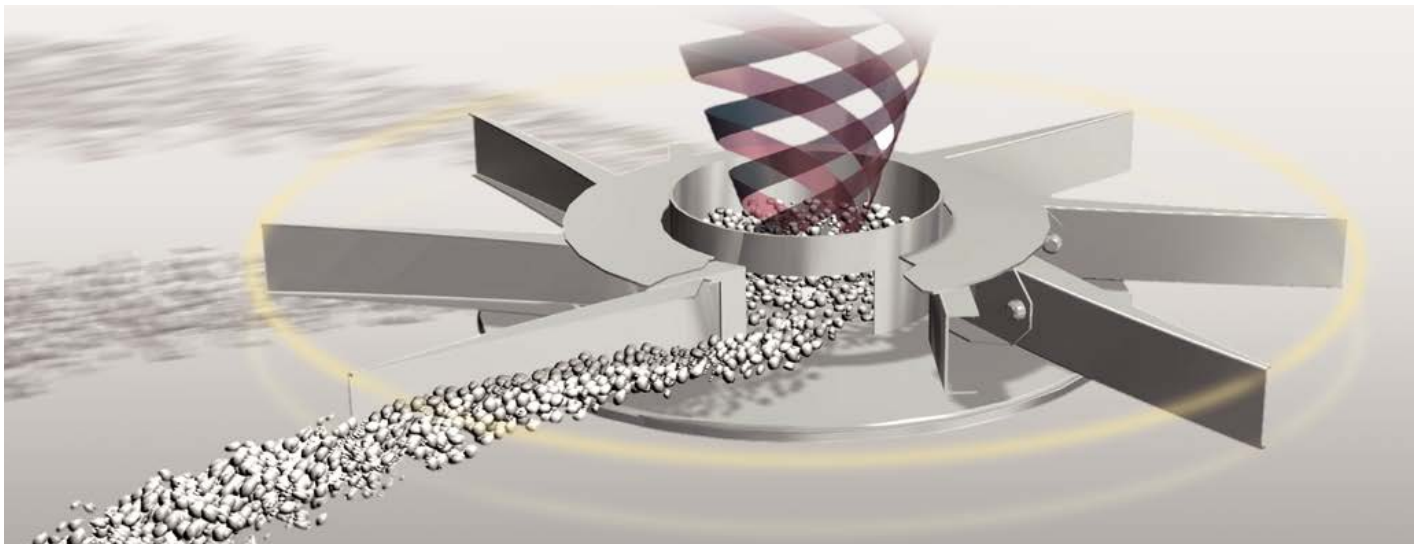




The spreading system for optimal results

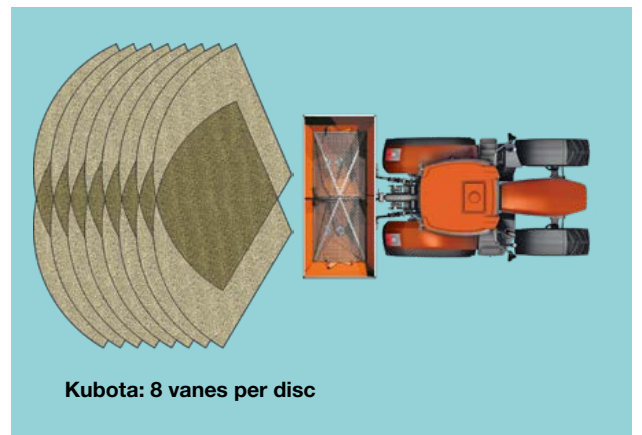
Kubota fertilizer spreaders have one unique feature: the Kubota spreading system

This initial smooth acceleration of the fertilizer prevents fragmentation of the granules due to the impact of the vanes. The adjustable discharge point allows adaptation of settings of the physical fertilizer properties. Due to the gentle handling of the fertilizer the spreading characteristics of the product are maintained. The Kubota spreading system is designed for the optimal spreading result!



Two vanes per disc

(Poor fertilizer distribution on slopes is caused by the continuously changing the contact point on the vanes)



Kubota: 8 vanes per disc

No impact, no fragmentation, no dust

Central release point, smooth acceleration and centrifugal force accelerates fertilizer up to disc speed before it reaches the vane.

FlowPilot: easy setting and adjustment

The compact FlowPilot 'dashboard' gives you a considerably simplified accurate setting and adjustment of application rates. Two hydraulically operated metering plates, each with three discharge openings ensure an equal fertilizer flow from the hopper to the spreading discs.



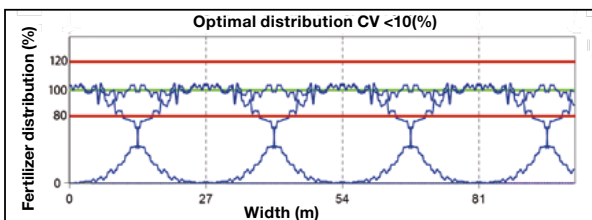
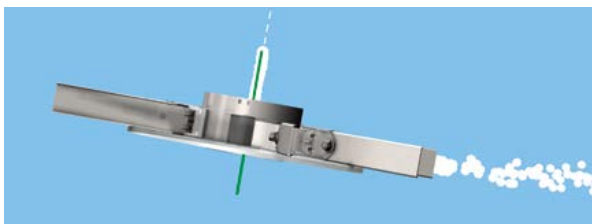
Fine application rate Discharge point Application rate

Eight vanes per disc - the Kubota standard

Perfect spreading pattern with an optimal coefficient of variation

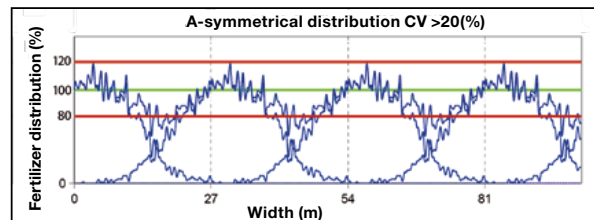
An important factor for an optimal spreading pattern is the coefficient of variation (CV). This is the percentage of deviation of the spreading pattern compared to an uniform distribution. The evenness of the transversal distribution for fertilizer spreaders shall be such that the calculated value of the CV, when driving to and from, does not exceed 15% calculated in accordance with EN 13739-2 (SOURCE: NEN-EN 13739-2 (EN)).

Kubota DS series



A CV <10% means an optimal spreading result

Other spreading systems



A CV >20% means an a-symmetrical distribution with too much variation



GEOSPREAD® for high precision spreading

Spreading has never been so easy and accurate. The GEOSPREAD® spreaders have an integrated section control system to provide optimal use of nutrients to the crops. The weighing system continuously checks and controls the desired application rate, regardless of forward speed or fertilizer flow characteristics.



Optimise output with GEOSPREAD®

The Kubota GEOSPREAD® system can do individual section control with 1 metre sections. With a maximum of 54 sections, dependent of the terminal, the possibility to switch sections over the middle, unnecessary overlap is set to an absolute minimum. In combination with higher driving speed the section control offers a step less adjustment of the spreading pattern.

Precision weighing

Sections are controlled by changing both the position of the fertilizer discharge point on the disc and the rate per minute. As the disc speed is not changed during section control, the overlap between both discs is hardly effected to prevent variations in the spreading pattern and sections can be switched on and off very quickly.

The 4 load cells and reference sensor on the GEOSPREAD® spreaders are important features as with section control precision weighing is essential.



Spreading without worries

The DSX-W GEOSPREAD® has a hopper volume range from 1,500 - 2,800 litres (43 - 79 bushels) and a maximum spreading width of 54 metres (177 feet).

The GEOSPREAD® technology allows the spreader to accurately switch off the sections to keep overlap to the minimum and thus save fertilizer.

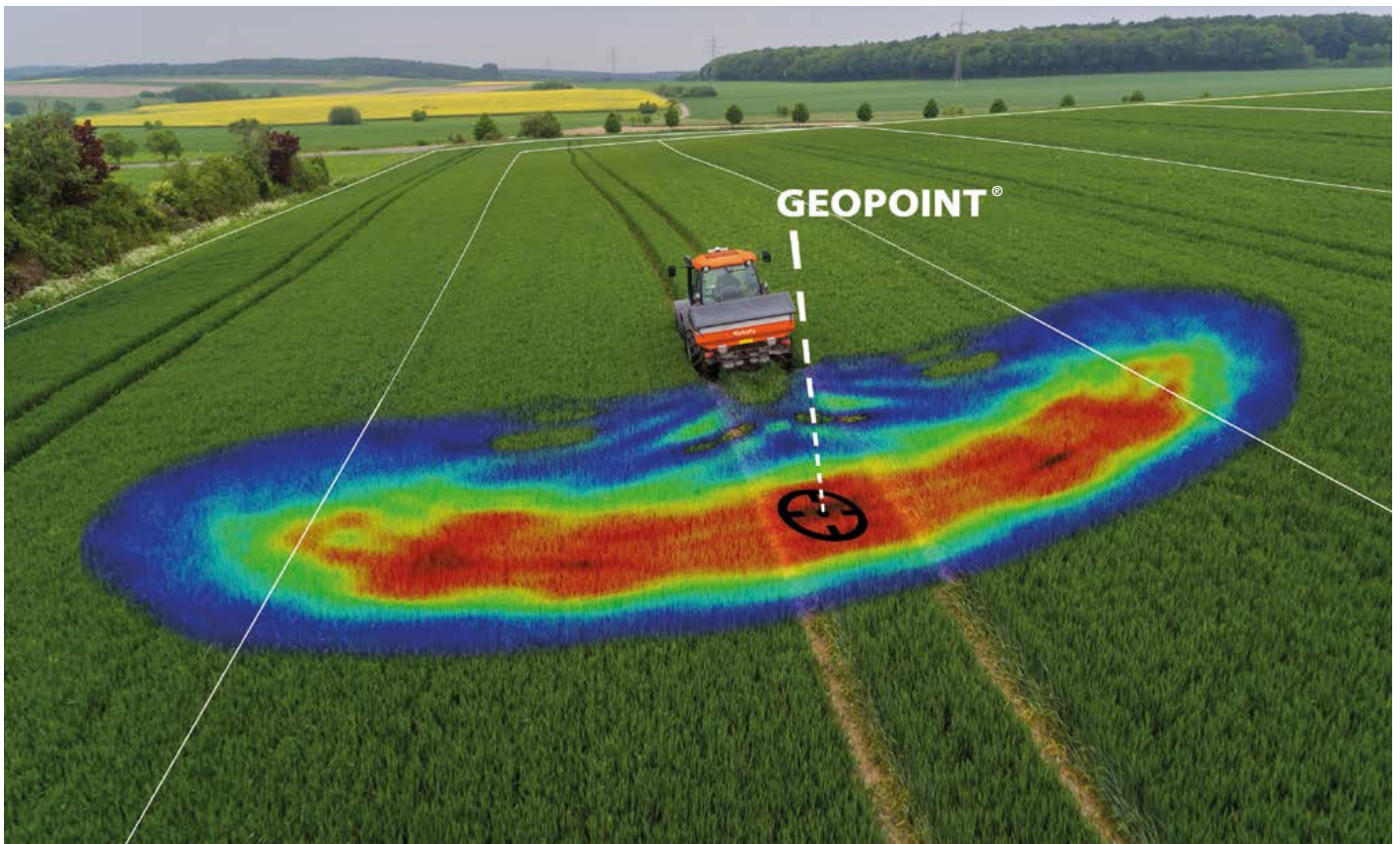


GEOSPREAD® - ensures a cost saving of 5-15% on fertilizer

For the complete Kubota disc spreader range the GEOPOINT® is available in the spreading charts for optimal spreading results.



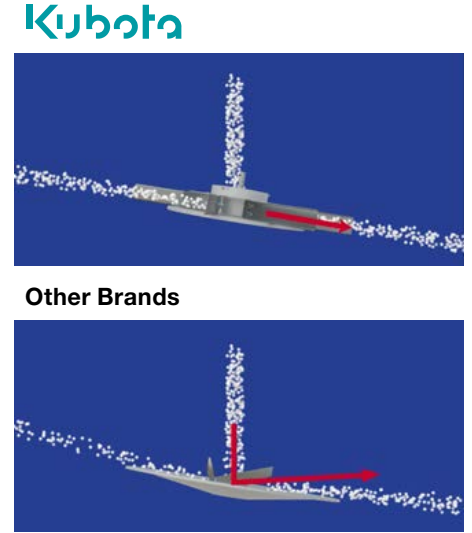
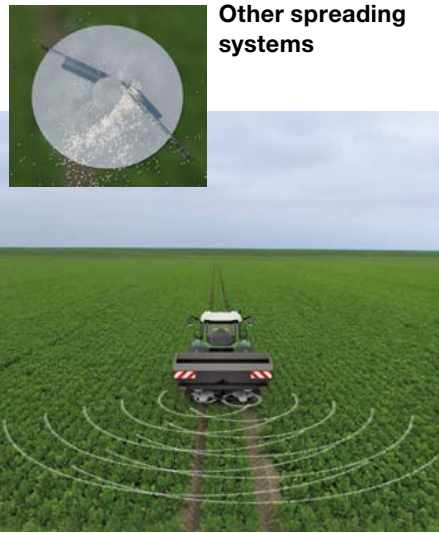
The Kubota spreader will automatically stop when it reaches a covered area and automatically start again when there is no covered area anymore. This will prevent over and under dosing around headlands. So the benefits are cost savings and improved crop quality on headlands. With GEOPOINT® the heart of the spreading pattern is described and this is fertilizer specific. When using an IsoMatch Tellus GO+ or PRO in combination with a Kubota weighing spreader the GEOPOINT® can be set automatically when using the AutosetApp. The total saving of GEOSPREAD® combined with speed related spreading and GEOPOINT® headland management can be up to 15%. This can be achieved by saving fertilizer and better yields, because of no unnecessary overlap.



High quality with high accuracy

With the Kubota system, fertilizer is gently brought up to speed in the dosing cup, before it is released on the disc. This system is unique compared to most other spreading systems that have the fertilizer falling on the disc. Therefore the Kubota system has some important advantages:

- No impact, so no fragmentation. Spreading pattern is not affected by damaged fertilizer.
- Eight vanes per disc instead of two vanes. With 8 vanes fertilizer is released on a high frequency for a very constant flow and even spreading pattern, which is especially important when driving higher speeds and spreading larger quantities.
- Accurate spreading in hilly conditions. An inclination of the spreader does not affect the release point of the fertilizer on the disc and from the vane.



Examples of section control



Spreading width of 24m (79') with 24 sections



Decreasing the spreading width on the right hand side by 3m (9'-10")



Decreasing the spreading width on the left hand side by 5m (16'-5")



Decreasing the spreading width on both sides by 4m (13'-1")



Switching off the sections outwards



Switching the sections over the middle from one side



For more savings and added comfort

The DSM-W is a weighing spreader with the advantage of speed related spreading and high frequency automatic calibration. The DSM-W has hopper volumes from 1,100 - 2,000 litres (31 - 57 bushels), can spread up to 28 metres (92 feet) and has one 10 tonne (22,046 lbs) load cell.



DSM-W: 10 tonne (22,046 lbs) load cell and reference sensor

Adding user comfort

Speed related spreading, with automatic calibration, will help to prevent over and under dosing which will result in better yields and saving of fertilizer. For even more saving of fertilizer and also more comfort, it is possible to use the spreader in combination with GPS. With GPS controlled spreading the DSM-W has 2 sections and automatic start/stop on headlands. It is even possible to do variable rate spreading according to application maps.





Get your yield optimised with more sections

With the basic section control software on the DSM-W weighing spreader the number of sections can be increased from 2 wide sections (left/right) into maximum 8 smaller sections (of 4 metre (13'-1") wide) for the DSM-W. The DSM-W is equipped with one electrical actuator on each spreading disc to control the application rate to provide optimal use of nutrients to the grass or crops. The basic section control of the DSM-W adjusts the dosing system by a GPS positioning system to optimise overlap and coverage with a minimum over and under dosing. This results in a better yield and a reduction of costs.

AEF and ISOBUS

The complete Kubota weighing spreader range is ISOBUS compatible and AEF certified for a guaranteed compatibility.



AGRICULTURAL INDUSTRY



Capacity and control adjusted to your needs



Capacity in combination with control

The DSM is available as hydraulically controlled machine.

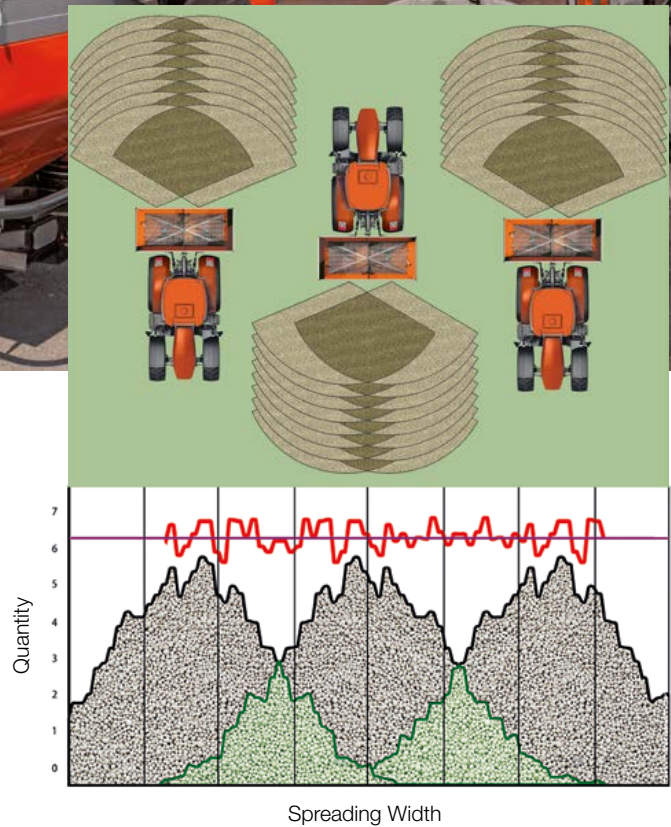
Fits to the complete medium segment

The DSM is medium in size and volume, but comes with the Kubota system as standard (with 8 vanes per disc) and can spread up to 28 metres (92 feet) which is very convenient in this segment of the market. To increase user comfort the DSM can be equipped with most of the accessories as for the larger spreaders such as aluminium hopper extensions, TrimFlow border spreading system, parking frame and LED lights.



Optimal spreading pattern

The Variation Coefficient (CV) of an optimal spreading pattern should be below 10%. This is only possible in a situation of no under - or overdosing and a perfect overlap of the spreading pattern.





Optimal spreading along borders



A border spreading device is used to optimise your spreading pattern from or to the border of a field. With the result of a maximum coverage to the border of the field to ensure a good crop, while on the other hand a minimal loss over the field border to minimise environmental impact.

Two different methods

There are two ways of border spreading: one-sided boundary spreading and boundary track spreading. Depending on your field and farm situation you can use one of those methods to optimise the spreading pattern to or from the border of the field.



Automatic RPM warning on the terminal

TrimFlow

YIELD SETTING



ECO SETTING



H₂O SETTING



Border Spreading Plate

YIELD SETTING 2m (6'-7")



H₂O SETTING 0m (0')



TWO SIDED



Border spreading plate

Hydraulic operation of the border spreading plate from the tractor cab. The plate prevents fertilizer from reaching the field border by deflecting the fertilizer away from the border of the field.

TrimFlow

The TrimFlow is used in the situation of spreading to the border. It can be fitted on the left and right hand side of the spreader, so it always fits to your field conditions. It can be precisely set for all types of fertilizer and for all working widths. There are three different settings for the TrimFlow: Yield, Eco and H₂O. The Yield setting is used to have an optimised yield to the border. The Eco setting is used to have a minimum amount of fertilizer across the border according to EN-13739. The H₂O setting is used when no fertilizer should be spread over the border. Operation is easy, no need to leave the tractor seat.





Fertilizer test center

Kubota Spreader Competence Center

The Kubota disc spreaders are known worldwide for their reliability, ease of operation and outstanding precision in all conditions. A fertilizer spreader can only be set accurately for rate and overlap using the settings provided by the manufacturer. The Spreader Competence Center is using the most modern technology available in hard and software, allowing the measurement of complete overlap patterns in 3D. Instead of only measuring the spreading pattern in one line corresponding to the working width, this technology creates a full pattern showing a complete 3D spreading profile of the fertilizer.

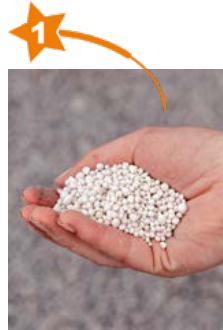
To suit customer requirements

The 3D spread pattern is achieved using a spreader which is mounted on the test rig which rotates the machine through 280°. Continuous measurement at a frequency of 5 HZ over the 80 collecting trays, which are all individually equipped with weigh cells, provide the ultimate in testing accuracy. A single test run provides more than 30,000 measurements! The result is a very precise spread pattern analysis with a high degree of predictability for setting changes to suit different widths and application rates. This allows, faster testing of the various types of fertilizer, but at the same time results in using less fertilizer and improved quality for better protection of our environment. The 60m (180 feet) long test hall, with under-floor heating, maintains the humidity at 60 % which allows testing throughout the year; and can accommodate testing of spreading working widths above 54 metres (177 feet).

Improved crop quality on headlands

Also the GEOPOINT® of the spreaders is measured in the competence center. A 3D cone shaped spreading pattern is produced and the center of this spreading pattern of this cone is used as GEOPOINT®.

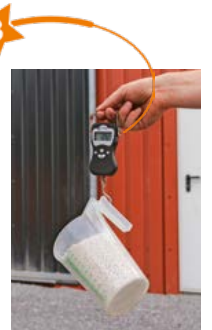
Checklist for precise spreading



1 Select fertilizer type



2 Determine granule size and distribution



3 Determine litre weight

The key to precise spreading is matching fertilizer quality and litre weight with the spreading charts as close as possible. The Kubota checklist helps you to ensure consistent accuracy in all field conditions.



Download the spreading charts application on the App Store or get it on Google play.

Exact advice for each Kubota spreader at any working width, application rate and driving speed. Direct access to most recent test results at: www.kubotaspreadingcharts.com



Efficient farming: discover the possibilities

Kubota's precision farming offering consists of innovative and custom made equipment, designed to manage your farm with success. Now you can carry out the work in a smarter, more efficient and easier way to get the best out of your machines and crops, as well as saving time and money on fertiliser, chemicals and seeds.



Be a PRO in increasing productivity

The IsoMatch Tellus PRO 12-inch terminal provides you with the optimal solution for an all-in-one control system inside the tractor cab including automatic steering. It is the centre for connecting all ISOBUS machines, running precision farming applications and Farm Management Systems. It offers everything you need to get the maximum out of your machines and crop, as well as cost savings in fertiliser, chemicals and seeds by using automatic section control and variable rate control. With the dual screen functionality it gives you the opportunity to view and manage two machines and/or processes simultaneously.

Easy control management

The IsoMatch Tellus GO+ is a cost-efficient 7-inch terminal, especially developed for managing the machine in a simple way. You are in full control of the machine in exactly the way you want. Easily set up the machine with the soft keys via the 7-inch touch screen and for optimal control while driving simply use the hard keys and rotary switch. Controlling the implement has never been so easy.





100% focus, the best performance

As tractor steering with IsoMatch AutoDrive-E is handled automatically, you have the freedom to control and monitor your work in an easy way. While the work is more efficient and overlaps are avoided, you can completely focus on the result in the field. (Only in combination with IsoMatch Tellus PRO).



IsoMatch Grip

This ISOBUS auxiliary device is made for maximum machine control and efficient farming. Operate up to 44 implement functions per machine.

Advanced precision farming software

IsoMatch GEOCONTROL® is an advanced software application within the IsoMatch terminals that helps you to control all ISOBUS compatible Kubota machines. Combined with a GPS receiver it fulfills the future needs in terms of innovative and efficient farming! The IsoMatch GEOCONTROL® precision farming application includes Manual Guidance and Data Management free of charge. It is possible to expand this application with Section Control and/or Variable Rate Control.



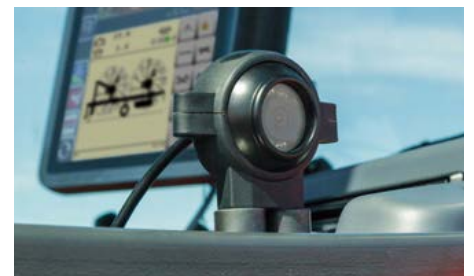
IsoMatch Global 3

The essential accessory for IsoMatch GEOCONTROL® is the IsoMatch Global 3 GPS antenna, with DGPS accuracy. It enables satellite navigation for site-specific section control, variable rate application and field registration.



IsoMatch InLine

The IsoMatch InLine is a light bar which allows easy manual guidance. It is the perfect assistant to get you as close as possible to your desired A-B line.



IsoMatch (Multi)Eye

IsoMatch MultiEye is an accessory for connecting up to four cameras to the IsoMatch terminals. You can easily switch between the cameras with the remote control box which is standard included.

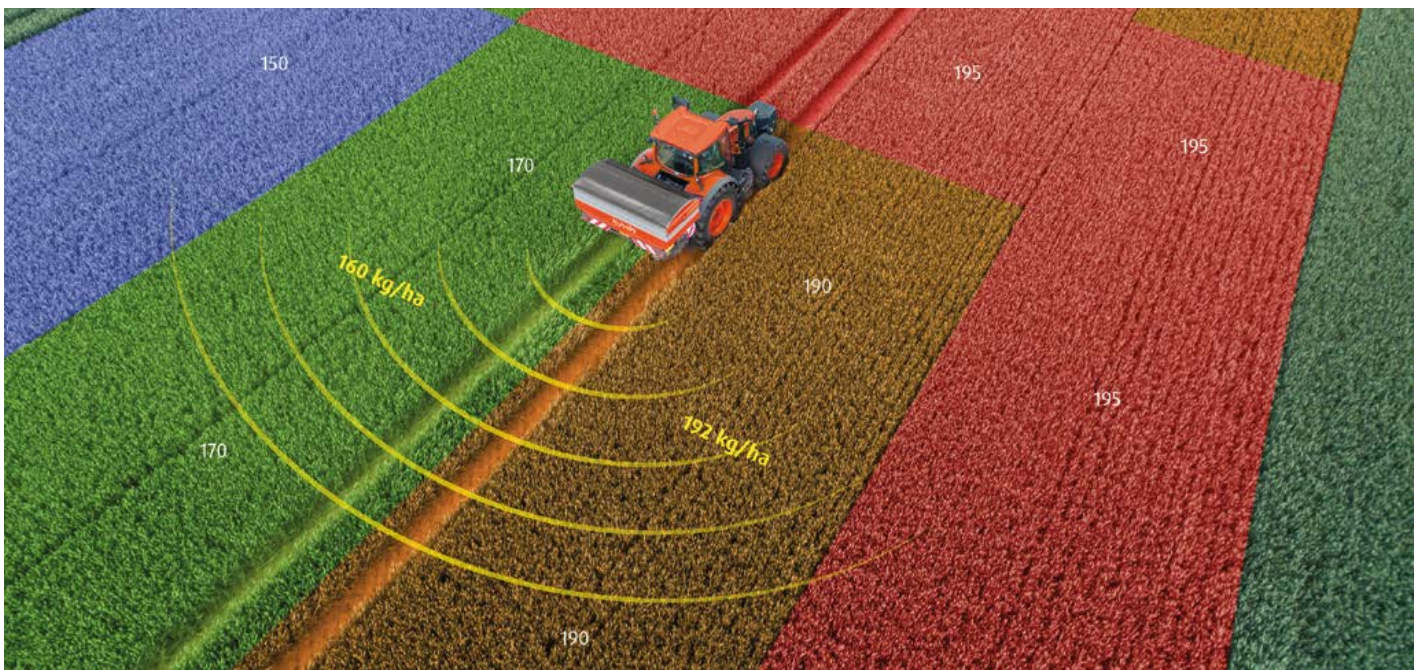


Variable rate control (single rate)



All ISOBUS compatible Kubota weighing spreaders can standard do variable rate control. This can be done with a variable rate application map where in combination with GPS the fertilizer spreader changes its output automatically based on a pre-determined and place specific spreading rate. Another possibility is using the fertilizer spreader in combination with crop sensors to change the spreading rate continuously based on sensor input. For both types of variable rate control the IsoMatch Tellus PRO and IsoMatch Tellus GO+ can be used to operate the spreader. Both ISOBUS terminals are compatible with most crop sensors and farm management programs and their task controller can read ISO-XML files.

Variable rate control (MULTIRATE)



The Kubota weighing spreaders are able to apply multiple rates within the same working width. This means more accurate application of nutrients for a better efficiency, yield and to reduce costs.

Technical data

Model		DSM	DSM-W	DSX-W GEOSPREAD®
1. Hopper capacity				
Hopper capacity	l (bu)	1,100 (31) - 1,550 (43) - 2,000 (57)	1,100 (31) - 1,550 (43) - 2,000 (57)	1,500 (43) - 2,150 (61) - 2,800 (79)
	l (bu)			1,875 (53) - 2,550 (72)
2. Working width				
Spread width	m (ft)	10-28 (33-92) ▲	10-28 (33-92) ▲	12-54 (39-177) ▲
Output	kg/min (lbs/min)	10-320 (22-705)	10-320 (22-705)	10-320 (22-705)
3. Measurements				
Filling height	cm (in)	100 (39.4) - 119 (46.9) - 138 (54.3)	100 (39.4) - 119 (46.9) - 138 (54.3)	110 (43.3) - 129 (50.8) - 148 (58.3)
	cm (in)			120 (47.2) - 139 (54.7)
Width	cm (in)	220 (86.6)	220 (86.6)	275 (108.3) / 290 (114.2)
Filling width	cm (in)	214 (84.3)	214 (84.3)	269 (105.9) / 284 (111.8)
4. Weight				
Empty weight	kg (lbs)	330 (728) - 355 (783) - 380 (838)	400 (882) - 425 (937) - 450 (992)	640 (1,411) - 670 (1,477) - 700 (1,543)
	kg (lbs)			680 (1,499) - 710 (1,565)
5. Controls				
Hydraulic control		○	-	-
IsoMatch Tellus GO+		-	○	○
IsoMatch Tellus PRO		-	○	○
6. Equipment (factory fitted)				
PTO overload clutch		●	●	●
Hopper sieves		●	●	●
Agitator		●	●	-
Slow rotating agitator		-	-	●
Fine application		●	●	●
Granule size box		●	●	●
Inclinometer		-	-	●
7. Accessories (also loose available)				
7.1. Safety equipment				
Warning triangle		○	○	○
Reflector decals		○	○	●
LED light set		○	○	●
7.2. Border spreading				
Tramline and topdressing kit		○	-	-
Border spreading plate		○	○	○
Hydraulic border spreading plate		○	○	○
TrimFlow border spreading system		○	○	○
7.3. Working width accessories				
Kit to spread 27/28m (89/92ft)		○	○	-
Kit to spread 27/33m (89/108ft)		-	-	○
Heavy duty vanes (L=285mm/11.2")		-	-	○
Lift vanes (L=330mm/13.0")		-	-	○
7.4. Other				
Calibration container		○	○	○
Hopper emptying kit		○	○	○
Hopper cover		○	○	○
Ladder		○	○	○
Side step		-	-	○
Mudguards		-	-	○
Storage frame with parking wheels		○	○	○
1 or 2 d.a. valve (separate closing L/R)		○	-	-
Hydraulic drive		-	-	○
Pellet sieves		-	-	○
Left/right hopper level sensor		-	-	○
Category 3/4 mounting frame		-	-	○

● = standard ○ = optional ▲ = Depending on fertilizer type and type of vanes

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