



For Earth, For Life
Kubota

MP

KUBOTA PRECISION DRILL MP1000 SERIES

Precise singulation and seed placement



TECHNOLOGY AND INNOVATION FOR MA



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

Uniform sowing depth and exact covering are key requirements for increased field emergence and maximum yields.

With the MP1000 Series, the peripheral speed of the seed disc matches exactly the forward speed of the machine; therefore, the seed has “zero speed effect” which eliminates seed bounce. The seeding heart positioned deep inside the seeding coulter provides a maximum drop height of only 3 cm. This guarantees precise placement without pellet bounce or roll. Furthermore, this technology enables the MP1000 Series

to operate on high forward speeds that consequently maximise the work rate and optimises crop establishments.

The patented second seed chamber prevents double sowing and seed damage. Specially moulded seed cells around the edge of the seed disc picks up individual pellets. Any surplus pellets will fall back into the second seed chamber.

Even under the most difficult conditions the parallelogram mounting of the MP as well as the e-drive II sowing unit

guarantees precise depth control. The seeding depth can be adjusted easily, without the need of any tools using the ingenious depth control system. Spring loaded intermediate seed press wheel and coverer along with trailing press wheel ensure excellent seed soil contact and recompaction.

The seeding hoppers can be easily filled via the sliding dust proof hopper covers. Emptying via a spring-loaded quick release discharge that flap on the side of the sowing unit, ensures the seed hoppers are emptied quickly and completely.

MAXIMUM FIELD EMERGENCE AND YIELD



Kubota is using “zero speed effect seed deposition” technology. The MP1000 Series with mechanical and MP1000 Series e-drive II with electrical drive are designed for professional precision drilling of beet, rape and chicory.

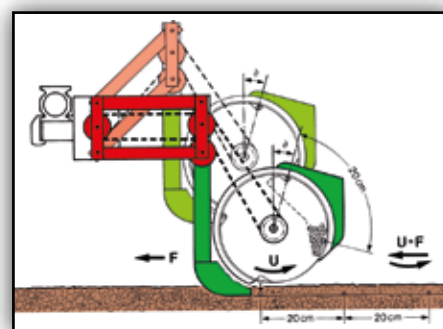
Normal seeding row for ploughed and prepared field conditions. The parallel mounted sowing unit ensure precise depth control even in difficult field conditions.



ISOBUS

A wide variety of electronic controls are available for the MP series to suit varying customer requirements.

The ISOBUS technology opens the possibility of using the ISOBUS compatible tractor terminal to control machines without the need of separate control units. Kubota offers in particular with the IsoMatch Tellus and Tellus GO terminals for ISOBUS compatible machines.



The lowest drop height on the market, plus zero speed effect sowing provide precise placement for both mechanical and electric drive MP 1000 series.

MACHINES FOR ALL FA

The MP Series is available from 6 to 18 sowing units. The rigid end-tow toolbars are available in working widths of 3m, 6m and 9m.

The convenient and time saving parallel hydraulic folding is available in 6 m and 9 m toolbar versions. The transport width of the MP Series is a maximum of 3 metres.



MP1600F e-drive II, 6 metres, 12 Mulch seeding rows with parallel hydraulic folding



MP1600F - Folding sequence from transport width (<3m) to working width 6m

RM SIZES

Strong Construction, Maximum Clearance, Smooth Running Drivelines

MP Series precision drills are produced to meet all the practical requirements of today's agriculture, utilising the proven stability and open design of its toolbars.

Using the simple electro-hydraulic control the parallel folding frames can be operated easily and safely from the tractor seat.

Additional equipment such as micro granular applicators, tramlining control system or pre-emergence markers can easily be fitted.

MP Series is equipped with maintenance free ball bearing lever change gearboxes, which are easily accessible and enable quick setting of seed sowing distances.

MP Series e-drive II: The seeding heart is driven directly by a variable speed electric motor. There are no mechanical drive parts.



The optional pre-emergence markers assist first spraying operations before seed emergence



MP1600F - compact in transport

ONLY VARIOUS EQUIPMENT HITE

MP SERIES E-DRIVE II:



MP Series e-drive II-row for mulch seeding

MP SERIES



MP Series mulch seeding row with mechanic drive

Electric drive with control directly from the tractor cab using ISOBUS technology.

MP Series e-drive II is the ideal option for large-scale farms and contractor use. It is identical to the MP 1000 Series with mechanic drive in its basic design, with the exception of the seeding hearts which are driven directly by a 12-volt motor. This eliminates the need for mechanical parts such as gearboxes, drive shafts and chains. With its wide variety of functions and operating safety, the MP 1000 e-drive II Series utilises state of the art technology, allowing exceptional versatility for the operator.

The most important features:

- Infinite adjustment of sowing distances from 12.5 to 25 cm, optimising seed populations to soil type within the same field from the tractor cab.
- Multi choice integrated tramlining and pre-emergence marking systems (optional).
- Ability to increase plant population in the rows adjacent to the tramlines.
- Half-width shut-off.
- Individual sowing units can be switched off. Ideal, for example, when sowing in the corner of awkward shaped fields.
- Opto-electronic control for seed counting as standard.
- Safety through constant control: the electronics permanently monitor all operating functions of each sowing unit constantly displaying the "real time" data on the in cab terminal.

MP Series

Ball-bearing drivelines of the MP Series are located in the parallelogram linkage to the unit, therefore there is no relative influence on the seed disc during up-and-down movement of the sowing element.

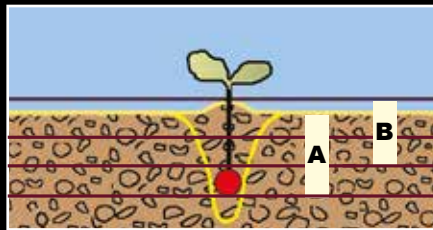
S THE USERS NEEDS PERFECTLY

MP1000 Series Tandem row

The MP1000 Series tandem row is especially designed for light soils. The front and press wheel are connected by a solid bar and guarantee a perfect depth guidance also in extremely light conditions. The depth setting can easily be adjusted by on handle. Again, completely toolless!



Monoflex press wheel

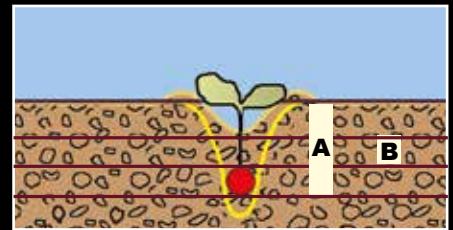


Coverer with conical press wheel

The V-shaped coulter opens the furrow. The seed is covered with loose soil by adjustable coverer. The amount of covering soil (B) is similar to that of the sowing depth (A)

⇒ Ideal for wet and loamy soils

Finger press wheel



Coverer with finger press wheel

V-shaped coulter opens furrow. The seed is covered with loose soil by the adjustable coverer. The covering soil (B) is lower than the sowing depth (A).

⇒ A "Micro climate" then protects the germinated plant

Simple filling and emptying



NORMAL AND MULCH SEEDING



For mulch seeding, the front Farmflex wheel is simply replaced with a double cutting disc equipped with side zero pressure tyres. The trailing coulter draws a clean seed furrow for precise seed placement.



In order to cleanly cut through surface residues, the MP1000 series operates with a double cutting disc and side zero pressure tyres.



No hair-pinning, no diving, just simple cutting. The mulch-seeding version can also be used without any modifications for normal seeding.

SOWING RAPE AND CHICORY



ENHANCED RANGE OF APPLICATIONS INCREASES THE WORKING CAPACITY.

Synergy effects with existing mechanisation

The MP1000 series can also be used for sowing rape and chicory, this allows extended use of the machine that will result in an improved pay back of the machines cost. Precision drilling of rape has been used in seed multiplication for a number of years. Through increased use of hybrid rape varieties, farmers has shown a big interest in the MP 1000 series due to the fact that it is able to sow seeds in exact numbers per square meter, hence, saving seed costs. Precision-drilled rape is generally sown in row widths of 45cm. This row distance allows the use of mechanical weeding machines. Down the row spacing will vary depending on location and variety between 5 and 8cm.

Results from various testing facilities show that precision-drilled rape can increase yields up to 5%. Whilst at the same time saving seed quantity and overall costs. Pelleted chicory can also be sown with the MP1000 series, the chicory is used for sugar extraction by the food industry. The row width is also 45cm. The seed is sown at a distance of 10cm in the rows, the sowing depth is extremely shallow at 0.5cm.



Micro-granule applicator

Most models can be equipped with micro-granule applicator.

The hoppers, made from special grade plastics and have a capacity of 35 litres. The hoppers are mounted according to the working width with 2 or 3 outlets per unit.

Metering wheels of different sizes and materials are available to suit the application requirements of most types of microgranule.

The microgranule applicator is mechanically driven via the land wheel drive of the MP1000 Series & e-drive II.



ELECTRONICS

ISOBUS SOLUTION

The latest Virtual Terminal developed by Kubota, is the IsoMatch Tellus. Using ISOBUS as the interface, the IsoMatch Tellus can communicate with all machines and is equipped to drive with GPS systems. The easy-to-use touch screen is designed for long working days. You have an excellent view of the two screens, which allows you to follow the performance of both the implement and the tractor. You can also call up the images from the optional cameras via one of the screens.

- Two ISOBUS screens at a glance
- Integrated tractor ECU program

- RS-232 connection for a GPS receiver or other external sources
- Option to connect 4 cameras
- Multifunctional, ergonomic, user-friendly design

As an innovative implement supplier Kubota has been leading the way in the field of electronic solutions for implements, based on the ISOBUS protocol. The communication concept iM Farming describes and presents our offering on ISOBUS machines and solutions for electronic steering. All aimed at giving an insight into the benefits and efficiency of our extensive offering.



PRECISE SEEDING WITH GEOCONTROL & GESEED®

GEOCONTROL - COST SAVING WITH IMMEDIATE PAYBACK

The more precisely and evenly a seed is sown, the easier it is to work and harvest, and the greater is the possible yield. Seeding with GPS and GEO-control in combination with an electric driven precision drill is a major step towards precision and cost saving. These machines are all equipped with ISOBUS technology which, with the help of the IsoMatch Tellus terminal, can be easily controlled. Each electric driven seeding

element, in combination with GPS and GEOcontrol, is automatically switched on or off in exactly the right place, ensuring there is no overlap with any row that has already been seeded. This is especially handy in triangular fields, on curved or irregular shaped headlands. You can also continue seeding at night since the switching on/off of the seed elements is completely reliable.



GESEED® - PRECISION AT HIGH END

The patented GEOseed® system is the most advanced option for MP 1000 series e-drive II.

GEOseed® is offered in two different levels:

GEOseed® Level 1 is the synchronization in the machines working width. This improves the distribution of seeds up to perfection in parallel or diamond pattern: Positive effects are the best

use of nutrients, water and sun. Also the wind and water erosion is decreased.

GEOseed® Level 2 is the synchronization in the whole field. This is the necessary requirement for interrow cultivation, also across the seeding direction. GEOseed® is the only system in the world, that makes this mechanic weeds control possible!



TECHNICAL SPECIFICATIONS

Model	MP1300	MP1600	MP1900	MP1600F	MP1900F
Frame	rigid	rigid	rigid	Parallel hydr. folding	Parallel hydr. folding
Number of rows	6	12	18	12	18
Mechanic drive with 7 gear lever gearbox	•	•	•	•	•
e-drive II	•	•	•	•	•
Tyres 5.00-15	•	•	•	•	•
Tyres 26x12 STG	—	—	—	—	—
Manually operated Track marker	•	—	—	—	—
Hydraulic operated track marker arms	◦	•	•	•	•
Pre Emergence markers	◦	◦ *	◦ *	◦	◦
Mechanic Hectaremeter	◦	◦	◦	◦	◦
Lighting Equipment	◦	◦	◦	◦	◦
Drift prevention disc	◦	◦	◦	◦	◦
Microgranule applicator	◦	◦	◦	◦	—
Row width	45/50	45/50	45/50	45/50	45/50
Total weight (kg) for basic version	400	910	1750	1250	2180

* Possibility of collisions between PEM and Lengthwise transport device

MP mechanical sowing unit (without seed disc)	Normal seeding	Tandem row	Mulch seeding
Parallelogram hitch with	•	•	•
Clod deflector	◦	◦	—
Parallel clod deflector	—	—	•
Rotating coverer	◦	—	•
Rigid coverer	•	•	◦
Monoflex press wheel	•	•	•
Finger press wheel	◦	◦	◦
Single hopper, content (l)	9	9	9
Weight of one sowing unit (kg)	50	59	64

Stage	Seed disc					
	Beet		Chicory		Rape	
	A4	A5	A6	B8	C12	C18
1	18,0	14,0	12,0	8,8	6,0	3,9
2	19,0	15,0	12,5	9,4	6,3	4,2
3	20,0	16,0	13,0	9,8	6,6	4,4
4	21,0	16,5	14,0	10,4	6,9	4,6
5	22,0	17,5	14,5	10,8	7,3	4,8
6	23,0	18,0	15,0	11,4	7,6	5,0
7	24,0	19,0	16,0	11,8	8,0	5,3

• Standard equipment ◦ Accessories — Not available for this type

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..

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The Kubota logo is rendered in a teal color. It features a stylized 'K' followed by the letters 'u', 'b', 'o', 't', 'a' in a rounded, sans-serif font. A registered trademark symbol (®) is located at the bottom right of the letter 'a'.