



Maestro DV

PRECISE SINGLE GRAIN SEEDING TECHNOLOGY





Maestro DV

PRECISE – VERSATILE – COMPACT

- Versatile single grain seed drill for: maize, sunflowers, sugarbeet, soybeans, rapeseed
- Rugged and reliable technology – heavy parallelogram and row unit for highest demands
- Coulter pressures up to 300 kg for safe sowing even in difficult conditions or, as an option, automatic, soil-dependent coulter pressure adjustment AutoForce with coulter pressures up to 350 kg per row
- High work rate due to high range for fertiliser and seed
- Compact unit with low demands on the tractor



The very compact Maestro DV unit that consists of a high-capacity seed wagon and a seed bar with a working width of up to 6 m with a 8 or 12-row coulter attachment provides high efficiency whereas the demands on the tractor are comparatively low. By mounting the seed bar via a 4-point linkage, there is also the possibility to mount a NT or TD CoulterBar with a working width of 4, 5, or 6 m for broadcast seeding methods or an Avatar SL. Thus, the Maestro DV seed wagon can be used year-round for sowing all types of crops.

To optimally meet all customer requirements, the seed wagon of the Maestro DV can be delivered in two configurations: single hopper for fertiliser, pressurised double hopper for two components.

The hopper of both versions is equipped with the well-proven HORSCH metering technology and can reliably and precisely feed the underground fertilisation system or the seed bar of the Maestro.

The row body of the Maestro DV is equipped with a wide, solid parallelogram and a spring to generate coulter pressure as standard. Coulter pressures up to 300 kg per row can thus be generated mechanically. Optionally, the machine can be equipped with hydraulic cylinders to generate coulter pressure. Thus, the innovative coulter pressure control system AutoForce allows for adjusting the coulter pressure up to a maximum of 350 kg per row. The weight of the seed wagon is used to generate the coulter pressure over the whole width of the machine and lifts the seed wagon wheels while sowing.

Due to the varied equipment options, the Maestro DV can be adapted to the farm-specific requirements. Thus, a filling auger for fertiliser is available, the working lighting WorkLight Pro for optimal visibility at night, or a central microgranular unit with a capacity of 300 l to apply another component alongside fertiliser and seeds.



Double hopper system with a capacity of 3 500 l



Single disc fertiliser coulter, spokes depth control wheel, and finger roller ideal for brown soil

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 container



Cover seal row unit hopper



Large feed opening

Row unit

DURABLE – RELIABLE – SOLID



Robust Maestro row unit

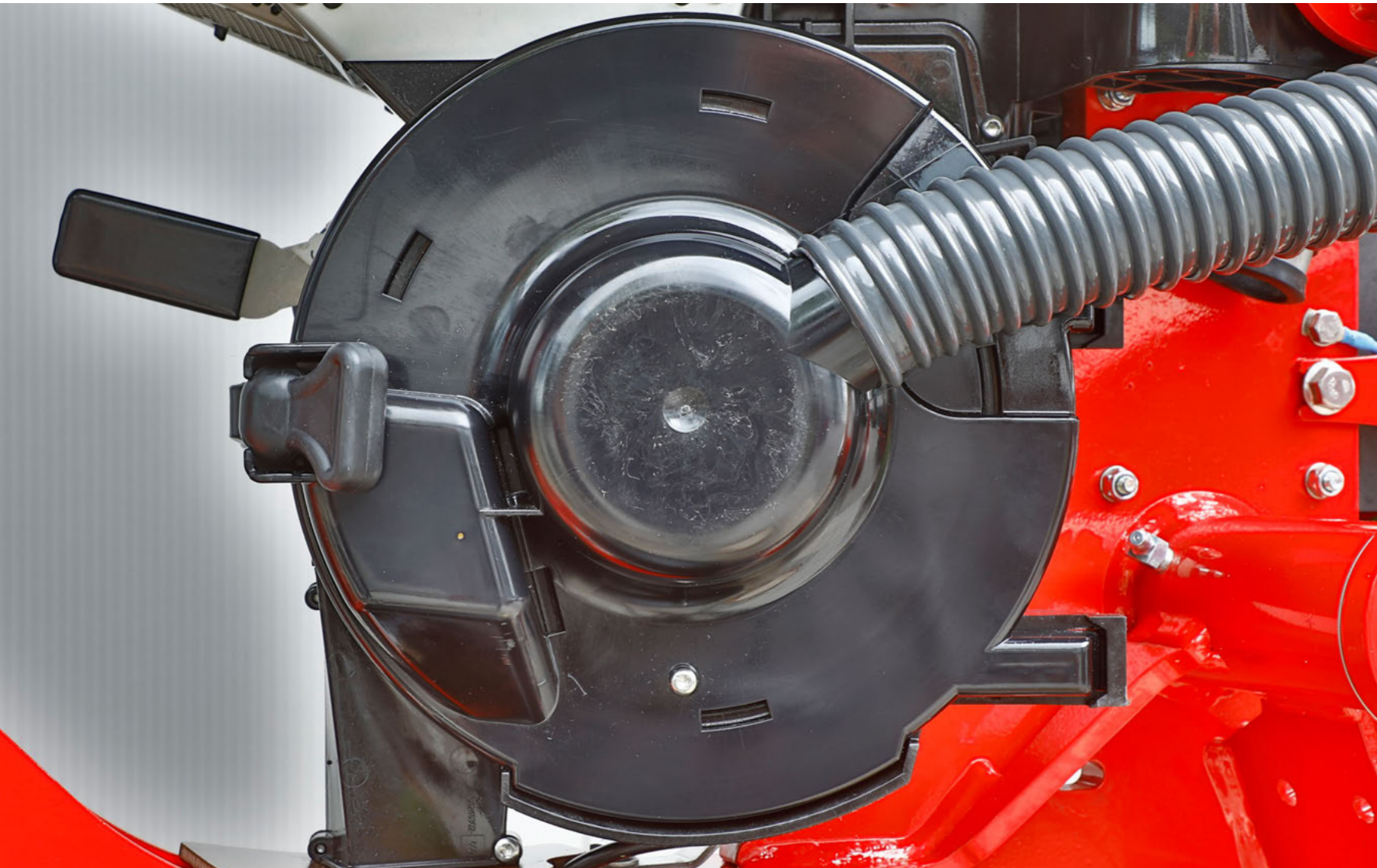
The Maestro row units mainly excel due to a long service life and a very stable design. With 30 cm the parallelogram is very wide so that especially laterally acting forces can be absorbed better. The maintenance-free bushes in the parallelogram are very large to guarantee a long service life. The row 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 with 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

WITH AIRVAC SYSTEM – PRECISE – VERSATILE



The AirVac metering device can be used universally for a precise grain singulation. Due to different metering discs, maize, sunflowers, sugar beet, soybeans and rape can be singulated reliably.

The AirSpeed system works according to the overpressure principle where the grains are pressed to the 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 AirVac scraper is that the user does not have to carry out any adjustments. The contour of the scraper has been optimised in such a way that a reliable singulation for all crops is ensured.

Via a drop tube, the AirVac metering device leads the seed to the bottom of the furrow. A grain sensor is integrated in 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 AirVac singulator 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 AirVac system has been designed in such a way that the seed rate can be modified for every single 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 features, all measures to increase precision while sowing can be fully utilized.

- AirVac – the new generation of vacuum singulation
- Can be used universally for different crops
- High precision for sowing speeds up to 12 km/h
- Easy to use: no adjustment of the scraper required

- Electric drive as a basis for
 - SectionControl
 - VariableRate
 - Tramline control



Easily accessible metering units with different metering discs depending on the type of crop



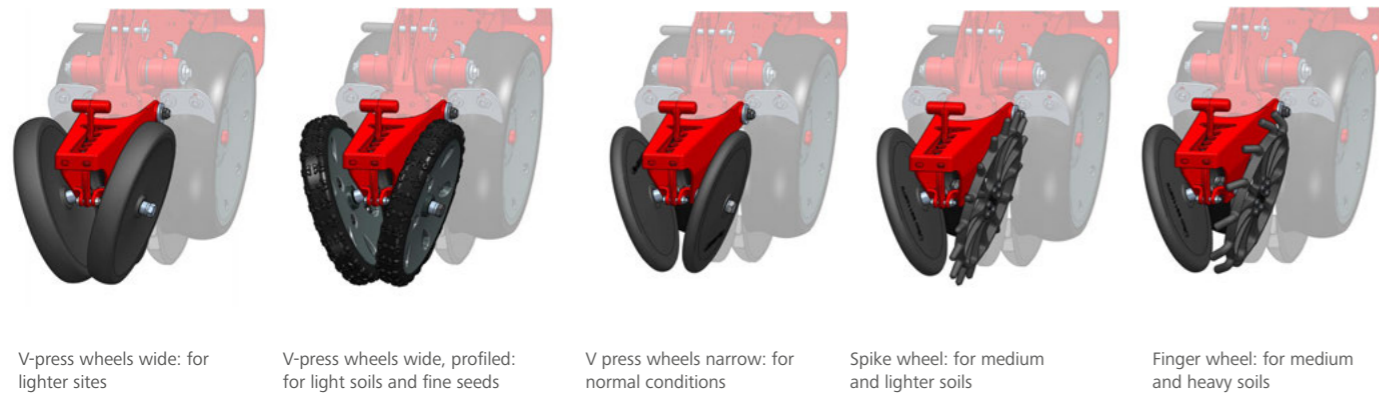
Easy operation, few settings required



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

V-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.

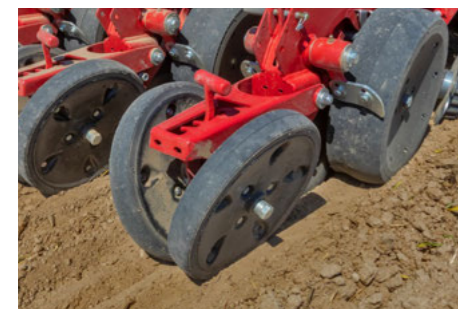
Which press wheel is suitable for which application?

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 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 DoubleDisc seed coulters, it is broken by the finger / spike wheel – the furrow is removed.
- No opening of the seed furrow after seeding in dry conditions, especially on heavy, clayey sites
- Development of the maize root is encouraged



V press wheels wide



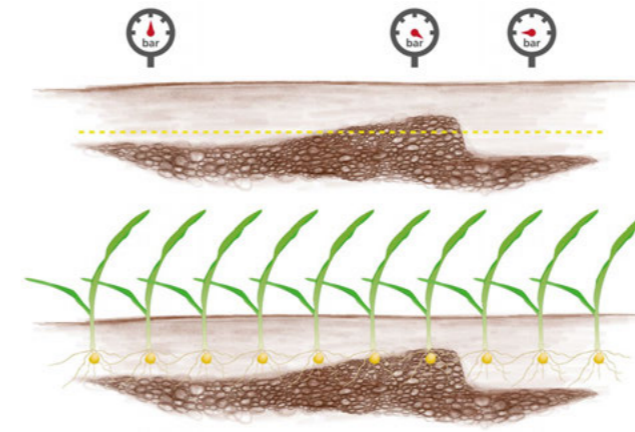
Spike wheel



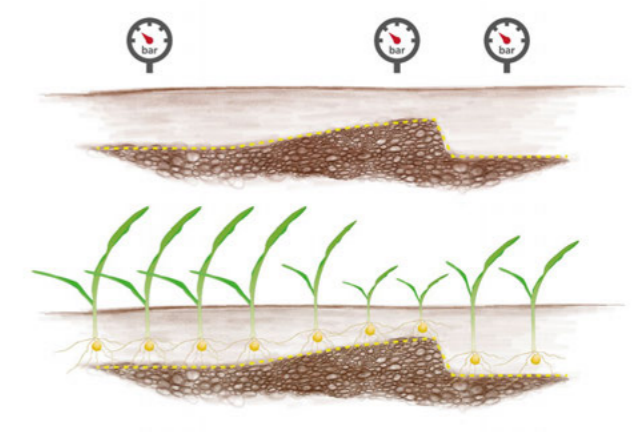
Finger wheel

AutoForce

OPTIMUM EMBEDDING DESPITE CHANGING SOIL CONDITIONS



With AutoForce: optimum pressure – optimum seed depth



Without AutoForce: constant pressure – uneven placement

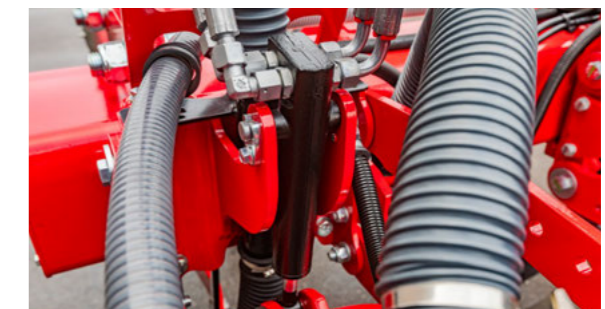
What do you need an automatic coulter pressure control for?

- 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.



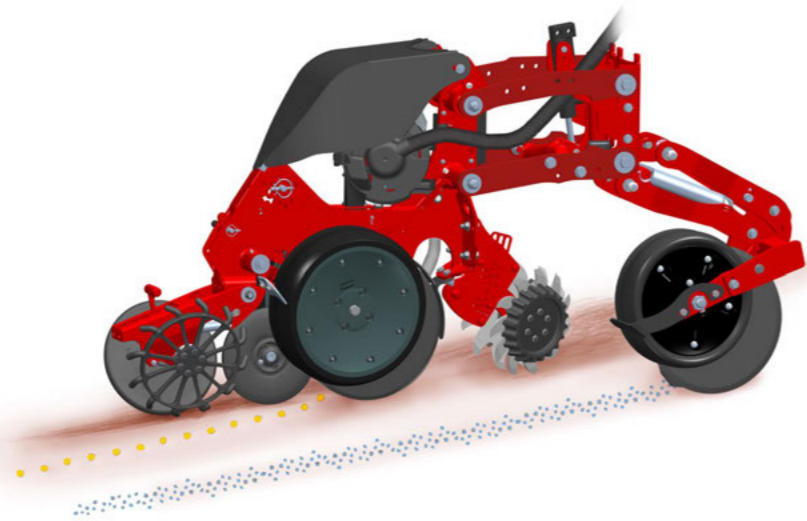
The Piezo sensor in detail



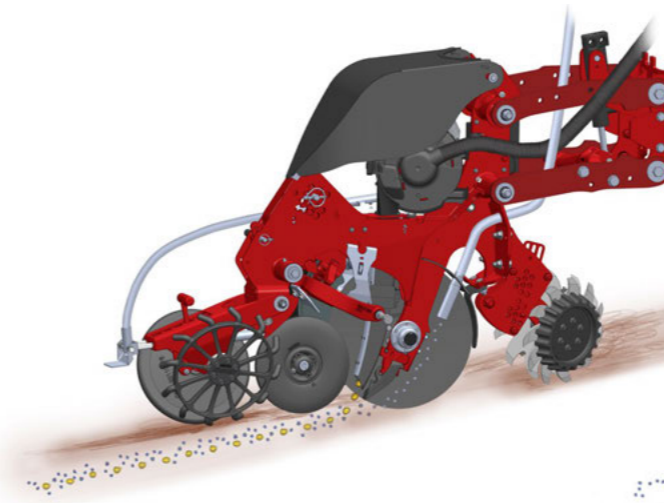
Hydraulic coulter pressure cylinder

FERTILISER AND MICROGRANULAR APPLICATIONS

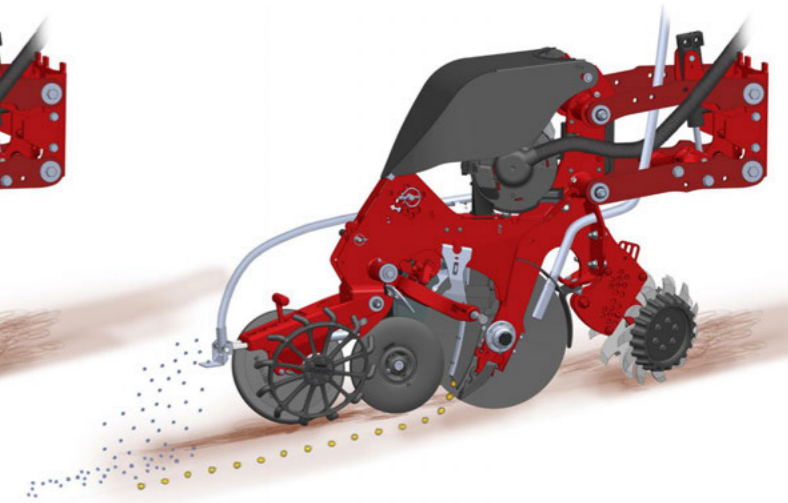
In addition to a precise placement of the grains the exact positioning of fertilisers or plant protection agents is very important for single grain sowing. The rows of the Maestros, thus, can be equipped with different components to provide an optimum solution for all requirements and demands.



Single disc fertiliser coulters controlled via its own parallelogram



Pneumatic application IN the row



Pneumatic application ON the row



Single disc fertiliser coulters

Single disc fertiliser coulters

- The SingleDisc fertiliser coulters is suspended independently of the seed row
- Placement depth adjustable from 5 to 9 cm
- Quick, tool-free adjustment of the coulters pressure from 40 to 130 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

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

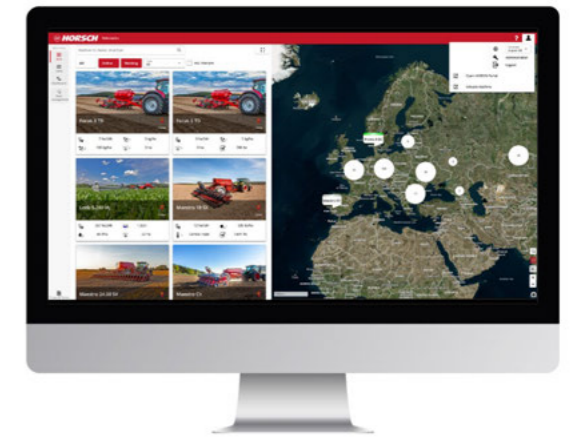
- Automatic, GPS-based tramline control
- Optimised driving strategy near obstacles or on the headlands
- Track-to-track driving is no longer required
- Available in combination with the eosT10 Pro terminal or other tramline-capable ISOBUS terminals



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

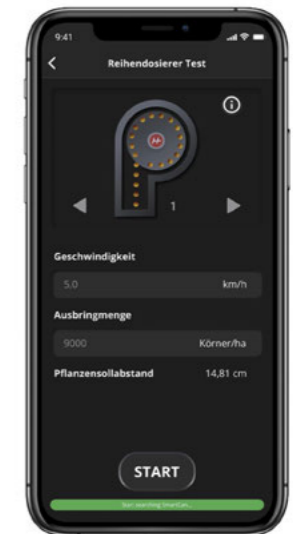
HorschConnect

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.

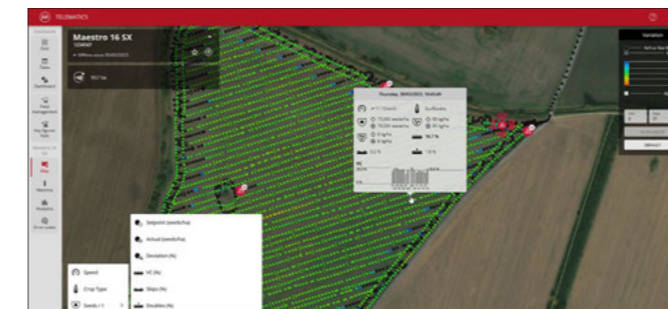


With HorschConnect, telemetry solutions are making their way into the sectors seeding and crop care – exactly where they make sense

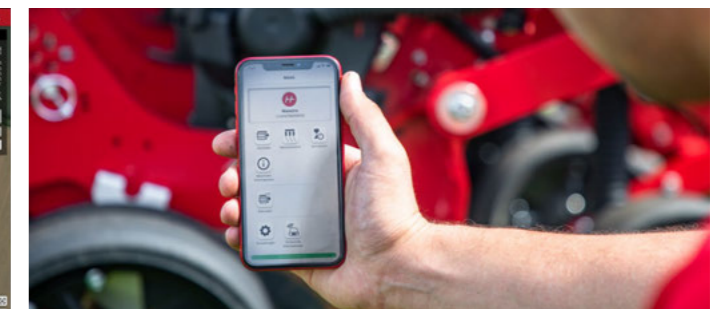
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g. the application rate of all components
- Targeted and proactive service by remote access to error messages
- Control of machine functions via the HORSCH 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



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

4-point cut-off point at the seed waggon

FOR UNIVERSAL USE

With the integrated 4-point cut-off point at the Maestro DV, the seed wagon can be used universally for all seeding tasks. Thus, the machine can be used for all crops all year

long. With the pressurised double hopper system of the Maestro DV, two different products (e.g. seed and fertiliser) can be applied at the same time as Grain & Fertiliser System.

- 4-point cut-off point between seed hopper and seed bar
- Quick-coupler for hydraulics
- Plug and cut-off points for electronics & pneumatics
- Simple conversion from Maestro seed bar to row seeding bars



Clear cut-off point for hydraulics and pneumatics



4-point cut-off point at the DV

Changeable seed bar TD CoulterBar

TO ENSURE MAXIMUM UTILISATION OF THE SEED WAGON WITH THE OFFSET SEEDING METHOD



The 4-point seed bar TD CoulterBar can be attached to all Maestro DV with pressurised double hopper. With the offset seeding method, it can be used for row seeding for all types of cereals. The front RollFlex packer ensures good consolidation and enough fine soil. The double hopper system of the Maestro DV allows for a Grain & Fertiliser application via the TurboDisc coulters.

- RollFlex packer with TurboDisc coulters bar (up to 120 kg coulters pressure)
- 6 m working width, hydraulically folded
- Optional: 4 track eradicator tines (spring-loaded)
- Fertiliser/seed flow control, tramline control possible



6 TD CoulterBar for offset row seeding at Maestro DV



The seed bar can be equipped individually with tramline flaps

Changeable NT CoulterBar

FOR MAXIMUM UTILISATION OF THE SEED WAGON
FOR MULCH OR DIRECT SEEDING



The different NT CoulterBars with a working width of 4, 5 or 6 m can be mounted on all Maestro DV with pressurised double hopper. The 4-point seed bars are equipped with various corrugated discs that prepare the seed furrow. Thus, they are ideal for offset mulch or direct seeding systems. With the seed bars, all types of cereals can be applied with row seeding in combination with the Maestro DV seed wagon. The double hopper system of the Maestro DV allows for a Grain & Fertiliser application via the TurboDisc coulters.

- Corrugated discs with TurboDisc coulters (up to 120 kg coulters pressure)
- 4 & 5 m version rigid, 6 m version hydraulically folded
- Corrugated disc system to prepare the seed furrow (coulters pressure up to 200 kg)
- Ø 18" 13 x corrugated – ideal for light, sandy soils
- Ø 18" 25 x corrugated – ideal for medium, heavier soils
- Ripple Ø 17" Yetter discs
- Additional ballast is possible for more coulters pressure



The NT CoulterBars are also ideal for direct seeding



Additional weights for the NT CoulterBar

Changeable seed bar Avatar SL

FOR MAXIMUM UTILISATION OF THE SEED WAGON
FOR MULCH OR DIRECT SEEDING



The Avatar SL 4-point seed bar with a working width of 6 m can be mounted on all Maestro DV with pressurised double hopper. The well-proven SingleDisc seed coulters are ideal for heavy, stony, and hard conditions in mulch or direct seeding. The double hopper system of the Maestro DV allows for a grain & fertiliser application via the SingleDisc coulters.

- 4-point direct seed bar with the well-proven SingleDisc coulters
- Optimal embedding in direct seeding conditions
- Row width: 25 or 30 cm
- Coulters pressure up to 240 kg
- Optional front trash wheels
- 6 m working width, hydraulically folded



Solidly built SingleDisc seed coulters for mulch and direct seeding



Optional trash wheels in front of the coulters

ADDITIONAL EQUIPMENT



The filling auger can be used for both fertiliser hoppers of the Maestro DV



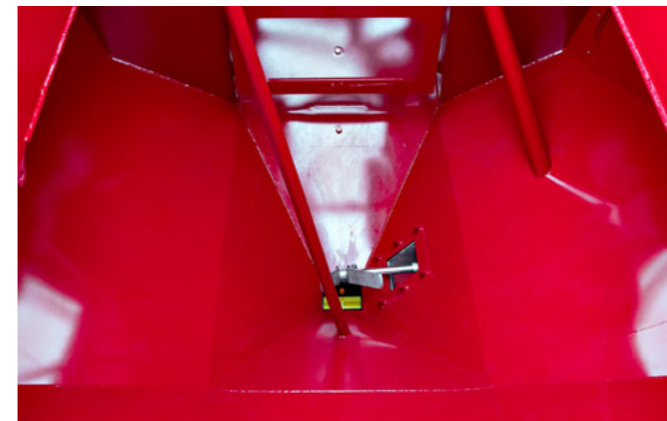
Maestro DV with cut-off point for flexible use



Spokes depth control wheel: better self-cleaning, thus ideal on black earth soils



Optional trash wheels, floating with depth control



Agitator shaft fertiliser hopper inside



Agitator shaft fertiliser tank external

TECHNICAL DATA

Maestro DV	6 DV	8 DV	12 DV
Number of rows	6	8	12
Transport width with 2.45 m track (m)	3,00	3,00	3,00
Transport width with 2.80 m track (m)	3,35	3,35	3,35
Transport width with 3.00 m track (m)	3,55	3,55	3,55
Transport height (m)	3,10	3,90	3,90
Transport length (m)	7,50	7,50	7,50
Weight (kg)	3400	3750	4650
Hopper capacity seed wagon single hopper version (l)	2800	2800	2800
Hopper capacity seed wagon double hopper version (l)	3500	3500	3500
Feed opening seed wagon single hopper version (m)	1,00 x 2,40	1,00 x 2,40	1,00 x 2,40
Feed opening seed wagon double hopper version (m)	0.60 x 0.90 each	0.60 x 0.90 each	0.60 x 0.90 each
Capacity seed container (l)	70	70	70
Coulter pressure mechanical (kg)	150 - 300	150 - 300	150 - 300
Coulter pressure hydraulic (kg)	150 - 350	150 - 350	150 - 350
Depth control wheel Ø (cm)	40	40	40
Press wheels Ø (cm)	30 / 33	30 / 33	30 / 33
Catching roller	Standard	Standard	Standard
Row spacing (cm)	70 / 75	70 / 75	45 / 50
Sowing depth (cm)	1,5 - 9	1,5 - 9	1,5 - 9
Drop height seed (cm)	45	45	45
Tyre size seed waggon	550/60-22.5/twin tyres 270/95 R 32	550/60-22.5/twin tyres 270/95 R 32	550/60-22.5/twin tyres 270/95 R 32
Operational speed (km/h)	2 - 12	2 - 12	2 - 12
Horsepower requirement (kW/hp)	59 / 80	75 / 100	88 / 120
DA control devices	1 DA hydraulic functions, 1 DA hydraulic fan Direct drive fertiliser and vacuum with adjustable flow rate, 1 DA hydraulic filling auger single hopper	1 DA hydraulic functions, 1 DA hydraulic fan Direct drive fertiliser and vacuum with adjustable flow rate, 1 DA hydraulic filling auger single hopper	1 DA hydraulic functions, 1 DA hydraulic fan direct drive fertiliser and vacuum with adjustable flow rate, 1 DA hydraulic filling auger single tank
Depressurized return flow (max. 5 bar)	1 with hydraulic fan direct drive fertiliser and vacuum	1 with hydraulic fan direct drive fertiliser and vacuum	1 with hydraulic fan direct drive fertiliser and vacuum
Oil quantity hydr. fan fertiliser and vacuum (l/min)	50	50	50
Implement attachment adjustable drawbar (mm)	Pin Ø 40	Pin Ø 40	Pin Ø 40
Adjustable drawbar linkage with ring hitch ball joint (mm)	Towing eye Ø 32 - 51	Towing eye Ø 32 - 51	Towing eye Ø 32 - 51

Maestro DV CoulterBars	4 NT CoulterBar	5 NT CoulterBar	6 NT CoulterBar	6 TD CoulterBar
Working width (m)	4,00	5,00	6,00	6,00
coulter pressure (kg)	5 - 120	5 - 120	5 - 120	5 - 120
Horsepower requirement (kW/hp)	74 / 100	88 / 120	103 / 140	74 / 100
Transport width with 2.45 m track (m)	4,00	5,00	3,00	3,00
Transport width with 2.80 m track (m)	4,00	5,00	3,35	3,35
Transport width with 3.00 m track (m)	4,00	5,00	3,55	3,55
Transport height (m)	2,70	2,70	3,90	3,90
Transport length incl. Maestro DV (m)	7,40	7,80	7,80	7,80
Weight incl. Maestro DV (kg)	3800	4200	5200	4950
Hopper capacity seed wagon single hopper version (l)	2800	2800	2800	2800
Hopper capacity seed wagon double hopper version (l)	3500	3500	3500	3500
Feed opening seed wagon single hopper version (m)	1,00 x 2,40	1,00 x 2,40	1,00 x 2,40	1,00 x 2,40
Feed opening seed wagon double hopper version (m)	0.60 x 0.90 each	0.60 x 0.90 each	0.60 x 0.90 each	0.60 x 0.90 each
Number of seed coulters	20	25	30	40
Seed coulters/press wheels Ø (cm)	34 / 32	34 / 32	34 / 32	34 / 32
Row spacing seed coulters (cm)	20	20	20	15
Cutting disc system Ø (Inch)	17 or 18	17 or 18	17 or 18	---
Tyre size seed waggon	550/60-22.5 (optional twin tyres 270/95 R 32)	550/60-22.5 (optional twin tyres 270/95 R 32)	550/60-22.5 (optional twin tyres 270/95 R 32)	550/60-22.5 (optional twin tyres 270/95 R 32)
Operational speed (km/h)	10 - 20	10 - 20	10 - 20	10 - 20
DA control devices	1 DA hydraulic functions, 1 DA hydraulic fan direct drive fertiliser with adjustable flow rate, 1 DA hydraulic filling auger	1 DA hydraulic functions, 1 DA hydraulic fan direct drive fertiliser with adjustable flow rate, 1 DA hydraulic filling auger	1 DA hydraulic functions, 1 DA hydraulic fan direct drive fertiliser with adjustable flow rate, 1 DA hydraulic filling auger	1 DA hydraulic functions, 1 DA hydraulic fan direct drive fertiliser with adjustable flow rate, 1 DA hydraulic filling auger
Depressurized return flow (max. 5 bar)	1 with hydraulic fan direct drive	1 with hydraulic fan direct drive	1 with hydraulic fan direct drive	1 with hydraulic fan direct drive
Oil quantity hydr. fan fertiliser and vacuum (l)	50	50	50	50
Implement attachment seed wagon (adjustable drawbar) (mm)	Pin Ø 40	Pin Ø 40	Pin Ø 40	Pin Ø 40
Implement attachment coulter bar	4-Pkt.	4-Pkt.	4-Pkt.	4-Pkt.



Your distributor

What do our customers
worldwide say?



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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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