Maestro

HORSCH
Farming with passion

Maestro CC
Maestro RC Maestro SW

THE FUTURE OF PNEUMATIC SINGLE GRAIN SEED TECHNOLOGY

THE FUTURE OF PNEUMATIC SINGLE GRAIN SEED TECHNOLOGY.
FAST – PRECISE – VERSATILE.

The Maestro – a master of singulation:

Due to its exact grain singulation it is universally suitable for maize, soy, sunflowers and sugarbeet. The patented **Maestro** single grain technology particularly excels due to three features:

— The unique metering system

— The extremely small single grain metering unit

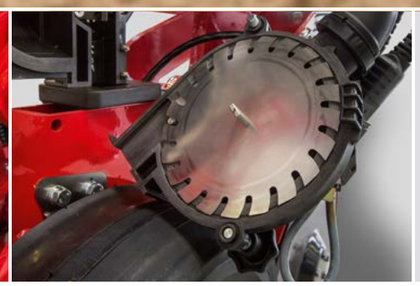
— The placement quality control.

The metering system is based on a completely new metering disc. It does not have the usual holes, but grooves that open up to the outside. Thus, together with the new scraper, the singulation results achieved in a large frequency range from 0 to 30 Hz are excellent. 30 Hz correspond to a working speed of 12 km/h for the usual 90 000 grains of maize per hectare.

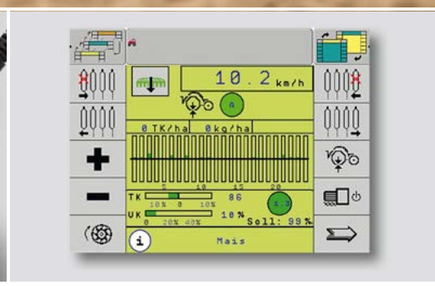
The crucial factor for these results is the smooth transition of the grains from a circular to a linear movement in the placement area. There are no disturbing centrifugal forces in the fall sluice. This extraordinary accuracy is undependend from the rotational frequency of the metering disc and is exactly controlled by sensors. As the grains are not shot into the soil pneumatically, it is possible to work without a catching roller at the seed unit, e. g. under wet conditions.

The software in the HORSCH Terminal is set up in such a way that the driver can clearly see the exact missing and double spots as well as the variation coefficient for every single row. Thus, the driver can respond any time to the most different conditions like seed or seedbed quality and use the machine to its full capacity. The working speed can thus be adapted to the individual requirements for placement accuracy.

Compact and robust –
the Maestro single grain metering device



The **new metering disc**
of the Maestro with open grooves



The **HORSCH Terminal** shows the placement quality
of each individual row on a real-time basis

The new **pneumatic singulation**
is absolutely precise

Maestro CC
COMPACT WITH LOW HORSEPOWER REQUIREMENT

What are the excelling features of the Maestro CC?

— 8 to 12 km/h working speed
— Compact machine with a hopper capacity of 2 800 litre for fertiliser
— Large 70-litre seed containers on every seed unit
— As 6-, 8- or 12-row version
— Row spacings between 45 and 80 cm
— Robust HORSCH seed units
— Coulter pressure between 125 and 300 kg hydraulically adjustable
— Low horsepower requirement: 100 PS are sufficient for the 8-row **Maestro CC**

And of course:

— The unique Maestro metering system
— The extremely small single grain metering unit
— The exact control of the placement quality
— Precise sowing with 12 km/h working speed
— Universally suitable for maize, soy, sunflowers and sugarbeet

Double use:

As Maestro RC also available in combination with a seed waggon of the Pronto AS.

High working speed of 12 km/h

Maestro CC road transport

12-row **Maestro 12.45 CC**

Maestro RC

THE NEW STANDARD FOR 3-POINT LINKAGE

What are the excelling features of the Maestro RC?

— 8 to 12 km/h working speed

— Single grain seed with 3-point linkage; combined with a front hopper, Pronto AS or Focus TD with 3-point linkage

— Large 70-litre seed containers on every seed unit

— As an 8- or 12-row version

— Row spacings between 45 and 80 cm

— Robust HORSCH seed units

— Coulter pressure can be adjusted hydraulically between 150 and 200 kg for the Maestro RC solo

— Coulter pressure can be adjusted hydraulically between 150 and 350 kg for Maestro RC with Pronto AS and Focus

And of course:

— The unique Maestro metering system

— The extremely small single grain metering unit

— The exact control of the placement quality

— Precise sowing with 12 km/h working speed

— Universally suitable for maize, soy, sunflowers and sugarbeet

High working speed of 12 km/h

Maestro RC road transport

8-row **Maestro 8 RC**

Maestro SW

MAXIMUM EFFICIENCY WITH LARGE SEED WAGGON

What are the excelling features of the Maestro SW?

— 8 to 12 km/h working speed
— Maximum efficiency for single grain seed
— Seed waggon with a capacity of 2 000 litre for seed and of 7 000 litre for fertiliser
— Seed on Demand system for a permanent seed provision at each seed unit
— As 12-, 16-, 18-, 24- or 36-row version
— Row spacing from 45 to 90 cm
— Robust HORSCH seed units
— Coulter pressure between 150 and 350 kg hydraulically adjustable

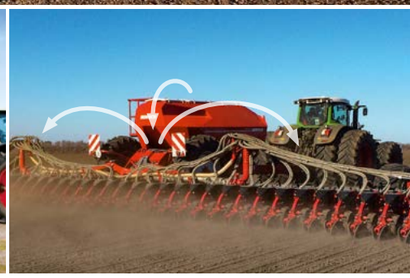
And of course:

— The unique **Maestro** metering system
— The extremely small single grain metering unit
— The exact control of the placement quality
— Precise sowing with 12 km/h working speed
— Universally suitable for maize, soy, sunflowers and sugarbeet

Extremely robust **single grain seed units** with precise grain singling and **Seed on Demand system**

Seed waggon for 2 000 litre seed and 7 000 litre fertiliser for maximum efficiency

16-row **Maestro SW** road transport



Transfer of the seed waggon weight to the seed bar for increased coulter pressure

ELECTRONICS
INNOVATIVE AND DIGITAL SOLUTIONS

DKE DATA

MEMBER OF AEF

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HORSCH Intelligence

The future machines think actively and HORSCH Intelligence makes it possible. With intelligent software and electronic solutions HORSCH seed drills work even more efficiently and help you to save both money and increase confidence.

HORSCH seed drill are always equipped with the ISOBUS standard. This does not only mean that every HORSCH machine can be controlled with any ISOBUS terminal. Additionally, SectionControl, VariableRate as well as the TaskController for data processing is a standard equipment for every HORSCH seed drill.

HORSCH Terminal

Touch 1200 Terminal

Touch 800 Terminal

TaskController

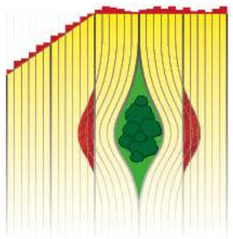
SectionControl

ISOBUS SectionControl allows for switching off individual sections automatically via GPS. The current position is determined, thus at field boundaries, on the headlands, in case of overlaps or in pre-defined areas individual sections (individual row switch-off) or the whole working width is shut-off automatically.

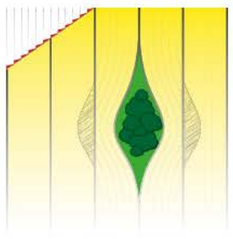
When using a HORSCH Touch 800/1200 Terminal you can additionally use the MultiControl function. This function indepe-ndently switches on and off the application of fertiliser and seed. Without MultiControl either fertiliser or seed can be switched on and off at the right time.

Advantages of SectionControl:

— Saving seed and fertiliser as overlaps on the headlands and at field boundaries are reduced to a minimum
— Constant working quality on the whole field
— Productivity increase under various conditions (day and night, fog)
— Reduced stress for the driver
— Protection of the environment



WITHOUT SectionControl



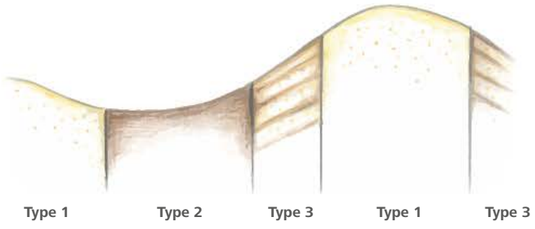
WITH SectionControl

VariableRate

ISOBUS VariableRate allows for a site-specific application of seed and fertiliser. Thus, with an appropriate application card for every section within a field the optimum quantity of fertiliser and seed can be applied. When using a HORSCH Touch 800/1200 Terminals you can additionally use the MultiControl function. This function allows for independently varying the amount of fertiliser and seed. Without MultiControl the application rate of either fertiliser or seed can be varied.

Advantages of VariableRate:

— Saving of seed and fertiliser as only the necessary quantity is applied
— Regular emergence due to optimum number of grains/m²
— Simple and quick documentation
  – The different application rates are documented automatically
  – Uncomplicated transmission to the acreage index
— Reduced stress for the driver
  – The optimum application rate is automatically used on the fields
— Protection of the environment
  – Only the necessary amount of fertiliser is applied



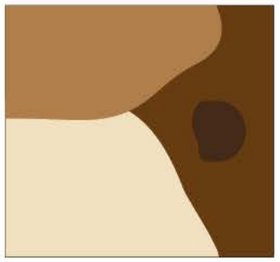
VariableRate takes different types of soil into account.

TaskController

The ISOBUS TaskController transfers data from the PC to the terminal in an uncomplicated way. It is also possible to transfer application rates, sown area and other data that were recorded while sowing from the terminal to the PC. This facilitates the administration of the acreage index. Via the integrated order management system orders can be created and executed.

Advantages of the TaskController:

— Uncomplicated data exchange
— Automatic documentation
— Structured working due to data management
— Simple administration of the acreage index
— Simple accounting and proof for contract services



Soil quality	Seed	Fertiliser
high	300 grains/m²	2.8 dt/ha PK
medium high	270 grains/m²	2.5 dt/ha PK
medium low	250 grains/m²	2.3 dt/ha PK
low	220 grains/m²	2.0 dt/ha PK

VariableRate
Seed OR fertiliser

VariableRate with MultiControl
Seed AND fertiliser

VariableRate allows for applying adapted quantities of fertiliser and seed on the basis of application cards.

AutoForce
AUTOMATIC COULTER PRESSURE CONTROL

AutoForce –
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.

— Lighter soils or more easily compacted soils require less coulter pressure to avoid a compaction of the soil. 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 regular. The coulter pressure should be adjusted for every section of the field.

— This is why HORSCH developed an automatic coulter pressure control system.

How does AutoForce work?

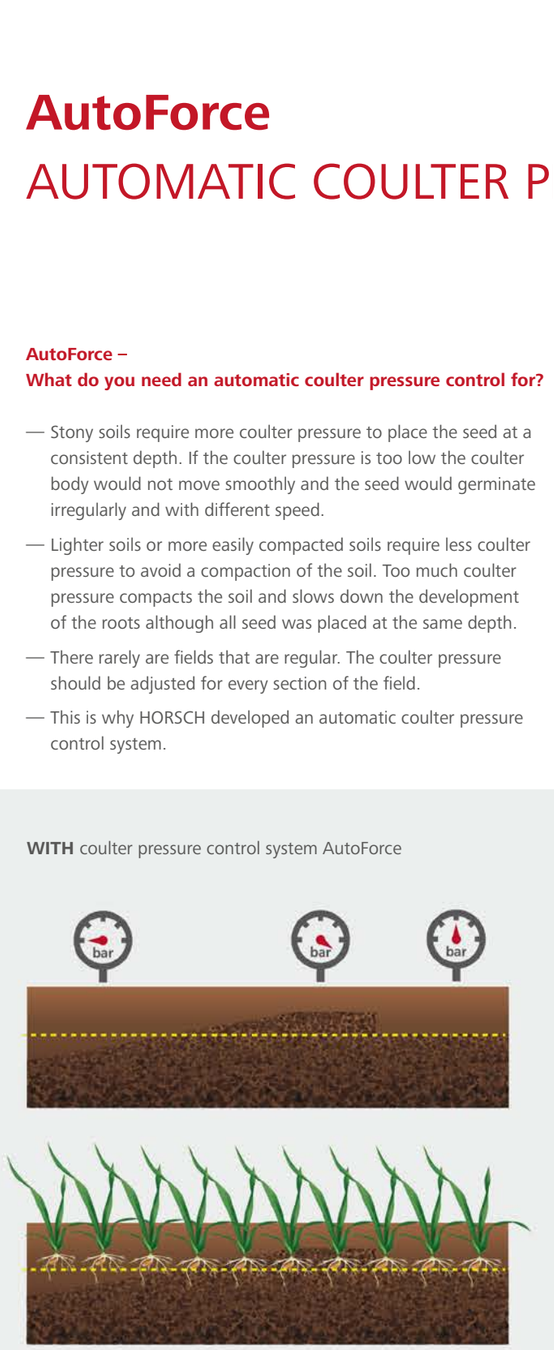
— There are 1, 2 or 4 sections over the whole working width of the machine.

— The pressure is measured with a sensor on both support wheels.

— The system controls the pressure of the cylinders at the parallelogram and corrects the adjustments in such a way that the weight on the support wheels always remains the same. This is possible due to the design of the Maestro that allows for transferring weight to the seed bar.

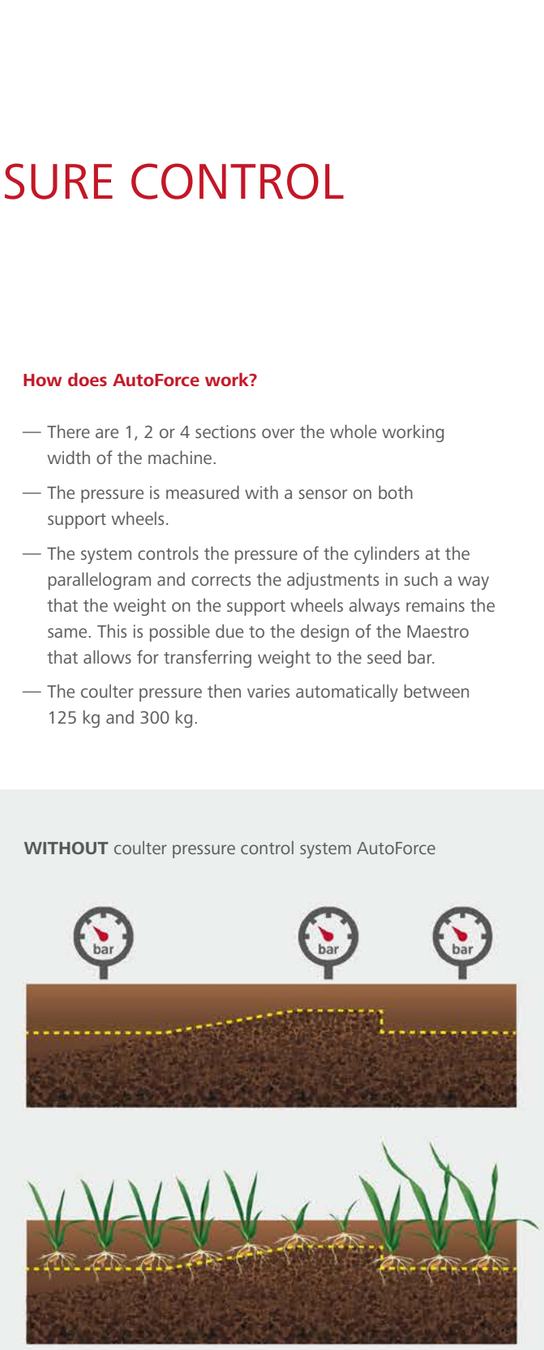
— The coulter pressure then varies automatically between 125 kg and 300 kg.

WITH coulter pressure control system AutoForce



Optimum pressure – optimum sowing depth

WITHOUT coulter pressure control system AutoForce



Too much pressure – too much compaction

Too little pressure – too shallow sowing

Optimum pressure – optimum sowing depth

AutoForce pressure sensor: Weight recording is carried out via Piezo (pressure sensor) technology.

Details of the Piezo sensor

Press wheels
FOR A BETTER EMBEDDING OF THE GRAINS

Which press wheel is suitable for which use?

— The finger wheel is ideal for heavy soils.

— The spike wheel is ideal for lighter sites

— The rubber closing wheels are ideal for light sandy sites

— 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.

— Seed furrow is not opened after sowing under dry conditions, especially on heavy clayey sites

— Development of the maize root is encouraged

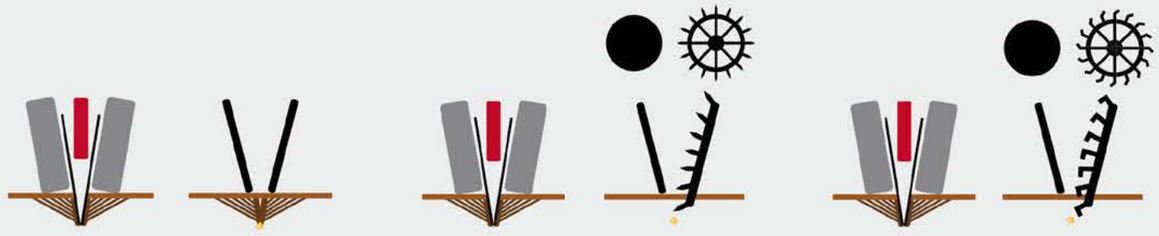
— There is one finger/spike wheel and one standard wheel per row to control the depth and to avoid moving the grains.

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

Closed seedbed furrow with standard rubber press wheels

Closed seedbed furrow with spike wheels

Closed seedbed furrow with finger press wheels



Seedbed furrow closed with standard press wheels

The standard press wheels keep up the consolidation

The spiked and the finger press wheels version breaks the consolidation that was generated by the depth control wheels.

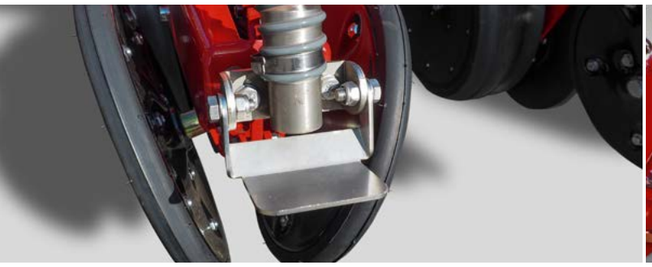
The seed discs of the seed body open the seed furrow. Between the depth control wheels of the seed discs a little consolidation is created.

Finger wheel

Spike wheel

EQUIPMENT

MAESTRO IN GENERAL



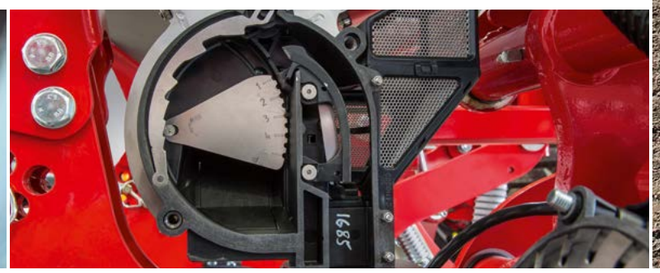
Outlet micro-granular compound for slug pellets

Metering device micro-granular product

Fertilizer discs

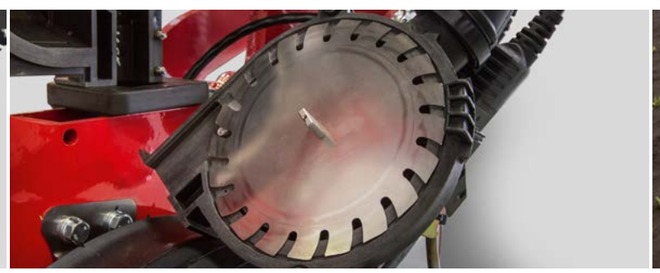
Depth control wheels with scraper, adjustable press wheels and the catching roller which can be removed in extremely wet conditions as the seed grain is not placed into the soil with pressure

Depth control wheel with spokes



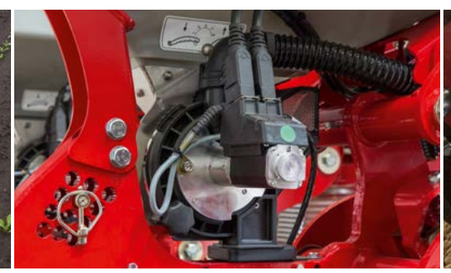
The adjustable **scraper** transports the grain into the fall sluice without any disturbing centrifugal forces

Optional **trash wheels** in front of the fertiliser coulters



The **metering** of the Maestro

SectionControl
Allows for an automatic switching off and on of the rows via GPS position signal. The GPS system is not part of the HORSCH Terminal.



The patented metering system is unique (date 09.2011) and combines singling, engine and control unit in one casing

Trash wheels, floating with depth control

EQUIPMENT
MAESTRO CC

Maestro CC

EQUIPMENT
MAESTRO RC

Maestro RC: Maestro seed bar (8- or 12-row) combined with seed waggon of the Pronto AS.
The Pronto seedbar can be replaced with the Maestro seedbar and vice versa via a 3-point.

Weighing device

Display of the weighing device

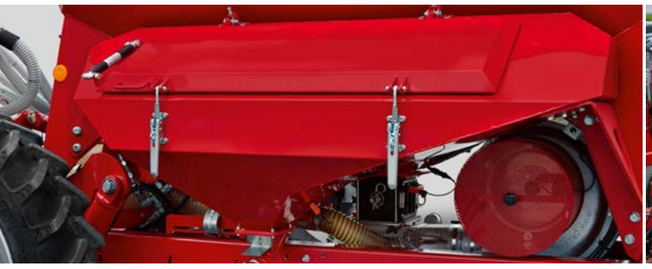
Focus TD with **3-point linkage** and a **Maestro RC seed unit bar**

Distribution tower and 3-point linkage (Maestro RC)

Optional: twin tyres 230/95 R 32 **Maestro CC**.
The seed furrow is exactly between the tyres.

Maestro 8 CC

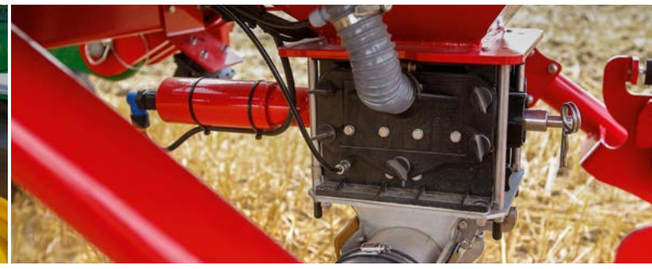
Maestro RC solo



Hopper micro-granular unit **Maestro CC** (200 litre), 12/18 **SW** (350 litre)
and 16/24/36 SW (500 litre) with placement in the seed furrow

Seed container of the **Maestro CC**

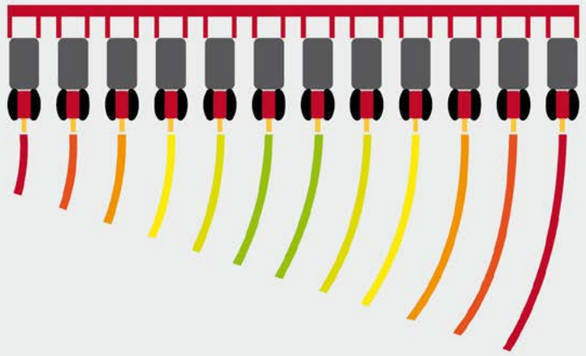
The Partner FT with a hopper capacity of 1 600 litres can
be combined with the Maestro RC in an optimum way



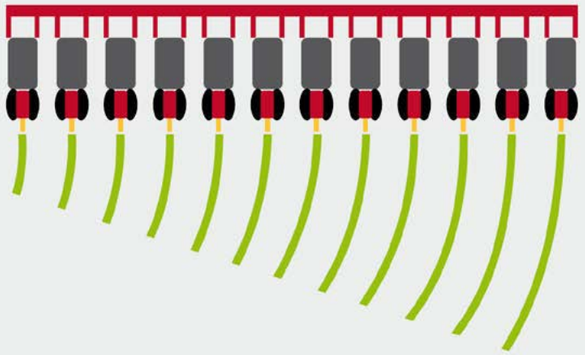
Fertiliser metering device Partner FT

EQUIPMENT
MAESTRO SW

WITHOUT ContourFarming
In a bend the seed rate is higher – on the outside the seed rate is lower



WITH ContourFarming
In a bend the seed rate does not change



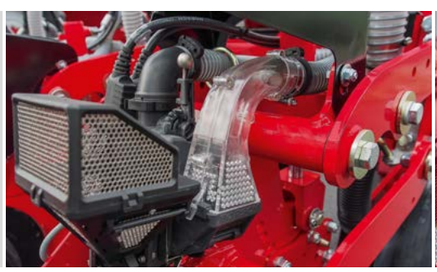
ContourFarming
Automatic adaption of the metering frequency in bends: Each outside wing is equipped with a radar. These radar sensors measure the sowing speed and the seed rate in every row, the seed rate is adjusted accordingly (only for Maestro 24 and 36 SW).

One of the radars for **ContourFarming**

Filling auger **Maestro SW**

Maestro 16 SW with large press wheels

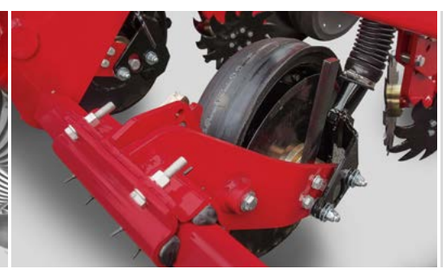
Hydraulic **coulter pressure adjustment** for **Maestro SW**



Maestro SW: Metering unit in the **Seed on Demand** version

View into the **divided seed waggon** of the **Maestro SW**

Open **Seed on Demand system** at the Maestro SW



Optional single disc fertiliser coulter

Single disc fertiliser coulter as an option for Maestro 24/36 SW

TECHNICAL SPECIFICATIONS

HORSCH Maestro CC	6.70 – 75 – 80 CC	8.70 – 75 – 80 CC
Transport width (m)	3.00	3.00
Transport height (m)	3.55	3.85
Transport length (m)	7.50	8.20
Weight (kg)*	3 600	3 940
Hopper capacity seed waggon (l)	2 800	2 800
Feed opening seed waggon (m)	1.00x2.40	1.00x2.40
Capacity seed container (l)	70	70
Number of rows	6	8
Coulter pressure hydr. (kg)	150–350	150–350
Depth control wheel Ø (cm)	40	40
Press wheel Ø (cm)	30/33	30/33
Catching roller	Standard	Standard
Row spacing (cm)	70/75/80	70/75/80
Sowing depth (cm)	1.5–9	1.5–9
Drop height seed (cm)	45	45
Tyre size seed waggon (standard)	700/50–22.5	700/50–22.5
Tyre size seed waggon (optional)	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32
Working speed (km/h)	8–12	8–12
Horsepower requirement from (kW/hp)	75/100	88/120
Double-acting control devices	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper
Depressurized return flow (max. 5 bar)	1 for hydr. fan direct drive fertiliser and underpressure	1 for hydr. fan direct drive fertiliser and underpressure
Oil quantity hydr. fan underpressure (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Oil quantity hydr. fan fertiliser (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Current demand (A)	40	40
Adj. drawbar linkage	Bolt Ø 40 mm	Bolt Ø 40 mm
Ball-type linkage	K 80	K 80

* Weights of the machines with minimum equipment

HORSCH Maestro CC	12.45 – 50 CC	9.60 CC
Transport width (m)	3.00	3.00
Transport height (m)	3.85	3.85
Transport length (m)	8.20	8.20
Weight (kg)*	4 575	4 100
Hopper capacity seed waggon (l)	2 800	2 800
Feed opening seed waggon (m)	1.00x2.40	1.00x2.40
Capacity seed container (l)	70	70
Number of rows	12	9
Coulter pressure hydr. (kg)	150 – 350	150 – 300
Depth control wheel Ø (cm)	40	40
Press wheel Ø (cm)	30/33	30/33
Catching roller	Standard	Standard
Row spacing (cm)	45/50	60
Sowing depth (cm)	1.5–9	1.5–9
Drop height seed (cm)	45	45
Tyre size seed waggon (standard)	700/50–22.5	700/50–22.5
Tyre size seed waggon (optional)	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32
Working speed (km/h)	8–12	8–12
Horsepower requirement from (kW/hp)	103/140	96/130
Double-acting control devices	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper
Depressurized return flow (max. 5 bar)	1 for hydr. fan direct drive fertiliser and underpressure	1 for hydr. fan direct drive fertiliser and underpressure
Oil quantity hydr. fan underpressure (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Oil quantity hydr. fan fertiliser (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Current demand (A)	45	40
Adj. drawbar linkage	Bolt Ø 40 mm	Bolt Ø 40 mm
Ball-type linkage	K 80	K 80

* Weights of the machines with minimum equipment

HORSCH Maestro RC	8.70 – 75 – 80 RC	12.45 – 50 RC
Transport width (m)	3.00	3.00
Transport height (m)	3.40	3.40
Length (m)	2.45 (3.45 incl. bout marker)	2.45 (3.45 incl. bout marker)
Weight approx. (kg)*	1 800	2 500
Capacity seed container (l)	70	70
Number of rows	8	12
Coulter pressure hydr. (kg)	150 – 200	150 – 200
Depth control wheel ø (cm)	40	40
Press wheel ø (cm)	30/33	30/33
Catching roller	Standard	Standard
Row spacing (cm)	70/75/80	45/50
Sowing depth (cm)	1.5–9	1.5–9
Drop height seed (cm)	45	45
Working speed (km/h)	8–12	8–12
Power demand (kW/hp)	75/100	90/120
3-point linkage	3-point Cat. II/III	3-point Cat. II/III
Double-acting control devices	1 DA folding function (+ 1 DA for bout marker), 1 DA hydr. fan direct drive vacuum with adjustable flow rate + 1 DA with Partner FT for hydr. fan direct drive fertilizer with adjustable flow rate	1 DA folding function (+ 1 DA for bout marker), 1 DA hydr. fan direct drive vacuum with adjustable flow rate + 1 DA with Partner FT for hydr. fan direct drive fertilizer with adjustable flow rate
Depressurized return flow (max. 5 bar)	1 (2 if combined with Partner FT)	1 (2 if combined with Partner FT)
Oil quantity hydr. fan underpressure (l/min)	25	25
Oil quantity hydr. fan fertiliser (l/min) with Partner FT	20–35	20–35
Current demand (A)	40	45

* Weights of the machines with minimum equipment (without bout marker and skimmer)

HORSCH Maestro RC	8.75 RC
Transport width (m)	3.00
Transport height (m)	3.45
Length without Focus ST (m)	2.50
Transport length with Focus ST (m)	10.70
Weight without Focus ST approx. (kg)*	1 800
Weight with Focus ST approx. (kg)*	10 300
Capacity seed container (l)	70
Number of rows	8
Coulter pressure hydr. (kg)	150 – 350
Depth control wheel Ø (cm)	40
Press wheel Ø (cm)	30/33
Catching roller	Standard
Row spacing (cm)	75
Sowing depth (cm)	1.5–9
Drop height seed (cm)	40
Working speed (km/h)	8–12
Power demand (kW/hp)	180–260/250–350
3-point linkage	3-point Cat. II/III

HORSCH Focus	8.75 ST 3-point
Double-acting control devices	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan underpressure (l/min)	25
Oil quantity hydr. fan fertiliser (l/min)	35–45
Current demand (A)	40
Lower link linkage	Cat. II/III–III–III/IV
Adj. drawbar linkage	Ring drawbar Ø 58–79 mm
Ball-type linkage	K 80

* Weights of the machines with minimum equipment (without bout marker and skimmers)

TECHNICAL SPECIFICATIONS

HORSCH Maestro SW	12.70–90 SW/30“–36“ SW	16.70–75–80 SW/30“ SW	18.45–50 SW
Transport width (m)	3.00/3.12 for 12.70–30“ SW/ 3.65 for 12.90 and 12.36“ SW	3.00/3.12 for 16.70–30“ SW (3.50 m option without hydraulic axles)	3.00
Transport height (m)	4.00/4.60 for 12.90 and 12.36“ SW	4.00	4.00
Transport length (m)	9.51	8.06	9.51
Weight incl. seed waggon (kg)*	7 175	9 857	8 300
Axle load (kg)	---	---	---
Support weight (kg)	---	---	---
Hopper capacity seed waggon (seed/fertiliser) (l)	2 000/7 000	2 000/7 000	2 000/7 000
Hopper capacity seed waggon only seed (l)	8 500	8 500	8 500
Feed opening seed waggon seed (mm)	800 x 660	800 x 660	800 x 660
Feed opening seed waggon fertiliser (mm)	2 450 x 660	2 450 x 660	2 450 x 660
Hopper opening seed waggon only seed (mm)	1 700 x 660 (2x)	1 700 x 660 (2x)	1 700 x 660 (2x)
Number of rows	12	16	18
Electr. Coulter pressure adjustment terminal (kg)	150 – 350	150 – 350	150 – 350
Depth control wheel Ø (cm)	40	40	40
Press wheel Ø (cm)	30/33	30/33	30/33
Catching roller	Standard	Standard	Standard
Row spacing (cm, inch)	70/75/90/30“/36“	70/75/80/30“	45 or 50
Sowing depth (cm)	1.5–9	1.5–9	1.5–9
Drop height seed (cm)	45	45	45
Tyre size seed waggon	520/85 R 38	520/85 R 42	520/85 R 42
Telescopic axle	Standard	Standard	Standard
Working speed (km/h)	8–12	8–12	8–12
Horsepower requirement from (kW/hp)	130/180	160/220	160/220
Depressurized return flow (max. 5 bar)	1	1	1
DA control devices direct drive	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser and seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser and seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system
DA control devices pto-shaft drive	---	---	---
Oil quantity hydr. fan fertiliser (l/min)	40	40	40
Oil quantity hydr. fan seed (l/min)	40	20	40
Oil quantity hydr. fan underpressure (l/min)	---	25	25
Power demand during operation (A)	45	50	50
Adj. drawbar linkage	Ring drawbar Ø 58–79 mm	Ring drawbar Ø 58–79 mm	Ring drawbar Ø 58–79 mm
Ball-type linkage	K 80	K 80	K 80

* Weights of the machines with minimum equipment

HORSCH Maestro SW	24.45–50 SW	24.70–75 SW/30“ SW	36.45–50 SW
Transport width (m)	3.00 (3.50 m option without hydraulic axles)	3.00/3.12 for 24.70–30“ SW (3.50 m option without hydraulic axles)	3.00 (3.50 m option without hydraulic axles)
Transport height (m)	4.00	4.00	4.00
Transport length (m)	8.06	9.50	9.62
Weight incl. seed waggon (kg)*	11 830	11 830	13 900
Axle load (kg)	---	---	10 200
Support weight (kg)	---	---	3 700
Hopper capacity seed waggon (seed/fertiliser) (l)	2 000/7 000	2 000/7 000	2 000/7 000
Hopper capacity seed waggon only seed (l)	8 500	8 500	8 500
Feed opening seed waggon seed (mm)	800 x 660	800 x 660	800 x 660
Feed opening seed waggon fertiliser (mm)	2 450 x 660	2 450 x 660	2 450 x 660
Hopper opening seed waggon only seed (mm)	1 700 x 660 (2x)	1 700 x 660 (2x)	1 700 x 660 (2x)
Number of rows	24	24	36
Electr. Coulter pressure adjustment terminal (kg)	150 – 350	150 – 300	150 – 350
Depth control wheel Ø (cm)	40	40	40
Press wheel Ø (cm)	30/33	30/33	30/33
Catching roller	Standard	Standard	Standard
Row spacing (cm, inch)	45/50	70/75/30“	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	520/85 R 42	520/85 R 42	520/85 R 42
Telescopic axle	Standard	Standard	Standard
Working speed (km/h)	8–12	8–12	8–12
Horsepower requirement from (kW/hp)	200/270	200/270	243/330
Depressurized return flow (max. 5 bar)	1	1	1
DA control devices direct drive	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system
DA control devices pto-shaft drive	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. filling auger fertiliser system
Oil quantity hydr. fan fertiliser (l/min)	45	45	45
Oil quantity hydr. fan seed (l/min)	20	20	20
Oil quantity hydr. fan underpressure (l/min)	55	55	55
Power demand during operation (A)	60	60	80 (ATTENTION: check electrical power equipment of the tractor)
Adj. drawbar linkage	Ring drawbar Ø 58–79 mm	Ring drawbar Ø 58–79 mm	Ring drawbar Ø 58–79 mm
Ball-type linkage	K 80	K 80	K 80

* Weights of the machines with minimum equipment

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