HORSCH

Maestro AX

VERSATILE AND PRECISE SINGLE GRAIN SEED DRILL WITH 3-POINT LINKAGE

Maestro AX

COMPACT TECHNOLOGY WITH 3-POINT LINKAGE FOR PROFESSIONAL FARMERS

- Compact design for low demands on the tractor
- Microgranular tank at the row:
  - 18 l per row
  - Standard option for SectionControl switching
  - Metering via special HORSCH fine seed otor
- Rugged and reliable technology – heavy parallelogram and row unit for highest demands
- Optional: hydraulic coulter pressure up to 220 kg
- 1 100 l fertiliser tank (with standard half-side control)

The Maestro AX is the latest model in the sector of compact single grain seed drills. Depending on the row width, the machine is equipped with a rigid frame design resp. with a single telescopic frame. For example, in the 6-row version with a row spacing of 70/75/80 cm, the outermost two rows can be retracted hydraulically for road transport. This results in a transport width of 3.49 m (respect individual transport width and approval based on technical data). Due to the very short middle rack, the machine is positioned as compactly as possible on the tractive vehicle and can also be operated with smaller, lighter tractors.

As an option, the Maestro AX can be equipped with a 1 100 l fertiliser tank. The fertiliser tank is equipped with two well-proven HORSCH metering units which allow for precise underground fertilisation either via a single disc or double disc fertiliser coulter. Due to the tank concept with the two electric metering units, the machine is equipped as standard with a fertiliser half-side control.

Metering of the Maestro AX is carried out via the well-known overpressure system AirSpeed. Operational speeds of up to 15 km/h are possible - with an absolutely precise grain placement and optimal grain embedding.

In addition to seed and fertiliser application, the Maestro AX offers the possibility to apply a third component via the microgranular unit on each individual row. The containers have a capacity of 18 l per row and are driven by a separate electric motor which allows for an individual shutdown, thus efficiently saving anulate. Application is either carried out in the seed furrow or in a widespread way on the surface via baffle

The row units of the Maestro AX come from the well-known larger Maestro series and are equipped as standard with mechanical springs on the parallelograms to operate with a coulter pressure range of 150 to 220 kg. As an option, a hydraulic coulter pressure system with AutoForce is also available. The coulter pressure is automatically adjusted to the changing soil conditions.

High operational speeds up to 15 km/h

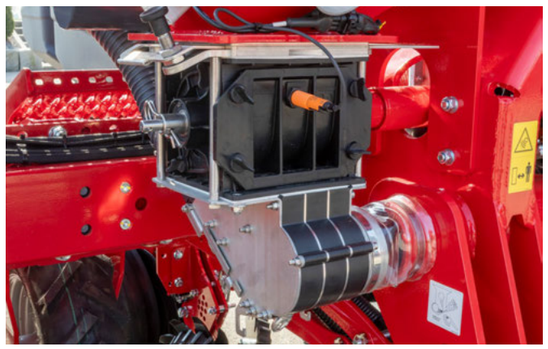
Optionally also with microgranular compound at the row

Fertiliser hopper

1 100 L fertiliser hopper with half-side control

For targeted underground fertiliser application, a 1 100 l fertiliser tank is available for the Maestro AX. Two HORSCH metering devices carry out a half-width control as standard. Three rows per side are supplied directly. At a speed of 15 km/h, 180 kg per hectare can be applied.

- Capacity: 1 100 l
- Two well-proven HORSCH fertiliser metering units
- Thus standard half-width control



One of the fertiliser metering devices

Efficient use of the possible inst lation space

Row unit

DURABLE – RELIABLE – SOLID

Robust Maestro row unit

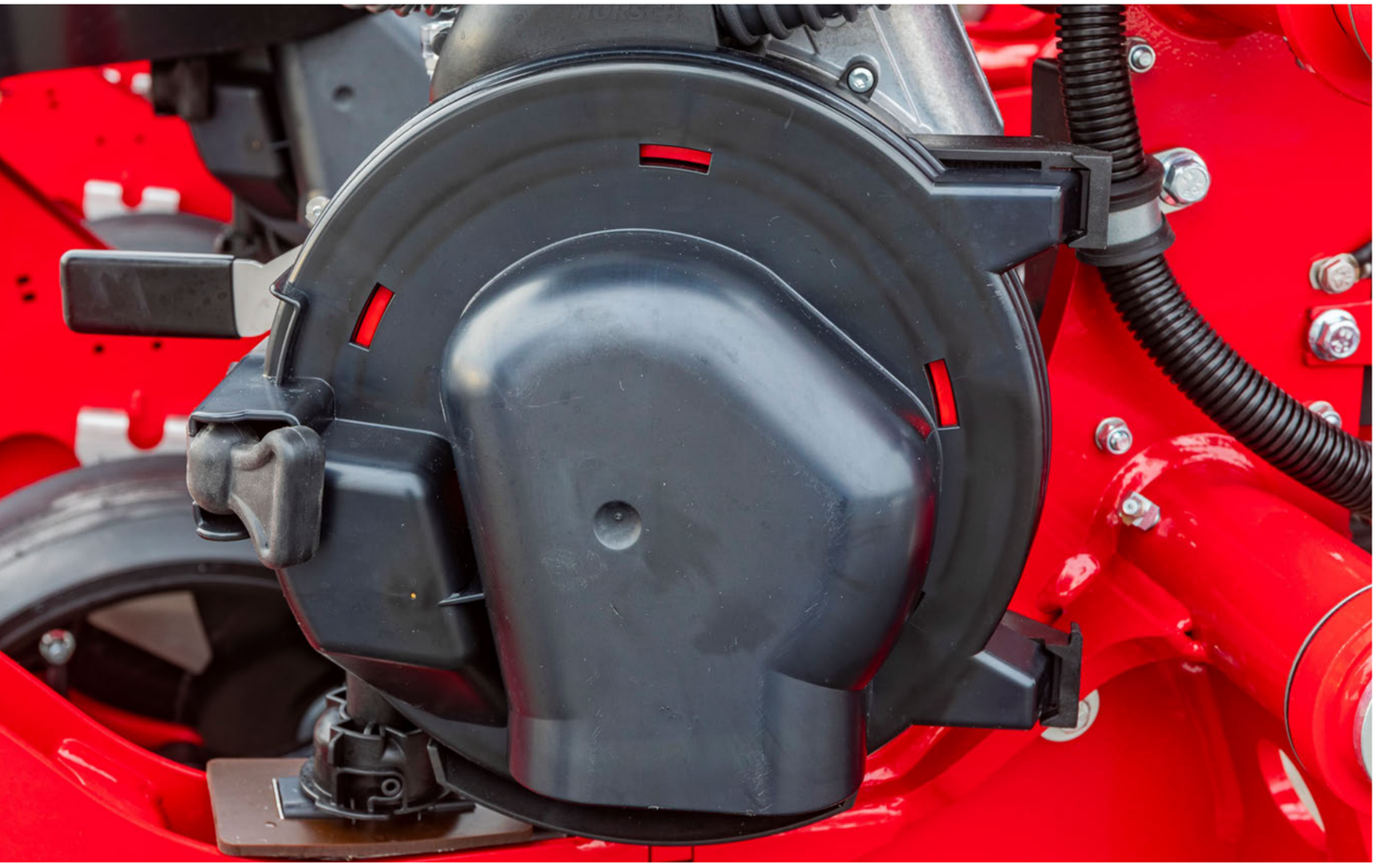
The Maestro row units mainly excel due to a long service life and a very stable design. With 35 cm the parallelogram is very wide so that especially laterally acting forces can be absorbed better. The maintenance-free bushes in the parallelogram are very large to guarantee a long service life. The row units can move by just under 40 cm to compensate for unevenness in the field. They a e either clamped to the frame of the Maestros with a clamping device or for larger machine models are fixed. The coulter p essure is generated in the parallelogram of the row unit with a hydraulic cylinder. Coulter pressures up to 350 kg per row can be selected. The empty weight of the machine is used and transferred to the row unit.

The basic body of the row unit is heavy duty. The depth control system is equipped with large wear points to avoid having to comprise. The seed discs of the double disc coulter are equipped with reliable 2-row angular ball bearings. Depth control is carried out via a pin and 14 available positions. You can sow at depth from 1.5 to 9 cm. A catching roller to catch and press the grains is mounted as standard. The seed furrow is closed and consolidated by a V-shaped pair of closing wheels. Different front tools can be attached in front of the disc blade at a standardised flange plate, e.g trash wells or a cutting disc.

- Hydraulic coulter pressure up to 350 kg
- Various front tools
- Closing wheel options for all soils
- Durable and low-wear design

AirSpeed

WITH AIRSPEED SYSTEM – PRECISE – VERSATILE - EFFICIENT



The AirSpeed metering unit can be used for an precise grain singulation in all situations. Due to different metering discs, maize, sunflowers, sugar beet, soybeans and ape can be singulated reliably.

The AirSpeed system is based on the principle of overpressure singulation where the seed is pressed to a perforated disc. During the metering process, the grains pass through a scraper that sees to it that doubles are removed. The special feature of the AirSpeed scraper is that no adjustment is required. The contour of the scraper has been optimised in such a way that a reliable singulation for all crops is ensured.

The seed is shot actively with overpressure from the metering unit via the shoot pipe into the seed furrow. A grain sensor is integrated into the drop tube to ensure an optimum monitoring of the seeding success. The sensor's measurement technology can count grains, determine the distances between the grains, and thus provide the driver with information regarding double spots and gaps.

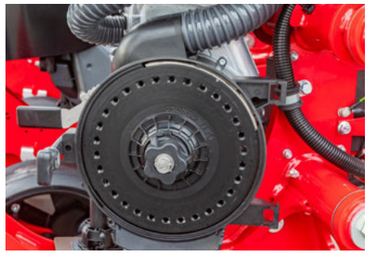
The transferred values of the singulation accuracy are clearly displayed at the terminal of the machine and additionally increase safety for sowing.

The AirSpeed metering device is driven electrically as standard and each row can be controlled individually. This technology allows for the well-known functions individual row switch-off, SectionControl, VariableRate and tramline control.

For VariableRate, the Airspeed system is designed in such a way that the seed rate can be modified for every individual row. With the tramline control, a percentage increase of the seed rate in the row at the left and the right side of the tramline can be carried out individually. With these advanced functions all measures to increase precision while sowing can be used to full capacity.

- Can be used universally for different crops
- Utmost precision for seeding speeds up to 15 km/h
- Easy to operate: no adjustment of the singulator required
- Reliable singulation of different grain sizes
- Electric drive as a basis for: SectionControl, VariableRate, tramline control

The universal singulator does not have to be adjusted

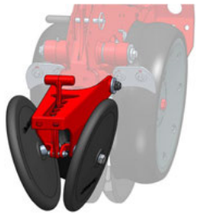


Easily accessible AirVac metering device

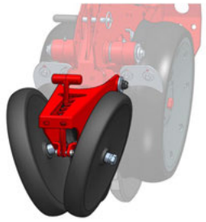
SectionControl allows for automatic row shut-off and activation via GPS.

V-press wheels

FOR A BETTER EMBEDDING OF THE GRAINS

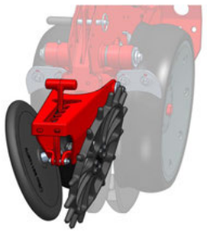


V press wheels narrow: for normal conditions

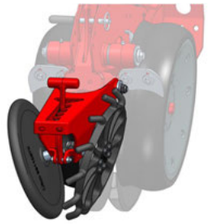


V-press wheels wide: for lighter sites

V-press wheels wide, profiled: for light soils and fine seeds (beet and rapeseed)



Spike wheel: for medium and lighter soils



Finger wheel: for medium and heavy soils

The closing of the seed furrow is the last time when you can influence eme gence. Depending on the type of soil, the sowing method, sowing depth and the crop, the requirements differ. Therefore, the Maestros can be equipped with different press wheels and press wheel combinations to be able to achieve an optimum work result for all crops in all conditions.

Which press wheel is suitable for which application?

Rubber and profiled press wheel

— Rubber closing wheels for light sandy conditions

— The profiled wheels a e recommended for fine seeds

— The profile additiona ly creates fine earth and can better prevent silting.

Finger and spike press wheel:

— The finger p ess wheel is optimal for heavy and medium soils.

— Spike press wheel for medium to light sites

— Per row there is one finger/spike p ess wheel and one standard wheel to control the depth and to prevent the grains from moving.

— However, the wheels are not suitable for shallow seeding.

— If the furrow wall gets compacted because of the Double-Disc seed coulters, it is broken by the finger / spike wheel – the furrow is removed.

— No opening of the seed furrow after sowing in dry conditions, especially on heavy, clayey soils

— Development of the maize root is encouraged

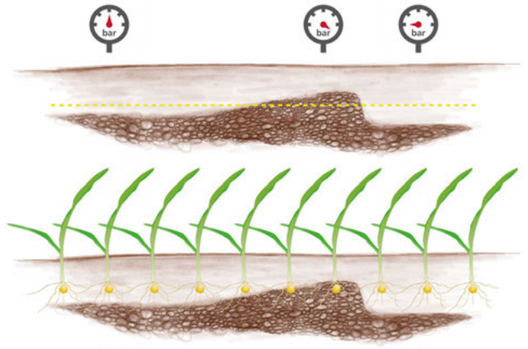
V press wheels wide

Spike wheel

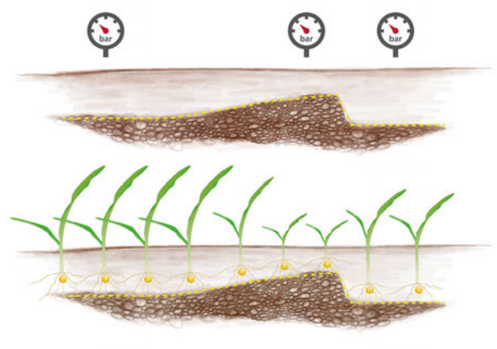
Finger wheel

AutoForce

OPTIMUM EMBEDDING DESPITE CHANGING SOIL CONDITIONS



With AutoForce: optimum pressure – optimum seed depth



Without AutoForce: constant pressure – uneven placement

What do you need an automatic coulter pressure control for?

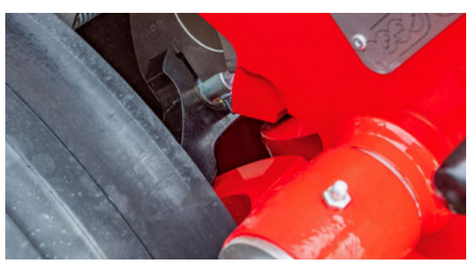
— Stony soils require more coulter pressure to place the seed at a consistent depth. If the coulter pressure is too low the coulter body would not move smoothly and the seed would germinate irregularly and with different speed.

— Light conditions or pressure-sensitive soils need less coulter pressure so that the soil is not compacted. Too much coulter pressure compacts the soil and slows down the development of the roots although all seed was placed at the same depth.

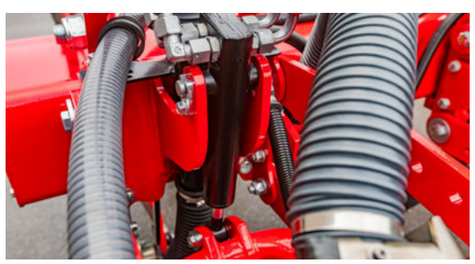
— There rarely are fields that a e completely even. In every part of the field the coulter p essure has to be adapted.

— This is why AutoForce has been available for the Maestro line since 2016.

AutoForce guarantees an always consistent embedding of the grains in changing conditions. Thus, more regular emergence and populations are achieved. The contact pressure of the row unit is measured with a sensor at the two support wheels. This pressure (= nominal value) is previously set in the terminal. Three pressure levels are available: 25 kg, 50 kg and 80 kg (the values can also be adapted individually). With changing soil conditions, the row needs more or less power to be able to keep up the set placement depth. The contact pressure would change. The sensor detects this, and the system regulates the contact pressure in such a way that it always corresponds to the nominal value that has been set. This is possible due to the design of the machine which allows for transferring weight to the seed bar. The coulter pressure automatically varies between 150 kg and 350 kg. The grain embedding is always carried out at the same level. Too shallow placement as well as soil compactions can be avoided.



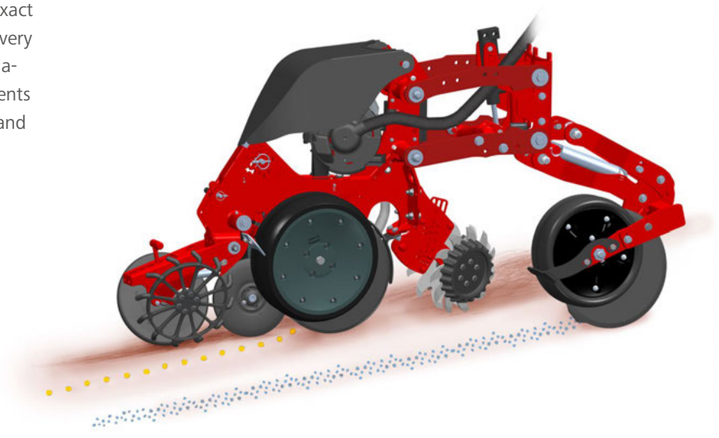
The Piezo sensor in detail



Hydraulic coulter pressure cylinder

FERTILISER AND MICROGRANULAR APPLICATIONS

In addition to a precise placement of the grains the exact positioning of fertilisers or plant protection agents is very important for single grain sowing. The rows of the Maestros, thus, can be equipped with different components to provide an optimum solution for all requirements and demands.



Single disc fertiliser coulter controlled via its own parallelogram

Application ON the row

Application IN the row

Single disc fertiliser coulter

Single disc fertiliser coulter

- The SingleDisc fertiliser coulter is suspended independently of the seed row
- Placement depth adjustable from 5 to 9 cm
- Quick, tool-free adjustment of the coulter pressure from 40 to 130 kg
- Deactivation is possible without tools by lifting the unit out of work

Mechanical micro-granular compound application

- Two application points are possible at the row unit
- Release position in the seed furrow for fertiliser granulate and crop care agents for good contact to the seedling
- Release option behind the row via baffles, for l ge, shallow distribution of underseed or slug pellets

Micro-granular unit on the row with both application spots

INTELLIGENCE

eosT10/eosT10 Pro

— High-resolution 10“ terminal for controlling all ISOBUS devices according to ISO 11783

— Reliable and powerful: high-performance hardware combined with intuitive, user-friendly operation in day or night mode

— Various layout options allow for a simultaneous display of several applications – for an optimum overview

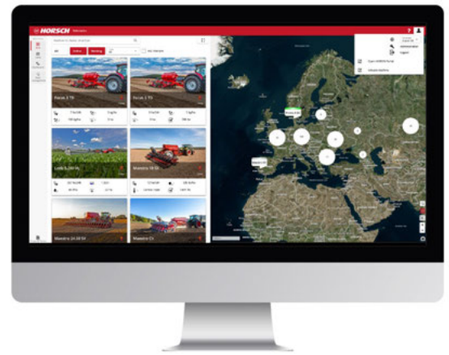
— Straightforward transfer of application maps with the wireless task data exchange

— A real-time transmission of the terminal display via Remote Support facilitates the technical support.

By displaying up to 3 widgets in addition to the main working screen, the user can keep track of several applications at the same time.

HorschConnect

Prepare today for tomorrow. Easily control various machine functions via the HORSCH Control app – your smartphone complements the terminal! Gain comprehensive, transparent insight into work rate and work quality with HorschConnect Telematics.



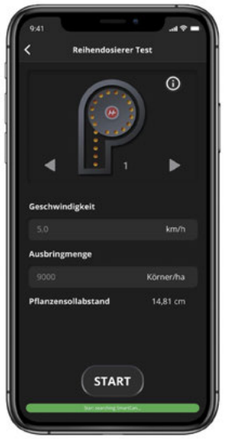
With HorschConnect, telemetry solutions are making their way into the sectors seeding and crop care - exactly where they make sense

— HorschConnect Telematics to document the performance of the machine

— HorschConnect Telematics for complete transparency of the working quality, e.g. the application rate of all components

— Targeted and proactive service by remote access to error messages

— Control of machine functions via the HORSCH Control smartphone app: e.g. calibration of all metering devices and control of the individual rows to check the singulation quality before starting seeding or in between



By means of the HORSCH Control app, a test of the most important parameters of singulation quality can be carried out at any time on a individual row basis

Metering disc selection

— Maximum flexibility – the use of diffe ent metering discs allows for sowing a wide variety of crops with the HORSCH Maestro.

— The tool determines the appropriate metering disc for your application.

— Only enter the type of crop, operating speed, application rate and row spacing and off you go!

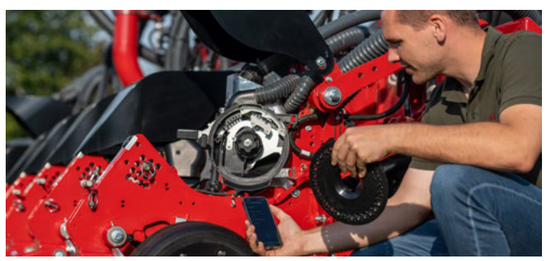
AutoLine

— Automatic, GPS-based tramline control

— Optimised driving strategy near obstacles or on the headlands

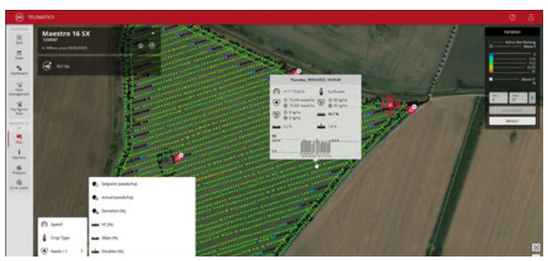
— Track-to-track driving is no longer required

— Available in combination with the eosT10 Pro terminal or other tramline-capable ISOBUS terminals

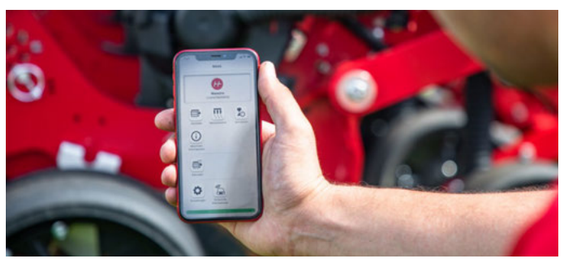


The HORSCH Assist app with the „Metering Disc Selection“ function helps you to select the optimal metering disc for every application.

With single grain seeding technology and HORSCH AutoLine, tramlines can be sown completely flexibly and independently of the driving di ection supported by GPS.

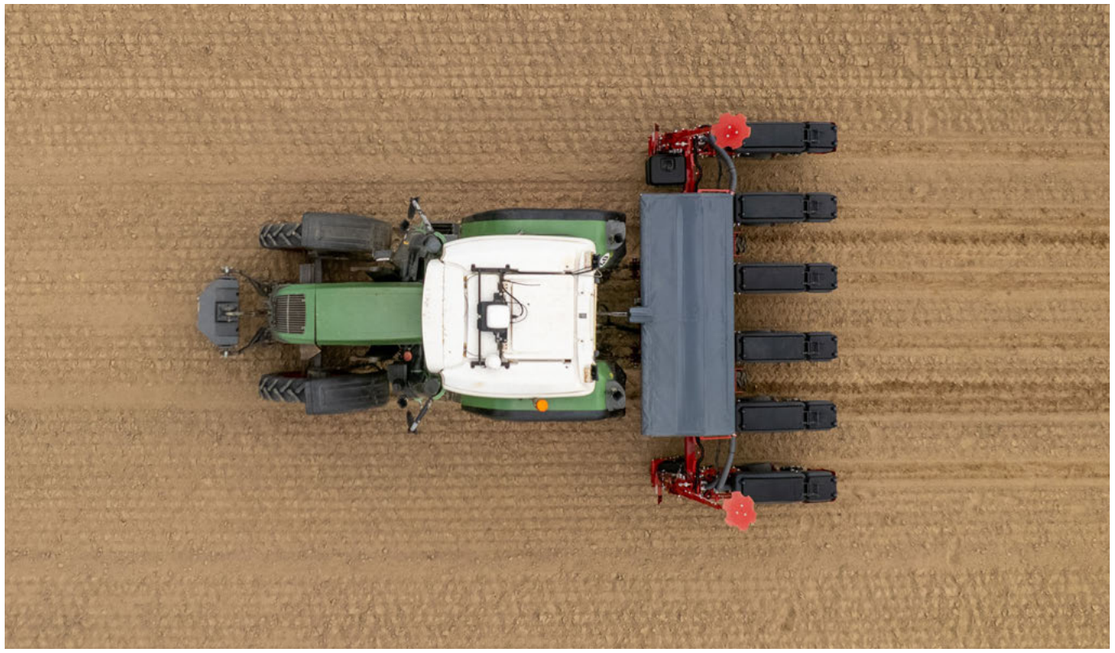


Success factor transparency: position-related data of all relevant information like error messages, operational speed or singulation quality



Quick and easy calibration or testing of the machine’s singulation quality via smartphone with the HORSCH Control app

ADDITIONAL EQUIPMENT



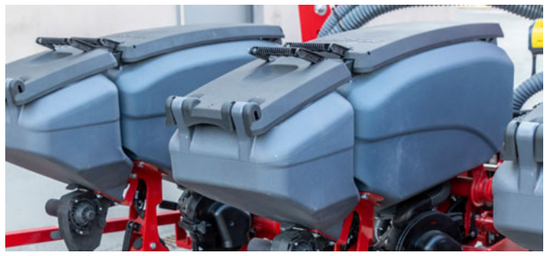
Compact design for small tractors

Compact road transport due to telescopic rows

Optional trash wheels, floating with depth control

RID wheel reduces soil compaction directly at the seed slot in very hard or direct seeding conditions

Standard depth control wheel for normal soils



Microgranular row container with a capacity of 18 l

Granulate metering unit with metering insert

TECHNICAL DATA

Maestro AX	6 AX
Number of rows	6
Transport width (m)	3,49
Transport height (m)	2,70
Transport length (m)	2,35
Weight (kg)	2170
Hopper capacity fertiliser (l)	1100
Feed opening fertiliser hopper (m)	0,65 x 2,40
Capacity seed container (l)	70
Max. coulter pressure (kg)	150 - 220
Depth control wheel Ø (cm)	40
Press wheels Ø (cm)	30 / 33
Catching roller	Standard
Row spacing (cm)	70 / 75 / 80
Sowing depth (cm)	1,5 - 9
Operational speed (km/h)	6 - 15
Horsepower requirement (kW/hp)	95 / 130
Implement attachment 3-point	3-Pkt. Cat. III
Depressurised return flow (max. 5 bar)	1
DA control devices	1 DA hydraulic telescopic frame including bout markers, 1 DA hydraulic fan direct drive overpressure with adjustable flow ate
Oil quantity hydraulic fan overpressure (l/min)	30
Power requirement during operation (A)	32,5
Power requirement max. (A)	55

What do our customers worldwide say?

Your distributor

ExperienceTour

MAESTRO

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