

Maestro TX



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



Maestro TX

COMPACT TECHNOLOGY WITH 3-POINT LINKAGE
FOR PROFESSIONAL FARMERS

- Maestro 6 TX: row spacing 45/50/55/60/70/75/80 cm
- Maestro 7 TX: 37.5/40/45/50/55/65 cm row spacing or with 6 rows 75/80 cm
- 1 300 l fertiliser hopper (with standard half-width shut-off)
- Micro-granular container on the row:
- Capacity of 20 l per row
- Standard option for SectionControl
- Metering via special HORSCH fine seed rotor
- Hydraulic weight transfer system is available as an option for a higher coulter pressure



The Maestro TX is the new single grain model in the working width range from 2.60 m to 4.80 m. The machine is equipped with a hydraulic telescopic slide frame as standard. For the Maestro 6 TX, all standard row spacings from 45 cm to 80 cm can be adjusted variably in 5 cm steps. 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 TX can optionally be equipped with a 1 300 l fertiliser hopper. The fertiliser is metered by two well-proven HORSCH metering devices to the single disc fertiliser coulters for underground fertilisation. The machine is equipped with a fertiliser half-width shut-off as standard.

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

In addition to applying seed and fertiliser, there is also the possibility to apply a third component with the TX via the granulate unit on each individual row. The units hold a capacity of 20 l per row, are driven separately by an electric motor so can also be switched off individually. This allows for saving granulate. The application is either carried out in the seed furrow or in a widespread way on the surface via baffles.

The rows of the Maestro TX are based on the well-known larger Maestro series. Due to the slide mechanism, only the connection to the frame was adapted. The coulter pressure is generated hydraulically. Depending on the weight transfer system, a coulter pressure of 230 to 300 or 350 kg per row is possible. Thus, the machine can also be used for direct seeding.



Locking bar for adjusting the row width



Maestro TX lifted on the headlands

Fertiliser hopper

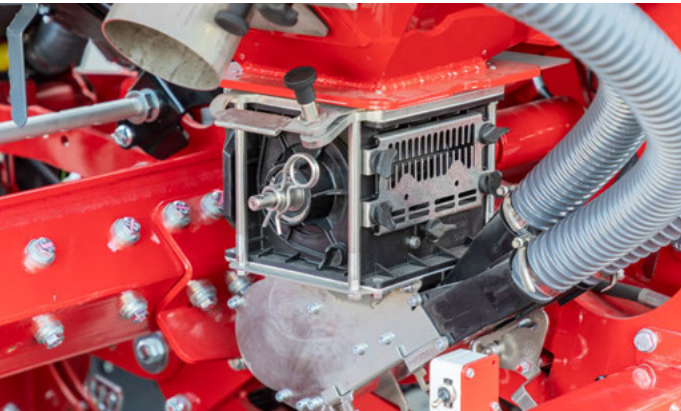


Maestro 6 TX with 1 300 l fertiliser hopper

For a targeted application of underground fertiliser, a 1 300 l fertiliser hopper is available for the Maestro TX. Two HORSCH metering devices carry out a half-width shut-off as standard. With the Maestro 6 TX, three rows per side are supplied directly. 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 units

Row unit

DURABLE – RELIABLE – SOLID



Robust Maestro row unit

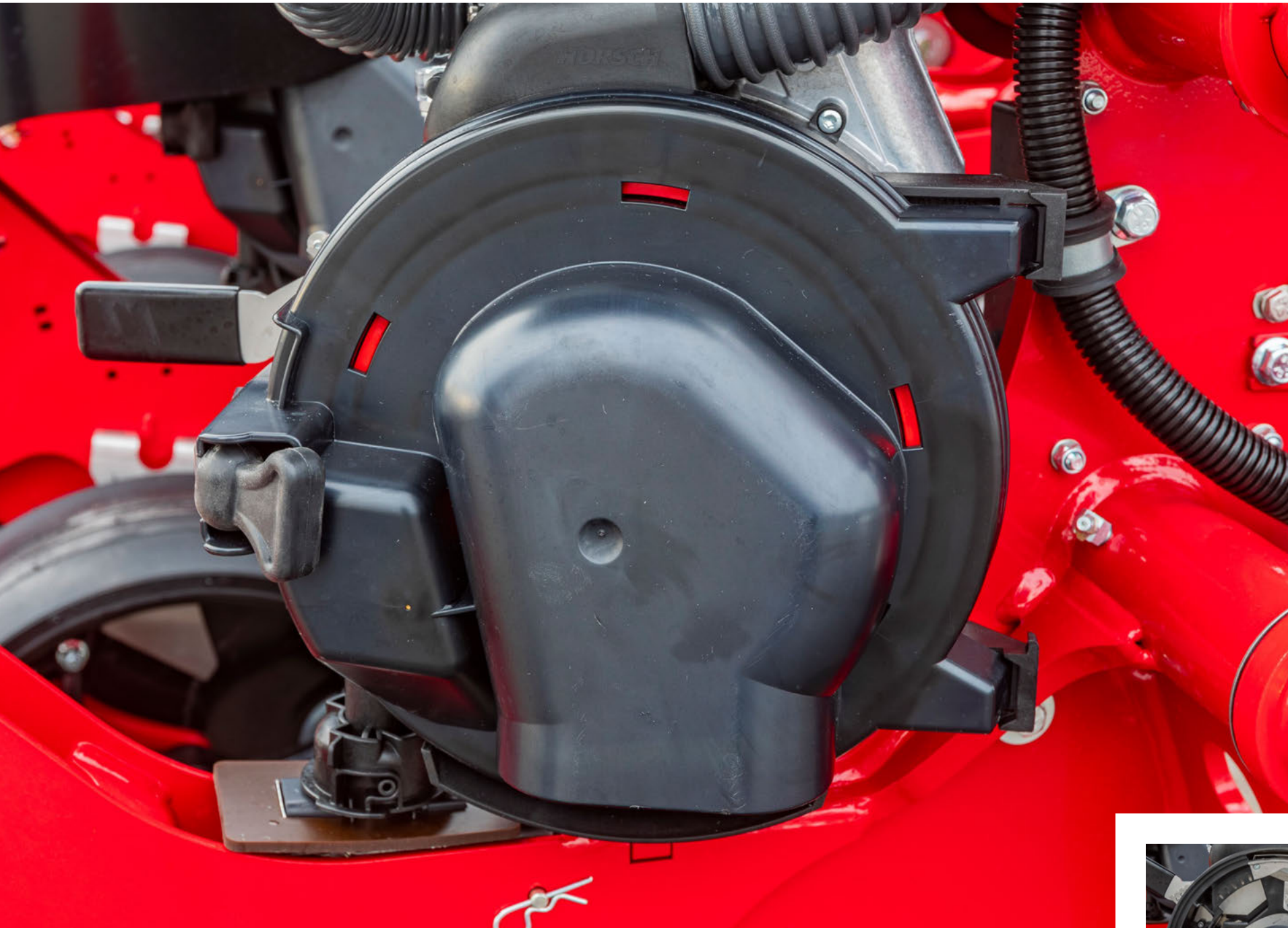
The Maestro row units mainly excel due to a long service life and a very stable design. With 35 cm the parallelogram is very wide so that especially laterally acting forces can be absorbed better. The maintenance-free bushes in the parallelogram are very large to guarantee a long service life. The row 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

AirSpeed

WITH AIRSPEED SYSTEM – PRECISE – VERSATILE – EFFICIENT



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

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 rape 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 measuring technology of the sensor is able to count the grains, to determine the spacings between the grains and thus to transmit an information to the driver with regard to double spots or gaps.

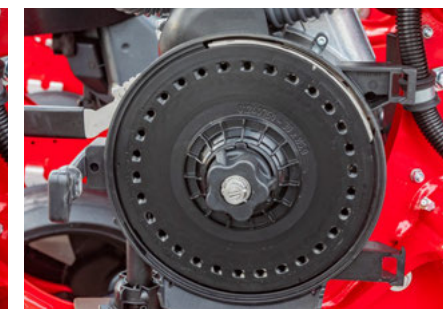
The transferred values of the singulation accuracy are clearly displayed at the terminal of the machine and additionally increase safety for sowing.

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.

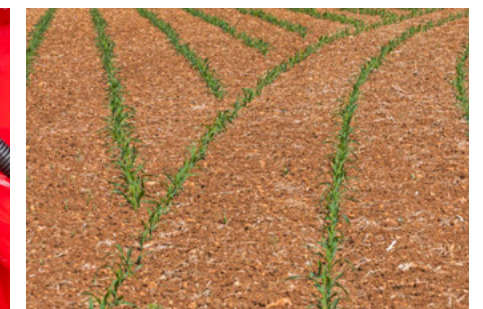
For VariableRate, the Airspeed system is designed in such a way that the seed rate can be modified for every individual row. With the tramline control, a percentage increase of the seed rate in the row at the left and the right side of the tramline can be carried out individually. With these advanced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



The universal singulator does not have to be adjusted



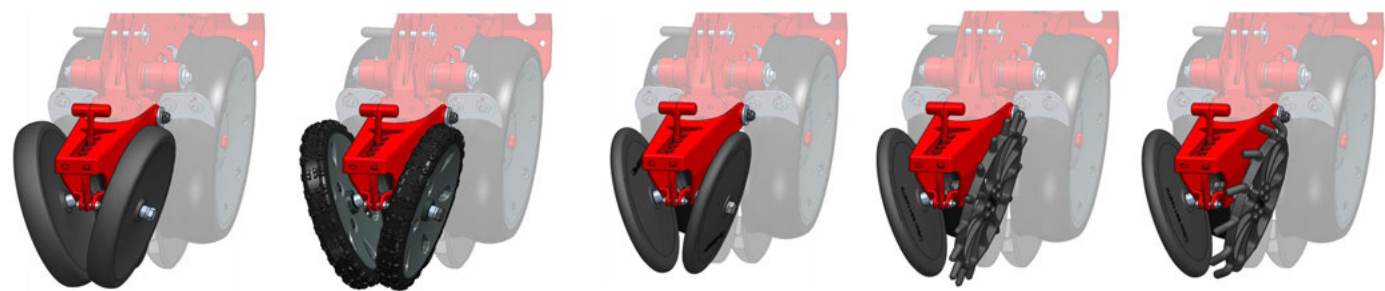
Easily accessible AirVac metering unit



SectionControl allows for switching the rows off and on automatically via GPS

Press wheels

FOR A BETTER EMBEDDING OF THE GRAINS



V-pressure wheels wide: for lighter soils
V-pressure wheels wide with profile: for light soils and fine seeds (beet and rape)
V-pressure wheels narrow: for normal conditions
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 ideal for heavy and medium soils
- Spike press wheel for medium to light sites
- There is one finger / spike wheel and one standard wheel per row to control the depth and to avoid moving the grains.
- However, the wheels are not suitable for shallow sowing.
- If the furrow wall gets compacted because of the DoubleDisc seed coulters, it is broken by the finger / spike wheel – the furrow is removed.
- Seed furrow is not opened after sowing under dry conditions, especially on heavy clayey sites
- Development of the maize root is encouraged



V-pressure wheels wide



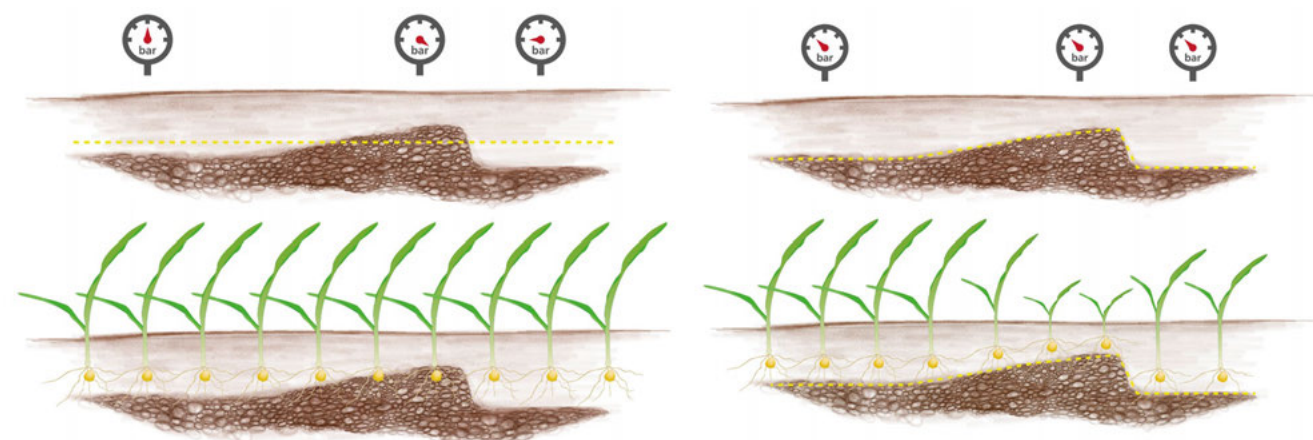
Spike wheel



Finger wheel

AutoForce

OPTIMUM EMBEDDING DESPITE CHANGING SOIL CONDITIONS



With AutoForce: optimum pressure – optimum sowing depth
Without AutoForce: constant pressure – irregular placement

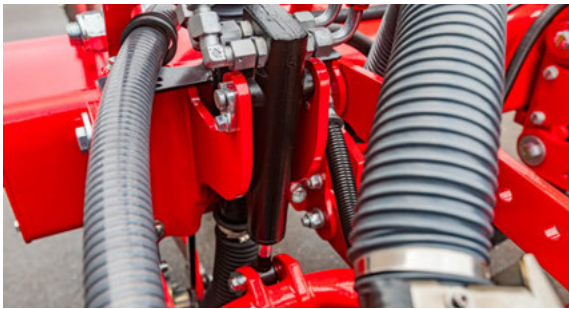
What do you need an automatic coulter pressure control for?

- 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. The coulter pressure has to be adapted to each section of the field.
- 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. You can choose between three pressure levels: 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. Thus, the grain is always embedded at the same level. A too shallow placement as well as soil compaction can thus be avoided.



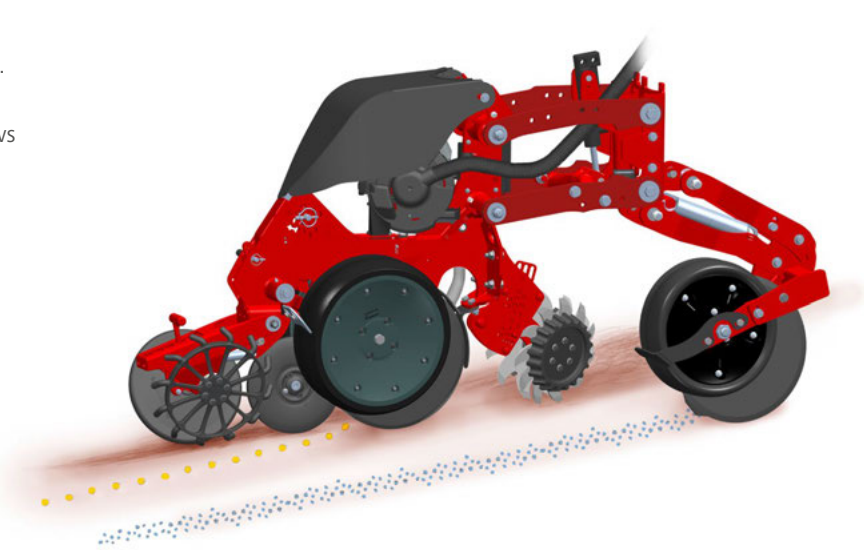
The Piezo sensor in detail



Hydraulic coulter pressure cylinder

FERTILISER AND MICRO-GRANULAR COMPOUND APPLICATIONS

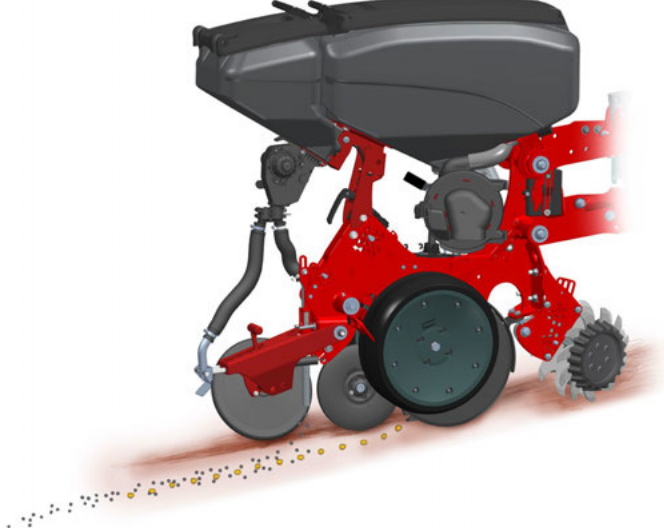
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Single disc fertiliser coulters controlled via its own parallelogram



Application ON the row



Application IN the row



SingleDisc fertiliser coulters

SingleDisc fertiliser coulters

- The SingleDisc fertiliser coulters is suspended independently of the seed row
- The placement depth can be set to 5 to 9 cm
- Quick adaption of the coulters pressure without tools from 40 to 140 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 large, shallow distribution of underseed or slug pellets



Micro-granular unit on the row with both application spots

DIGITAL SERVICES

Metering disc selection

- Maximum flexibility – the use of different metering discs allows for sowing different 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!



Rotor selection

- Facilitates the selection of the optimum rotor for any application
- Wide selection range from normal seeds to fine seeds to fertiliser and micro-granular compound
- Expert mode to carry out rotor configurations also for variable operating speeds and application rates



eosT10 (Pro)

- High-resolution 10" terminal for controlling all ISOBUS devices according to ISO 11783
- Reliable and powerful: a high-performance hardware combined with an intuitive, user-friendly operation in daytime or night mode
- Straightforward transfer of application maps with the wireless Task Data Exchange
- Various layout options allow for a simultaneous display of several applications – for an optimum overview
- eosT10 and eosT10 Pro – one hardware, completed by two licence kits. Precision is always standard for us.

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 terminal eosT10 Pro



Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin

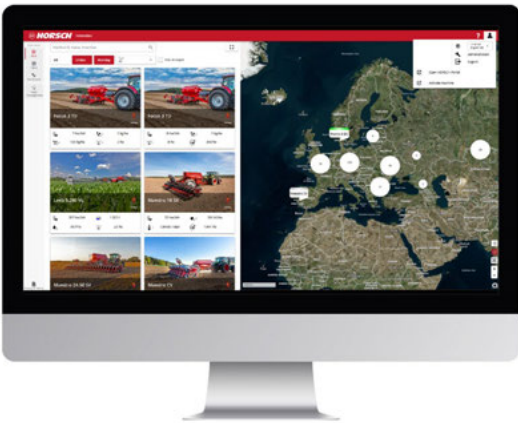


Drill independent of the track rhythm with HORSCH AutoLine!

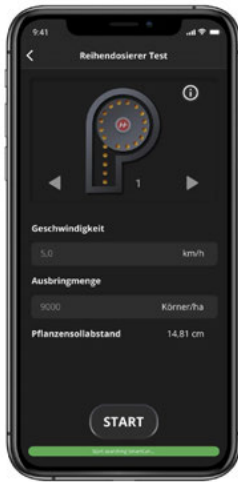
HorschConnect

Prepare today for tomorrow. Control different machine functions quite easily via the MobileControl app – your smartphone replaces the terminal! In addition, gain complete, transparent insight in all aspects of work performance and working quality with HorschConnect Telematics.

- Digital solutions exactly where they make sense
- Straightforward out-of-the-box solution with integrated SIM card, WLAN modem and other interfaces
- 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, and exact documentation of the singulation quality
- Targeted and proactive service due to remote access of the error messages
- Control of machine functions via the smartphone app MobileControl: e. g. the calibration of all metering units and the control of the individual rows to check the singulation quality before starting to sow or while sowing



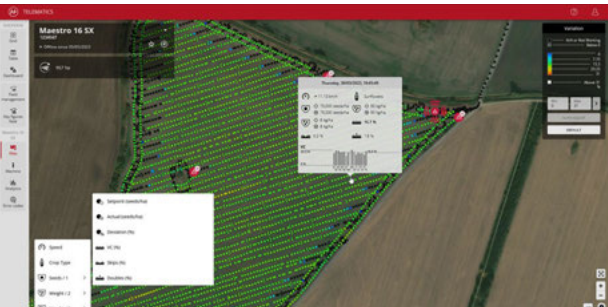
With HorschConnect telemetry solutions can be found in the sowing and plant protection sector – exactly where they make sense



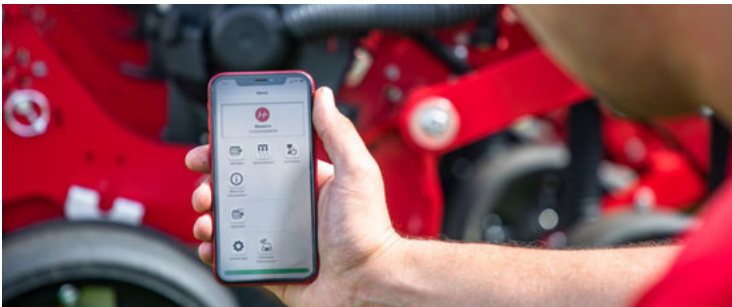
By means of the MobileControl app a test of the most important parameters of the singulation quality can be carried out any time.



Always keep an eye on machine performance and daily performance with HorschConnect Telematics



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



Quick and easy calibration or testing the singulation quality of the machine via smartphone with the MobileControl 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 no-till conditions



Standard depth control wheel for normal soils



Microgranular row container with a capacity of 20 l



Granulate metering unit with metering insert

TECHNICAL DATA

Maestro TX	6 TX	7 TX
Transport width (m)	3.00	3.00
Transport height (m)	2.70 - 3.70	2.70 - 3.70
Transport length (m)	2.80	2.80
Weight (kg)	2275	2500
Hopper capacity fertiliser (l) (l)	1300	1300
Feed opening fertiliser hopper (m)	0.65 x 2.40	0.65 x 2.40
Capacity seed container (l)	70	70
Number of rows	6	7 / 6 + 1
Max. coulter pressure with hydr. pressure adjustment (kg)	150 - 220	150 - 220
Max. coulter pressure with weight transfer (kg)	150 - 300	150 - 300
Depth control wheel Ø (cm)	40	40
Press wheels Ø (cm)	30 / 33	30 / 33
Catching roller	Standard	Standard
Row spacing (cm)	45 / 50 / 55 / 60 / 70 / 75 / 80	37,5 / 40 / 45 / 50 / 55 / 60 / 65 (with 6 rows 75 / 80)
Sowing depth (cm)	1.5 - 9	1.5 - 9
Operational speed (km/h)	6 - 15	6 - 15
Horsepower requirement (kW/hp)	95 / 130	95 / 130
Implement attachment 3-point	3-point Cat. III	3-point Cat. III
Depressurized return flow (max. 5 bar)	1	1
DA control devices	DA hydr. telescopic frame incl. bout marker, 1 DA hydr. fan direct drive overpressure with adjustable flow rate, 1 DA hydr. filling auger (option)	DA hydr. telescopic frame incl. bout marker, 1 DA hydr. fan direct drive overpressure with adjustable flow rate, 1 DA hydr. filling auger (option)
Oil quantity hydr. fan overpressure (l/min)	max. 30	max. 30
Power requirement in operation (###NO_TRANSLATION-A###)	32.5	32.5
Power requirement max. (###NO_TRANSLATION-A###)	55	55





Your distributor

Statements from our customers
all over the world



ExperienceTour
MAESTRO

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

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