

Maestro RV / RX

 **HORSCH**



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



Maestro RV / RX

PROFESSIONAL TECHNOLOGY FOR 3-POINT LINKAGE

- Versatile single grain seed drill for: maize, sunflowers, sugar beet, sorghum, rapeseed, soybeans and other bean species
- Coulter pressures up to 350 kg for optimum seeding even in most difficult conditions (only with weight transfer) or automatic, soil-dependent coulter pressure adjustment AutoForce
- Rugged and reliable technology – heavy parallelogram and row unit for highest demands
- High work rate due to a high range in combination with the HORSCH Partner FT models
- Compact unit with low demands on the tractor



The coulter attachment of the Maestro RV/RX can be equipped with 6, 8 and 9 rows with a row spacing of 70, 75 and 80 cm. When used with 12 rows, spacings of 45 and 50 cm are available. The newly developed clamping profile allows for a simple conversion from 12 to 8 rows. A 11-row coulter attachment with a row spacing of 50/55 or 60 cm is also possible.

The 3-point Maestro can be combined with a HORSCH Partner FT to apply underground fertiliser. The Partner 1600 FT is a pressurised single hopper with a capacity of 1 600 l. The Partner 2000 FT is a pressurised double hopper and, in addition to fertiliser, can take along another component, e.g. microgranular compound. The total capacity of 2 200 l can either be divided by 60:40 or 75:25. All HORSCH front hoppers can be combined with further HORSCH machines to use them to full capacity.

In addition to the attachment to the tractor, the Maestro RV and RX models can also be combined with different seed wagons. For example, it is possible to mount the machines on a Pronto 6 AS. Levelling, efficient seedbed preparation with the DiscSystem and single grain seeding in one pass with a very high range of fertiliser with a hopper capacity of 3 500 l or 5 000 l. The Maestro RV can also be combined with the HORSCH Focus TD 3-point. This combination is frequently used for the StripTill seeding of for example maize after whole crop silage. Previous tillage is not required and the StripTill method allows for saving soil water.

As standard, the row body of the Maestro RV/RX is equipped with a wide, solid parallelogram and a hydraulic cylinder to generate coulter pressure. Coulter pressures up to 200 kg per row can be generated manually at the terminal or fully automatically with the innovative coulter pressure regulation system HORSCH AutoForce. With the optional integrated weight transfer or when transferring the tractor weight by e.g. double-acting lower links to the Maestro, coulter pressures up to max. 350 kg per row can be achieved. When mounting a seed wagon, the machine weight of the seed wagon is always used to generate coulter pressure up to 350 kg per row.



Hydraulic coulter pressure adjustment for uncompromising embedding



StripTill seeding with the Maestro RV combined with the Focus TD 3-point

Row unit hoppers



Row unit hopper with a capacity of 70 l

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.

- Capacity of 70 l per row
- Rubber cover seal for pressure and water tightness
- Handle with push-button for opening/closing
- High latching position of the cover and large filling opening for easy filling



Lock row unit hopper



Cover seal row unit hopper



Large feed opening

Row unit

DURABLE – RELIABLE – SOLID



Robust Maestro row unit

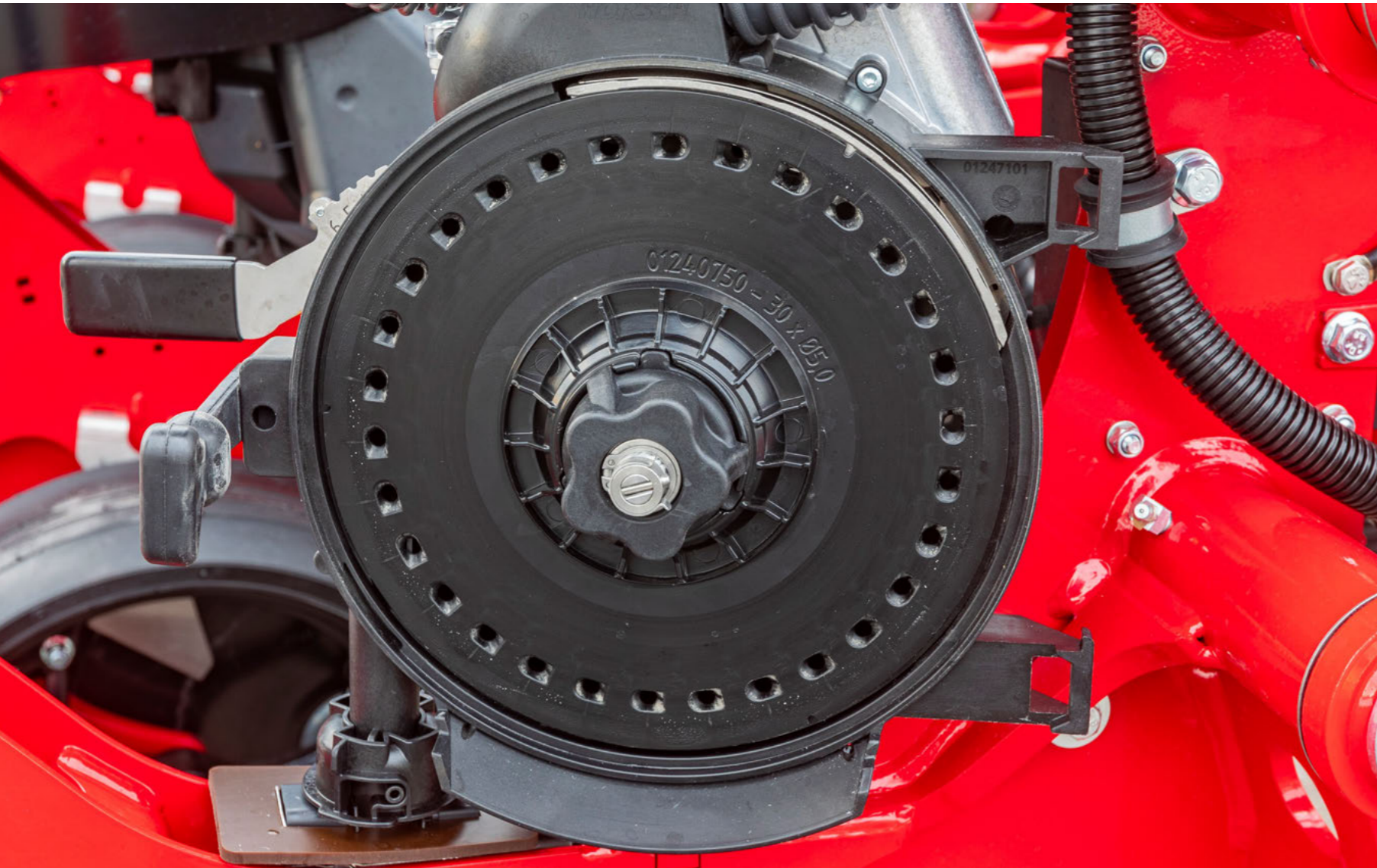
The Maestro row units mainly excel due to a long service life and a very stable design. With 35 cm the parallelogram is very wide so that especially laterally acting forces can be absorbed better. The maintenance-free bushes in the parallelogram are very large to guarantee a long service life. The row 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 coulters pressure is generated in the parallelogram of the row unit with a hydraulic cylinder. Coulters 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 coulters 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. In front of the disc blades, different front tools can be mounted on a standardised flange plate, e.g. trash wheels stars or a cutting disc.

- Hydraulic coulters 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. 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 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.

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:

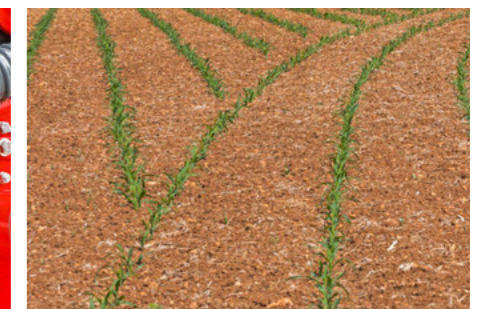
- Operational speeds up to 15 km/h
- Maximum efficiency with safe embedding of the grain



The universal singulator does not have to be adjusted



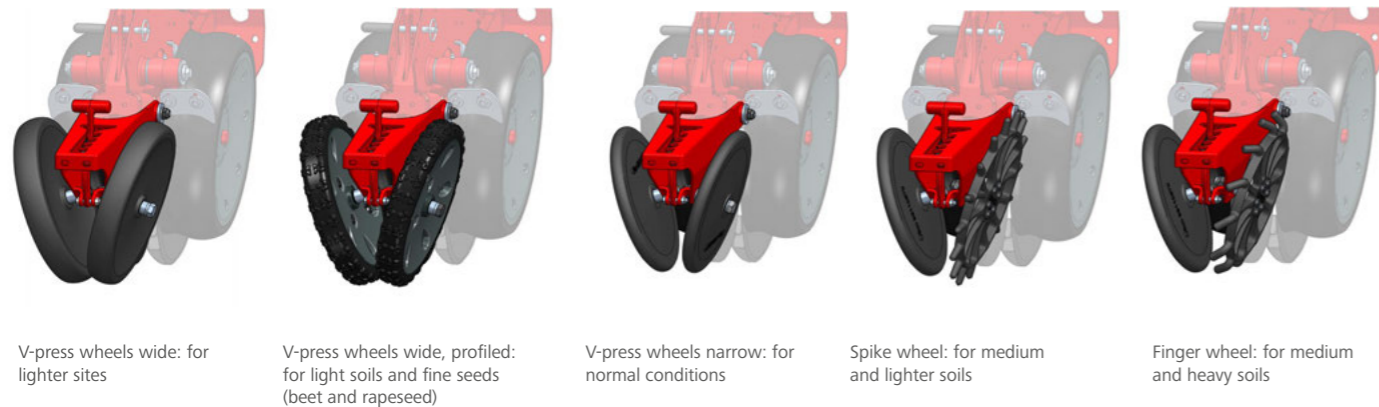
Easily accessible AirVac metering device



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

Press wheels

FOR A BETTER EMBEDDING OF THE GRAINS



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

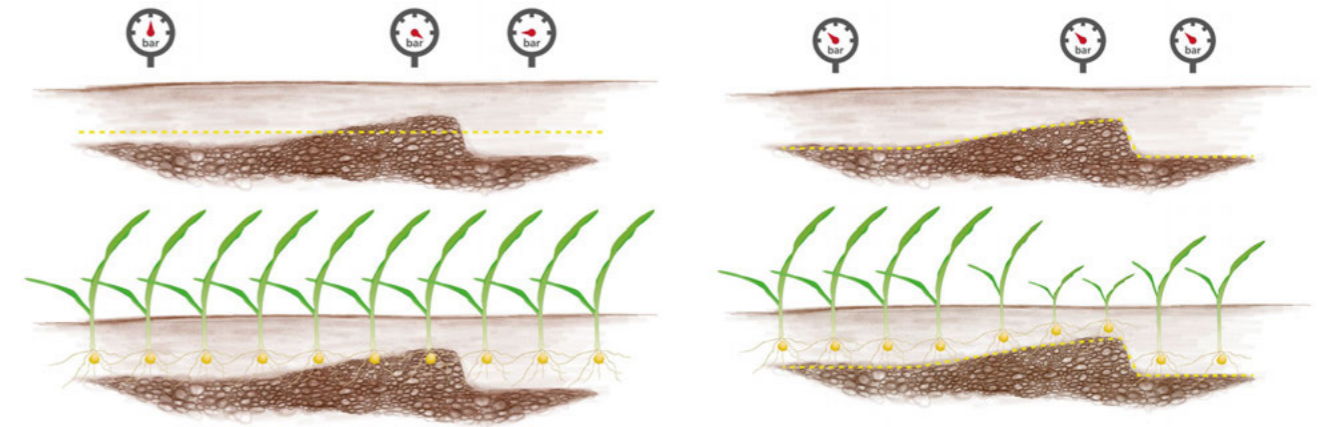
- The finger press wheel is ideal for heavy and medium soils
- Spike press wheel for medium to light sites
- Per row there is one finger/spike press wheel and one standard wheel to control the depth and to prevent the grains from moving.
- However, the wheels are not suitable for shallow sowing.
- If 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 seeding in dry conditions, especially 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 seed depth

Without AutoForce: constant pressure – uneven placement

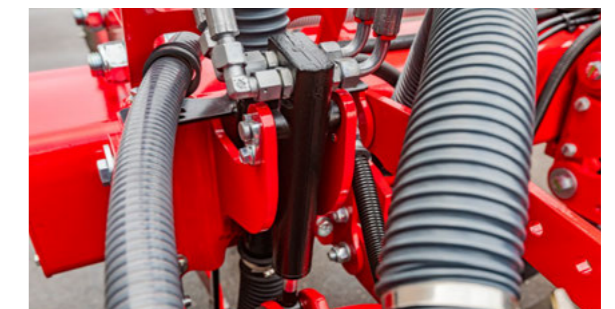
What do you need an automatic coulter pressure control for?

- 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 then varies automatically between 150 kg to 350 kg. The grain embedding is always carried out at the same level. Too shallow placement as well as soil compactions can be avoided.



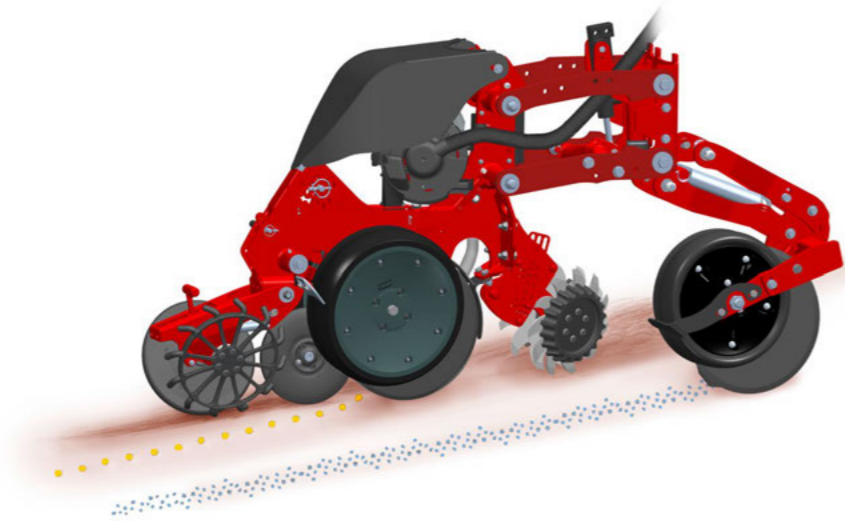
The Piezo sensor in detail



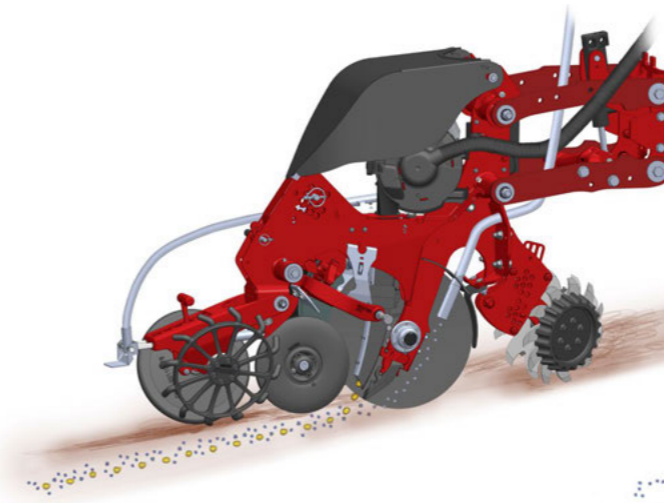
Hydraulic coulter pressure cylinder

FERTILISER AND MICRO-GRANULAR COMPOUND APPLICATIONS

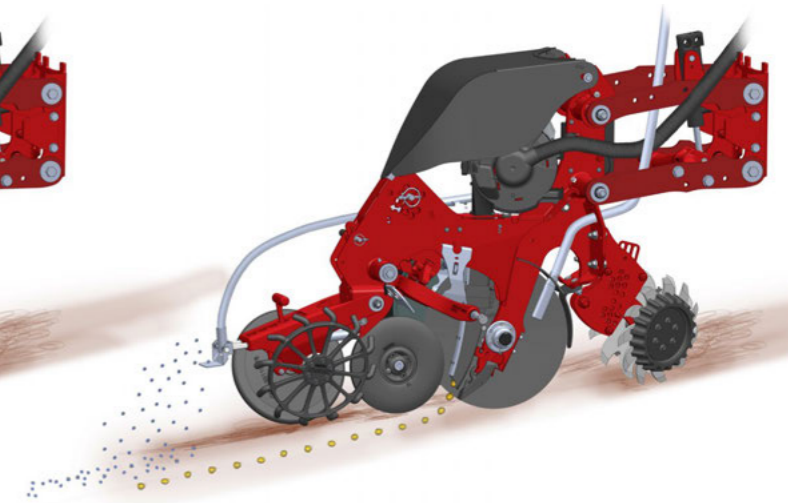
In addition to a precise placement of the grains the exact positioning of fertilisers or plant protection agents is very important for single grain sowing. The rows of the Maestros, thus, can be equipped with different components to provide an optimum solution for all requirements and demands.



Single disc fertiliser couler controlled via its own parallelogram



Pneumatic application IN the row



Pneumatic application ON the row



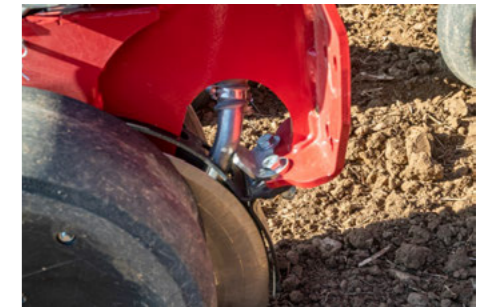
Single disc fertiliser couler

Single disc fertiliser couler

- The SingleDisc fertiliser couler is suspended independently of the seed row
- The placement depth can be set to 5 to 9 cm
- Quick adaption of the couler pressure without tools from 40 to 140 kg
- Deactivation is possible without tools by lifting the unit out of work

Application of micro-granular compound

- 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



Pneumatic application IN the row



Pneumatic application ON the row

INTELLIGENCE

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)

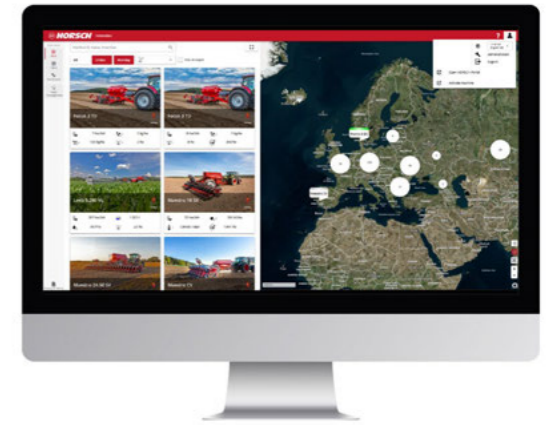
- High-resolution 10" terminal for controlling all ISOBUS devices according to ISO 11783
- Reliable and powerful: a high-performance hardware combined with an intuitive, user-friendly operation in daytime or night mode
- Straightforward transfer of application maps with the wireless Task Data Exchange
- 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

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.

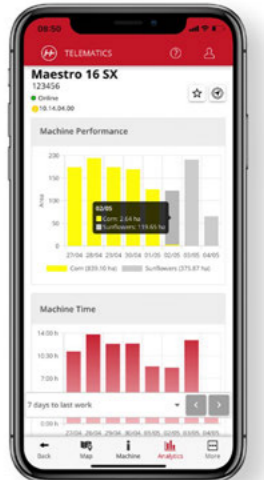


With HorschConnect telemetry solutions can be found in the sowing and plant protection sector – exactly where they make sense

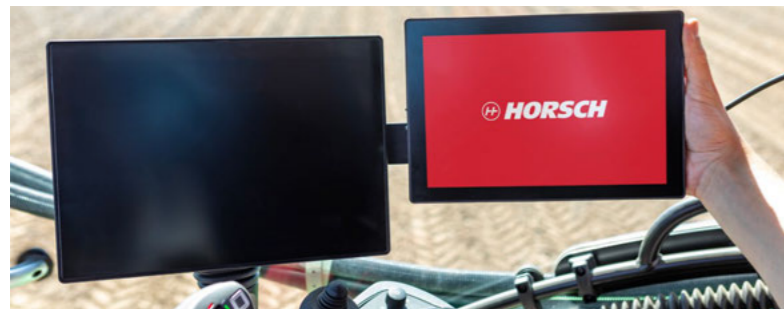
- Digital solutions exactly where they make sense
- Straightforward out-of-the-box solution with integrated SIM card, WLAN modem and other interfaces
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g the application rate of all components, and exact documentation of the singulation quality
- Control of machine functions via the smartphone app MobileControl
- Control of machine functions via smartphone app MobileControl: e.g. Calibration of all metering units and control of the individual rows to check the singulation quality before starting to seed or in between



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



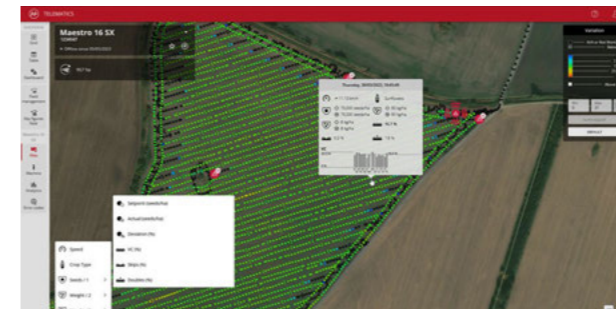
Always keep an eye on machine performance and daily performance with HorschConnect Telematics



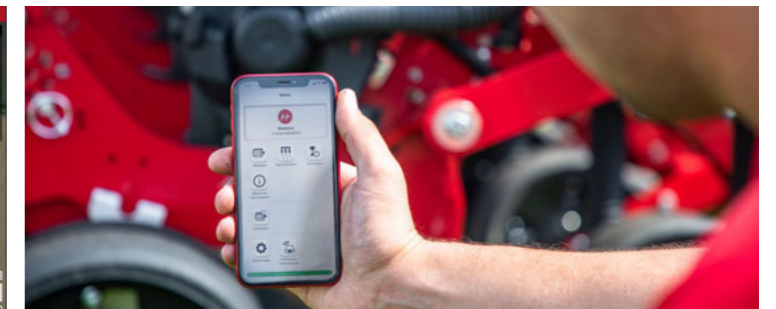
Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin



Drill independent of the track rhythm with HORSCH AutoLine!



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



With seed wagon attachment, a coulter pressure of up to 350 kg is available



The catching roller is essential for a good seed-soil contact



Optional trash wheels, floating with depth control



Maestro 8 RV with Partner FT during transport

TECHNICAL DATA

Maestro RV / RX	6 RV	8 RV	9 RV	12 RV	6 RX	8 RX	9 RX	12 RX
Transport width (m)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Transport height (m)	3.10	3.90	4.00	3.90	3.10	3.90	4.00	3.90
Length without seed wagon (m)	2.90 (3.50 incl. micro-granular compound hopper)	2.90 (3.50 incl. bout markers or micro-granular compound hopper)	2.90 (3.50 with bout markers)	2.90 (3.50 incl. bout marker or micro-granular compound hopper)	2.90 (3.75 incl. micro-granular compound hopper)	3.30 (3.75 incl. bout markers or micro-granular compound hopper)	3.30 (3.75 with bout markers)	3.30 (3.75 incl. bout marker or micro-granular compound hopper)
Transport length with Pronto 6 AS (m)	---	10.85	---	10.85	---	10.95	---	10.95
Transport length with Focus TD 3-point (m)	---	11.25	---	11.25	---	---	---	---
Transport length with Focus ST 3-point (m)	---	11.15	---	11.15	---	---	---	---
Weight without seed wagon (kg)	1600	2000	2200	2700	1900	2300	2450	3000
Weight with Pronto 6 AS (kg)	---	6700	---	7500	---	7000	---	7800
Weight with Focus TD 3-point (kg)	---	11200	---	11900	---	---	---	---
Weight with Focus ST 3-point (kg)	---	11500	---	---	---	---	---	---
Capacity seed container (l)	70	70	70	70	70	70	70	70
Number of rows	6	8	9	12	6	8	9	12
Max. coulter pressure hydr. tractor attachment (kg)	150 - 180	150 - 180	150 - 180	150 - 180	150 - 180	150 - 180	150 - 180	150 - 180
Max. coulter pressure hydr. with optional weight transfer tractor attachment (kg)	---	---	---	---	150 - 310	150 - 290	150 - 280	150 - 240
Max. coulter pressure hydr. with seed waggon (kg)	---	150 - 350	---	150 - 350	---	150 - 350	---	150 - 350
Depth control wheel Ø (cm)	40	40	40	40	40	40	40	40
Press wheels Ø (cm)	30 / 33	30 / 33	30 / 33	30 / 33	30 / 33	30 / 33	30 / 33	30 / 33
Catching roller	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Row spacing (cm)	70 / 75 / 80	70 / 75 / 80	60 / 70 / 75	45 / 50	70 / 75 / 80	70 / 75 / 80	60 / 70 / 75	45 / 50
Sowing depth (cm)	1.5 - 9	1.5 - 9	1.5 - 9	1.5 - 9	1.5 - 9	1.5 - 9	1.5 - 9	1.5 - 9
Drop height seed (cm)	45	45	45	45	45	45	45	45
Operational speed (km/h)	2 - 12	2 - 12	2 - 12	2 - 12	2 - 15	2 - 15	2 - 15	2 - 12
Horsepower requirement (kW/hp)	74 / 100	110 / 150	118 / 160	125/170	81 / 110	118 / 160	125 / 170	132/180
Horsepower requirement Pronto 6 AS without DiscSystem (kW/hp)	---	125 / 170	---	140/190	---	132 / 180	---	147/200
Horsepower requirement Pronto 6 AS with DiscSystem (kW/hp)	---	147 / 200	---	184/250	---	162 / 220	---	184/250
Horsepower requirement Focus TD 3-point (kW/hp)	---	221 / 300	---	257/350	---	---	---	---
Horsepower requirement Focus ST 3-point (kW/hp)	---	184 / 250	---	---	---	---	---	---
Implement attachment 3-point	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III



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MAESTRO

HORSCH Maschinen GmbH
Sitzenhof 1 · 92421 Schwandorf
Phone: +49 9431 7143-0
Fax: +49 9431 7143-9200
E-Mail: info@horsch.com

horsch.com

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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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