Precision planters
MS 8000

MaterMacc

Versatility and maximum precision

97+502.EN.1124

Versatility and maximum precision

All information on dimensions, weights, output, etc. and the photos are approximate and are not binding. The equipment shown is not country-specific and may include equipment that is not standard or is not available in all countries.
Your local MaterMacc dealer would be pleased to provide you with all the information you need.

The MS 8000 pneumatic precision planter series delivers maximum versatility and maximum sowing precision. Packed with features such as EASY-SET and a large choice of metering discs, these machines are easy to switch between crops. Converting to different row spacings simply could not be easier. The distributor, which is the heart of every precision planter, has been designed for maximum sowing accuracy in every kind of operating conditions found worldwide, and ensures perfect seed placement season after season. To help your crop get off to a perfect start, you can also equip your MS 8000 with fertiliser and micro-granule distribution systems.
That is why the MS 8000 is the perfect planter for delivering maximum precision and high output even when frequently changing crops.

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The basis for sowing a successful crop

The importance of soil

Soil forms the basis for farming and is one of the most important yet finite resources in the world. Soil is the very essence of our existence, because we need it to grow high-quality nutrients - for us and for our livestock.

Healthy soil is essential for healthy plant growth and for the sustainability of soil life with the aim of optimising soil yield and quality.

In addition to weather conditions and the type of crop, soil plays a fundamental role in the growth of crop plants.

A loose soil with a good distribution of pores and without compaction allows each plant to develop an extensive root system. Plenty of space for the roots is important so that they can absorb nutrients and water during the initial phases of growth.
Good tillage and seedbed preparation are prerequisites for successful sowing.

Optimum preparation

Optimum planting is made easier if the seedbed is well prepared.

A well prepared seedbed features a uniform, level finish, an ideal proportion of tilth and optimum consolidation. The seeds then need to be covered sufficiently to create the best germination conditions for rapid and uniform crop growth.

MaterMacc precision planters can be used to sow seed material on well-levelled seedbeds as well as on soil that has not been optimally prepared. Thanks to a wide range of accessories, these planters are suitable for operating in damp soil with harvest residues, as well as on heavier types of soil.

Perfectly placed

The results of planting also depend on the environmental conditions, the physical properties of the seed material and its genetics; especially its germination capacity.

To promote rapid and uniform germination, the seed needs to be planted precisely and evenly so that it is completely covered with soil.

Precision seed placement is achieved by forming a precisely defined seed slot and a uniform seed placement depth.
The depth at which the seed is placed is decisive for determining subsequent plant growth.
If the seed is planted too deep, germination will take longer. This increases the risk of pests infesting the seed or surrounding soil. To avoid this, careful planting and precise placement are essential. This gives the crop the opportunity to emerge within the planned timeframe and not have to compete with other plants.

Planting a successful crop

Planting is one of the most tricky and costly phases in the crop cycle. Mistakes made during this phase are difficult to put right, especially with crops such as maize, soya, sugar beet and sunflower seeds, where it is essential that the seed is sown at the correct depth, between the rows (inter-row) and in the same row (intra-row).

That is why MaterMacc has developed a range of precision planters that are capable of separating each individual seed from the hopper and placing it in the soil in the right place and at the right depth.

Precision planting

The importance of precision

Planting is one of the most important processes in the cropping cycle and requires a great deal of focus, because it is the seeds that will become the plants that will produce the harvest.

Only uniform and precise seed placement together with optimum soil contact can guarantee uniform emergence.

The precision planters in the MaterMacc product range have been designed to carry out this delicate operation as carefully as possible in three specific phases:

- Optimum formation of the seed slot in the soil
- Precision placement of the seed in the slot at a consistent depth in relation to the soil surface
- Closing the seed slot and consolidating the soil lightly to promote adhesion of soil to the seed

In order to achieve optimum planting that is able to bring out the best in terms of the genetic characteristics of the seed, the planter also needs to carry out the following operations correctly:

- Placing the seed with consistent inter-row and intra-row spacing to avoid competition between the plants
- Preventing damage to the seed material
- Being able to handle versatile applications with different types of seed, and easy to adjust when switching between crops
- Maintaining a high working speed with consistent reliability

An innovative distributor

MaterMacc is well aware of the importance of precision and consistency in sowing seed and has developed a range of precision planters with features that allow the user to sow seed profitably. This is possible thanks to the expertise of the company, which can look back on over 40 years of experience in the field.

The MAGICSEM distributor is the heart of MaterMacc planters; it is made of materials that guarantee high torsional and bending strength as well as high resilience to fluctuations in temperature. The planter is packed with features that make it reliable and precise.

It can be adapted to all seed types, from the smallest, such as oil seed rape, to the largest, such as beans. The metering discs can be changed quickly and easily whenever necessary, without the need for tools.

Precision for all crops

"I now have my third precision planter from MaterMacc. I decided to go for another MaterMacc because it guarantees precision regardless of the type of seed. Even when changing the machine configuration between different crops, the results I have achieved with sorghum, maize, soya and sunflower seeds are of remarkable quality in terms of precision in each row".

Adriano Marano
Contractor
Trivignano Udinese | Italy

Precision planting

Seeding unit 8000

1 MAGICSEM or MAGICSEM PLUS distributor

2 50 litre seed hopper

3 Pressed and bolted tool bar

4 Spoked wheels do not become clogged on soil with crop residues

There are three different planter units available to meet different requirements.

Seeding unit 8000

- Distributor: MAGICSEM
- Maximum planting speed: 8-10 kph
- Driveline: mechanical

Unit with a coulter pressure of up to 125 kg with double disc coulter. Outstanding planting performance and precision in a variety of operating conditions and different soil types.
Impressive flexibility. A wide range of configurations are available.

Seeding unit 8000 EVO

- Distributor: MAGICSEM PLUS
- Maximum planting speed: 12 kph
- Driveline: mechanical

The EVO series was developed for planting speeds between 6 and 12 kph.
Productivity/hour is increased by up to 50 % with the same planting precision.
This planter unit also features the standard reinforced spring with a coulter pressure of up to 135 kg and spoked wheels, which clear the soil better in damp condition without clogging.

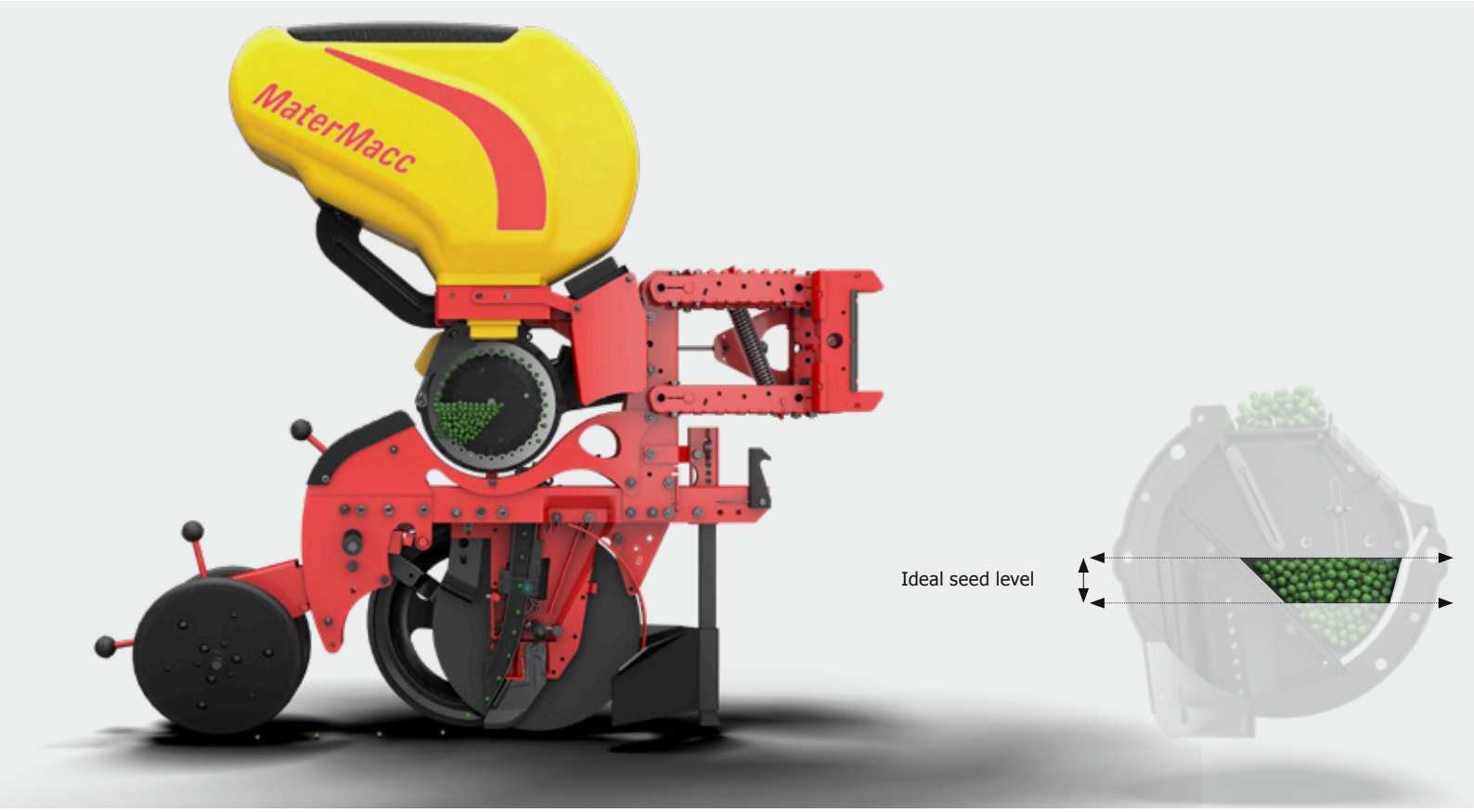
Seeding unit 8000 ELEKTRO

- Distributor: MAGICSEM
- Optional distributor: MAGICSEM PLUS
- Ideal planting speed: 7-8 kph
- Maximum planting speed: 10 kph
- Maximum planting speed with PLUS distributor: 12 kph
- Driveline: electric

This planter unit features and electric drive distributor. Using this system, the seed spacing can be conveniently changed at the control terminal; it also enables the section control and variable rate control functions to be activated. The metering disc filling function allows uniform sowing right from the start.

Precision planting

MAGICSEM distributor



One distributor, many advantages

MAGICSEM distributor features:

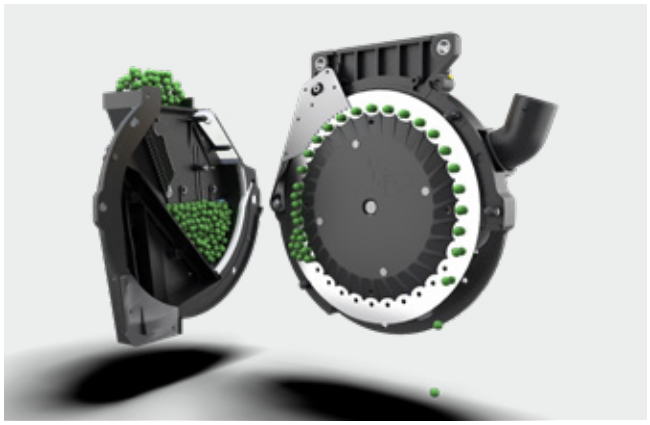
- No seed breakage
- No temperature-related expansion
- Regular and uniform seed drop
- Minimised friction between disc and seal
- Low suction force required
- The selector does not damage the seed and has no invasive effect on it
- The metering disc can be changed quickly and easily without the need for tools; only four simple fasteners need to be actuated on the cover
- Reconfiguring the distributors on all the planter units only takes a few minutes

Easy to adjust

The seed is fed directly from the hopper into the disc intake.

Only a few simple adjustments are needed to optimise the operation of the distributor. These are carried out according to the shape and size of the seed.
The seed level needs to be checked: If there are too many seeds they can impair the separation process. The seed level can be controlled by changing the position of the movable partition wall, or replacing it with the fixed partition wall for small seeds.

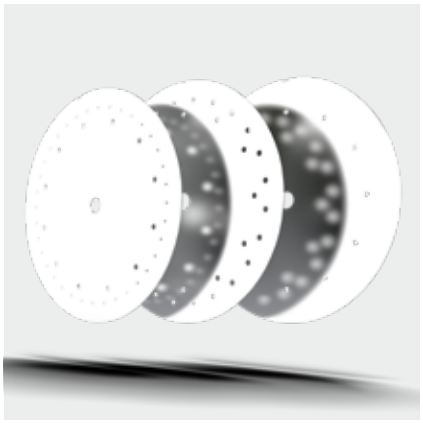
Once the seed-specific settings have been made, the MAGICSEM ensures that planting precision remains consistent.

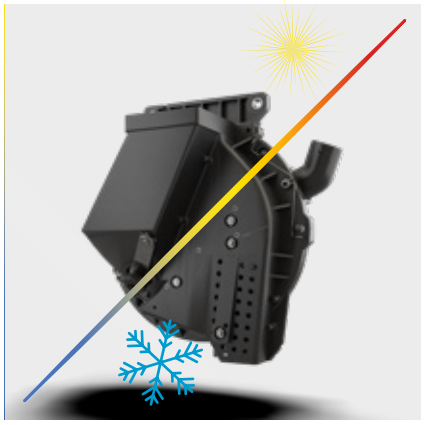


Efficient and precise

One of the reasons why the distributor works so efficiently and precisely is the suction chamber. A vacuum pump generates negative pressure inside the chamber.

The intake system only works if the vacuum is kept at a constant level. On the MAGICSEM distributor, this is achieved by closely matching the parts together as if they were a single object.





Regular and consistent

The metering disc holder is mounted on two ball bearings. The intake chamber is fitted with a single seal around the circumference. This system ensures regular and consistent rotation of the metering disc; very little effort is required here because friction is minimised.

The vacuum level must be below 45 mbar to reduce wear on the metering disc and the seal.

For all types of seed

The MAGICSEM distributor can adapt to all types of seed: from the smallest (e.g. oil seed rape) to the largest (e.g. peanuts).

A large selection of commercially available metering discs is available. The discs can also be customised to meet specific requirements on request.

Dummy metering discs are also available that have no holes for the seed to be sucked in. These discs are fitted if an MS 8230 12-row planter is converted to 8 rows, for example. The 4 planter units that are not in operation are fitted with dummy discs.

For all seasons

These machines are designed to operate in a very wide range of temperatures. The materials are resistant to fluctuations in temperature.

Precision planting

MAGICSEM distributor

Robust

The MAGICSEM distributor consists of a special polymer glass fibre composite that provides greater torsional and bending strength than aluminium.

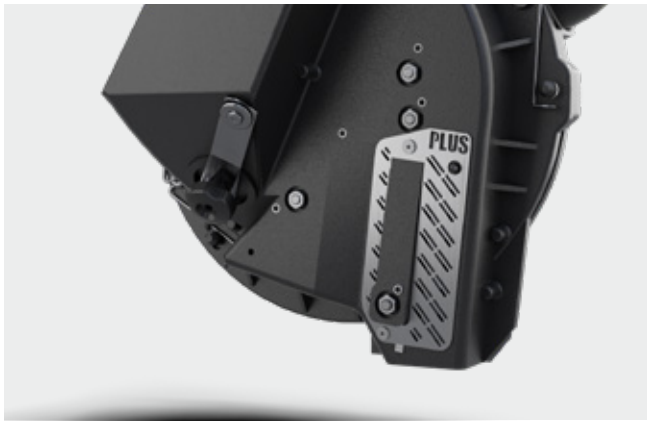
The metering disc is made of stainless steel and only requires a low torque as it is not driven axially but radially by the same pins on which the disc rests. These also act as an agitator in the distributor chamber.

A thin metal strip, which is in contact with the disc, is aligned along the centre line of the holes in which the seed sits. This prevents the thin part of more pointed seeds from being drawn into the holes where they might become caught.

Easy to convert

To convert from 12 rows to 8 rows, simply install dummy metering discs (discs without holes) on the planter units that need to be switched-off. This ensures that the correct vacuum is maintained throughout the system and that there is no air loss, guaranteeing optimum distribution of the seed.

To switch between crops, the selector needs to be set so that only one seed is planted at a time, and, in case it is set too low by mistake, seeds do not fall out of the disc and leave a gap in the seed slot.



MAGICSEM Plus distributor

This represents a next level development of the MAGICSEM distributor, introducing a number of improvements to increase the planting speed while maintaining the same precision of the basic MAGICSEM distributor at higher driving speeds.
It is supplied as standard with the MS 8230 SUPER ELEKTRO model.
Available as an option on the other models.

Built-in agitator

Metering disc with built-in agitator. The agitator inside the seed chamber improves metering even at high speeds and protects the seed against damage without restricting the range of crops that can be planted.

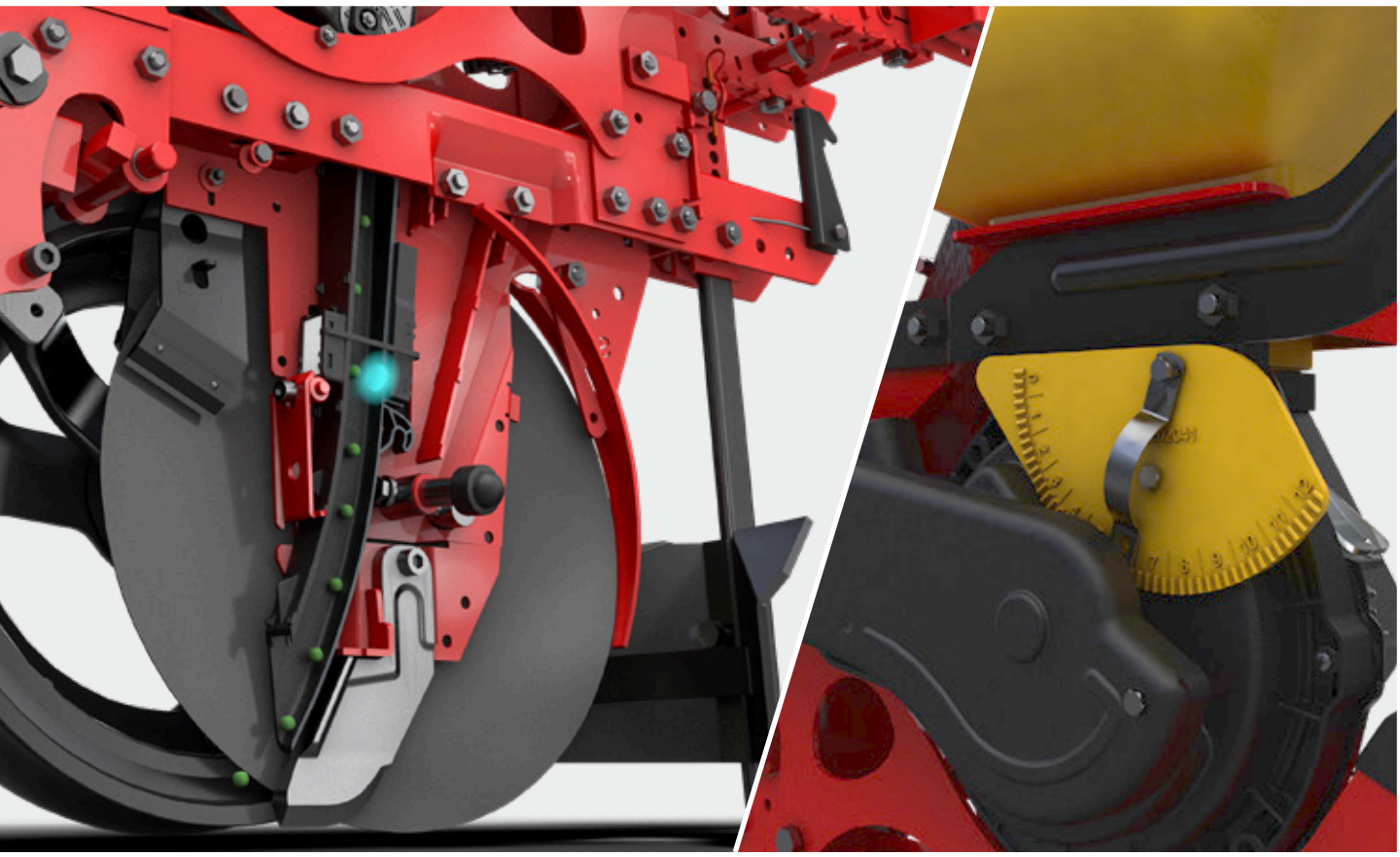
360° seal

The 360° seal reduces friction with the metering disc so that less torque is required to rotate it. This retains the level of the vacuum and reduces the maintenance requirement at the same time.

Tested quality

MaterMacc goes a long way to ensuring that each individual row is planted perfectly. Each distributor is tested by a machine that makes sure it has been assembled properly and works perfectly. If the result is positive, a test certificate is issued that certifies the approval of the device by generating an ID code and registering the result achieved.

Precision planting



Light barrier for monitoring the seed rate

All electronic planting units are equipped with a light barrier to detect the seed rate, regardless of whether large or small seed (optional) is being planted.
The optional light barrier for small seeds is designed to detect seeds such as oil seed rape, tomatoes, radicchio lettuce, onions, mustard and many more.

It is an important instrument for detecting small seeds, because it is often difficult to check for proper distribution in the field with the naked eye.
When adjusting the seed flowrate settings, this device allows the planting rate to be tracked so that no seed is wasted.

Setting the seed selector

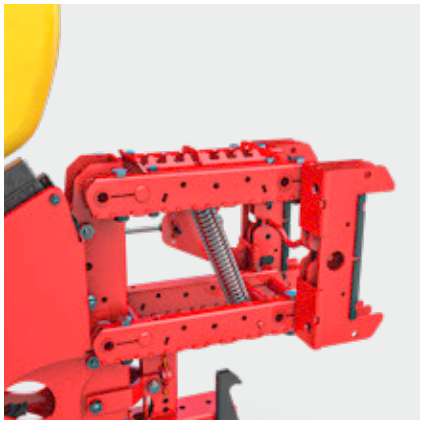
If the light barrier reports an incorrect seed rate, the seed selector can be adjusted accordingly so that only one seed is distributed per hole.

This simple but effective system removes all excess seed from the metering disc. There is an inspection window to check whether the seed selector setting is working effectively.

The angle of the selector needs to be set so that only one seed is planted at a time, and, in case it is set too low, seeds do not fall out of the disc and leave gaps in the row.

Inspection window

A practical inspection window is built into each distributor so that the situation inside can be viewed quickly.
It is located on the back of the seed distributor.



Ground tracking

The compression spring has a winding diameter of 5 mm and is designed to increase or alleviate the coulter pressure and ensure a correct and consistent planting depth.

A spring with a larger winding diameter (6 mm) is also available as an option for heavier or more uneven soil.

Hydraulic lifting system

By attaching the optional lifting system accessory to the planter units, they can be lifted hydraulically as required. An additional hydraulic block is required.

The window is kept clear by an integrated wiper.

The MS series planters are fitted with the new plain discs as standard because they are better at entering the soil. Thanks to a special boron steel, they are more wear-resistant to abrasive soil. They are also constantly cleaned thanks to a double scraper with tungsten plates applied to the inside and outside of the disc. Tungsten is particularly hard and offers an above average extension to the service life, especially in very abrasive sandy soils.

Precision planting

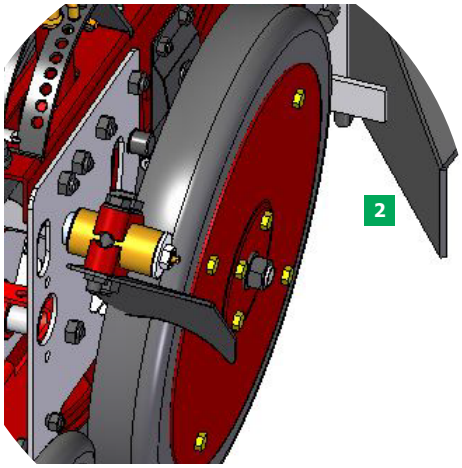
Depth control wheels

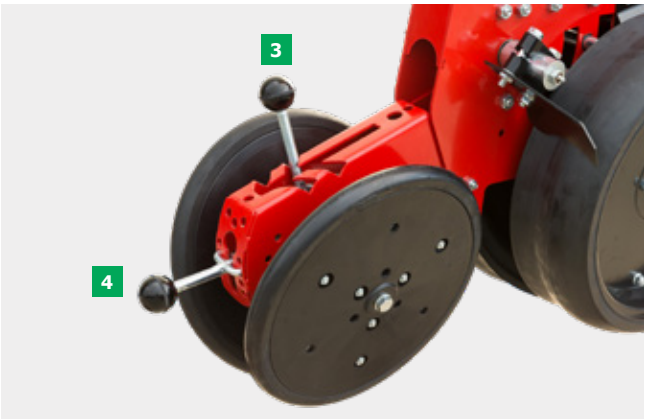
A consistent planting depth ensures uniform germination, which is essential for the growth of a strong, healthy crop. The depth control wheels on the MS 8000 series move independently of each other according to the ground contours to ensure the planting depth remains constant. This system ensures a uniform depth even on soils that have not been optimally prepared.

The working depth of the wheels can be adjusted using the nearby lever **1**. A selector scale indicates the setting to be replicated on each planter unit after the first one has been set up.

The V-shaped wheels for closing the seed slot are very important for maintaining moisture and ensuring the best possible seed emergence. They can be adjusted using multiple settings to optimise the end result.

In addition to the standard wheels, narrow depth control wheels **2** are available for the best possible working results even with high volumes of organic matter. These are being increasingly specified following the popularity of conservation tillage methods. Using this setup, harvest residues are removed from the point where the planter unit opens the seed slot. The minimum row spacing for narrow wheels is 30 cm.



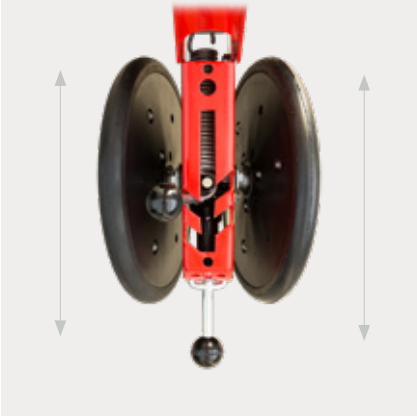


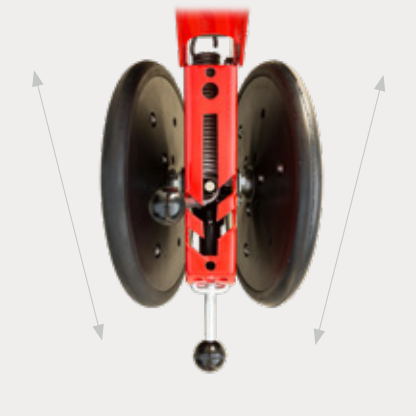
Can adapt to all soil types.

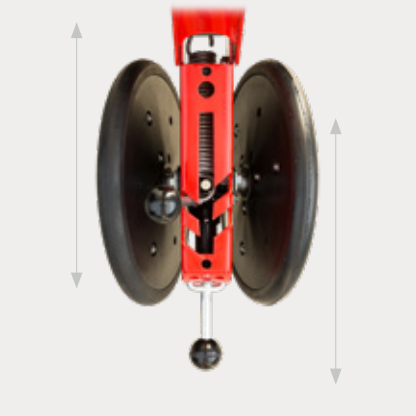
3 Pressure setting: The pressure is adjusted according to the soil conditions and the planting depth.
4 Track setting The track between the wheels is adjusted according to the soil properties. Various options are possible, as shown in the illustrations below.

Setting the gap between the press wheels

The gap between the press wheels can be adjusted using the spindle system. This adjustment achieves a more even closure of the seed slots to provide the best possible germination conditions.







For sandy soil

On sandy soils, a narrower seed slot closing arc is recommended.

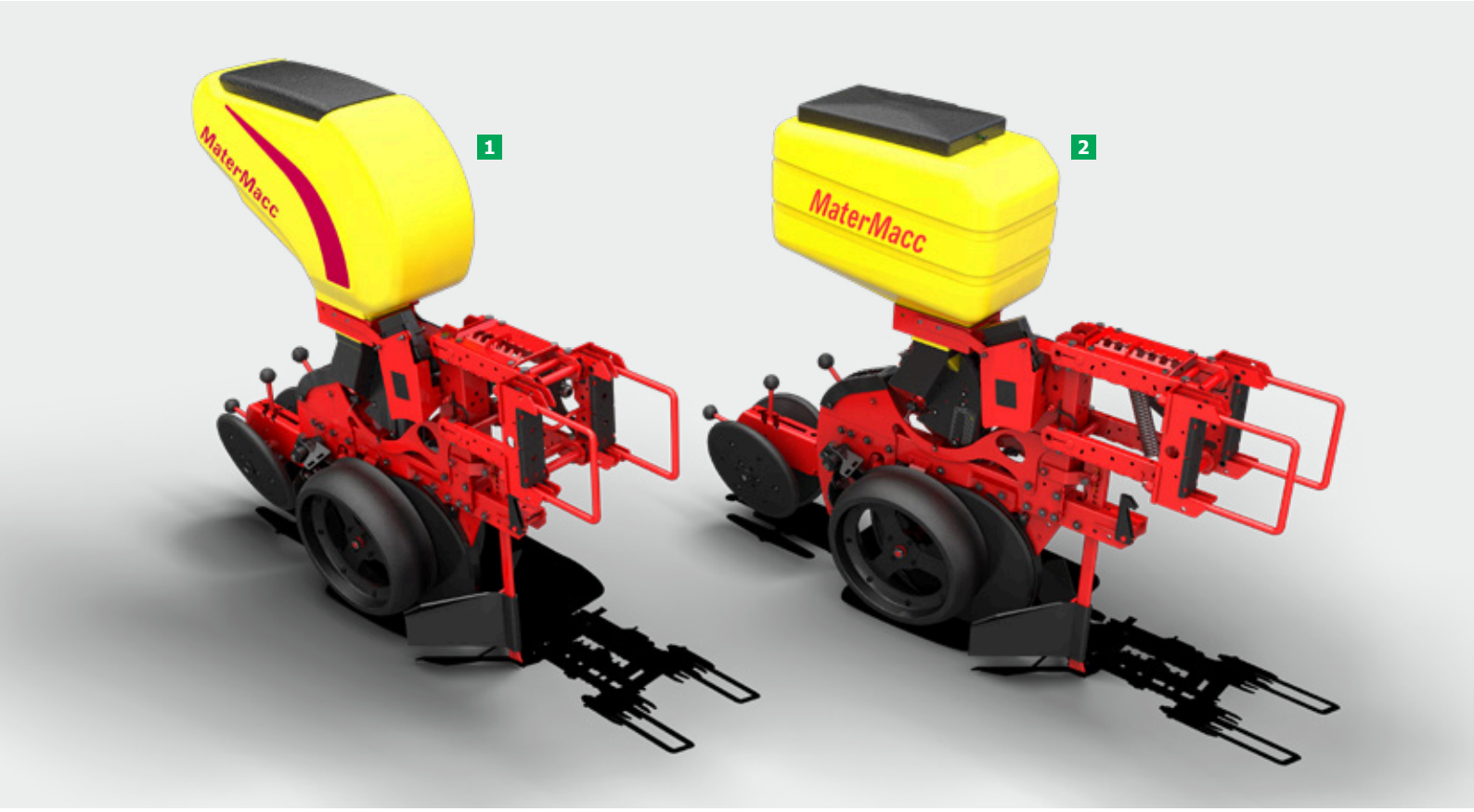
For stony soil

On stony soils, a wider seed slot closing arc is recommended.

Offset press wheels

It is also possible to offset the press wheels in relation to each other so that the seed slot is closed from one side first and then closed completely by the following press wheel. This is ideal for particularly heavy soils because more pressure can be applied to each press wheel.

Precision planting



Maximum flexibility

Thanks to an extensive range of accessories, the MS series precision planters can be customised to meet your specific requirements. The various options available are an invaluable help in adapting your machine to handle the way the field has been prepared prior to planting, and the site specific soil conditions.

Various accessories designed for opening the seed slot are available, such as the star wheel cleaning paddle for seed slots in soil with harvest residues, and the turbo disc for loam and soils of medium heaviness, where the top layer may need to be loosened.

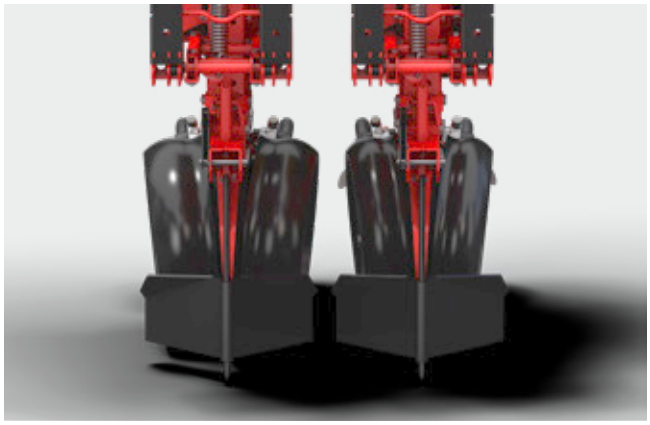
There are also various options available for closing the seed slot: Standard press wheels that can be adapted to all types of soil, and press wheels that are suitable for heavy soil and loam.

Seed hopper

1 The standard hopper has a capacity of 50 litres.

2 The largest hopper, which is available as an accessory for the versions with wide depth control wheels, has a capacity of 70 litres, which increases the range by 40 %.

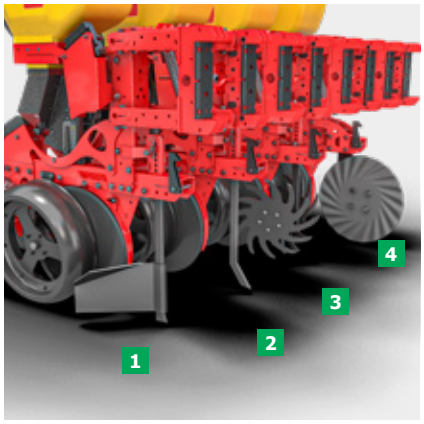
The seed hoppers are made of reinforced plastic. The geometry of the inside surface ensures a continuous flow of seed to the distributor. A practical sliding cover provides access to the hopper for filling with seed material.

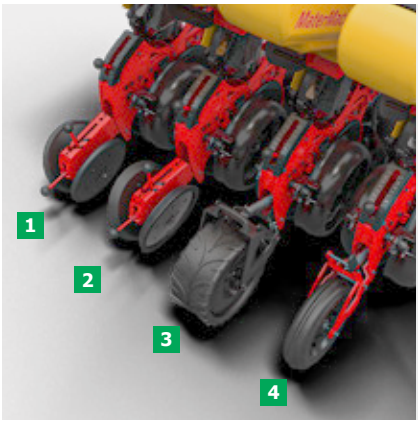


Depth control wheels

1 Standard depth control wheels: for 4- to 9-row machines. The minimum distance between the rows is 37.5 cm

2 Narrow depth control wheels: standard on planters with 9 or more rows. The minimum distance between the rows is 27 cm.





For opening the seed slot

1 Row clearer

2 Add-on tool for subsoiler with reinforcement. This makes it easier for the coulter to enter the soil in heavy conditions.

3 Add-on star clearer tool. This removes harvest residues at the point where the planter unit opens the seed slot.

4 Add-on turbo disc. This loosens the top layer and creates a strip of fine soil to make the coulter's work easier.

For covering the seed slot

1 Intermediate slot covering set. This allows the V-shaped press wheels to better close the seed slot over the seed. This is essential for faster seed emergence.

2 Stainless steel firming roller. This ensures the seeds are spaced precisely in the seed slot and have the correct seed-to-soil contact for better seed emergence and crop growth.

3 Rubber firming roller. This version is also suitable for damp soils.

For closing the seed slot

1 The standard V-shaped wheels are adjustable and suitable for all soil types.

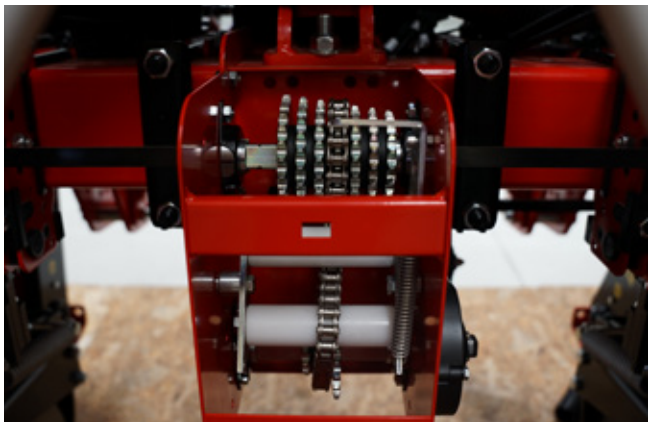
2 For heavy soils, the special press wheels with a flat edge profile are recommended.

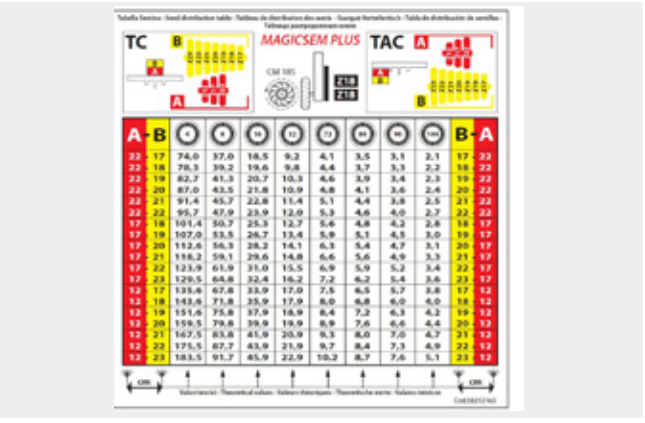
3 Farmflex press wheels are designed for loam soils.

4 Rounded press wheels make it easier to close the seed slot in difficult conditions, e.g. when planting early on damp soil.

Precision planting

Mechanical driveline





The drive wheel is connected to a cascade gearbox (7 sprockets on 3 pinions, providing 21 speeds) and a series of reduction gears that allow the correct gear to be selected for the required seed spacing. No tools are required for the adjustment; there is a table with the relative spaces inside the gearbox cover.
It is possible to change the input speed on the gearbox: An additional optional set is available to increase and decrease the seed density.

Each planter unit can be separated from the driveline quickly and without tools.

The planter units can also be quickly lifted away from the ground and hooked into their own parallel linkage so that the relevant row is switched off; dismantling is not necessary.

Electric driveline

The ELEKTRO version has various advantages, including the use of application maps, which can be used to optimise resources through variable rate control, and an automatic preset for switching off the rows. Please note: Variable Rate Control with application maps is only possible across the entire width of the machine, not for individual rows.

The ELEKTRO version is characterised by its straightforward design: Because there are no mechanical reduction gears, even more versatile configurations are possible.

On the ELEKTRO version, the distributor has an electric driveline. All ELEKTRO versions are ISOBUS-compatible, i.e. they are controlled by a single control unit that is connected to the ISOBUS control terminal in the tractor. The electric motor is connected to the distributor by a chain drive. This maintains the compact design of the planter unit and tool bar without changing the design, so it achieves the same range in terms of row spacing.

MaterMacc's systems are autonomous: MS ELEKTRO machines are equipped with an alternator so as not to overload the tractor's electrical system. The machine also has capacitors to store power instead batteries: As a result, the system is maintenance-free.

Profitability

Soil fertility

Soil fertility rates the suitability of the soil in a particular location for growing plants to produce the highest yield. It consists of various characteristics and is measured using the fluctuations in yield and quality at harvest.

The physical properties of the soil are characterised by its structure. The correct method of cultivation maintains and stabilises the soil structure. Plant roots in particular directly influence other factors such as nutrient balance and microbial activity.

The chemical properties are primarily determined by the pH value and the type of rock on which the soil is based. Fertilisation and a varied crop rotation can help to maintain soil fertility.

The biological properties involve organic material activity and the presence of soil life.

Fertilisation

Fertiliser can be applied during planting to accelerate the development of the plants by speeding up the complete covering of the soil by the emerging plant. This also reduces competition from weeds and soil erosion during heavy rainfall.

MaterMacc planters can be used as single-function planters if they are only used for seed, or as seed-fertiliser combinations if fertiliser is applied during planting.

MaterMacc provides various fertiliser hoppers to meet different agronomic requirements. You can choose between VARIOVOLUMEX and a MIDI hopper.

Combine planting with fertilisation

"In addition to ensuring planting precision and maintaining a consistent depth on the different soils I work, the MaterMacc MS 8200 planter - which is equipped with VARIOVOLUMEX fertiliser hoppers and micro-granule spreaders - allows me to combine the spreading of fertiliser granules and geo-disinfestants against insects and pests in the soil."

Raffaele Schincariol
Contractor
Pordenone | Italy

Profitability

Systems for applying fertiliser

The size of the fertiliser hopper depends on the model of the planter. The hoppers are available in painted steel and stainless steel.

The capacity of the hoppers ranges from 100 to 1,400 litres, depending on the model; they can also be mounted in series on the mechanical versions.

The painted versions (cathodic dip coating and epoxy resin powder coating) have a bolt-on stainless steel base, which ensures a long service life for the hopper, because 90% of the fertiliser settles on the base.

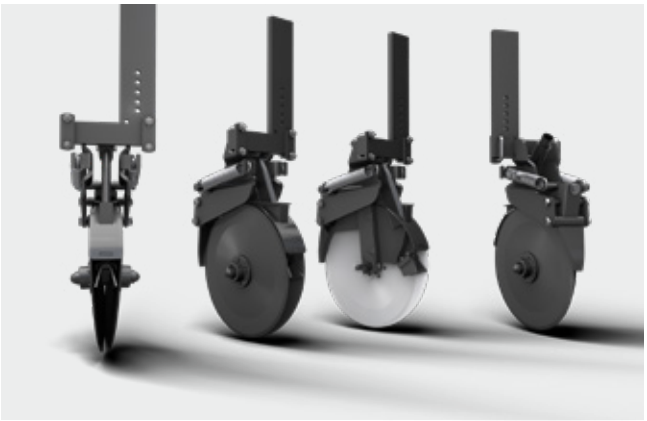
The internal shape and the angle of the walls, together with the internal guide plates, ensure that the fertiliser slides easily inside the hopper down to the fertiliser distributors, allowing the hopper to be completely emptied.

MIDI pneumatic system

The MIDI system is based on two volumetric metering units that deliver the fertiliser granules to each row by means of a pneumatic system. The hopper, which is made entirely from stainless steel, has a capacity of 1,000 litres for machines up to 2.54 metres wide and 1,280 litres for machines from 3 metres to 3.2 metres wide. It is available for 6- to 12-row versions, including convertible models such as the MS 8230. The planters with an uneven number of rows are very well suited to this hopper, because the fertiliser is used evenly inside.

VARIOVOLUMEX system

The VARIOVOLUMEX system is suitable for distributing granules between rows. Thanks to the distributor, it allows a high working speed with exceptional precision. Each row has its own volumetric distributor. The seed material is generally conveyed by gravity, with the exception of specific models that feature pneumatic conveying on the outer rows.



Double-disc coulter

If the planter is equipped with a fertiliser hopper it is fitted with double disc coulters.
These consist of a double disc with a diameter of 350 mm and a scraper between the discs.
The depth is adjusted quickly without the need for tools thanks to a simple hub on the front of the planter unit.

Fan for conveying material pneumatically

A double fan unit is fitted to the machines equipped with the MIDI hopper: The first generates the vacuum for the seed distributor, the second pneumatically conveys the fertiliser to the rows.
The MIDI hopper can be mounted on 6- to 12-row machines to cover large working widths.

The fan unit supplied with VARIOVOLUMEX models conveys material to the outer rows on machines with 6 or more rows. This makes sure that the outer rows also receive the same amount of fertiliser.

Uniform distribution

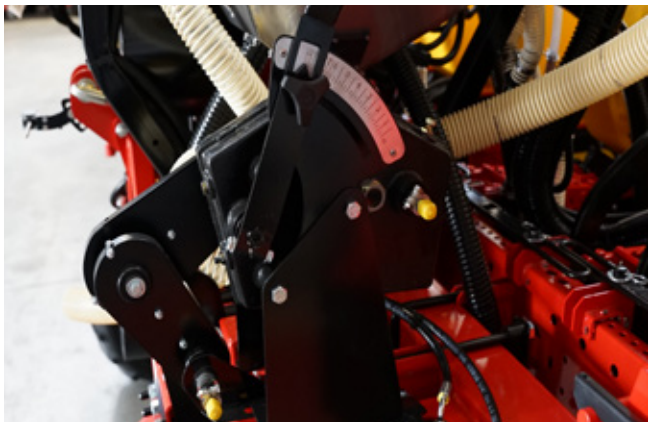
The distributor heads on the MIDI models are made of plastic and stainless steel according to an R&D design: Their shape ensures uniform distribution between the rows and maximum resistance to corrosion.
The number of outlets can be changed by installing stoppers depending on the number of rows used by the planter units in use; this is essential for convertible machines.

Coupling with the SVA ELEKTRO front hopper

The front-mounted SVA ELEKTRO fertiliser tank adds a capacity of 1,800 litres to the planter and gives it a greater range as a result.
It is connected to the machine by stainless steel tubes which convey the material from the front hopper to the planter.

Profitability

Mechanical fertiliser spreading system



The MIDI system conveys the fertiliser material pneumatically. The setting is changed using a control lever. Changing the position of the lever calibrates the flow rate using the tables provided.

Both coulter types - versions with and without MIDI - can be adjusted for fertiliser application without the need for tools, and the seed slot depth can be changed according to the site specific requirements. The disc coulter can also be adjusted laterally by approx. 10 cm in relation to the seed slot (it is usually preset to 6.5 cm).

The EASY-SET row spacer ensures that the fertiliser unit always corresponds to the set row spacing of the planter units, because they are mounted on the same tool bar.

Electrical fertiliser spreading system

Electrical fertiliser spreading is an interesting option available on request for the MS ELEKTRO models. As with the seed material, the ISOBUS control unit controls the electric motors that operate the fertiliser metering units. The screw adjuster for the central setting of the metering units is only used to open the slide plates; the control unit then controls the volume per hectare according to the preset metering rate.

Guaranteed efficiency

Why use micro-granules?

By applying micro-granule fertiliser while planting, the nutrients can be used directly by the crop plants from the first stages of plant development.

Starter fertilisers are especially recommended for soil that is not particularly fertile, because when it is distributed along the row it makes it easier for the plants to absorb the nutrients and compete effectively against weeds. At the same time, the quantities of fertiliser used are reduced and, consequently, so is the amount of chemicals released into the environment.

Soil-active plant protection products can also be applied in micro-granule form to prevent damage to the seed and the emerging plant caused by pests and insects.

Application at the time of planting reduces the number of passes over the soil, which means less compaction, less time spent in the field, and lower operating costs for the farmer.

Save on fuel consumption

Thanks to their special configuration, MS precision planters can be used with medium and low horsepower tractors.

For example, a 12-row planter and micro-granule spreader coupled to an SVA ELEKTRO front hopper can be operated by a tractor with just 120 hp.
Or, two 12-row machines, each pulled by a 115 hp tractor, can be used to plant sugar beet.

The savings on fuel consumption and lower compaction have financial, agronomic and environmental advantages. In addition, the compact design of the machine simplifies turning around at the headland, saving time in the field for manoeuvres and processing.

Guaranteed efficient

Micro-granule spreader

Micro-granule spreader

The MaterMacc micro-granule spreaders each have a capacity of 25 litres. Each micro-granule spreader has two outlets to supply to planter units.

On a planter with an uneven number of rows, the micro-granule spreader can be operated with one output to supply only one row.

1 If a row needs to be closed off, this can be done simply by inserting an internal partition, as shown in the illustration.

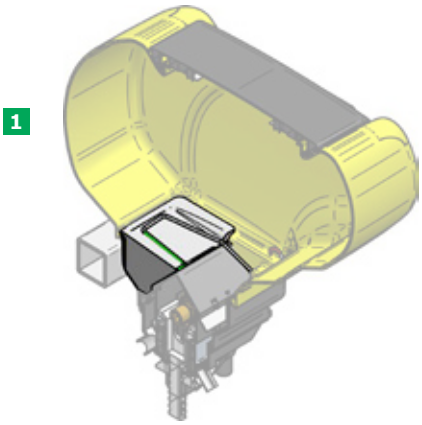
2 Depositing the microgranules into the seed slot together with the seed

3 Optional: Broadcasting slug pellets that remains on the surface

Location of the micro-granule spreader

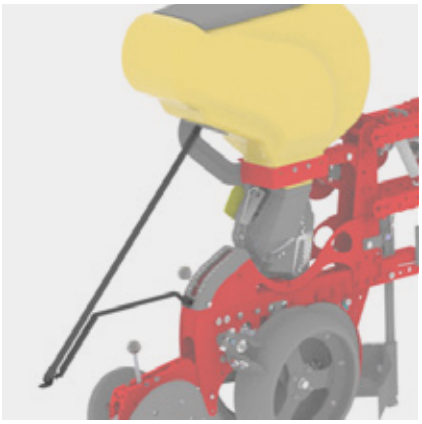
The micro-granule spreader is installed in front of the seed hopper as standard. On the electric version, the micro-granule spreader can be installed behind the hopper as required.

The sub slot application system deposits the microgranules into the seed slot together with the seed. Its position in the seed slot is determined by the location of the micro-granule spreader behind the seed hopper. The function is the same.



For micro-granules

The MICROVOLUMEX hopper is available in plastic in a 25-litre version. It is used to deposit micro-granules in the soil. Insecticides and fertilisers are applied at the same time as planting and ensure the supply of nutrients, or protection against pests, in the first stages of plant development; they promote rapid plant growth. The slug pellets can be broadcast over the row.



Easy to adjust and clean

The adjustment system is located at the bottom of each hopper and is regulated manually using a practical wheel.

Each micro-granule spreader has a practical system consisting of two openings for emptying; this also makes it easier to clean at the end of each job.

Simultaneous distribution of two products

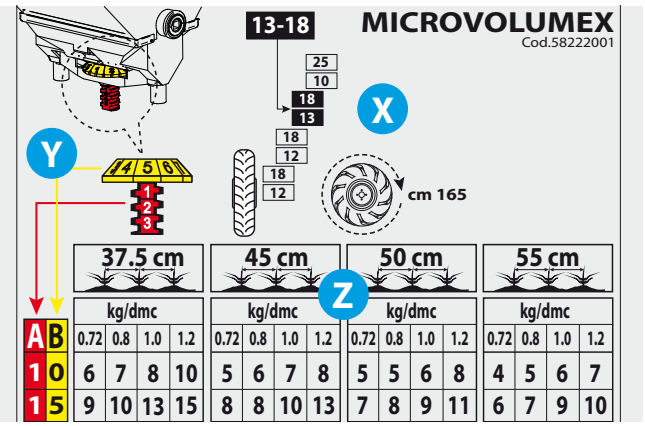
The double micro-granule spreader set can also manage the simultaneous distribution of two different products, e.g. insecticide and micro-granules.

Broadcast set

This distributes the microgranules on the soil surface behind the seed coulter. Suitable for the distribution of slug pellets.

Guaranteed efficient

Mechanical micro-granule spreader



The MICROVOLUMEX hopper is available in plastic with a capacity of 25 litres. One hopper is provided for two planter units.

The mechanical distribution system is set using the table inside the cover on the micro-granule spreader. It is adjusted by turning the two controls A and B, as shown in the illustration.

The double micro-granule spreader is available as an option to handle more applications. The MICROVOLUMEX system is used to apply microgranules such as additional nutrient fertilisers and insecticides. They are applied at the same time as planting and ensure the supply of nutrients, or protection against harmful insects, during the growth stages of plant development; they promote rapid plant development and protection. A lock is provided for the uneven-numbered rows so that unused units can be switched off and no product is wasted.

Electric micro-granule spreader

Distribution Kg/ha	Specific weight 1.0 Kg/dmc		
	A	B	g/rev
5...10	0	9	10
10...30	2	1	20
30...50	3	4	28

The electric driveline is extended in the MS ELEKTRO configurations for micro-granules. Application is driven by a motor with proven reliability that is paired for each hopper.
One micro-granule spreader is provided for two planter units.
If the planter units are switched off, also by application maps, the micro-granule spreaders are automatically excluded as well; this is done in pairs, so both planter units that are fed from the same micro-granule hopper need to be switched off.

The whole system is controlled by a single ISOBUS control unit, which controls both the planter units and the micro-granule spreaders. Depending on the type of product and the quantity to be distributed, the distributor controls must be set as explained in the table and the respective calibration values entered at the control terminal.
The micro-granule spreaders are not equipped with sensors for the filling level; it is therefore necessary to keep track of the quantities applied.

Flexible handling

Early deployment in the field

The lightweight yet robust design of MaterMacc planters allows them to be used early in the field in more challenging weather conditions. This is possible in periods after high rainfall, for example, the months of February and March, which is when beet is due to be sown. If the soil is damp, a lightweight machine can be utilised sooner.

Huge diversity of crops

The precision planters in the MS 8000 series allow a wide variety of crops to be planted with the same machine. This is made possible by the MAGICSEM distributor, which is capable of metering numerous seed varieties. Thanks to the numerous settings and accessories available, the planter unit can also be adapted to a wide range of soil types and conditions; from the lightest to the heaviest and from the driest to the wettest.

EASY-SET: Hydraulic system

Using the EASY-SET system, patented by MaterMacc in 1996, you can set the row spacing using a hydraulic cylinder actuated from the tractor.
The cylinder moves the planter units along the EASY-SET tool bar. The planter units are spaced at the required intervals by row spacers, which are attached to the planter tool bar. The planter units are located correctly when they reach the end of the spacer.
The different row spacer sizes correspond to different row spacings.

EASY-SET: one machine, several crops

"With my previous seed drill, it took me an hour to change it from 4 rows to 6 rows. I can convert the MS 8200 from MaterMacc in less than 20 minutes.
We plant maize with 4 rows of 75 cm, then soya with 6 rows of 45 cm.
Thanks to this level of flexibility, I can plant several crops with a single machine. I also save valuable time setting the machine up before going into the field."

Manuele Benacchio
Farmer
Terzo di Aquileia | Italy

Flexible handling

EASY-SET

Features

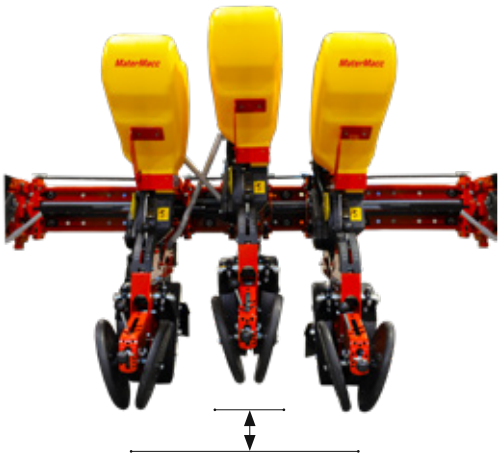
Thanks to the EASY-SET system, MaterMacc machines are among the most versatile on the market.

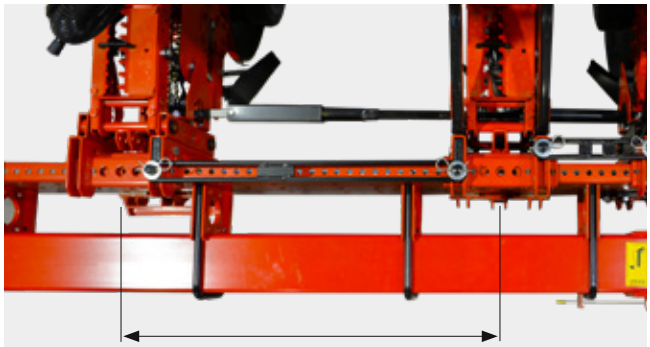
This system lets the farmer adjust the distance between each planter unit to match the crop being planted, starting with a minimum row spacing of 37.5 cm up to 70 - 75 - 80 cm for standard configurations.

Other configurations are available on request.

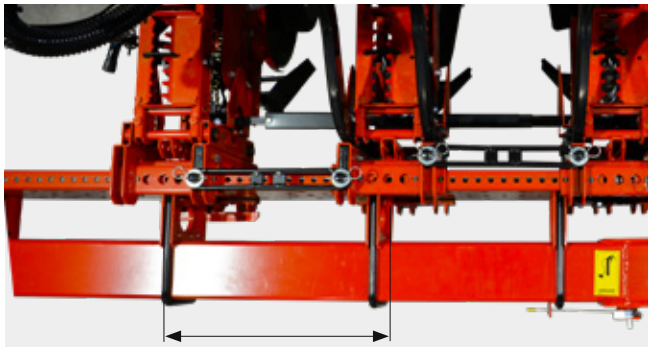
Changing the row spacing is quick, easy and can be carried out by one person alone on both rigid and folding tool bars.

To convert the planter from 12 to 8 rows, the planter units do not need to be removed. It is sufficient to switch off the rows that are not required by lifting the planter units and locking them securely with the hook provided.
This step is completed in no time and requires no additional tools, with the exception of a lever that is provided to make it easier to lift the planter unit.





Wide row spacings:
Row spacers for crops with row spacings of 70 - 75 - 80 cm



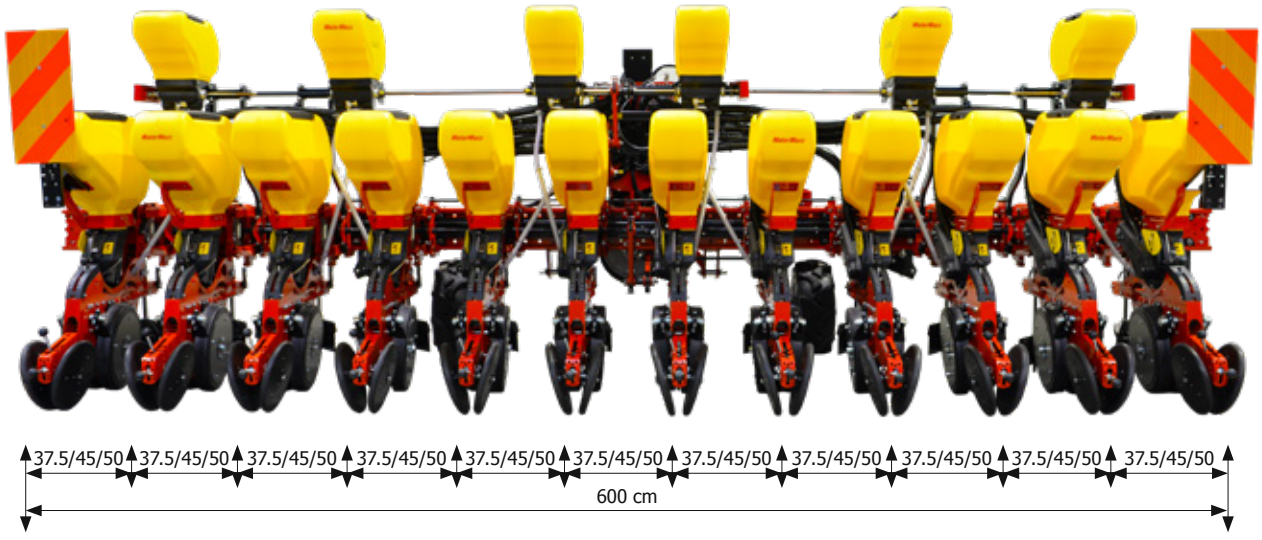
Narrow row spacings:
Row spacers for crops with row spacings of 37.5 - 45 - 50 cm

Row spacers

By swapping out the row spacers, it is possible to switch quickly from one configuration to another, ensuring maximum flexibility. EASY-SET means you only need one precision planter because it is able to adapt to the agronomic requirements of different types of crop.

Why use an EASY-SET system from MaterMacc?

- Quick configuration change: only takes around 20 - 25 minutes
- Row spacers can be customised: They can be manufactured in any size.
- The manual version also achieves centimetre-precise adjustment: The system is more cost effective than a hydraulic one and at the same time easy to adjust using a practical lever.
- Hydraulic version tested up to a working width of 9 metres



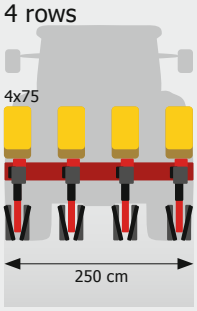
Precision planters: 4 - 6 rows

Precision planters: 4 - 6 rows

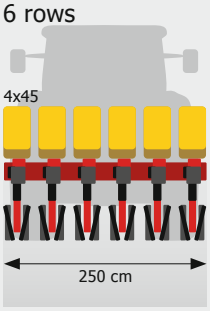
MS 8100, 8200

MS 8100

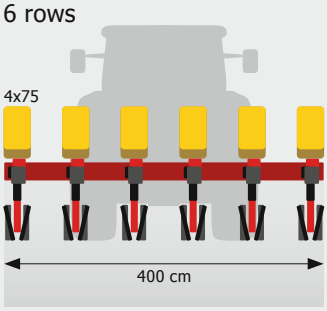
4 rows



6 rows

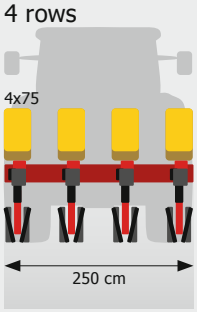


6 rows

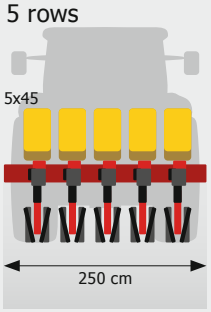


MS 8200

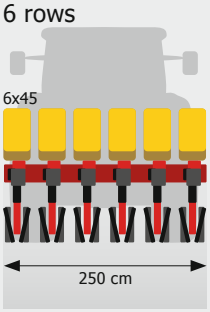
4 rows



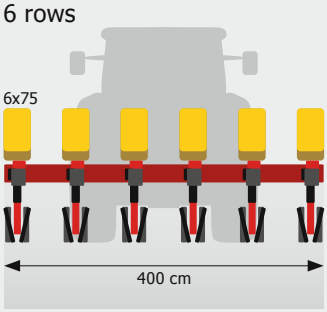
5 rows



6 rows



6 rows

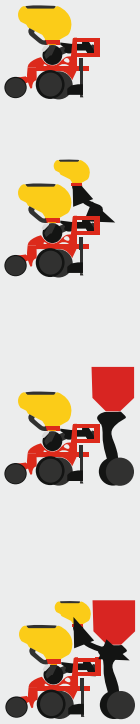


MS 8100

The MS 8100 precision planter is characterised by its simple configuration and requires no special settings. These machines are very compact, because the planter units are mounted directly on the tool bar and have a low overhang weight.

MS 8200

The MS 8200 implement-mounted precision planter has been designed to adjust the row spacing quickly and easily; this is made possible by the EASY-SET system, which is mounted on the rigid support frame. This system slides the planter units along a rail mounted parallel to the frame.
The distance between the planter units is set using the positioning lever, which is supplied as standard with the machine.



Hoppers

The capacity of the hoppers ranges from 330 litres (2x 165 litres) to 430 litres (2x 215 litres).

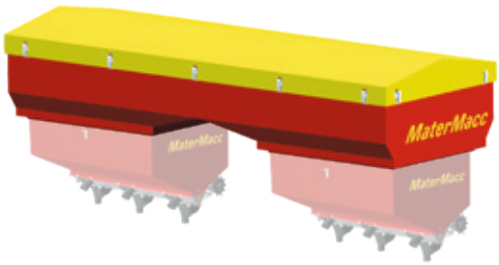
The standard version of the VARIOVOLUMEX hopper is made of stainless steel treated with cathodic dip coating and powder coating. The base of the hopper is implemented in stainless steel as standard for maximum corrosion resistance.

All MaterMacc hoppers have a grid inside the hopper to prevent foreign objects or clumps from entering the fertiliser metering unit. All hoppers have a central adjustment system with worm drive.

Hopper extensions are available as an option to increase the capacity by 415 litres or 430 litres, resulting in an effective capacity of 745 or 860 litres.
You can also order your machine with hoppers and attachments of the same capacity made entirely of stainless steel.

Tool bar 250 cm: Capacity 2 x 165 l,
optional: +415 l
Tool bar 400 cm: Capacity 2 x 215 l,
optional: +430 l

Optional:



Precision planters: 6 - 7 rows

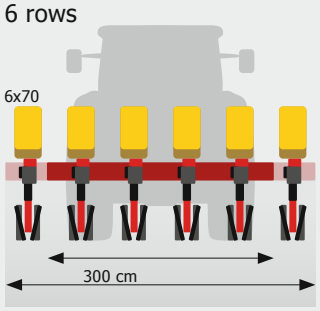

PO
1871 A
MaterMacc

Precision planters: 6 - 7 rows

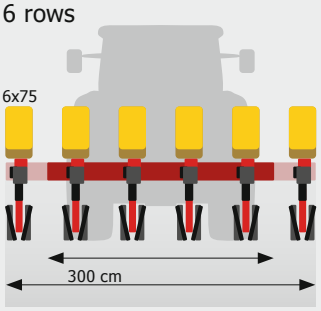
MS 8130, 8130 ELEKTRO

MS 8130

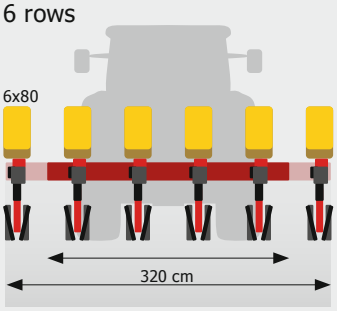
6 rows



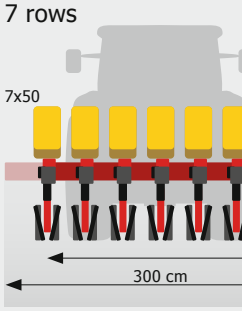
6 rows



6 rows

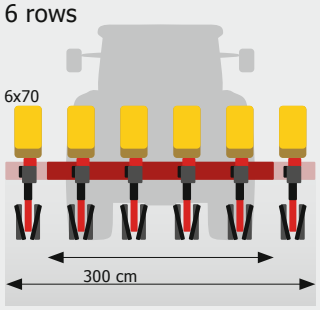


7 rows

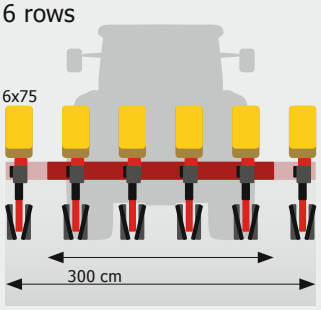


MS 8130 ELEKTRO

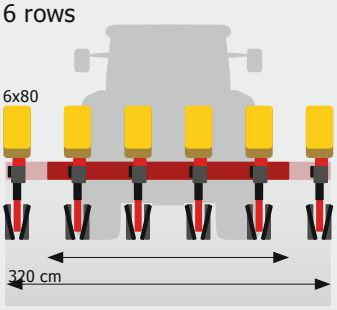
6 rows



6 rows



6 rows

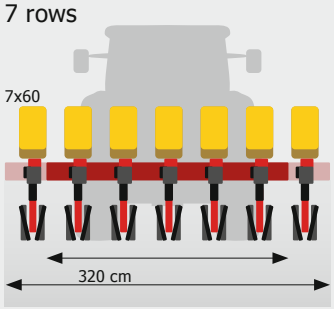


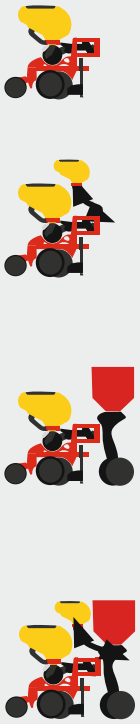
MS 8130

This MS 8130 precision planter with hydraulic telescopic tool bar allows the user to switch easily from the working position to the transport position. The planter is very compact and has a low overhang weight.

MS 8130 ELEKTRO

The hydraulic telescopic tool bar on the MS 8130 ELEKTRO precision planter makes it easy to change from the working position to the transport position. The planter is very compact and has a low overhang weight. The electric drive system ensures planting starts immediately after turning around at the headland, and cancels out slippage. Because the electric system does not use batteries, no specific maintenance is required.





Hoppers

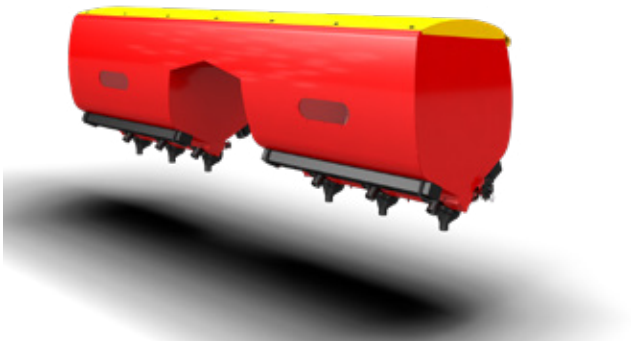
The capacity of the hopper is 1,185 litres.

The standard version of the VARIOVOLUMEX hopper is made of stainless steel treated with cathodic dip coating and powder coating. The base of the hopper is implemented in stainless steel as standard for maximum corrosion resistance.

All MaterMacc hoppers have a grid inside the hopper to prevent foreign objects or clumps from entering the fertiliser metering unit. All hoppers have a central adjustment system with worm drive.

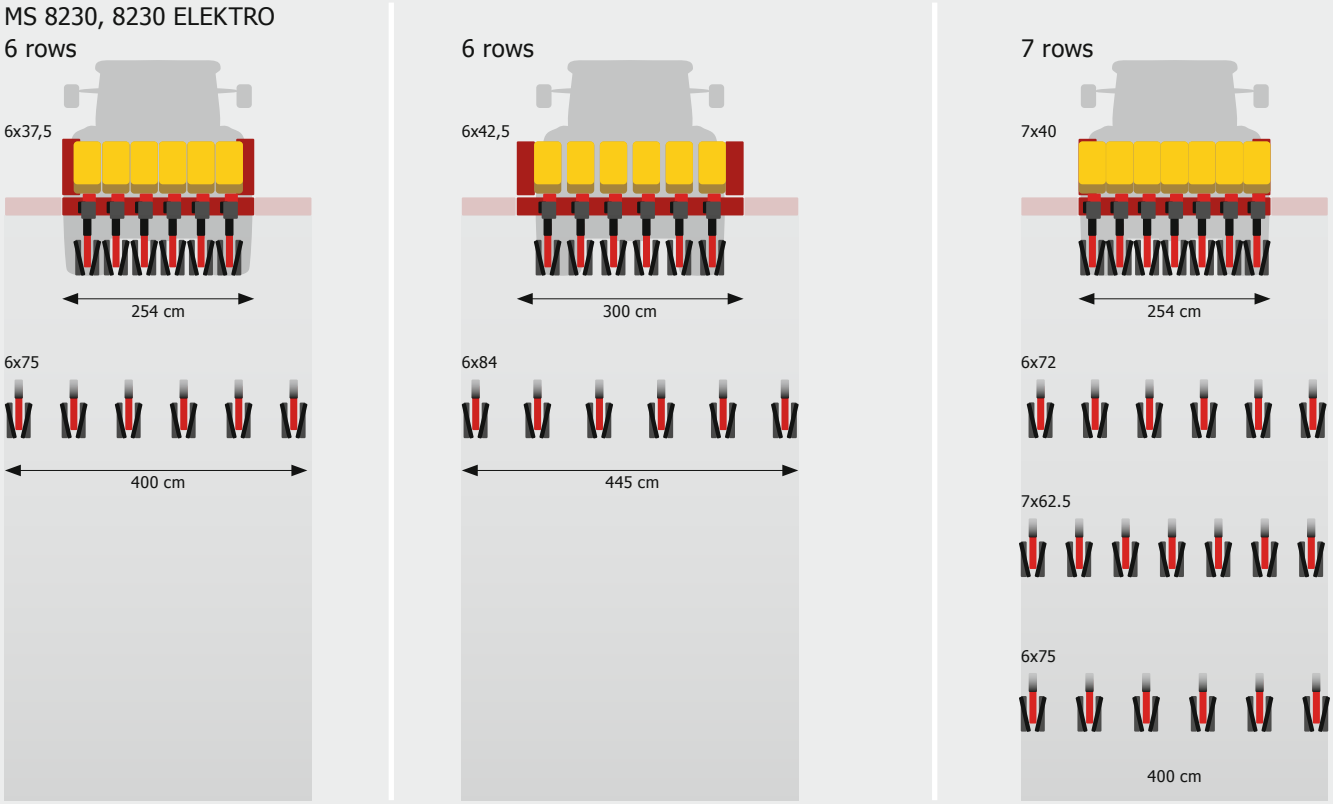
The fertiliser level can easily be checked through the inspection window.

Frame 300 - 320 cm: Capacity 1,185 l



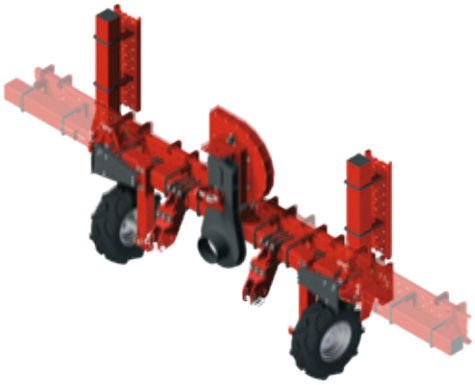
Precision planters: 6 - 7 rows

MS 8230, 8230 ELEKTRO



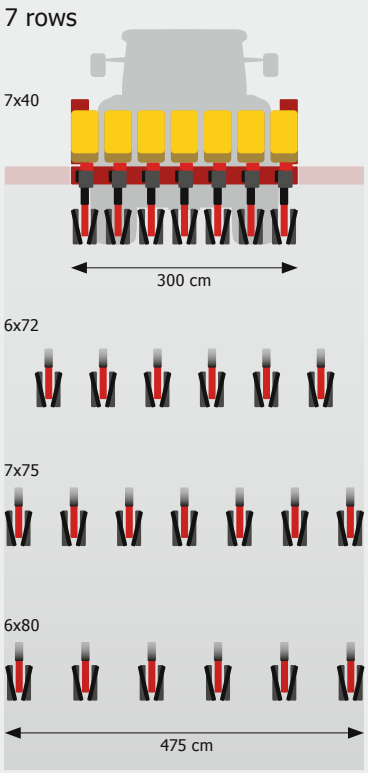
MS 8230

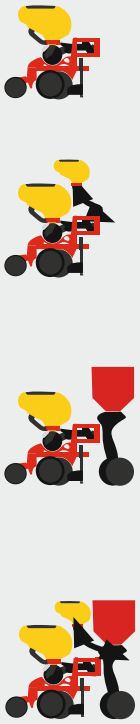
The MS 8230 precision planter is extremely versatile, and thanks to the EASY-SET hydraulic system and folding tool bar, the transport width can be reduced on planters with a working width of 6 metres.
This system, together with the interchangeable row spacers, allows the user to easily change the row spacing.



MS 8230 ELEKTRO

The MS 8230 ELEKTRO implement-mounted precision planter is also highly versatile. Thanks to the hydraulic control of the EASY-SET system and the folding tool bar, the transport width can be reduced, even on machines with working widths of 6 metres. The system of interchangeable row spacers allows the user to easily change the row spacing.
The electric drive system ensures planting starts immediately after turning around at the headland, and cancels out slippage. It also allows the automatic section control function to be used. Because there is no battery, no specific maintenance is required.





Hoppers

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All MaterMacc hoppers have a grid inside the hopper to prevent foreign objects or clumps from entering the fertiliser metering unit. All hoppers have a central adjustment system with worm drive.

Hopper extensions are available as an option to increase the capacity by 415 litres or by 345 litres, resulting in an effective capacity of 745 or 775 litres.

You can also order your machine with hoppers and attachments of the same capacity made entirely of stainless steel.

Tool bar 250 cm: Capacity 2x 165 l,
optional: +415 l
Tool bar 300 cm: Capacity 2x215 l,
optional: +345 l

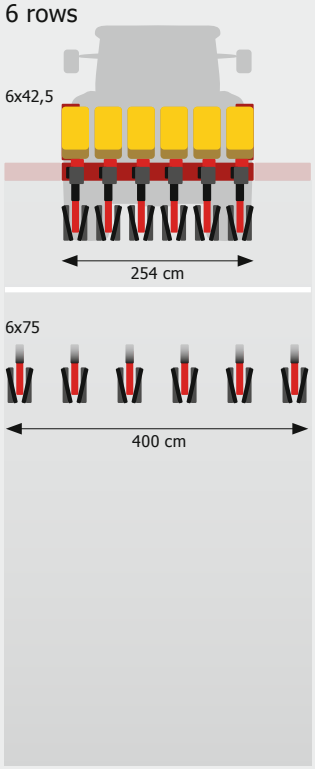
Precision planters: 6 - 12 rows

Precision planters: 6 - 12 rows

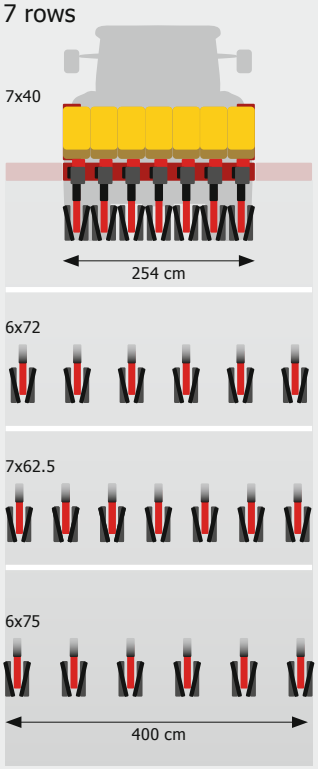
MS 8230 MIDI, MS 8230 MIDI ELEKTRO

MS 8230 MIDI, MS 8230 MIDI ELEKTRO

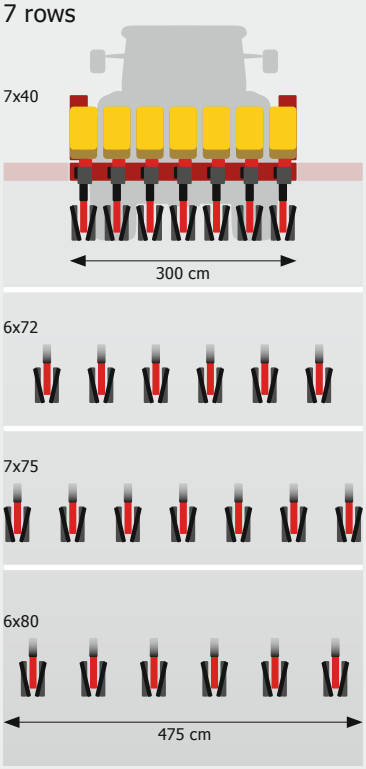
6 rows



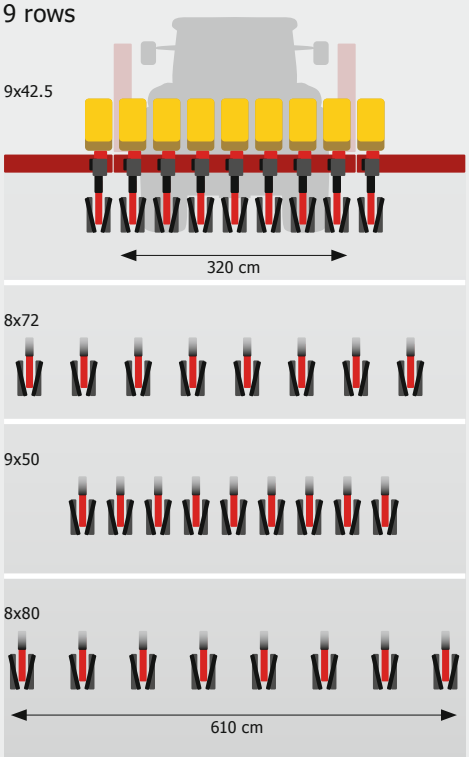
7 rows



7 rows



9 rows



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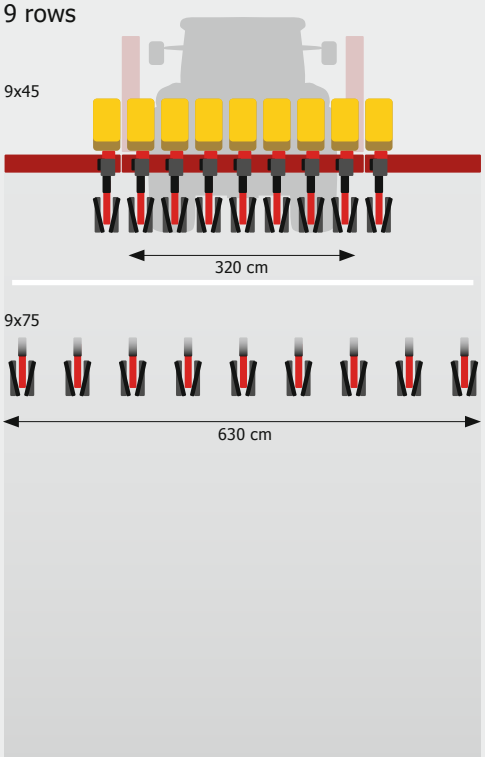
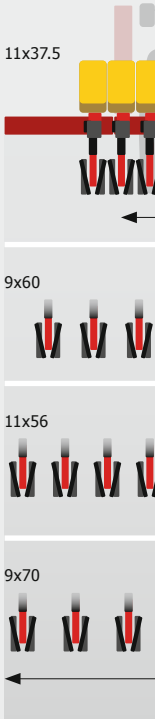
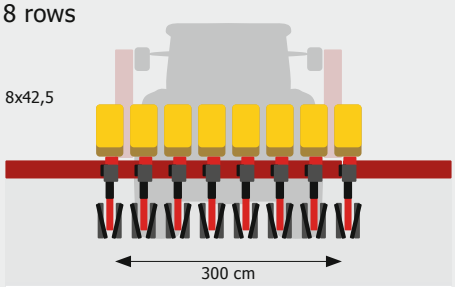


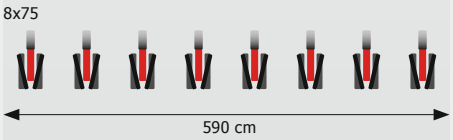
11 rows

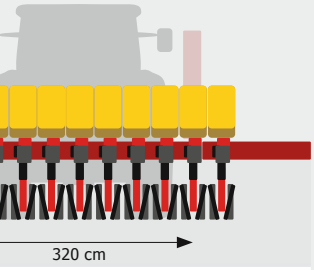


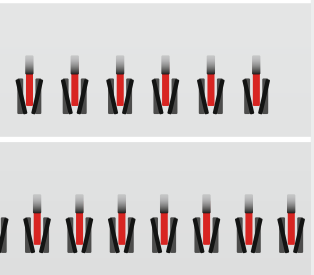
MS 8000

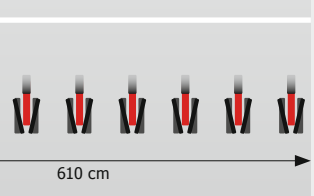
8 rows



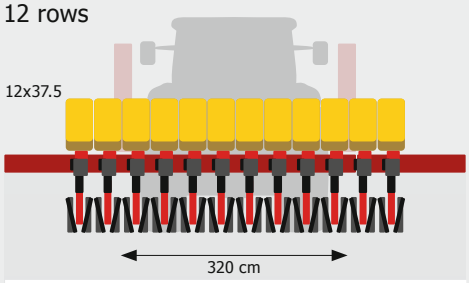


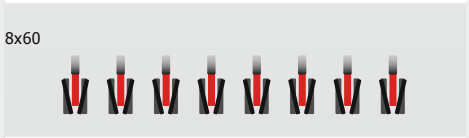


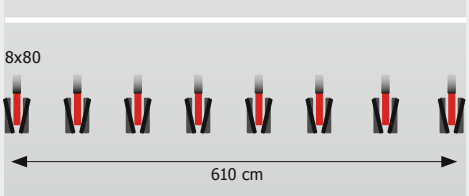


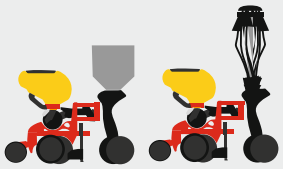


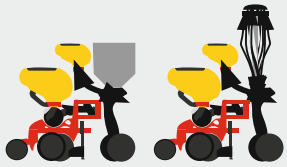
12 rows











Precision planters: 6 - 12 rows

MS 8230 MIDI, MS 8230 MIDI ELEKTRO

The MIDI hopper features two volumetric metering units that deliver the fertiliser granules to each row by means of a pneumatic system. The MIDI hopper has a capacity of 1,000 litres for machines up to 2.54 metres wide and 1,280 litres for machines from 3 to 3.2 metres wide. It is available for 6- to 12-row machines, including convertible models such as the MS 8230.
For rapid adjustment, the amount of fertiliser to be distributed is controlled by a gearbox with gears running in semi-liquid grease.

MS 8230 MIDI

The MS 8230 MIDI is an MS 8230 precision planter equipped with a MIDI hopper. In addition, there is a fertiliser hopper with a capacity of over 1,200 litres, central control of the distributed quantities and a pneumatic conveying system on all rows that can operate at any row spacing.

MS 8230 MIDI ELEKTRO

The MIDI series of MS 8230 precision planters is equipped with a stainless steel fertiliser hopper with a capacity of 1,200 litres suitable for auger loading, central control of the distributed quantities, a pneumatic conveying system on all rows that can operate at any row spacing, and the EASY-SET system for changing the row spacing.
The electric drive system ensures planting starts immediately after turning around at the headland, and cancels out slippage. Section control can be used and the seed rate can be changed using the data provided by the GPS system. Because the electric system does not use batteries, no specific maintenance is required.

Capacity of the hopper

Tool bar 254 cm:
Capacity 1,000 l
Tool bar 300 cm:
Capacity 1,280 l
Tool bar 320 cm:
Capacity 1,280 l

Configuration with fertiliser in the seed slot

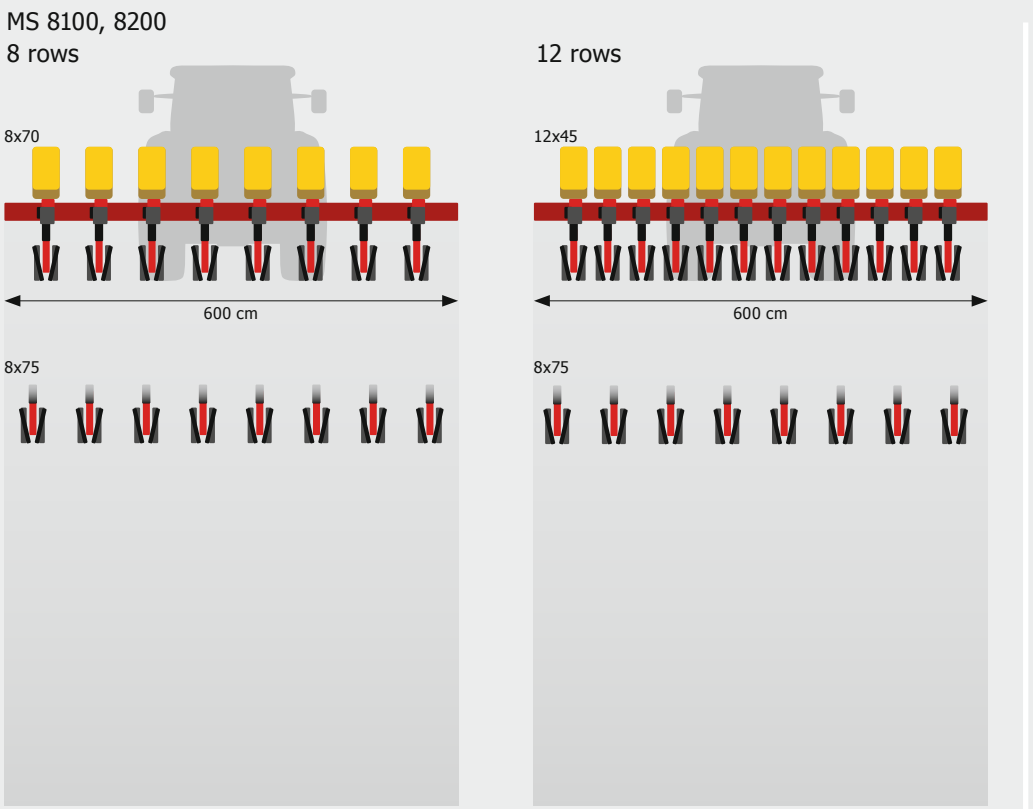
A version that deposits fertiliser directly into the seed slot is available as an option. This is particularly useful for starter fertilisers.

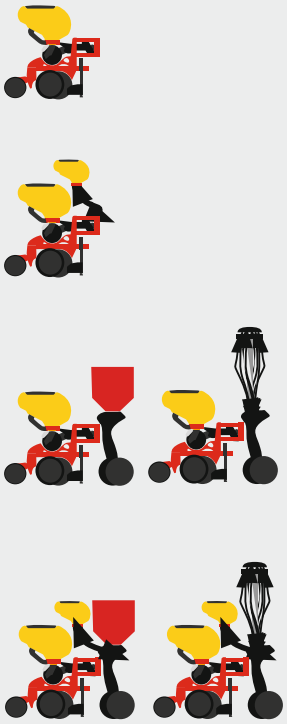
Precision planters: 8 - 12 rows


MaterMacc
SVA ELEKTRO
MaterMacc

Precision planters: 8 - 12 rows

MS 8100, 8200, 8100 SUPER





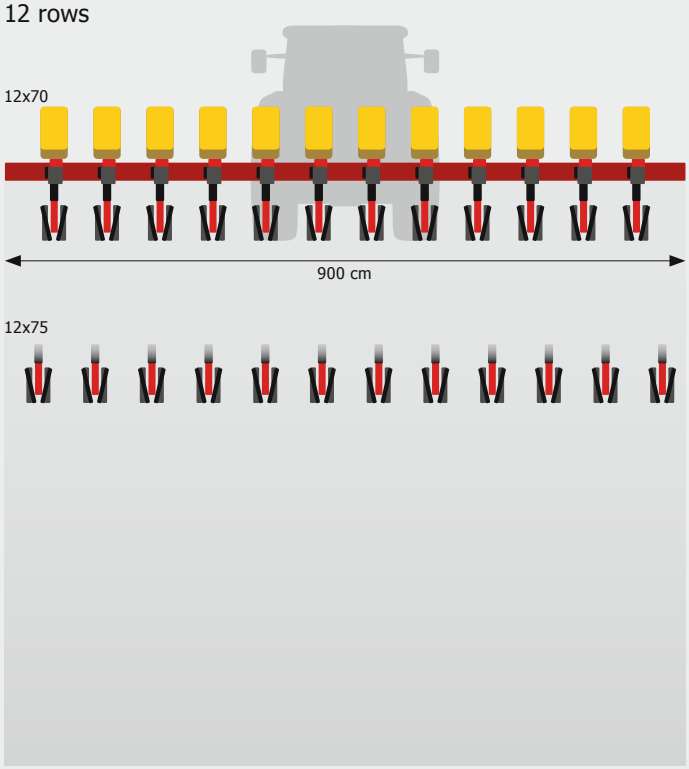
MS 8100

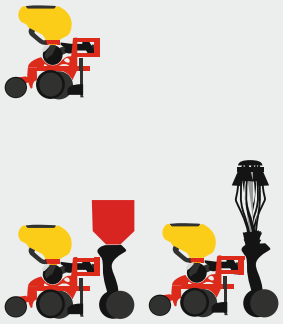
The MS 8100 implement-mounted precision planter is characterised by its simple configuration and requires no special settings.
These machines are very compact, because the planter units are mounted directly on the rigid tool bar and have a low overhang weight.

MS 8200

The MS 8200 precision planter has been designed to adjust the row spacing quickly and easily; this is made possible by the EASY-SET system, which is mounted on the rigid support frame. This system slides the planter units along a rail mounted parallel to the frame.
The planter is supplied with a positioning lever to facilitate these movements.

MS 8100 SUPER
12 rows





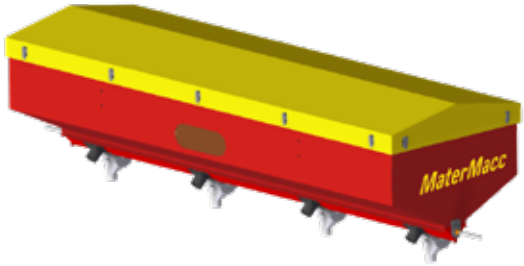
MS 8100 SUPER

The MS 8100 SUPER precision planter is characterised by a rigid double tool bar that ensures robustness and reduced weight. This version is suitable for prepared seedbeds and planting in soils with min-till conditions. Despite its dimensions (approx. 9 m working width), it can be used with medium power tractors and is available in a 12-row version. The transport chassis reduces the transport width to 3.30 m and can be removed to take the weight off the planter during operation.

Hoppers

Tool bar 600 cm: Capacity 4x215 l, optional: 2x700 l
Tool bar 900 cm: Capacity 6x215 l, optional: 2x930 l

Optional:

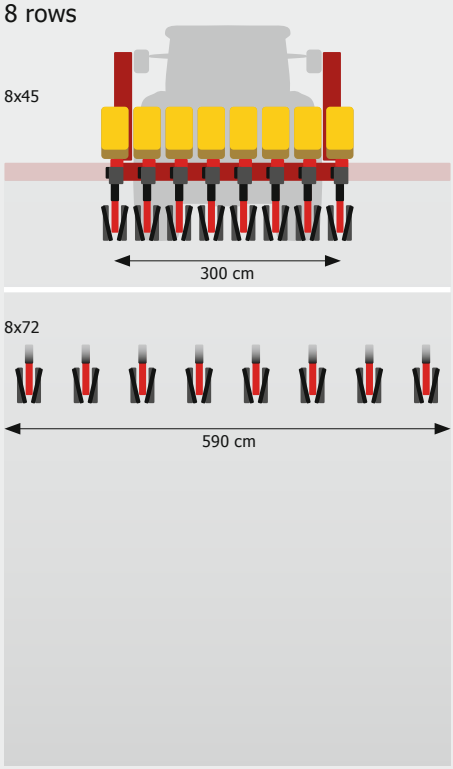


Precision planters: 8 - 12 rows

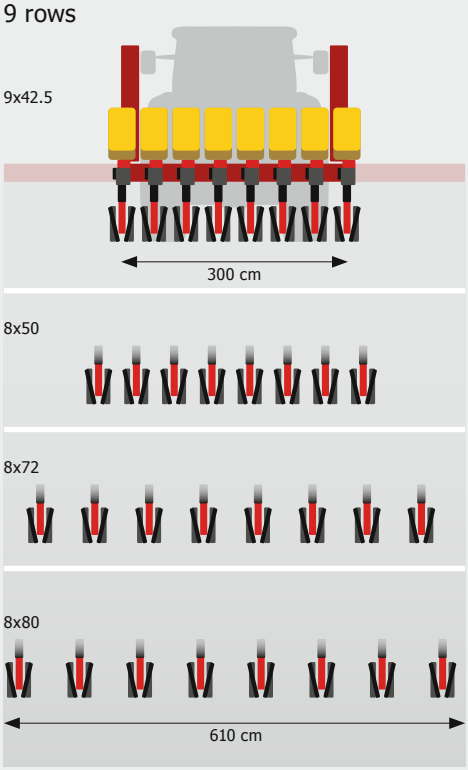
MS 8230, 8230 ELEKTRO, 8230 SUPER ELEKTRO

MS 8230

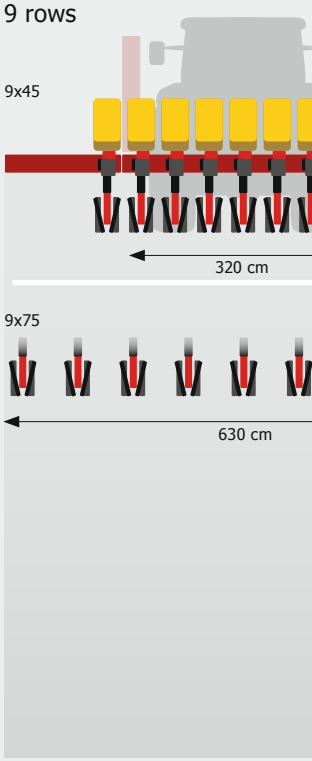
8 rows



9 rows

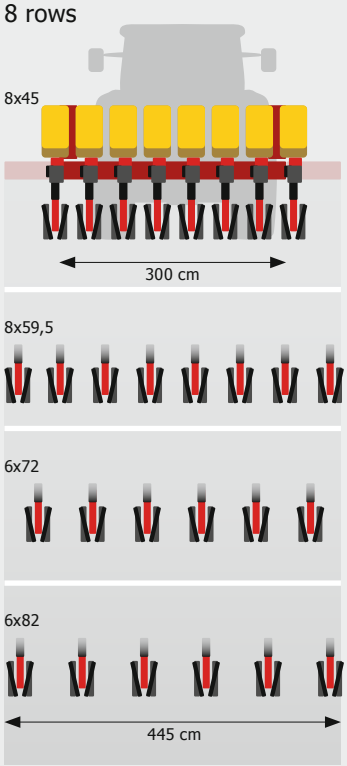


9 rows



MS 8230 ELEKTRO

8 rows



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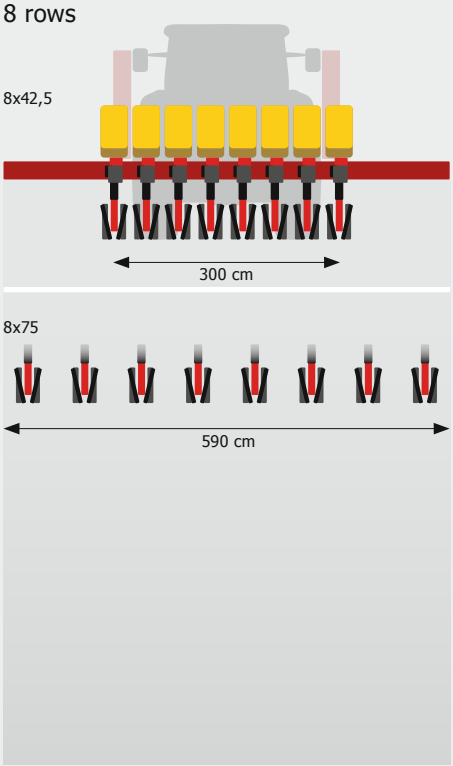
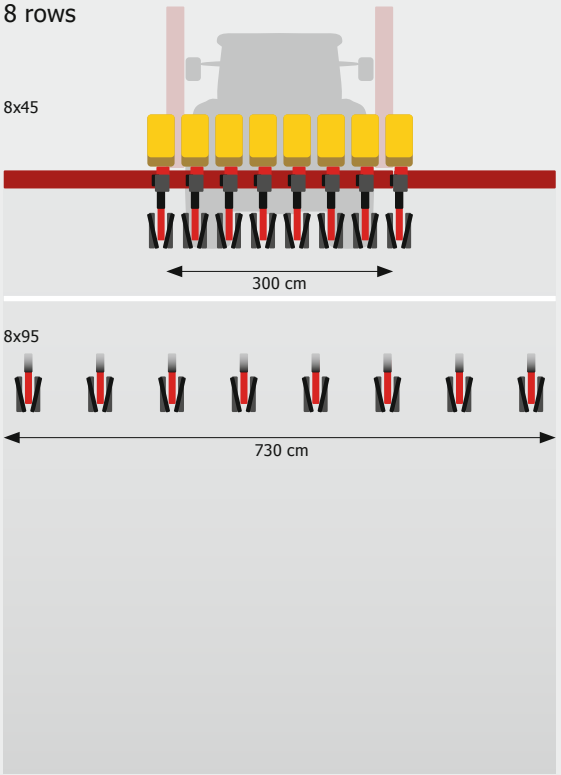
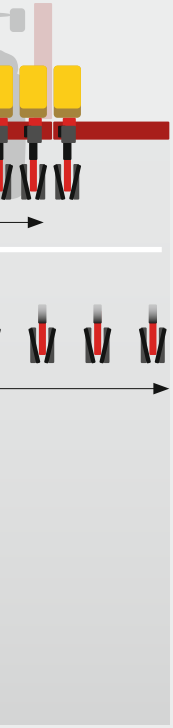
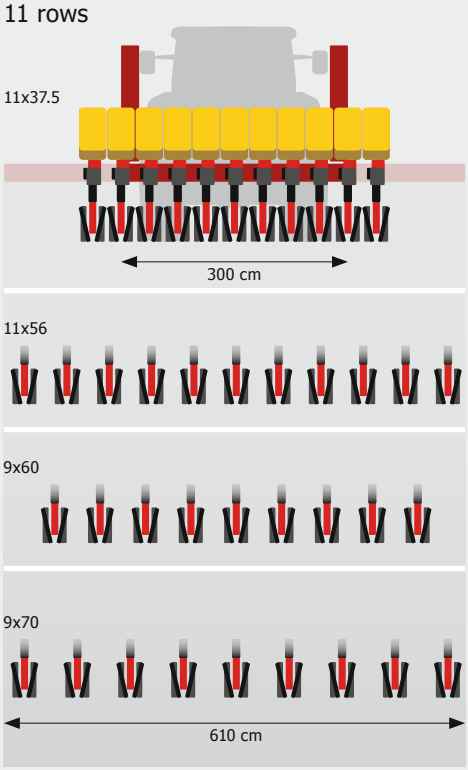


8 rows

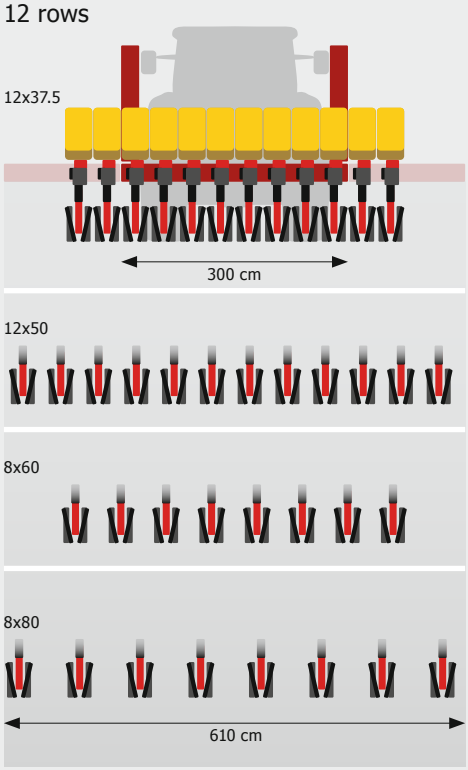




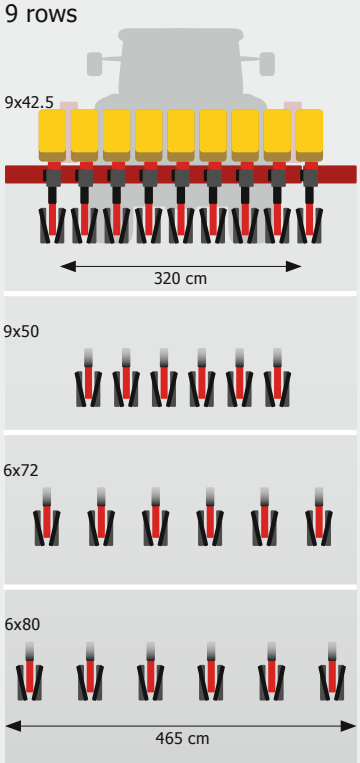
11 rows



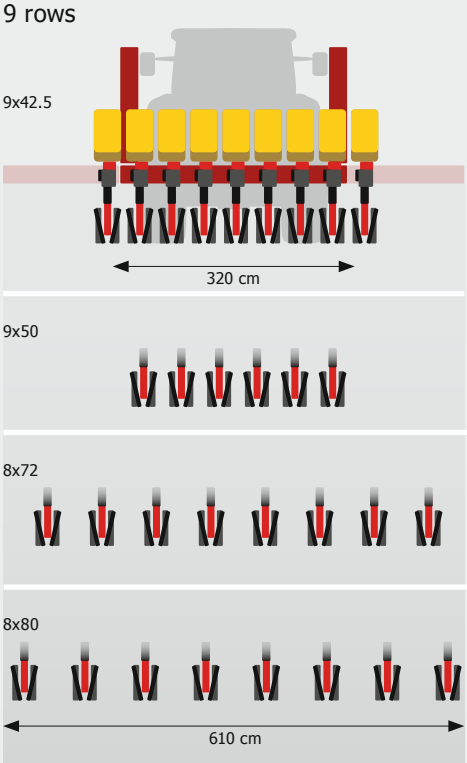
12 rows



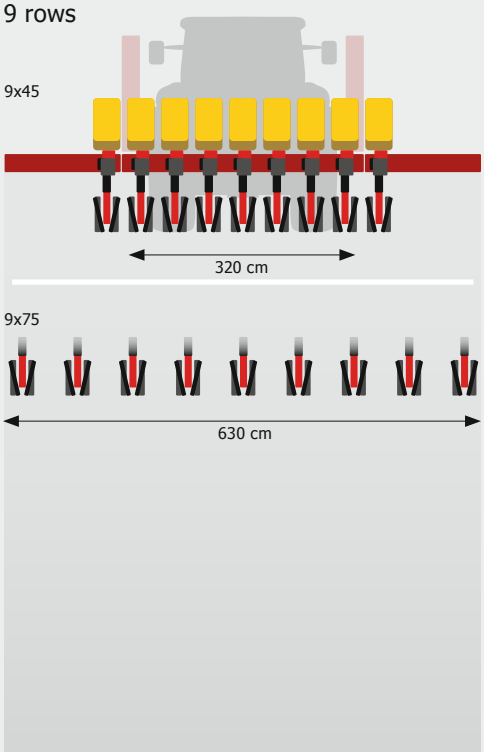
9 rows



9 rows



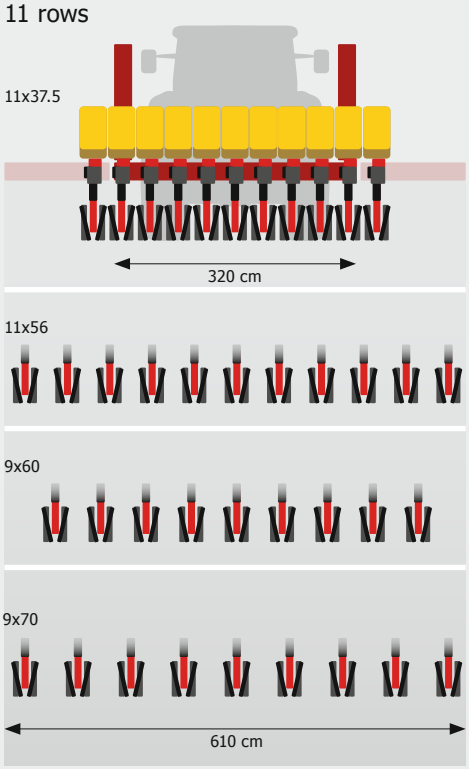
9 rows



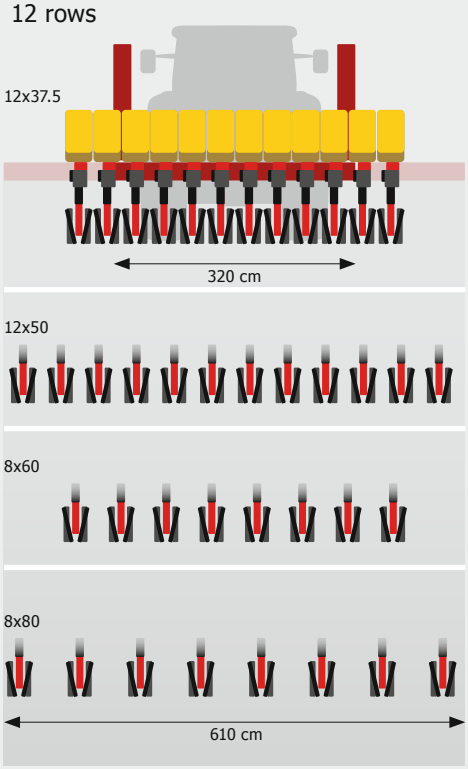
Precision planters: 8 - 12 rows

MS 8230, 8230 ELEKTRO, 8230 SUPER ELEKTRO

MS 8230 ELEKTRO
11 rows



12 rows

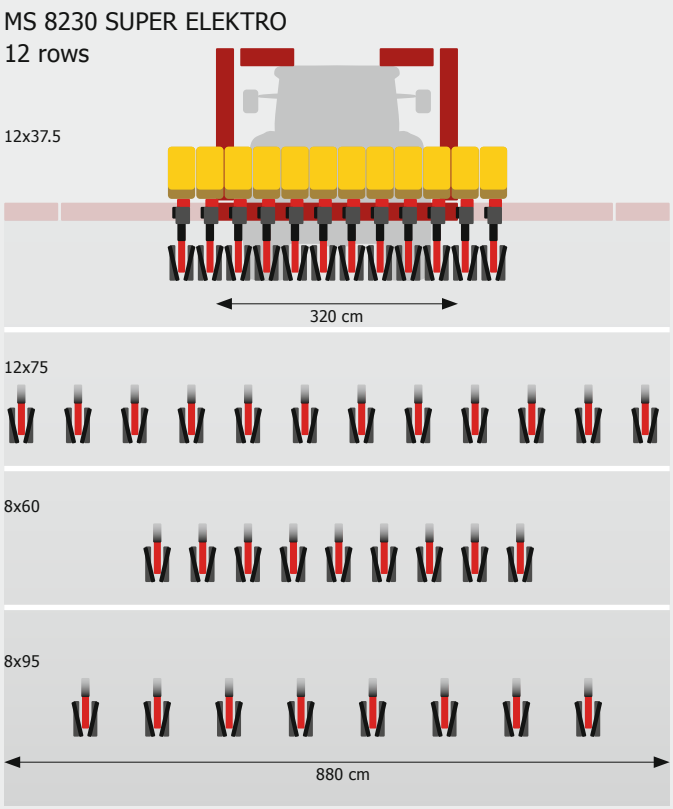


MS 8230

The MS 8230 precision planter is extremely versatile, and thanks to the EASY-SET hydraulic system and folding tool bar, the transport width can be reduced on planters with a working width of 6 metres.
This system, together with the interchangeable row spacers, allows the user to easily change the row spacing.

MS 8230 ELEKTRO

The MS 8230 ELEKTRO is a highly versatile implement-mounted precision planter. Thanks to the hydraulic control of the EASY-SET system and the folding tool bar, the transport width can be reduced, even on machines with working widths of 6 metres. The system of interchangeable row spacers allows the user to easily change the row spacing.
The electric drive system ensures planting starts immediately after turning around at the headland, and it reduces the effects of slippage. It also allows the automatic section control function to be used. Because there is no battery, no specific maintenance is required.



MS 8230 SUPER ELEKTRO

MS 8230 SUPER ELEKTRO precision planter with variable hydraulic row spacing adjustment and working widths of up to 9 metres. This planter features an electric drive system that ensures immediate planting and cancels out slippage. The system is autonomous and works with capacitors instead of batteries, so requires no routine maintenance.

Spreading fertiliser

These configurations of precision planter can be equipped with an SVA ELEKTRO front hopper for spreading fertiliser. The machine is supplied as standard with a side unit consisting of 4 lines for conveying the fertiliser using compressed air. The lines are attached to the right-hand side of the tractor so as not to obstruct access to the tractor cab.

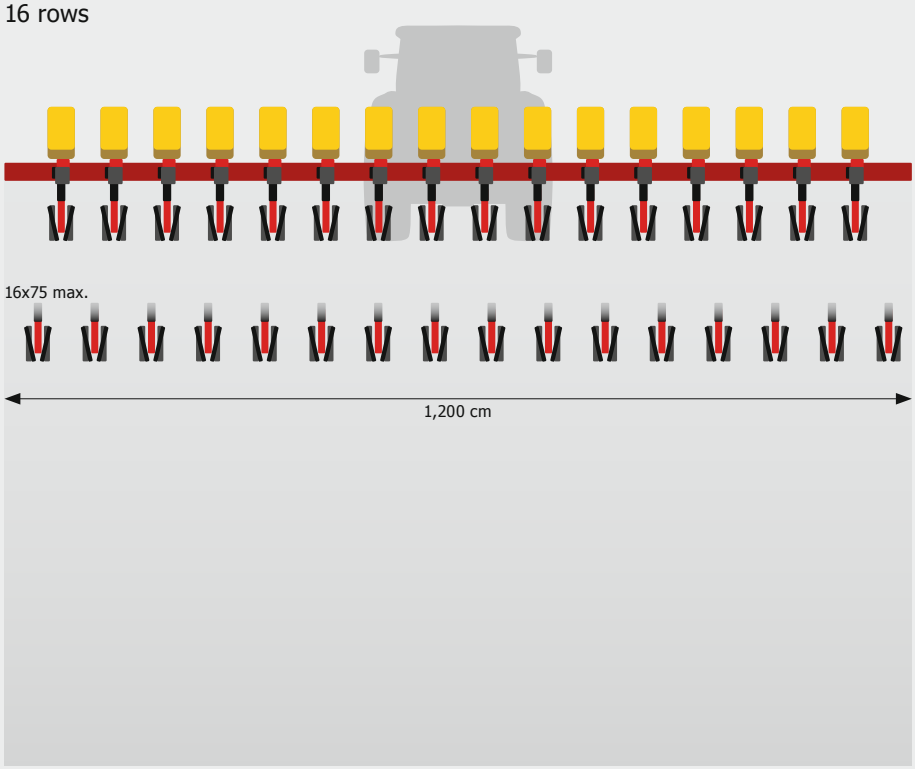
Precision planters: 16 rows

MS 8100 SUPER L

Precision planters: 16 rows

MS 8100 SUPER L

MS 8100 SUPER L
16 rows



MS 8100 SUPER L

The MS 8100 SUPER L precision planter is characterised by a rigid triple tool bar that ensures robustness and reduced weight. This version is suitable for planting the main crops on prepared seedbeds or soils with mulch sowing conditions with a maximum working width of 12 metres. The transport chassis can be driven on the road with a maximum transport width of 3.40 metres.

Hoppers

The hopper is made of stainless steel treated with cathodic dip coating and powder coating. The base of the hopper is implemented in stainless steel as standard for maximum corrosion resistance.

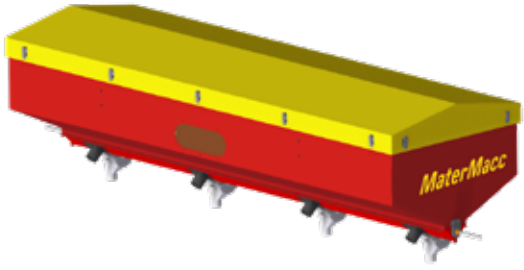
All MaterMacc hoppers have a grid inside the hopper to prevent foreign objects or clumps from entering the fertiliser metering unit and a central adjustment system with worm drive

The fertiliser level can easily be checked through the inspection window.

For machines with fertiliser: The hopper is made of painted sheet metal, the distributor base is made of stainless steel, includes volumetric metering unit with central adjustment and double disc coulter.

Tool bar 1,200 cm: 4x600 l

Optional:



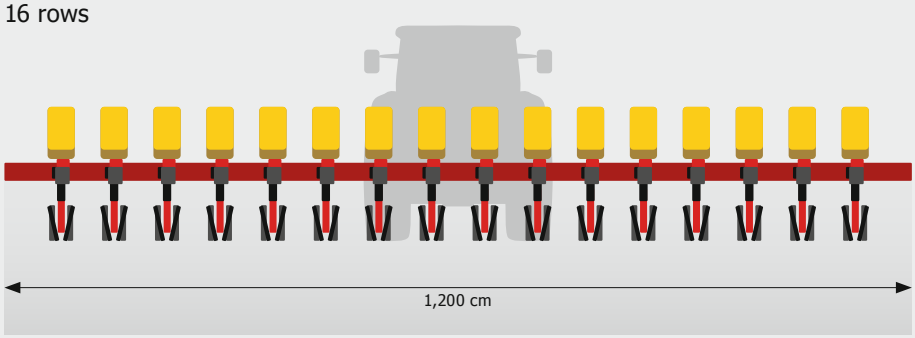
Precision planters: 16 - 36 rows

3XL 800

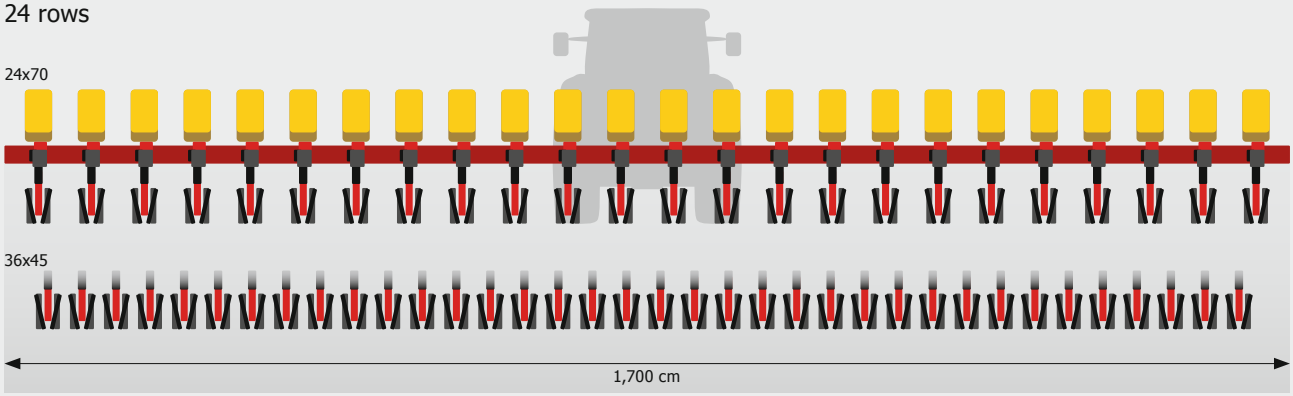
Precision planters: 16 - 36 rows

3XL 800

3XL 800
16 rows



24 rows



3XL 800

The 3XL 800 precision planter is designed for planting main crops on a prepared seedbed. The main chassis is equipped with wide support and transport wheels and a moveable tool bar into which the planter units are hooked. The main chassis has two drawbars, one for road transport and one for the operating position. Thanks to its narrow road transport width of 3.75 metres (3.90 metres with EASY-SET), it can be easily moved from one field to the next.

Hoppers

The hopper is made of stainless steel treated with cathodic dip coating and powder coating. The base of the hopper is implemented in stainless steel as standard for maximum corrosion resistance. For rapid adjustment, the amount of fertiliser to be distributed is controlled by a gearbox with gears running in semi-liquid grease.

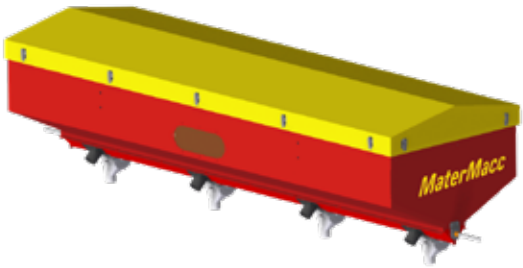
All MaterMacc hoppers have a grid inside the hopper to prevent foreign objects or clumps from entering the fertiliser metering unit.

The fertiliser level can easily be checked through the inspection window.

For machines with fertiliser: The hopper is made of painted sheet metal, the distributor base and agitator are made of stainless steel, includes volumetric metering unit, flow control by continuous regulator and adjustable double disc coulter.

Tool bar 1,200 cm: 4x930 l
Tool bar 1,700 cm: 4x1.410 l

Optional:

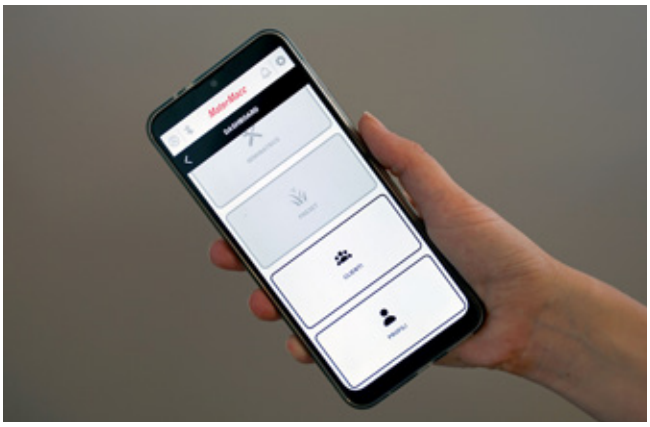


Digital farming

MiPlus

Customised electronic systems

MiPlus is the pioneer in a new concept of tool control systems. The main idea was to create a control system that does not require bulky and often difficult-to-handle cables in the tractor cab. The heart of the MiPlus system is located in a control unit that transmits information and the graphic interface wirelessly. Any tablet, regardless of whether iOS or Android, can connect to the control unit. No connection cable is required.



Planting quality is controlled according to a seed sowing protocol that is specified in detail in standard ISO 7256-1. The reason why a shared protocol is used for precision control relates to the development of new tools that move from the conventional speeds of 7-8 kph to 12 kph (EVO units) and higher. It is important that the quality of planting precision in relation to speed is controlled using standardised parameters that can be recorded by everyone.
Using the same tablet in the tractor cab, a wireless connection is established with the machine.

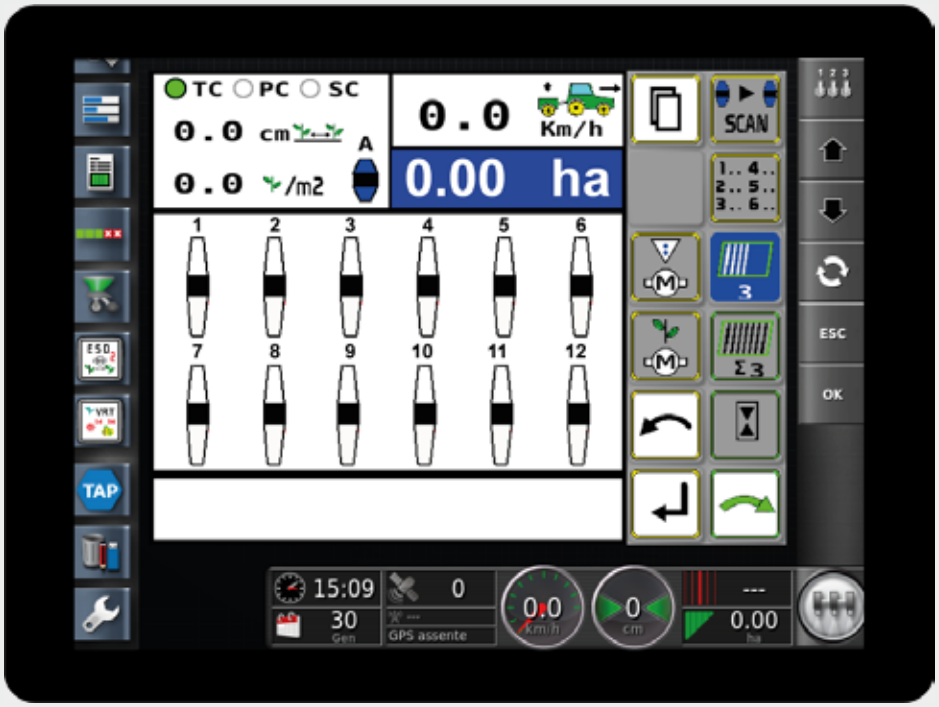
Features

- System for controlling sowing quality in accordance with ISO 7256-1
- Manual switching of planter units up to 60 rows
- Hectare counters and hour counters - total and job counters
- Working speed and real-time data for productivity and seed rate
- Average seed spacing and average sowing density overall, or for individual rows
- Vacuum value and fan status
- Customer management (statistics)
- Save frequent customised settings
- Cloud services and fleet management (subscription required)

The following QR code takes you directly to the MiPlus app

Digital farming

ISOBUS & control terminals



ISOBUS system

All ELEKTRO versions are ISOBUS compatible.

The structure of the work menu shown on the display is contained in the control unit, so it always looks that same regardless of whether you use the tractor control terminal or your tablet.

From any terminal or device it is possible to switch from the tractor control unit to the machine control unit and view and control its various functions such as: planting, and distributing fertiliser and/or micro-granules.

The planter receives the most important signals for the seed flow from a light barrier attached to the seed drop tube (this applies to all electronic systems supplied). The signal from this system can be amplified with an even more powerful second light barrier if you are working with small seeds such as oil seed rape.

Control terminals

A MaterMacc control terminal can be used if the tractor is not ISOBUS-capable or does not have a suitable terminal. The X25 and X35 control terminals, for example, provide a GPS antenna to manage the maps during the planting phase and activities such as automatic row exclusion and variable metering.
Where centimetre precision is required, the RTK automatic steering system is the obvious choice, because it is impossible to match such steering precision by hand. The alternative is to connect to a tractor GPS that offers the same level of precision.

XD

7” touchscreen

Supplied without antenna. Speed signal from wheel sensor, unless specified otherwise.

X25

8.4'' touchscreen

Complete mapping capability and data management.
Multi-touch screen with interchangeable information windows that is bright enough to be legible in direct sunlight.
Easy installation in the most common tractors on the market for manual steering and automatic steering mode.
Able to export boundary maps, coverage, recording of work done.
UT ISO and TC ISO fully integrated

ISOBUS with function TC-SC (Section Control), TC-BAS.
GPS SGR-1 receiver, supplied (accuracy: 20 cm).

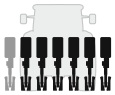
X35

12.1'' touchscreen

Same functions as the X25.
Also equipped with:
Horizon XTEND: Displays on all mobile devices.
Variable Rate Control (VRC) for up to 8 products.
GNSS standard when connected to the SGR-1/AGI-4 receivers.
Automatic section control (ASC) for a maximum of 200 sections.
ISOBUS with the following functions: UT, TC-BAS, TC-GEO and TC-SC.
Option to connect up to 6 cameras.
GPS SGR-1 receiver, supplied (accuracy: 20 cm).
RTK antenna (centimetre accuracy) as standard, if supported by the tractor.

Technical data

Precision planters 4 - 6 rows	Number of rows	Row spacing	Transport width/ working width	Power requirement	Net weight	Weight with fertiliser tank and double-disc coulter
MS 8100	4	75 cm	250 cm / 250 cm	40 hp	580 kg	825 kg
MS 8100	6	45 cm	250 cm / 250 cm	60 hp	760 kg	1,055 kg
MS 8100	6	75 cm	400 cm / 400 cm	70 hp	790 kg	1,105 kg
MS 8200	4	75 cm	250 cm / 250 cm	40 hp	660 kg	910 kg
MS 8200	5	45 cm	250 cm / 250 cm	50 hp	740 kg	990 kg
MS 8200	6	45 cm	250 cm / 250 cm	60 hp	810 kg	1,060 kg
MS 8200	6	75 cm	400 cm / 400 cm	70 hp	850 kg	1,100 kg

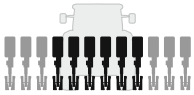


Precision planters 6 - 7 rows	Number of rows	Row spacing	Transport width /working width	Power requirement	Net weight	Weight with fertiliser tank and double-disc coulter
MS 8130	6	70 cm	300 cm / 410 cm	90 hp	1,320 kg	1,570 kg
MS 8130	6	75 cm	300 cm / 410 cm	90 hp	1,320 kg	1,650 kg
MS 8130	6	80 cm	320 cm / 430 cm	90 hp	1,320 kg	1,670 kg
MS 8130	7	50 cm	300 cm / 410 cm	100 hp	1,420 kg	1,690 kg
MS 8130	7	60 cm	320 cm / 430 cm	100 hp	1,420 kg	1,710 kg
MS 8130 ELEKTRO	6	70 cm	300 cm / 410 cm	80 hp	920 kg	1230 kg
MS 8130 ELEKTRO	6	75 cm	300 cm / 410 cm	80 hp	920 kg	1230 kg
MS 8130 ELEKTRO	6	80 cm	320 cm / 430 cm	80 hp	950 kg	1260 kg
MS 8230	6	6x37.5 cm - 6x75 cm	254 cm / 400 cm	70 hp	1040 kg	1285 kg
MS 8230	6	6x42.5 cm - 6x84 cm	300 cm / 445 cm	70 hp	1,100 kg	1,345 kg
MS 8230	7	7x40/62.5 cm – 6x72/75 cm	254 cm / 400 cm	80 hp	1,140 kg	1,420 kg
MS 8230	7	7x40/75 cm – 6x72/80 cm	300 cm / 475 cm	80 hp	1,190 kg	1470 kg
MS 8230 ELEKTRO	6	6x42.5 cm - 6x75 cm	254 cm / 400 cm	70 hp	1010 kg	-
MS 8230 ELEKTRO	6	6x42.5 cm - 6x84 cm	300 cm / 445 cm	70 hp	1,070 kg	-
MS 8230 ELEKTRO	7	7x40/62.5 cm – 6x72/75 cm	254 cm / 400 cm	80 hp	1,110 kg	-
MS 8230 ELEKTRO	7	7x40/75 cm – 6x72/90 cm	300 cm / 475 cm	80 hp	1160 kg	-

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
700 kg	875 kg	4x50 l	2x165 l	2x25 l
820 kg	1115 kg	6x50 l	2x165 l	3x25 l
850 kg	1,165 kg	6x50 l	2x215 l	3x25 l
710 kg	960 kg	4x50 l	2x165 l	2x25 l
790 kg	1040 kg	5x50 l	2x165 l	3x25 l
870 kg	1115 kg	6x50 l	2x165 l	3x25 l
910 kg	1,155 kg	6x50 l	2x215 l	3x25 l

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
1,360 kg	1,650 kg	6x50 l	1x1.185 l	3x25 l
1,420 kg	1,740 kg	6x50 l	1x1.185 l	3x25 l
1,430 kg	1,750 kg	6x50 l	1x1.185 l	3x25 l
1,520 kg	1,780 kg	7x50 l	1x1.185 l	4x25 l
1,520 kg	1,790 kg	7x50 l	1x1.185 l	4x25 l
980 kg	1290 kg	6x50 l	1x1.185 l	3x25 l
980 kg	1290 kg	6x50 l	1x1.185 l	3x25 l
1010 kg	1,320 kg	6x50 l	1x1.185 l	3x25 l
1,100 kg	1,355 kg	6x50 l	2x165 l	3x25 l
1,170 kg	1,415 kg	6x50 l	2x215 l	3x25 l
1,220 kg	1,500 kg	7x50 l	2x165 l	4x25 l
1,270 kg	1,740 kg	7x50 l	2x215 l	4x25 l
1,070 kg	-	6x50 l	-	3x25 l
1,140 kg	-	6x50 l	-	3x25 l
1,190 kg	-	7x50 l	-	4x25 l
1,240 kg	-	7x50 l	-	4x25 l

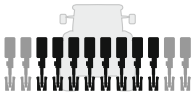
Technical data



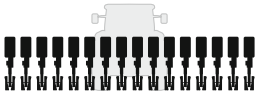
Precision planters 6 - 12 rows	Number of rows	Row spacing	Transport width/ working width	Power requirement	Weight with fertiliser tank and double-disc coulter
MS 8230 MIDI	6	6x42.5 cm - 6x75 cm	254 cm / 400 cm	90 hp	1,570 kg
MS 8230 MIDI	7	7x40/62.5 cm – 6x72/75 cm	254 cm / 400 cm	100 hp	1,690 kg
MS 8230 MIDI	7	7x40/75 - 6x72/80 cm	300 cm / 475 cm	100 hp	1,710 kg
MS 8230 MIDI	8	8x42.5 cm - 8x75 cm	300 cm / 590 cm	120 hp	1,850 kg
MS 8230 MIDI	9	9x42.5/50 cm - 8x72/80 cm	320 cm / 610 cm	120 hp	1,970 kg
MS 8230 MIDI	9	9x45 cm - 9x75 cm	320 cm / 630 cm	120 hp	1990 kg
MS 8230 MIDI	11	11x37.5/56 cm – 9x60/70 cm	320 cm / 610 cm	120 hp	2190 kg
MS 8230 MIDI	12	12x37.5/50 cm – 8x60/80 cm	320 cm / 610 cm	120 hp	2,250 kg
MS 8230 MIDI ELEKTRO	6	6x42.5 cm - 6x75 cm	254 cm / 400 cm	90 hp	1,570 kg
MS 8230 MIDI ELEKTRO	7	7x40/62.5 cm – 6x72/75 cm	254 cm / 400 cm	100 hp	1,690 kg
MS 8230 MIDI ELEKTRO	7	7x40/75 - 6x72/90 cm	300 cm / 475 cm	100 hp	1,710 kg
MS 8230 MIDI ELEKTRO	8	8x42.5 cm - 8x75 cm	300 cm / 590 cm	120 hp	1,850 kg
MS 8230 MIDI ELEKTRO	8	8x45 cm - 8x95 cm	300 cm / 730 cm	120 hp	1,850 kg
MS 8230 MIDI ELEKTRO	9	9x42.5/50 cm - 8x72/80 cm	320 cm / 610 cm	120 hp	1,970 kg
MS 8230 MIDI ELEKTRO	9	9x45 cm - 9x75 cm	320 cm / 630 cm	120 hp	1990 kg
MS 8230 MIDI ELEKTRO	11	11x37.5/56 cm – 9x60/70 cm	320 cm / 610 cm	120 hp	2,100 kg
MS 8230 MIDI ELEKTRO	12	12x37.5/50 cm – 8x60/80 cm	320 cm / 610 cm	120 hp	2,220 kg

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
-	1600 kg	6x50 l	1x1.000 l	3x25 l
-	1,770 kg	7x50 l	1x1.000 l	4x25 l
-	1,790 kg	7x50 l	1x1.280 l	4x25 l
-	1,930 kg	8x50 l	1x1.280 l	4x25 l
-	2,090 kg	9x50 l	1x1.280 l	5x25 l
-	-	9x50 l	1x1.280 l	-
-	2,380 kg	11x50 l	1x1.280 l	6x25 l
-	2,470 kg	12x50 l	1x1.280 l	6x25 l
-	1600 kg	6x50 l	1x1.000 l	3x25 l
-	1,770 kg	7x50 l	1x1.000 l	4x25 l
-	1,790 kg	7x50 l	1x1.280 l	4x25 l
-	1,930 kg	8x50 l	1x1.280 l	4x25 l
-	1,930 kg	8x50 l	1x1.280 l	4x25 l
-	2,090 kg	9x50 l	1x1.280 l	5x25 l
-	2,110 kg	9x50 l	1x1.280 l	5x25 l
-	2,290 kg	11x50 l	1x1.280 l	6x25 l
-	2,440 kg	12x50 l	1x1.280 l	6x25 l

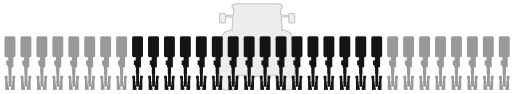
Technical data



Precision planters 8 - 12 rows	Number of rows	Row spacing	Transport width/ working width	Power require-ments	Weight	Weight with fertiliser tank and double-disc coulter
MS 8100	8	70/75 cm	600 cm / 600 cm	90 hp	1,050 kg	1,380 kg
MS 8100	12	45 cm	600 cm / 600 cm	100 hp	1,370 kg	1,860 kg
MS 8200	8	70/75 cm	600 cm / 600 cm	90 hp	1,270 kg	1,580 kg
MS 8200	12	45/50 cm	600 cm / 600 cm	100 hp	1,630 kg	2,120 kg
MS 8100 SUPER	12	70/75 cm	900 cm / 900 cm	150 hp	1,880 kg	2,440 kg
MS 8230	8	8x42.5 cm - 8x75 cm	300 cm / 590 cm	100 hp	1,370 kg	-
MS 8230	9	9x42.5/50 cm - 8x72/80 cm	320 cm / 610 cm	100 hp	1,430 kg	-
MS 8230	9	9x45 cm - 9x75 cm	320 cm / 630 cm	100 hp	1,450 kg	-
MS 8230	11	11x37.5/56 cm – 9x60/70 cm	320 cm / 610 cm	110 hp	1,640 kg	-
MS 8230	12	12x37.5/50 cm – 8x60/80 cm	320 cm / 610 cm	110 hp	1700 kg	-
MS 8230 ELEKTRO	8	8x45/59.5 cm - 6x72/82 cm	300 cm / 445 cm	90 hp	1,280 kg	-
MS 8230 ELEKTRO	8	8x42.5 cm - 8x75 cm	300 cm / 590 cm	100 hp	1330 kg	-
MS 8230 ELEKTRO	8	8x45 cm - 8x95 cm	320 cm / 730 cm	100 hp	1330 kg	-
MS 8230 ELEKTRO	9	9x42.5/50 cm - 6x72/80 cm	320 cm / 465 cm	100 hp	1,370 kg	-
MS 8230 ELEKTRO	9	9x42.5/50 cm - 8x72/80 cm	320 cm / 610 cm	100 hp	1,430 kg	-
MS 8230 ELEKTRO	9	9x45 cm - 9x75 cm	320 cm / 630 cm	100 hp	1,450 kg	
MS 8230 ELEKTRO	11	11x37.5/56 cm – 9x60/70 cm	320 cm / 610 cm	110 hp	1,640 kg	-
MS 8230 ELEKTRO	12	12x37.5/50 cm – 8x60/80 cm	320 cm / 610 cm	110 hp	1700 kg	-
MS 8230 SUPER ELEKTRO	12	12x37.5/75 cm -8x60/95 cm	320 cm / 880 cm	110 hp	2350 kg	-



Precision planters 16 rows	Number of rows	Row spacing	Transport width/ working width	Power require-ments	Weight	Weight with fertiliser tank and double-disc coulter
MS 8100 SUPER-L	16	70/75 cm	1,200 cm / 1,200 cm	200 hp	3,580 kg	4,240 kg



Precision planters 16 - 36 rows	Number of rows	Row spacing	Transport width/ working width	Power require-ments	Weight	Weight with fertiliser tank and double-disc coulter
3XL 800	16	70 cm	375 cm / 1,200 cm	160 hp	6,400 kg	7,500 kg
3XL 800	24	70 cm	375 cm / 1,700 cm	240 hp	7,800 kg	9,500 kg
3XL 800	36	45 cm	375 cm / 1,700 cm	300 hp	9,000 kg	-

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
1,130 kg	1,500 kg	8x50 l	4x215 l	4x25 l
1,490 kg	1,960 kg	12x50 l	4x215 l	6x25 l
-	-	8x50 l	4x215 l	-
-	-	12x50 l	4x215 l	-
-	-	12x50 l	6x215 l	-
1460 kg	-	8x50 l	-	4x25 l
1,520 kg	-	9x50 l	-	5x25 l
-	-	9x50 l	-	-
1,740 kg	-	11x50 l	-	6x25 l
1,830 kg	-	12x50 l	-	6x25 l
1,360 kg	-	8x50 l	-	4x25 l
1460 kg	-	8x50 l	-	4x25 l
1460 kg	-	8x50 l	-	4x25 l
1460 kg	-	9x50 l	-	5x25 l
1,520 kg	-	9x50 l	-	5x25 l
1,530 kg	-	9x50 l	-	5x25 l
1,740 kg	-	11x50 l	-	6x25 l
1,830 kg	-	12x50 l	-	6x25 l
2,480 kg	-	12x50 l	-	6x25 l

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
-	-	16x50 l	4x700 l	-

Weight with micro-granule spreaders	Weight with fertiliser tank, double disc coulter and micro-granule spreader	Seed hopper capacity	Fertiliser hopper capacity	Micro-granule hopper capacity
-	-	16x70 l	4x930 l	-
-	-	24x70 l	4x1.410 l	
-	-	36x70 l	-	-

MaterMacc

Our company history

- MaterMacc was founded in 1983 out of a passion for agriculture and the constant search for new solutions for agriculture.
- The company specialises in the development and manufacture of pneumatic precision planters for traditional crops as well as pneumatic and mechanical planters, no-till planters and crop care machines.
- MaterMacc also manufactures electronic equipment for the control and management of agricultural machinery and tools for controlling irrigation systems.
- Technology and quality made in Italy to serve agriculture.

Quality in precision planting

- MaterMacc is proud to offer planters suitable for use in conventional agriculture, minimum tillage and no-till to support the full spectrum of farm businesses in meeting their requirements.
- The MAGICSEM distributor is at the heart of MaterMacc planters. It offers constant, precise spacing and consistently excellent performance with any type of seed.
- We believe that the performance of our products and services is primarily about providing our customers with long-term support and growth for their business, because we can only be successful if our customers are successful.

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