



Maestro TV / TX

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





Maestro TV / TX

COMPACT TECHNOLOGY WITH 3-POINT LINKAGE
FOR PROFESSIONAL FARMERS

- Maestro 6 TV/TX: 45/50/55/60/65/70/75/80 cm row spacing
- Maestro 7 TX: 37.5/40/45/50/55/60/65 cm row spacing or in 6-row operation 75/80 cm
- 1 300 l fertiliser hopper (with standard half-width shut-off)
- Hydraulic weight transfer system is available as an option for a higher coulter pressure
- Microgranular tank at the row:
 - 18 l capacity per row
 - Standard option for SectionControl switching
 - Metering via special HORSCH fine seed rotor



The Maestro TV/TX is the compact single-grain model in the working width range of 2.60 m to 4.80 m. The machine is equipped as standard with a hydraulic sliding telescopic frame. This allows the Maestro 6 TV/TX to flexibly adjust all common row spacings from 45 cm to 80 cm in 5 cm increments. The Maestro 7 TX also has the option to work with a row spacing of 37.5 cm or 40 cm. The maximum row spacing for 7 rows is 65 cm. If the middle row is deactivated, the Maestro 7 TX can seed conventionally with 6 rows and a row spacing of 75 or 80 cm.

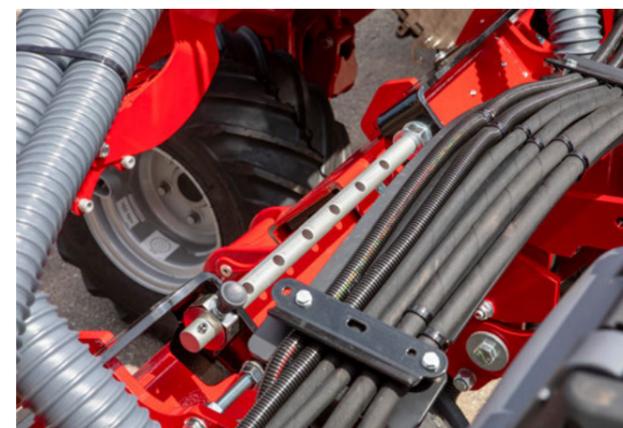
The row width can be changed very easily and without tools by removing the stops on each individual row. The machine is ready for sowing again after the working width has been adapted in the terminal.

The Maestro TV/TX can optionally be equipped with a 1,300-liter fertilizer tank. The fertilizer is dispensed to the fertilizer coulters for subsoil fertilization using two proven HORSCH metering devices. The machine is equipped with a fertilizer half-width shut-off as standard.

The metering for the Maestro TV/TX is done via the well-known metering systems AirVac or AirSpeed. With absolutely precise seed placement and optimal seed embedding, driving speeds of up to 12 km/h are possible with AirVac and up to 15 km/h with AirSpeed.

In addition to seed and fertilizer application, there also is the possibility to apply a third component with the TV/TX using the granular spreaders on each individual row. The units have a volume of 18 liters per row, are driven separately by an electric motor, and can therefore be switched off individually. This allows for optimal savings of granulate. Application is either carried out in the seed furrow or in a widespread way on the surface via baffles.

The Maestro TV/TX series originate from the well-known larger Maestro series. Due to the slide mechanism, only the connection to the frame was adapted. The coulter pressure is always generated hydraulically. A standard coulter pressure of 150 to 220 kg is possible, with integrated hydraulic weight transfer even up to 300 kg. This makes the machine suitable for direct seeding.



Pegging out the row width



Maestro TX lifted on the headlands

Fertiliser hopper

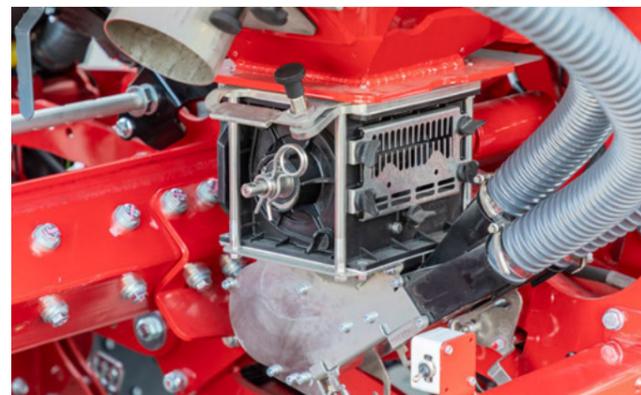


Maestro 6 TX with 1 300 l fertiliser hopper

For targeted underseed fertilizer application, a 1,300-liter fertilizer tank is available for the Maestro TV/TX. Two HORSCH metering devices carry out a half-width control as standard. With the Maestro 6 TV/TX, three rows are directly operated per side. With the Maestro 7 TX, one side supplies four rows. At a speed of 12 km/h, 250 kg per hectare can be applied.



Maestro 6 TX without fertiliser equipment



One of the fertiliser metering devices

Row unit

DURABLE – RELIABLE – SOLID



Robust Maestro row unit

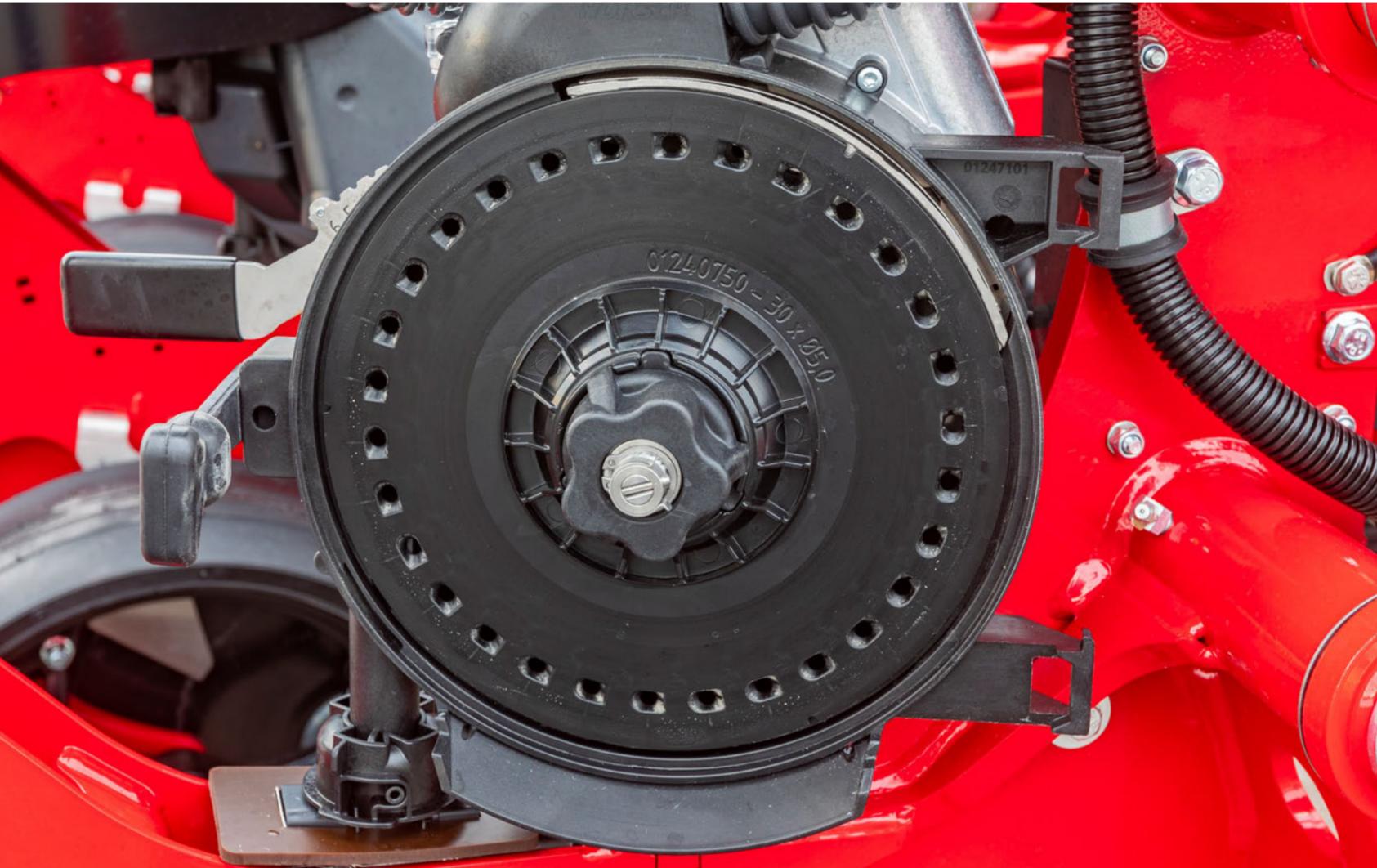
The Maestro row units mainly excel due to a long service life and a very stable design. With 35 cm the parallelogram is very wide so that especially laterally acting forces can be absorbed better. The maintenance-free bushes in the parallelogram are very large to guarantee a long service life. The row units can move by just under 40 cm to compensate for unevenness in the field. They are either clamped to the frame of the Maestros with a clamping device or for larger machine models are fixed. The coulter pressure 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

AirVac and AirSpeed

VERSATILE – PRECISE – EFFICIENT



Basically, the new metering unit generations AirVac and AirSpeed are very similar and work according to the same metering principle. They can be used universally for a very precise grain singulation for a lot of crops. With different metering discs maize, sunflowers, sugar beet, soyabeans and other bean crops as well as rape and sorghum are singulated reliably.

The AirSpeed system works according to the overpressure principle where the grains are pressed to the perforated disc. The AirVac system works according to the overpressure principle where the grains are pressed to the perforated disc. In both metering devices, the grains run through a singulator which sees to it that double seed is avoided. The characteristic of this special component is that it does not have to be replaced when changing crops and that the driver does not have to carry out any adjustments. The contour of the singulator was optimised in such a way that a reliable singulation for all crops is guaranteed.

The basic difference of the two new metering unit generations is the transfer of the seed from the metering unit into the soil: after the singulation, the AirVac system leads the seed to the bottom of the furrow via a drop tube and the seed is pressed down by the catching roller if necessary. With the AirSpeed system the singulated grains are captured by an air current, accelerated and shot with the air current through the shoot pipe into the soil. They are caught and embedded by the mounted catching roller.

In both metering devices the grains pass a grain sensor in the drop – shoot tube for an optimum monitoring of the sowing 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 new metering generations AirVac and AirSpeed are 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 metering systems have been designed in such a way that the seed quantity can be changed individually for each row. With regard to the tramline control the sowing density can be adapted individually in the rows at the left and at the right side of the tramline. With these advanced functions all measures to increase precision while sowing can be used to full capacity.

Advantages at a glance:

- Can be used universally for different crops
- Easy to use: no adjustment of the separator required
- Reliable singulation of different grain sizes
- Electric drive as a basis for: SectionControl, VariableRate, tramline control

AirVac:

- Operational speeds up to 12 km/h
- Utmost flexibility for all crops and optimum embedding of the grain

AirSpeed:

- Operational speeds up to 15 km/h
- Maximum efficiency with safe embedding of the grain



The universal singulator does not have to be adjusted



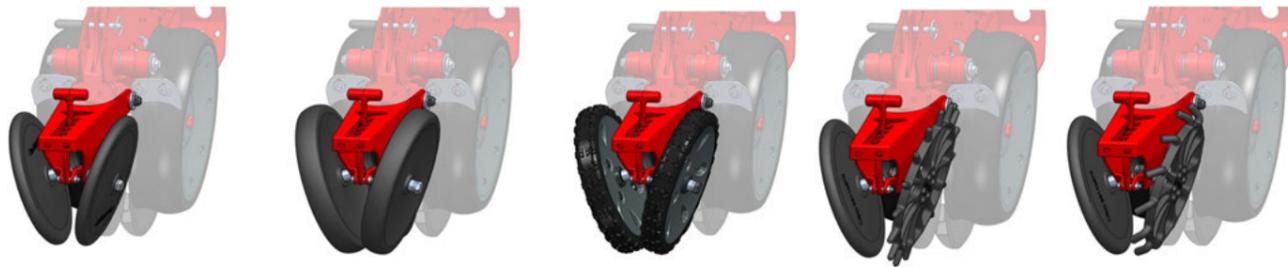
Easily accessible AirVac metering device



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 emergence. 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 are recommended for fine seeds.
- The profile additionally creates fine earth and can better prevent silting.

- **Finger and spike press wheel:**
- The finger press wheel is optimal for heavy and medium soils.
- Spike press wheel for medium to light sites
- Per row there is one finger/spike press 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



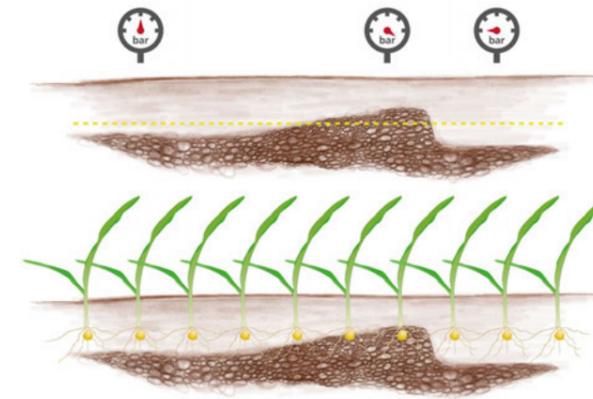
Spike wheel



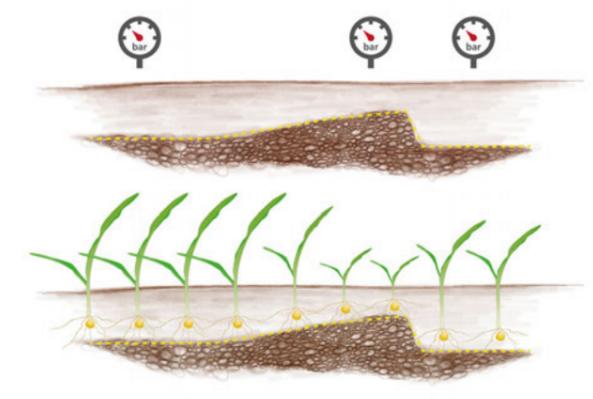
Finger wheel

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 are completely even. In every part of the field the coulter pressure 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.



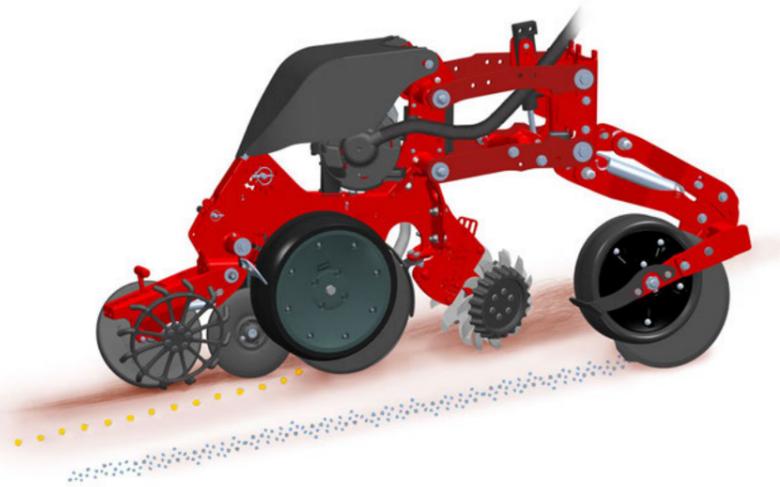
The Piezo sensor in detail



Hydraulic coulter pressure cylinder

FERTILISER AND MICROGRANULAR APPLICATIONS

The row tank of the Maestro has a capacity of 70 l for seed and is air- and watertight. The working height of the large feed opening is easily accessible and the high snap-in position of the cover allows for an easy and quick filling of the tank.



Single disc fertiliser couler controlled via its own parallelogram



Application ON the row



Application IN the row



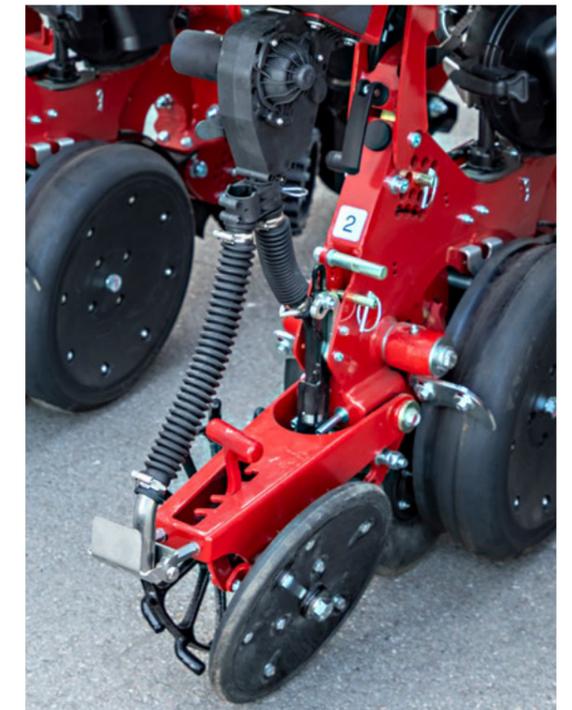
Single disc fertiliser couler

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

Single disc fertiliser couler

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 large, 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

Metering disc selection

- Maximum flexibility – the use of different 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!



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

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



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

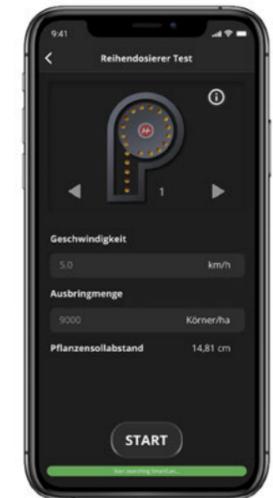
HorschConnect

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.

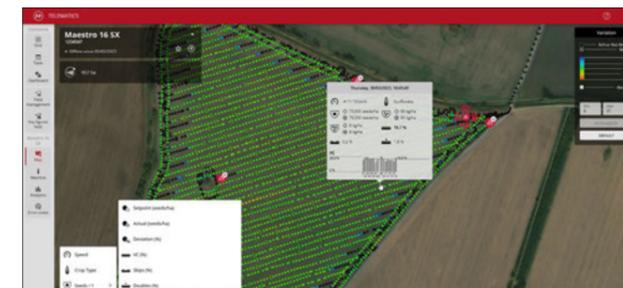


With HorschConnect, telemetry solutions are making their way into the sectors seeding and crop care – exactly where they make sense

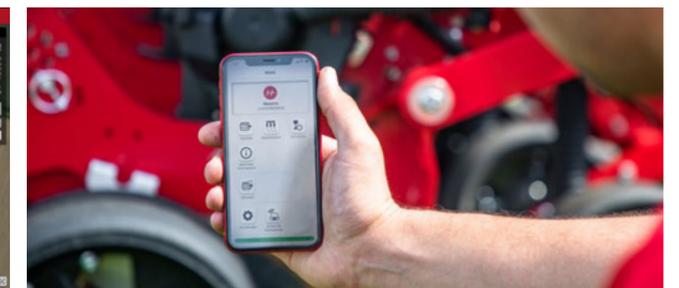
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g. the application rate of all components
- Targeted and proactive service due to remote access to error messages
- Control of machine functions via the smartphone app HORSCH Control: e.g. Turning off all dispensers and controlling individual rows to check the quality of singulation before starting sowing or in between
- The HORSCH Screen provides live data and visualisations of the current machine work to ensure a precise overview of the work results at any time



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



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



Maestro 6 TX without fertiliser equipment



Maestro TX on the road



Optional trash wheels, floating with depth control



The RID wheel reduces soil compactions 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 TV / TX	6 TV	7 TV	6 TX	7 TX
Transport width (m)	3,00	3,00	3,00	3,00
Transport height (m)	2,70 - 3,70	2,70 - 3,70	2,70 - 3,70	2,70 - 3,70
Transport length (m)	2,80	2,80	2,80	2,80
Weight (kg)	2275	2500	2275	2500
Hopper capacity fertiliser (l)	1300	-	1300	1300
Feed opening fertiliser hopper (m)	0,65 x 2,40	-	0,65 x 2,40	0,65 x 2,40
Capacity seed container (l)	70	70	70	70
Number of rows	6	7 / 6 + 1	6	7 / 6 + 1
Max. coulter pressure with hydraulic pressure adjustment (kg)	150 - 220	150 - 220	150 - 220	150 - 220
Max. Coulter pressure with weight transfer (kg)	150 - 300	150 - 300	150 - 300	150 - 300
Depth control wheel Ø (cm)	40	40	40	40
Press wheels Ø (cm)	30 / 33	33 / 30	30 / 33	30 / 33
Catching roller	Standard	Standard	Standard	Standard
Row spacing (cm)	45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	37.5 / 40 / 45 / 50 / 55 / 60 / 65 (in 6-row operation 75 - 80)	45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	37.5 / 40 / 45 / 50 / 55 / 60 / 65 (in 6-row operation 75 - 80)
Sowing depth (cm)	1,5 - 9	1,5 - 9	1,5 - 9	1,5 - 9
Operational speed (km/h)	2 - 12	2 - 12	6 - 15	6 - 15
Horsepower requirement (kW/hp)	95 / 130	95 / 130	95 / 130	95 / 130
Implement attachment 3-point	3-Pkt. Cat. III	3-Pkt. Cat. III	3-Pkt. Cat. III	3-Pkt. Cat. III
Depressurised return flow (max. 5 bar)	1	1	1	1
DA control devices	1 DA hydraulic telescopic frame including bout markers, 1 DA hydraulic fan direct drive vacuum with adjustable flow rate +1 DA hydraulic filling auger (option)	1 DA hydraulic telescopic frame including bout markers, 1 DA hydraulic fan direct drive vacuum with adjustable flow rate	1 DA hydraulic telescopic frame including bout markers, 1 DA hydraulic fan direct drive overpressure with adjustable flow rate +1 DA hydraulic filling auger (option)	1 DA hydraulic telescopic frame including bout markers, 1 DA hydraulic fan direct drive overpressure with adjustable flow rate
Oil quantity hydraulic fan overpressure (l/min)	-	-	max. 30	max. 30
Oil quantity hydr. fan vacuum (l/min)	max. 30	max. 30	---	---
Power requirement during operation (A)	32,5	32,5	32,5	32,5
Power requirement max. (A)	55	55	55	55





Your distributor

What do our customers
worldwide say?



ExperienceTour

MAESTRO



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All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

EN-60208890 (AGRI25)