

 **HORSCH**

# Avatar 8 - 12 SD

COMPACT, EFFICIENT AND VERSATILE





## Avatar 8 - 12 SD

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

- Wide range of applications from direct seeding to mulch seeding and to the offset method
- High operational speed up to 15 km/h
- Coulter pressure up to 350 kg per coulter
- 25 cm row spacing perfect for mechanical weeding management



The Avatar can be used in different situations due to the individually depth controlled disc coulters. It is ideal for direct seeding but can also be used on cultivated soils. Due to the robust design and the SingleDisc coulters operational speeds of up to 15 km/h can be achieved. The standard double or triple tank allows for the flexible application of up to three components. The optional MiniDrill allows for applying another 400 l of a fourth component and offers maximum flexibility. The interaction of single disc coulters and seed skids 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.

The Avatar SD is not only appreciated in the direct seeding sector, even on conventional farms you can find the Avatar with its SingleDisc seed coulters. The special feature of the machine is that it cannot only be used for direct seeding but also on cultivated soils. Due to various environmental influences, many farmers go for a new kind of direct seed, the so-called „rotative direct seed“. This means that direct seed is carried out in certain conditions, e.g. after the rape harvest. However, if the conditions do not allow for this, a tillage pass can also be carried out.



Low horsepower requirement despite 12 m working width



Direct seed after grain maize

# SingleDisc



SingleDisc in organic conditions

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

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

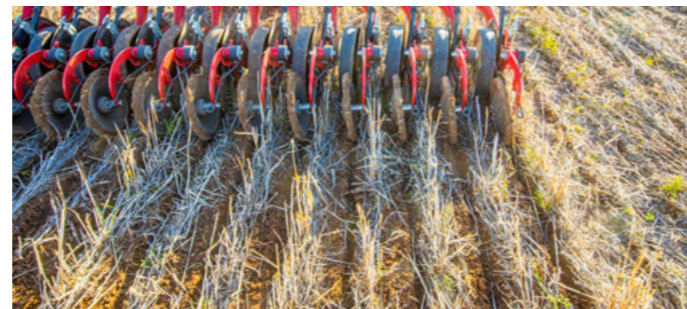
The interaction of single disc coupler and seed skid ensures a safe opening of the furrow. At the same time, harvest residues are removed from the furrow. The result is an optimum contact of seed and soil for quick and safe emergence.

Via the rubber torsion suspension a coupler pressure of up to 350 kg per coupler can be transferred. The coupler pressure can be adjusted mechanically or electrically via the terminal. All pivot points and connections at the coupler 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. The stable depth control wheels guarantee a precise depth control of the coupler in changing or difficult soils. This is due to different, co-ordinated adjustments of the seed coupler and optional equipments. Due to the lateral angle of 6° and a vertical angle of 3° of the single disc coupler, the seed is placed diagonally below the surface. Depending on the conditions, you can choose between a Uniformer and a catching roller.



SingleDisc – perfect soil following due to depth control wheel



Low disturbance due to SingleDisc seed coupler

# 20 cm NarrowDisc



NarrowDisc single disc coupler with 20 cm row spacing

The individually controlled single disc coupler NarrowDisc is the consistent further development of the well-proven SingleDisc coupler of the Avatar series. Our objective was ambitious: a row spacing of less than 25 cm without compromising with regard to the advantages of the traditional SingleDisc coupler.

Due to sophisticated engineering and over ten years of practical experience with the SingleDisc system, we managed to implement its well-proven features in the form of the NarrowDisc single disc coupler with a reduced row spacing of 20 cm. The precise interaction between the single disc coupler and the seed skid ensures a reliable opening of the furrow. At the same time, harvest residues are consistently removed from the seed row creating optimal soil contact for the seed.

A coupler pressure of up to 280 kg per coupler is transmitted via a robust rubber buffer. The adjustment of the coupler pressure is carried out comfortably via the terminal. All bearing points and connections of the coupler are maintenance-free. Especially durable, maintenance-free bearings on all rotating components ensure long operational reliability even in demanding conditions. The seed skid is equipped with a carbide wear edge as standard – for maximum service life which can be further increased with the optional HM+ option. Stable depth control rollers ensure precise depth control of the coupler – even in changing or difficult soil condition



1-bar design for even placement



Individually depth controlled single disc coupler NarrowDisc

# Hopper options

## VERSATILE HOPPER SYSTEM – UP TO FOUR COMPONENTS ENSURE MAXIMUM FLEXIBILITY

With the Avatar 8 to 12 SD you can choose between a double hopper (60:40) with a capacity of 6 300 l and the triple tank with a partition of 30:10:60 with a capacity of 6 400 l. As an option, a MiniDrill with a capacity of 400 l can be mounted, thus allowing for applying up to four components. Thus, everyone can choose the perfect hopper combination for their 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 with 6 300 l capacity and 60:40 partition
- Triple tank with 6 400 l capacity and 30:10:60 partition
- Optional: MiniDrill with 400 l capacity



Large hopper opening



Hinged screens to prevent contaminations in the hopper

# MiniDrill G&F

The capacity of the MiniDrill G&F capacity amounts to 400 l. It increases the efficiency of the machine and act as a third or fourth component.

- MiniDrill G&F capacity: 400 l
- Increases the efficiency of the machine and depending on the hopper, acts a third or fourth component



Up to four components due to the 400 l MiniDrill

# Half-width shut-off

The mechanical half-width shut-off is standard equipment for all machines. As an option you can choose an electrical half-width shut-off via the ISOBUS Terminal.

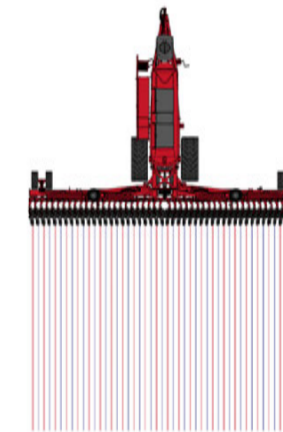
- Standard with mechanical half-width shut-off
- Optional: electric half-width shut-off via ISOBUS Terminal



Ultimate efficiency



Saving seed due to half-width shut-off



Selective hosing - two different seeds



Selective hosing - doubling the row spacing from 25 cm to 50 cm

# Selective hosing

- Double row spacing 25 cm or 50 cm
- Seeding of two different crops possible
- Fine seeds can be perfectly placed simultaneously with coarse seeds
- Due to individual depth control, each crop is placed at the perfect depth

# 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

# CLOSING WHEEL SYSTEMS

## 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

## 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

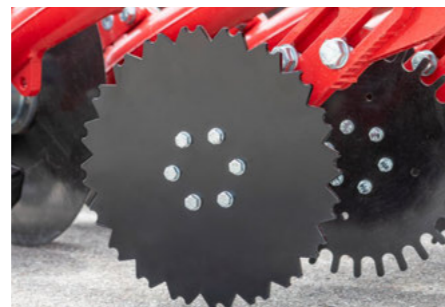


Closed closing wheel for all situations

## Trash wheels

- Avoiding the adding of organic material
- Three different options for all situations
- Hydraulically operated
- Suspended via rubber toson, thus low-wear
- Perfect contour following due to individual suspension

Hairpinning is a well-known term in no-till farming. But what does it mean? The effect when straw residues or organic residues are pressed into the seed furrow is called hairpinning. This can become a problem if the seed is placed on the straw residues or organic residues as the connection to the capillaries of the soil is interrupted. Trash wheels can be used to prevent this.



Trash wheel for cereal straw

Trash wheels for high amounts of cereal straw

Trash wheel for maize straw

# 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/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.

## Rotor selection

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



The HORSCH Assist app with the „Rotor Selection“ function helps you to choose the optimal rotor for each application.

## AutoLine

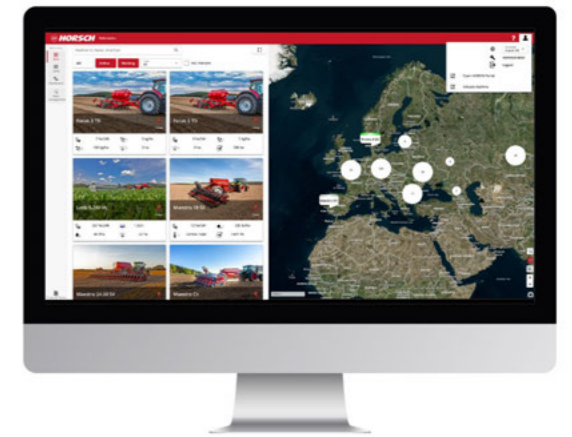
- Automatic, GPS-based tramline control
- Optimised driving strategy near obstacles or on the headlands
- Track-to-track driving is no longer required
- Available in combination with the eosT10 Pro terminal or other tramline-capable ISOBUS terminals



Drill independently of the track rhythm with universal seeding technology and HORSCH AutoLine

## 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 smartphone app HORSCH Control: e.g. Calibration of all metering devices



The HORSCH Control app allows for controlling individual machine functions - comfortably with a smartphone



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



Quick and easy calibration of the machine via smartphone with the HORSCH Control app

# TECHNICAL DATA

Avatar 8 - 12 SD	8 SD	9 SD	10 SD	12 SD
Working width (m)	8,00	9,00	10,00	12,00
Transport width (m)	2,98	2,98	2,98	2,98
Transport height (m)	3,98	3,98	3,98	3,98
Length (m)	8,72	8,72	8,72	8,72
Axle load (kg)	7000 - 8700	7300 - 9200	7800 - 10000	8400 - 10500
Vertical load (kg)	800 - 1500	1000 - 1600	1200 - 2000	1600 - 2500
Seed hopper capacity double hopper (l)	6300 (40 : 60 / 2500 : 3800)	6300 (60 : 40 / 2500 : 3800)	6300 (40 : 60 / 2500 : 3800)	6300 (40 : 60 / 2500 : 3800)
Seed hopper capacity triple hopper (l)	6400 (30 : 10 : 60 / 1920 : 640 : 3840)	6400 (30 : 10 : 60 / 1920 : 640 : 3840)	6400 (30 : 10 : 60 / 1920 : 640 : 3840)	6400 (30 : 10 : 60 / 1920 : 640 : 3840)
Hopper capacity MiniDrill (l)	400	400	400	400
Feed opening double hopper (m)	per 1,36 x 0,72	per 1,36 x 0,72	per 1,36 x 0,72	per 1,36 x 0,72
Feed opening triple hopper (m)	1,06 / 0,3 / 1,36 x 0,72	1,06 / 0,3 / 1,36 x 0,72	1,06 / 0,3 / 1,36 x 0,72	1,06 / 0,3 / 1,36 x 0,72
Number of seed coulters (Piece)	32	36	40	60 / 48 / 24
Coulter pressure seed coulters (kg)	350	350	350	280 / 350 / 350
Seed coulter Ø (cm)	48	48	48	48
Closing wheels Ø (cm)	33	33	33	33
Depth control wheels Ø (cm)	40	40	40	40
Row spacing (cm)	25	25	25	20 / 25 / 50
Tyre size seed unit/ waggon	520/85 R 38, 580/70 R 38, 710/70 R 38, 900/60 R 32, twin tyres 520/85 R 42	520/85 R 38, 580/70 R 38, 710/70 R 38, 900/60 R 32, twin tyres 520/85 R 42	520/85 R 38, 580/70 R 38, 710/70 R 38, 900/60 R 32, twin tyres 520/85 R 42	520 / 85 R 38, 580 / 70 R 38, 710 / 70 R 38, 900 / 60 R 32, twin tyres 520 / 85 R 42
Tyre size support wheels	Single support wheels 10.8/75-15.3	Single support wheels 10.8/75-15.3	Single support wheels 10.8/75-15.3	Double support wheels 10.8/75-15.3
Operational speed (km/h)	6 - 15	6 - 15	6 - 15	6 - 15
Horsepower requirement (kW/hp)	160 / 220	180 / 250	205 / 280	220 / 300
DA control devices	2	2	2	2
Depressurised return flow (max. 5 bar)	1	1	1	1
Oil quantity hydraulic fan (l/min)	35 - 45	35 - 40	35 - 45	35 - 45
Implement attachment adjustable drawbar (mm)	Ring hitch Ø 58 - 79 mm	Ring hitch Ø 58 - 79 mm	Ring hitch Ø 58 - 79 mm	Ring towing eye Ø 58 - 79 mm
Implement attachment ball head	K 80	K 80	K 80	K 80





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

EN-60208785 (2025)