

Avatar 3.16 - 8.16 SD

 **HORSCH**



PERFECT SEED PLACEMENT AND WIDE RANGE OF APPLICATIONS
DUE TO SINGLEDISC SINGLE DISC SEED COULTER



Avatar 3.16 - 8.16 SD

VERSATILE FOR DIRECT AND MULCH SEEDING AND WITH
VARIABLE ROW SPACINGS

- Wide range of applications from direct seeding to mulch seeding and to the offset method
- Selective hosing, seeding with double row spacing

- High operational speed up to 15 km/h test
- Coulter pressure up to 350 kg per coulter



The Avatar can be used in different situations due to the individually depth controlled disc coupler. It is ideal for direct seeding but can also be used on cultivated soils. Due to the robust design and the SingleDisc single disc coupler operational speeds of up to 15 km/h can be achieved. The standard double hopper or the optional triple tank respectively the MiniDrill can be used for the Avatar 6.15 and 8.16 SD to flexibly apply up to three components. The 2-row design of the Avatar 3.16 to 8.16 SD with a row spacing of 16.7 cm can be extended to 33.4 cm by means of the optional selective hosing. This is ideal for mechanical population control in combination with a HORSCH Transformer VF. The interaction of single disc coupler and seed skid ensures a safe opening of the furrow. At the same time, harvest residues are removed from the furrow. The result is an optimum contact of seed and soil for quick and safe emergence.

Via the rubber torsion suspension a coulters pressure of up to 350 kg per coulters can be transferred. The coulters pressure can be adjusted mechanically or electrically via the terminal. All pivot points and connections at the coulters are maintenance-free. The durable, maintenance-free bearings on all rotating parts guarantee a long service life and operational reliability. The seed skid is equipped with a carbide wear edge for a long service life. It can even be extended with the HM+ version.



Avatar 3.16 SD in catch crops



Precision and efficiency

SingleDisc

PRECISE SEED PLACEMENT DUE TO INDIVIDUAL DEPTH CONTROL



The individually depth controlled SingleDisc coulters have specially been designed for the Avatar line. Due to its individuality and flexibility, it can be adapted to the most different sowing conditions

- Direct seed
- Mulch seed
- Conventional tillage
- In standing catch crops
- On stony and very heavy clayey soils

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The durable, maintenance-free bearings on all rotating parts guarantee a long service life and operational reliability. The seed skid is equipped with a carbide wear edge for a long service life. It can even be extended with the HM+ version. The stable depth control wheels guarantee a precise depth control of the coulters in changing or difficult soils. This is due to different, co-ordinated adjustments of the seed coulters and optional equipments. Due to the lateral angle of 6° and a vertical angle of 3° of the single disc coulters, the seed is placed diagonally below the surface. Depending on the conditions, you can choose between a Uniformer and a catching roller.

- Individual depth control by means of depth control wheel
- Single disc coulters with seed skids
- Ideal for direct seed, mulch seed and after conventional tillage
- Outstanding for stony, very heavy and clayey soils
- Coulters pressure up to 350 kg
- Maintenance free



SingleDisc – perfect soil following due to depth control wheel



Finely graduated individual depth adjustment without tools



Low disturbance due to SingleDisc seed coulters

Hopper options Avatar 3.16 SD and 4.16 SD

For the Avatar 3.16 and 4.16 SD, you can choose between a double hopper (60:40) and a triple tank (60:10:30) with a capacity of 3 800 l. Thus, everyone can find the perfect hopper combination for his requirements. The advantage of the multi-hopper system is that fine seeds and coarse seeds can be transported separately and no separation takes place.

- Double hopper 3 800 l capacity (40:60)
- Triple tank 3 800 l capacity 30:10:60)

In combination with the optional selective hosing it is possible to seed fine seeds deeper via the first coulter row and the coarse seeds via the second coulter row. At the same time, fertiliser can be applied for both crops.

Another application example: If two different fertiliser components are to be applied with the seed, no mixing fertiliser is necessary and the desired quantity of the components can be selected freely.



3 800 l double hopper or triple tank

Hopper options Avatar 6.15 SD and 8.16 SD

As standard, the Avatar 6.15 SD and 8.16 SD are equipped with a double hopper (60:40) with a capacity of 5 000 l. This allows for applying for example seed and fertiliser at the same time. However, it is also possible to apply two different seeds, e. g. fine seeds and coarse seeds, separately. A perfect complement is the optional selective hosing that allows for seeding fine seeds in the first coulter row shallowly and coarse seeds in the second coulter row deeper.

Moreover, there is the option to mount a MiniDrill with a capacity of 400 l. Here, you can choose between the 1 G&F version where the third component is also led into the seed coulter and the 2 version where the third component is applied via baffles behind the coulters.



5 000 l double hopper



5 000 l double hopper with 400 l MiniDrill

Half-width shut-off or selective hosing

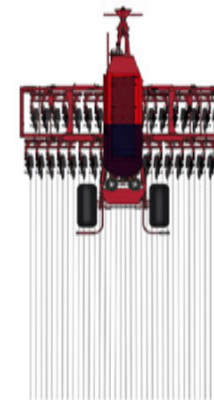
There are two application options:

Half-width shut-off

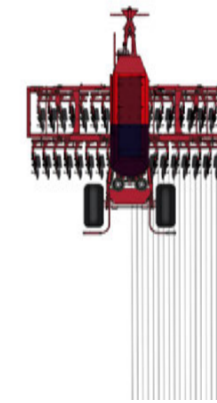
- Standard with mechanical half-width shut-off
- As an option an electric half-width control can be selected via the ISOBUS terminal.
- Process can be automated by activating SectionControl

Selective hosing

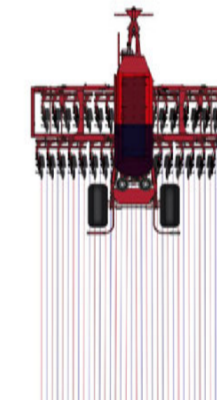
- Sowing with double row spacing (16.7 or 33.4 cm)
- Due to the double (6.16 SD + 8.16 SD) or triple tank (3.16 SD + 4.16 SD), different seeds can be applied in the first and second seed row.
- This allows for placing crops at different depths.
- Optimum for mixtures with different placement depths



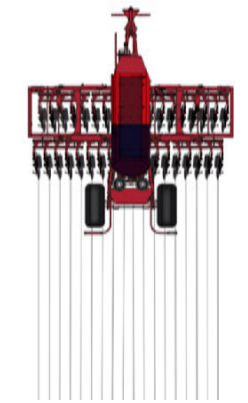
Application of all rows



Half-width control from the cabin



Application of two different products (e.g. red = shallow, blue = deep)



Application with double row spacing

Hydraulic filling auger

- Easy filling due to hydraulic filling auger
- For an autarkic filling
- Driven hydraulically, operated with a stop valve
- Output: 400 kg/min



Hydraulic filling auger

CLOSING WHEEL SYSTEMS

Closing wheel steel

- For sowing in wet conditions
- Closes the seed furrow even in changing conditions
- Ideal with the offset method
- The down force of the closing wheels can be adjusted by means of a spring without any tools
- Depending on the conditions, the angle can be changed



Closed closing wheel for all situations

Star roller steel

- For sowing in dry soils
- The star roller produces crumbly fine soil
- The down force of the closing wheels can be adjusted by means of a spring without any tools
- Depending on the conditions, the angle can be changed



Steel star roller – produces fine soil and closes the seed furrow

AutoForce

Why an automatic coulters pressure regulation?

- Stony soils require more coulters pressure to place the seed at a consistent depth. If the coulters pressure is too low the coulters body would not move smoothly and the seed would germinate irregularly and with different speed.
- Light conditions or pressure-sensitive soils need less coulters pressure so that the soil is not compacted. Too much coulters 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 coulters pressure has to be adapted.
- This is why HORSCH developed an automatic coulters pressure regulation system.



AutoForce for even emergence

SEED FIXING

Catching roller

Due to the catching roller, the seed is placed perfectly in the seed furrow to create a connection to capillarity. When sowing in very wet conditions, the catching roller can be set to the parking position with one simple step. Thus, it is possible to continue sowing in wet conditions. If working in wet conditions for a longer time, it makes sense to replace the catching roller with the uniformer.

- Safe placement of the seed
- Ideal in dry soils
- Remove the catching roller in wet conditions
- Due to the parking position, the catching roller can be lifted



Perfect fixation of the seed due to rubber catching roller

Uniformer

Due to the Uniformer, the seed is pressed in to the seed furrow. This principle is already known from the Turbo-Disc seed coulters of the Pronto. The Uniformer is also ideal for green catch crops.

- Safe placement of the seed in the furrow
- Can be used in all situations
- Ideal when sowing into green catch crops
- Ideal in wet conditions



Uniformer Avatar

INTELLIGENCE

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



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

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

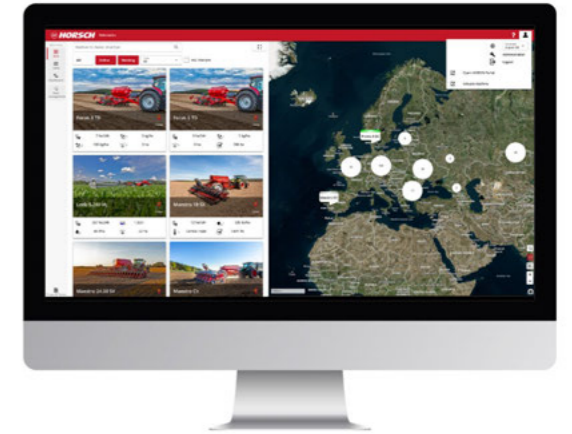


AutoLine

- 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

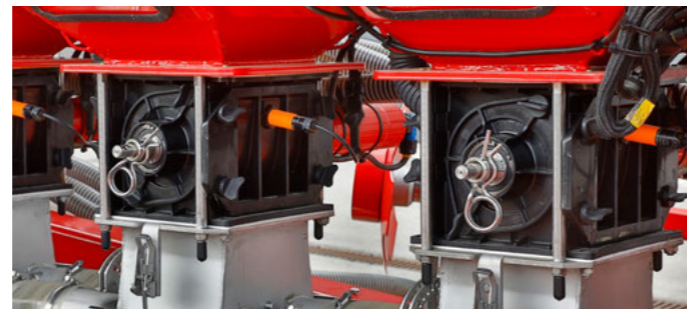
- Digital solutions exactly where they make sense
- Straightforward out-of-the-box solution with integrated SIM card, WLAN modem and other interfaces
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g the application rate of all components
- Control of machine functions via the smartphone app MobileControl
- Control of machine functions via smartphone app MobileControl: e.g. calibration of all metering units



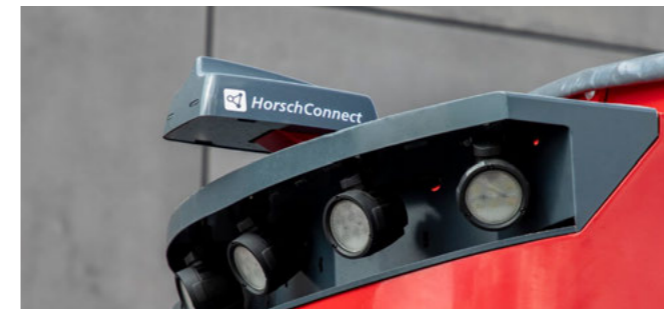
The MobileControl app allows for controlling individual machine functions – completely comfortably from the smartphone



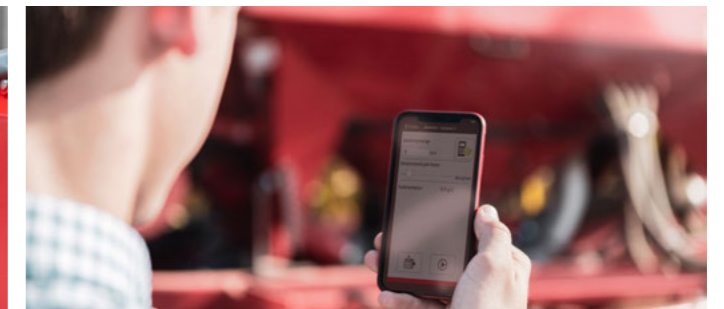
Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin



The rotor selection app facilitates the selection of the optimum rotor for any application



Uncomplicated out-of-the-box solution with a wide range of integrated interfaces



Quick and easy calibration of the machine via smartphone with the MobileControl app

TECHNICAL DATA

Avatar 3.16 - 8.16 SD	3.16 SD	4.16 SD rigid	4.16 SD	6.16 SD	8.16 SD
Working width (m)	3.00	4.00	4.00	6.00	8.00
Row spacing (cm)	16.70	16.70	16.70	16.70	16.70
Seed hopper capacity double hopper (l)	3800	3800	3800	5000	5000
Seed hopper capacity triple hopper (l)	3800 (30 : 10 : 60)	3 800 (30 : 10 : 60)	3 800 (30 : 10 : 60)	---	---
Transport width (m)	2.99	4.32	2.99	2.98	2.98
Transport height (m)	3.50	3.50	3.50	3.31	3.98
Length lower link linkage (m)	6.96	6.96	6.96	7.82	7.82
Length adjustable drawbar linkage (m)	7.80	7.80	7.80	8.66	8.66
Axle load (kg)	2500 - 4000	3200 - 4300	3400 - 4500	4300 - 6200	5200 - 6700
Vertical load (kg)	1500 - 2300	2000 - 2600	2100 - 2800	2600 - 3300	3200 - 4000
Feed opening double hopper (m)	per 0.66 x 0.90	per 0.66 x 0.90	per 0.66 x 0.90	per 0.66 x 0.90	per 0.66 x 0.90
Filling height double hopper (m)	3.24	3.24	3.24	3.26	3.26
Feed opening triple tank (m)	0.66 x 0.43 / 0.66 x 0.25 / 0.66 x 1.45	0.66 x 0.43 / 0.66 x 0.25 / 0.66 x 1.45	0.66 x 0.43 / 0.66 x 0.25 / 0.66 x 1.45	---	---
Filling height triple hopper (m)	2.95	2.95	2.95	---	---
Hopper capacity MiniDrill (l)	---	---	---	400	400
Number of seed coulters (PCE)	18	24	24	36	48
Coulter pressure (kg)	350	350	350	350	350
Seed coulter Ø (cm)	48	48	48	48	48
Closing wheels Ø (cm)	33	33	33	33	33
Depth control wheels Ø (cm)	40	40	40	40	40
Tyre size seed unit/ waggon	600 / 55 - 26.5	600 / 55 - 26.5	600 / 55 - 26.5	600 / 55 - 26.5	600 / 55 - 26.5
Operational speed (km/h)	6 - 15	6 - 15	6 - 15	6 - 15	6 - 15
Horsepower requirement (kW/hp)	90 / 125	105 / 140	105 / 140	155 / 210	200 / 270
DA control devices (PCE)	1 (+ 1 incl. hydr. fan direct drive)	1 (+ 1 incl. hydr. fan direct drive)	1 (+ 1 incl. hydr. fan direct drive)	3	3
Depressurized return flow (max. 5 bar)	1	1	1	1	1
Oil quantity hydraulic fan (L2)	35 - 45	35 - 45	35 - 45	35 - 45	35 - 45
Implement attachment lower link	Cat. III and III/IV	Cat. III and III/IV	Cat. III and III/IV	Cat. III and III/IV	Cat. III and III/IV
Implement attachment adjustable drawbar	Hitch Ø 46-58 mm	Hitch Ø 46-58 mm	Hitch Ø 46-58 mm	Hitch Ø 46-58 mm	Hitch Ø 46-58 mm





HORSCH



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Paper: 120g/qm Maxi Offset. The paper is certified according to the EU Ecolabel. This label is only granted for products and services whose environmental consequences are considerably lower than those of comparable products. For more details see www.eu-ecolabel.de. Printing ink: Printing ink QUICKFAST COFREE. Free from mineral oil and cobalt. Moreover, it is certified and recommended for printing according to the „Cradle-to-Cradle“ principle (quasi “from the origin back to the origin”) – an approach that deals with the spreading of continuous and consequent recycling management. For more details see www.c2c-ev.de.

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

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