For Earth, For Life
Kubota

SC

KUBOTA SEEDING COMBINATION

SC1300 / SC1300C
SC1400 / SC1400C

The sum of precision and operator convenience



HIGH SPEED AND CA



APACITY



SPEED UP WHEN THE TIME IS RIGHT

Sowing your crop at the right moment, is one of the critical decisions you have to take as an arable farmer. The soil has to be prepared with care and the moment of sowing depends on the right conditions, like local weather. To be successful you need a seeder that is effective.

Once you have configured your machine, you want to rely on a perfect execution. The Kubota SC1000 is excellent in precision placement of seed and fertiliser. Not too deep, not too shallow. So it will germinate perfectly, to grow into a great crop.

HIGH PERFORMANC



Step 1: Level the soil

For the best possible preparation, the front tyre packer levels the soil, crushes large clods and thus paves the way for the optimum depth control of the following tools. The front tyre packer has a diameter of 800mm and can be lifted hydraulically, simply by pushing a button, when it is not needed.

Step 2: Prepare the seedbed

Two rows with short disc harrows – the familiar and well proven Kubota CD with its conical disc shape and individual suspension ensures a fine and uniform seedbed over the entire working width. Thanks to a new hydraulic system, the disc harrow can be adjusted with continuous variability from the cab.

Step 3: First pack, then seed

For perfect depth control of the coulters and an optimum seed-to-soil contact for excellent capillary action, the loosened soil is re-compacted by a large tyre packers. The large tyre diameter of 900mm significantly reduces the tractive power required by the machine and thus ensures a consistently good work result.



Strong, user-friendly and universal

The SC1000 is available either as standard drill combination or as grain and fertiliser version SC1000C (see page 10-11).

The rigid SC1000 comes in working widths of 3.00 and 4.00m. Its compact design is an advantage for working in the field and transporting on the road. The rear mounted wheel packer also acts as a transport device. The V-shape main frame allows good access and needs low pulling force due to less weight.

The SC1000 can work at high forward speeds up to 18 km/h, whilst maintaining a consistent working depth. The SC1000 meets the Isobus 11783 standard, with the ability to control all main elements of the drill individually and from the IsoMatch Tellus screen (or other ISO 11783 compatible screens). A host of new electronic features are available as standard equipment such as a fully automatic headland management system and GEOcontrol including variable seed rate control.

Step 4: Seed and press with guaranteed seeding depth

The narrow profile of the coulters with their slightly offset steel discs allows easy penetration into the soil.
As a consequence, little pressure is required in this step and only little soil is displaced. The coulter pressure of 100kg can thus primarily be used for the pressing with the integrated press wheels.

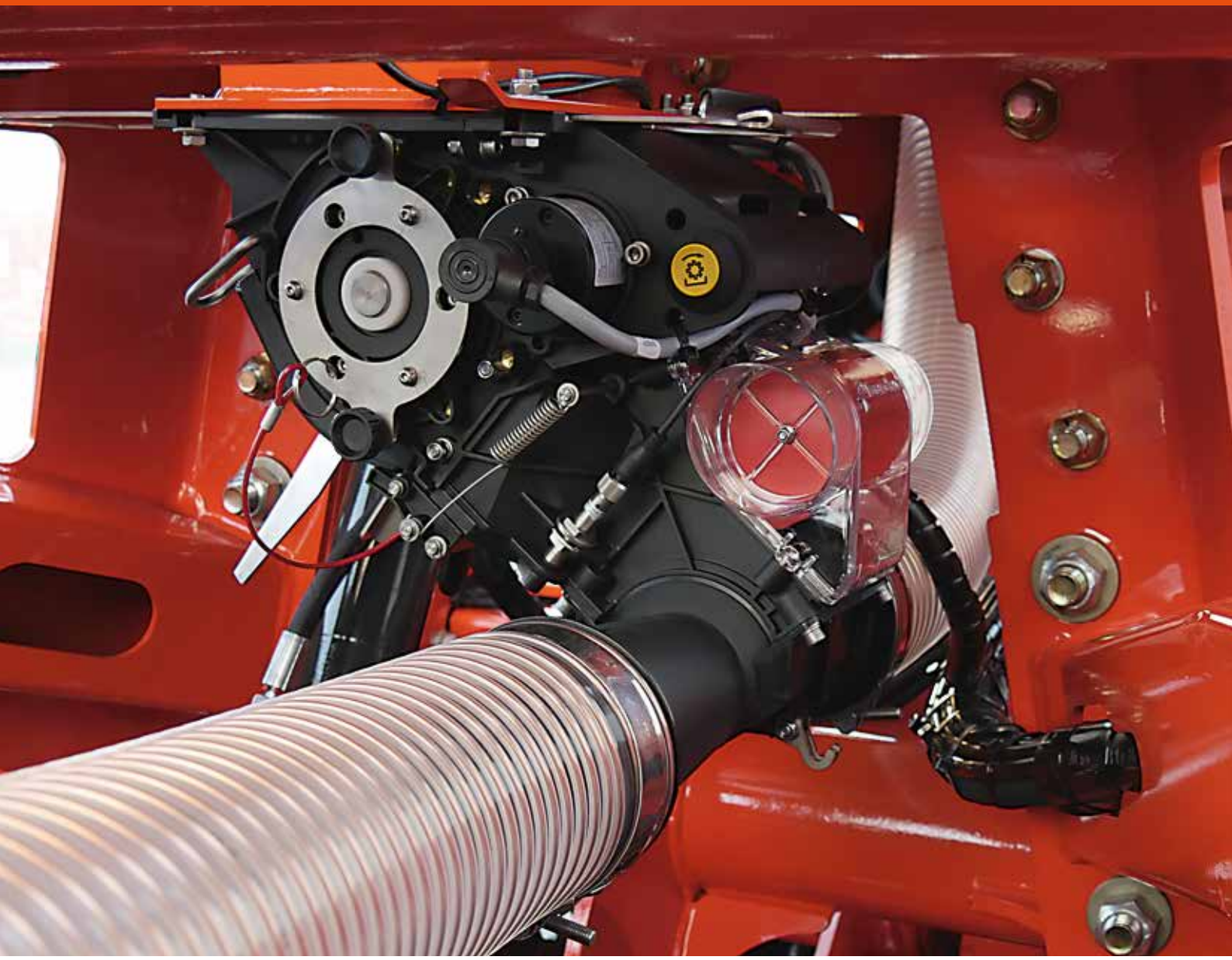
The result: uniform seeding depth even at high working speeds! The seeding depth and the coulter pressure can be centrally controlled by the push of a button from the tractor – this saves additional time.

The stable depth control and the pressing of the seed produce a capillary system in the soil that ensures a access to water and excellent germination.

Step 5: Closing

Harrowing the soil completes the seeding. S-shaped or finger harrows ensure an optimum covering of the seeds. The working intensity can be set by the stepless pressure adjustment and at three different angles. To prevent damage to the harrow when reversing, it is equipped with an effective reversing device.

EASY ADJUSTMENT



ELDOS

The ELDOS metering device, is electrically driven and is fully ISOBUS compatible in the e-com version. Auto on/off using GEOcontrol and a GPS signal is possible which avoids double seeding on the headland. Special sensors ensure perfect functionality all monitored from the tractor cab. The calibration test is very simple due to the on-screen guidance for all seed settings. The operator simply enters the desired values into the terminal, no gears have to be adjusted, just press one button to start calibration and that‘s it.

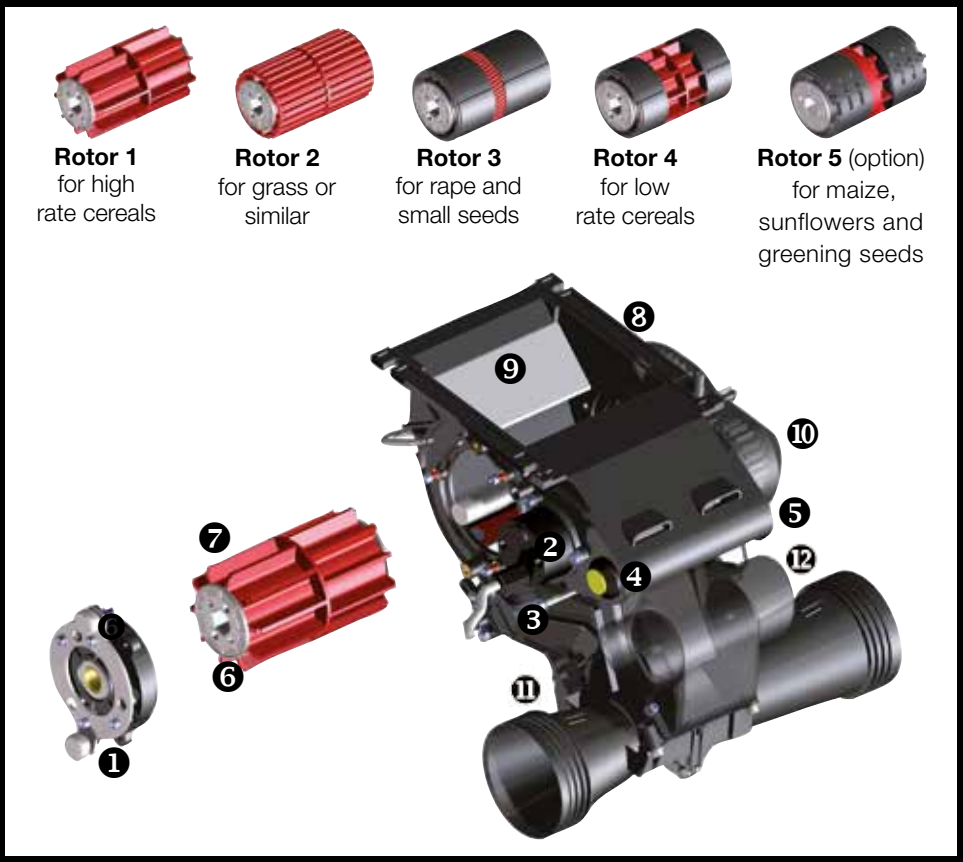
A remote control allows the calibration process to be carried out directly at the metering device, the calibration is done automatically. Four seed rotors are delivered as standard for fine medium and large seeds or fertiliser. If the operator selects the wrong rotor by mistake, the system recognises this and gives a warning. It is completely self-controlled and fail-safe. The exchange of the rotors is carried out quickly and easily without the need of any tools. Application rates from 1 to 400 kg/ha are possible depending on working speed and width. Rotor No. 5 (option) is offered for maize, sunflowers and greening seeds.



The metering device is easily accessible. To exchange rotors no tool is needed.

DURING WORK





1. Device end cover removed with the need of any tools
2. Fully integrated electric drive
3. Calibration flap sensor
4. Remote control for calibration start/ stop/break
5. Software to control the system
6. Rotor recognition plate, avoids wrong rotors selection
7. Different rotors for different seeds
8. Antistatic housing
9. Removable flap for heavy seeds no tools required to dismount
10. Fixed drive system no need to adjust
11. Central arm for calibration test flap
12. Venturi suction bypass valve



The SC1000 is fully ISOBUS compatible and ready for Plug and Play!

Electronic control

The e-com system offers all options required by the professional farmer. With the e-com system the SC is fully ISOBUS compatible and ready for Plug & Play! Using an industry standard plug, the machine is connected directly to the ISOBUS terminal of an ISO compliant tractor (DIN-ISO 11873).
All machine information and control functions are shown on the tractor virtual terminal, no additional monitor is necessary.

Auto on/off function using GEOcontrol and a GPS signal is possible which avoids double seeding on the headland.

If the tractor is not equipped with an ISOBUS compatible system, the SC1000 can be controlled by the Kubota own IsoMatch Tellus GO or IsoMatch Tellus terminals.

PERFECT SEED PLAC









- *Extremely narrow profile design – less pressure required for penetration.*
- *Reduced pulling force – due to less soil movement.*
- *Integrated depth guidance and press wheel functionality.*
- *Maintenance free, high performance bearings.*
- *Only one coulter – no left / right nor short / long coulters.*

Seed application with the CD coulter is guaranteeing precise and exact sowing due to a low drop height.

CEMENT

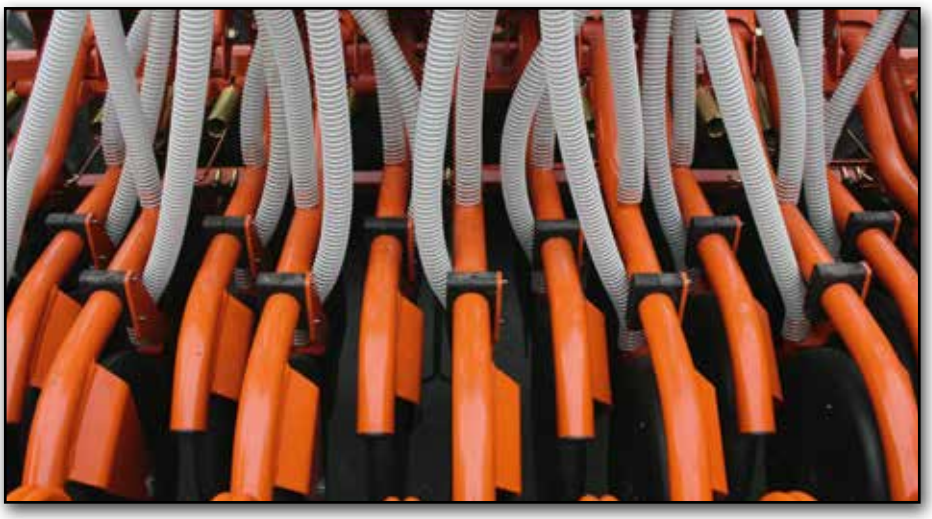


CD mulch seed coulter

The Kubota CD mulch coulter ist the perfectionist among disc coulters. The CD mulch seed coulter consists of two steel discs (Ø410mm) with 12.5cm row spacing. Thanks to its very slim design the soil movement is very little, which leads to a smaller need for pressure to achieve the seeding depth. Thus more of the available coulter pressure of up to 100kg can be lead to the press wheels when needed. The coulter pressure can be set infinitely. Fully integrated maintenance-free disc bearings provide for an easy flow of the coulter.

Perfect depth control is ensured by the press wheels (Ø 380mm). They are made of special rubber which has a self-cleaning effect. So in most conditions no scrapers are required. The coulter staggering is 175mm. The coulter pressure adjustment is done centrally and can be set infinitely from 0-100kg. The seed depth adjustment is steered centrally via the ISOBUS terminal (series equipment). The coulter bar consists of one central box-tube and is fixed to the seeder via a 3-point parallelogram linkage. The distribution head is mounted on the coulterbar.







The radar speed sensor simultaneously records the driving speed in order to maintain the relevant distribution rate at the correct time.

EFFECTIVE IN COMB



Fertiliser placement by the disc harrow

The fertiliser outlets in the second row of the disc harrow are allocated in such a way that the fertiliser line is applied exactly in between two sowing rows. All plants have exactly the same distance to the incorporated fertiliser deposit. By adjusting the working depth of the disc harrow the depth of the fertiliser placement is controlled.

INATION



The SC1000C is a combined grain and fertiliser implement

The hopper capacity is 3,000l. The hopper is divided lenghtwise and the two metering devices are accordingly positioned either side. The proportion grain : fertiliser is 40 : 60.

The SC1000C is especially adapted to suit the need of precise fertiliser placement at the seed.
These crops can show substantial yield increase when applying fertiliser with a relatively high percentage of phosphate together with the seeds.

In Scandinavian and Eastern European countries the fertiliser is usually placed between the rows i.e. besides and below the seed, whereas in other countries such as Scotland seeds and fertiliser are placed in one and the same rows. In trials of spring sown crops, yields have shown increases up to 25%.

To meet both requirements, with the SC1000C, there are two options of fertiliser application:

On the one hand, in compliance with the demand to place the fertiliser besides and below the seed, the fertiliser is applied every 25cm via the second row of the disc harrow unit.

On the other hand, the fertiliser is applied via an additional tube right at the CD coulter unit thus in the same row as the seeds.

The SC1000C is able to provide fertiliser application rates up to 400kg/ha depending on working speed and width. The hydraulic fan drive is powered from the tractor hydraulics.





Fertiliser application in the seeding row

The fertiliser application in the seeding row is done by an extra fertiliser outlet. The fertiliser is placed in mixture with the seeds. This is especially suitable for phosphoric fertiliser in order to support the initial germination and development of the plants in the most efficient way. The special design of the coulter with two exits also allows the seeding of two different crops in just one working pass.

HIGH CAPACITY





The loading steps and platform provide safe access for filling and inspection of the hopper.



Steps inside the hopper ensure safe access to adjust for example the low level sensor.



A close fitting hopper cover protects the seed from dust and water.



Convincing and strong

Often large machines offer limited visibility and manoeuvrability. This is not the case with the SC!

From the tractor cab the operator has the entire machine in view, so that the working procedures can be monitored constantly.

The Kubota SC1000 offers the perfect balance between size and compactness! The hopper can easily be filled using big bags and a front loader or telescopic handler.

The hopper has a capacity of 3,000l. The metering device of the grain only version is centrally positioned whereas the two metering devices of the ”C” version are laterally positioned.

The hopper is fitted with an access platform system ideal for maintenance purposes and the monitoring of the filling operation. Steps inside the hopper provide additional safety. LED lights are available as an option.

Sight glasses in the front wall of the hopper give the operator a constant overview of the level in the hopper. A close fitting tarpaulin cover protects the seed from dust and water and can easily be opened and closed with the help of the quick release locking lever.

The positioning of all the major components is well organised and are clearly visible.

User friendliness is no art – it’s an absolute necessity!



Easy opening and closing of the hopper cover with the help of the quick release locking lever.



Working lights (LED) in- and outside the hopper.



Calibration bag and scale is ready to hand and stored with the rotors well protected against dust in the toolbox.

LOW PULLING FORC







The machine is connected to the tractor via the lower link hitch CAT 3. The dual-circuit air brakes (or hydraulic brake as option), road lights and fixed warning signs are fitted as standard to ensure compliance with traffic regulations and safe movement of the machine on roads.*

E NEEDED



Headland Management

The SC1000 comes with a fully automated headland management system:

- to be quicker!
- to be more precise!
- to be more efficient!

By pressing just one button, the SC1000 operator initiates the headland management, starting the automatic operation of wheels, discs and coulter bar. Thus the SC1000 only needs one double-acting control valve.

Also the metering device stops automatically with the headland sequence. This ensures that no seed is lost by double seeding. In times of rising seed prices this really saves money.

In addition the headland management saves lots of time and eases the operation for the tractor driver. He can concentrate on steering the machine; and incorrect operation is prevented.

To ensure a constant depth control, the lifting sequence starts with the disc section, followed by the front packer and the coulter bar. At the same time the metering device is stopped, so that the seed hoses are empty at the headland. This saves up to 5% of seed.



Universal - The flexibility of the SC allows its operation after the plough as well as after minimum tillage.







No overseeding on the headland -to ensure a uniform depth control, initially lifts the disc harrows segment then the front wheel packer and then the coulter bar.

ELECTRONICS

KUBOTA – PRECISION FARMING



The Kubota M7001 series are ISOBUS 11783 compatible. This means that the pneumatic seed drill can be plugged directly into the tractor and where available be operated via the K-monitor without any other separate terminal.

Tellus GO

Tellus GO is the farmers first step into Precision Farming. With the easy to use application, GEOcontrol, it is possible to boost efficiency and save time and costs. The application includes Manual Guidance, Section Control and Variable Rate. Whether it is used with fertiliser spreaders, sprayers or seed drills, Precision Farming is just one click away.





The next generation universal ISOBUS Terminal – IsoMatch Tellus

- Two ISOBUS interfaces in one terminal
- Multifunctional ergonomic design
- ISOBUS Shortcut Button (ICB)

Robustly designed aluminum body and ergonomic rubber grip

The IsoMatch Tellus is the first ISOBUS terminal in the world with the capability to operate 2 different (machine) screens through 1 terminal, without the need to constantly toggle between screens.

Maximum efficiency with precision farming

GEOcontrol for use with fertiliser spreaders, sprayers, seed drills and precision drills, can boost accuracy and efficiency, while allowing seamless integration with precision farming systems. GEOcontrol provides the following functionalities:

- Automatic section control
- Variable rate control
- Documentation
- Manual guidance
- Headland control
- Smart boundary recording

This advanced software application installed on the Tellus or Tellus GO, makes it possible to automatically switch the implement's sections on/off. It is a simple job, especially during night operations. You can use variable rates by downloading field maps to the Terminal which is then controlled by GPS. GEOcontrol will automatically adjust the output rate for the implement. The savings are significant on input costs such as fertiliser, chemicals and seed.

Kubota has a strong focus on development and production of new electronic solutions for agricultural tractors and machinery, all to make the farmers live easy and ready for the future.
All initiatives in development in ISOBUS Technology are undertaken:

- To increase the customer benefits in relation to the application of ISOBUS technology within ISOBUS machines.
- To improve the compatibility of ISOBUS products world wide (plug & play).

OPTIONAL EQUIPMENT



Mid-mounted front packer (Ø800mm)



Complete front packer (Ø 800mm)



Finger following harrow 12mm



Pre-emergence markers



Lower link suspension Cat. 3 (965mm)



Hydraulically folding track marker arms with notched discs



Hydraulic brake



Pneumatic brake



LED work lights



Rotor No. 5 for maize, sunflowers and greening seeds



Soil flow harrow



Hopper volume weighing system with separate monitor



Double entry seed outlet: fertiliser application in the row



Track eradicator (2 tines per track)



Extended drawbar

TECHNICAL SPECIFICATIONS

Model	SC1300	SC1400	SC1300C	SD1400C
Working width (m)	3.0	4.0	3.0	4.0
Transport width (m)	3.0	4.0	3.0	4.0
No. of CD coulters	24	32	24	32
No. of metering devices	1	1	2	2
Hopper capacity (l)	3,000			
Single-acting hydr. valve + zero-pressure return for fan drive	●	●	●	●
1 x double-acting hydraulic valve for machine control	●	●	●	●
Power requirement 12 V > 70 A	●	●	●	●
CD double disc coulters	●	●	●	●
Coulter pressure up to 100kg	●	●	●	●
Electro-hydraulic sowing depth adjustment via ISOBUS terminal	●	●	●	●
Press wheels (Ø 380 x 50mm)	●	●	●	●
Row spacing (12.5cm)	●	●	●	●
Coulter staggering (17.5cm)	●	●	●	●
Electronic adjustment of the seed quantity with radar	●	●	●	●
Filling level sensors in the seed hopper	●(1)	●(1)	●(2)	●(2)
Fan speed sensor	●	●	●	●
Metering device monitoring	●	●	●	●
Electronic half-width shut-off	-	-	●	●
Mid-mounted front packer (Ø 800mm)	❍	❍	❍	❍
Complete front packer (Ø 800mm)	-	❍	-	❍
Electro-hydraulic disc harrow depth adjustment via ISOBUS terminal	●	●	●	●
Disc harrow (Ø 460mm)	●	●	●	●
Offset tyre packer (Ø 900mm)	●	●	●	●
Maintenance platform, road transport lights, in-hopper light	●	●	●	●
Hydraulic fan drive	●	●	●	●
Lower link suspension Cat. 3N (825mm)	●	●	●	●
Lower link suspension Cat. 3 (965mm)	❍	❍	❍	❍
S-shaped seed harrow 10mm	●	●	●	●
Finger harrow 12mm	❍	❍	❍	❍
Calibration set	●	●	●	●
Hydraulically folding track marker with notched discs	❍	❍	❍	❍
Track eradicators (2 tines per set track)	❍	❍	❍	❍
Pneumatic or hydraulic brakes	❍	❍	❍	❍
Extended drawbar for tractors with twin tires up to 4.5m	❍	❍	❍	❍
Pre-emergence marker (centre marking)	❍	❍	❍	❍
LED working lights	❍	❍	❍	❍
iM Tellus for non-ISOBUS-capable tractors	❍	❍	❍	❍
iM Tellus for ISOBUS tractors	❍	❍	❍	❍
Hopper volume weighing system with separate monitor	❍	❍	-	-
Headland management	●	●	●	●
Weight (kg) (with front packer + track eradicators)	4,600	5,400	4,800	5,600
Min. power requirement (kW / HP)	70 / 95	90 / 120	70 / 95	90 / 120

● Standard equipment ❍ Option

The company reserves the right to change the above specifications without notice. This brochure is for descriptive purpose only. Some of the items pictured in this brochure are optional and not standard equipment. Please consult your local Kubota dealer for warranty, safety or product information. For your safety, Kubota strongly recommend the use of a seat belt in all applications.

© 2017 Kverneland Group Soest GmbH

EN, 09.2017