

HORSCH

Farming with passion

Express TD

PROFESSIONAL SEED DRILL
WITH 3-POINT LINKAGE



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- Safe emergence due to perfect embedding of the seed
- Optimum use of the ideal sowing times due to high hectare output and operational speeds up to 20 km/h
- Simpler, safer, faster – implemented consistently in the whole adjustment process
- Compact arrangement of the tools with 3-point linkage

Express TD

DRIVEN BY THE SOIL

What are the excelling features of the Express TD?

The **Express TD** combines the advantages of a manoeuvrable 3-point mounted seed drill with the efficiency of a Pronto DC. The compact high speed drill with low horse power requirement guarantees a noticeable increase in productivity.

Preparation

The well-proven DiscSystem of the **Express TD** guarantees a perfect production of fine soil at an operational speed of 10 to 20 km/h. Due to the intensive tillage it can do without a pto-shaft. Due to the high clearance the 460 mm discs are very efficient even if there are high amounts of organic material. The working depth of the DiscSystem can be adjusted hydraulically and comfortably from the tractor.

Seedbed preparation

A very even emergence is the prerequisite for an even plant growth. To achieve this aim, the seedbed has to be levelled and consolidated in an optimum way. The packer elements of the FarmFlex packer with a diameter of 54 cm are especially coordinated with the seed coulters.



Seed hopper with a capacity of 1 500 litres



FarmFlex packer with a diameter of 54 cm for strip consolidation. It can be used on any soil.



DiscSystem for intensive cultivation. Resistant even to high amounts of organic material.

DISCSYSTEM – TYRE PACKER

DiscSystem – perfect seedbed preparation in all conditions

- Effective crumbling and even levelling across entire operational width
- High clearance increases operational options and reliability
- Better performance at increased speed
- Hydraulic depth control, adjustable during operation (optional)

Efficient consolidation

- Targeted and homogeneous levelling and consolidation in front of every seed coulters
- Profiled packer for efficient consolidation below the seed horizon guides the water safely to the grain and thus guarantees optimum emergence
- Compact design of the packer (ø 54 cm) while at the same time the load-bearing capacity on light, sandy soils is still high
- Standard carbide scraper guarantee safe working in wet, cohesive conditions



TURBODISC

TurboDisc – the third generation guarantees an advance in seed placement

A perfect placement of the seed and an immediate seed-soil contact are the prerequisites for a safe and regular emergence. HORSCH perfectly meets the challenge to achieve this aim even at high operational speeds. The solution is called TurboDisc. The DoubleDisc seed coulters that HORSCH has been using and developing further for more than 20 years convinces by its precise seed placement. The press-wheel-controlled coulters design allows a quick adaption to the soil at high speeds. This is the only way to keep up the placement depth for every single grain of seed.

The DoubleDisc seed coulters with maintenance-free bearing opens the soil and thus allows for an undisturbed seed placement. The integrated uniformer guarantees a fixing of the seed at the bottom

of the seed furrow even at high operational speeds. A carbide coated scraper keeps the area between the discs clean and prevents blocking even in cohesive and wet conditions. The 5- or 7.5-cm-wide press wheel guarantees optimum seed-soil contact and an exact depth control.

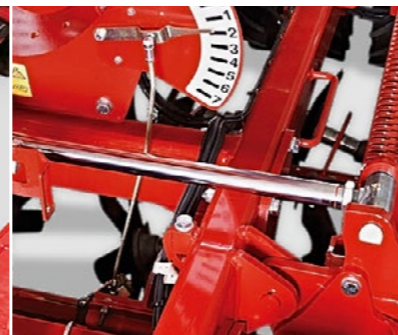
In addition to the excellent adaption to the soil the TurboDisc seed bar impresses by its easy handling: coulters pressure and sowing depth do not influence each other when being adjusted. The maintenance-free rubber bearing of the seed coulters transfers a coulters pressure of 120 kg and thus guarantees a smooth coulters – at an operational speed of up to 20 km/h. Moreover, the rubber bearing acts as an overload protection and shock absorber for stones.



Serrated discs
Better penetration in hard soils



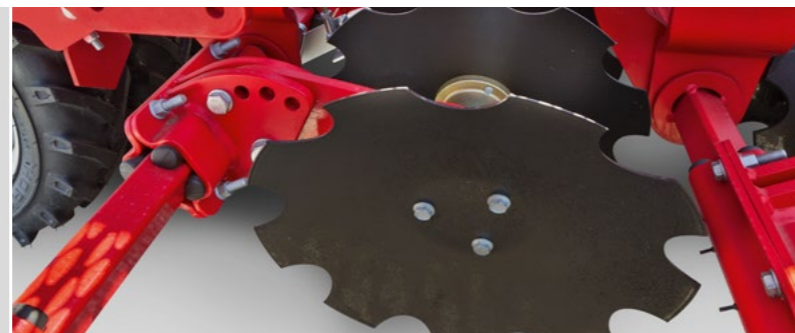
Mounting of discs in pairs
Increased clearance for better performance



Easy working depth adjustment
Hydraulic adjustability during operation



Maintenance-free oil bath bearing
High service life with low wear



Disc adjustment
as track eradicators (optional)



Stepless coulters pressure adjustment
Manual adjustment increases the pre-load of the rubber elements



Uniformer and scraper
Secure seed placement in wet conditions



DoubleDisc coulters
Straight discs with inner maintenance-free bearings

ELECTRONICS INNOVATIVE AND DIGITAL SOLUTIONS

HORSCH Intelligence

The machines of the future co-operate actively and HORSCH Intelligence allows for it. With intelligent software and electronic solutions HORSCH machines work even more efficiently and help you to save money and nerves.

HORSCH technology is always equipped with ISOBUS standard. This does not only mean that every HORSCH machine can be controlled with any ISOBUS terminal. In addition, every HORSCH machine with a job computer can, as a standard, carry out functions like SectionControl, VariableRate or the order processing with the TaskController as soon as the necessary licences have been activated.

SectionControl

The ISOBUS SectionControl function allows for an automatic section control. The current position of the machine is determined via GPS. At the field boundaries, on the headlands or near obstacles, sections or the whole working width are switched off automatically and thus overlapping is avoided.

Advantages of SectionControl

- Saving of seed and fertiliser as overlapping is 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

TaskController

The ISOBUS TaskController allows for easily transferring data from the PC to the terminal. It also is possible to transfer and document seed rates, sown hectares and other data that were recorded while sowing from the terminal to the PC. This facilitates the administration of the acreage index. Orders can be created and worked off via the integrated order handling management.

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

VariableRate

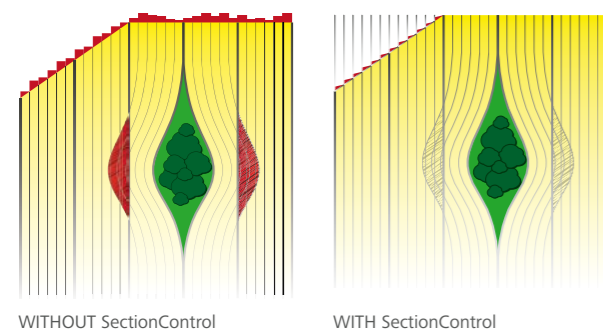
ISOBUS VariableRate allows for a site-specific application of seed and fertiliser. Thus, with an appropriate application card for every section within a field the optimum quantity of fertiliser and seed can be applied.

Advantages of VariableRate

- Saving of seed and fertiliser as only the necessary quantity is applied
- Homogeneous emergence with an 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
 - Fields are drilled or fertilised automatically with the optimum application rate
- Protection of the environment
 - Only the necessary amount of fertiliser is applied.

MultiControl

When using a HORSCH Touch 800/1200 terminal you can also use the MultiControl function. If SectionControl is activated, MultiControl allows for switching on and off seed and fertiliser independently. If sowing is carried out in a site-specific way with VariableRate, MultiControl varies the quantity of fertiliser and seed independently. Without MultiControl, SectionControl allows for either switching on and off either seed or fertiliser at the right time respectively VariableRate allows for varying either seed or fertiliser.

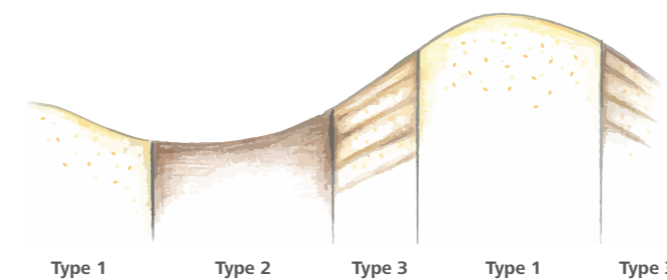


Soil quality	Seed	Fertiliser
high	300 grains/m ²	2.8 dt/ha PK
medium high	270 grains/m ²	2.5 dt/ha PK
medium low	250 grains/m ²	2.3 dt/ha PK
low	220 grains/m ²	2.0 dt/ha PK

VariableRate
Seed OR fertiliser

VariableRate with MultiControl
Seed AND fertiliser

Variable Rate allows for applying site-specific quantities of fertiliser and seed by means of application maps.



VariableRate also takes different types of soil into consideration.



Terminals



EQUIPMENT



Metering unit – Electric drive for metering the seed. Allows for a quick, simple and precise calibration.



Blockage monitoring sensors for seed and fertiliser



Tramline system



Pre-emergence marker (optional)



Spring-loaded track-eradicator tines (optional)



Continuous coulter pressure adjustment
Manual adjustment increases the pre-stressing of the rubber elements



Radar sensor for an exact recording of the speed and to control the seed quantity



Lighting for safe road transport



Storage box – lockable and sealed



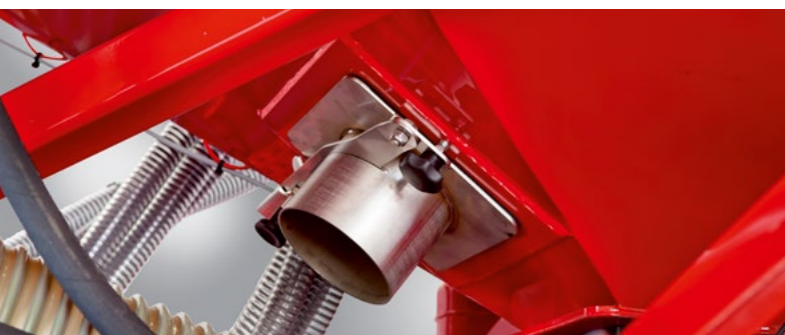
Depth adjustment DiscSystem via two adjusters.
Optional: can be made while driving via two hydraulic cylinders.



2-row DiscSystem – Considerably lower horsepower requirement compared to powered front tools (e. g. power harrow). Excellent seedbed preparation at high working speeds.



Hydraulic depth adjustment DiscSystem (optional)



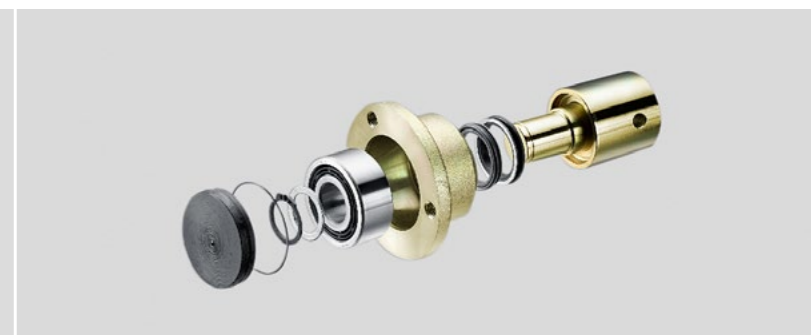
Emptying hopper device



Full width FarmFlex packer – resistant to stones



3-point linkage Cat. III



Maintenance-free oil bath bearing
High service life with low wear

TECHNICAL DATA



HORSCH Express	3 TD	3.5 TD
Working width (m)	3.00	3.50
Transport width (m)	3.00	3.50
Filling height (m)	2.21	2.21
Length without/ Length with PE marker (m)	3.67/4.00	3.67/4.00
Weight (kg)*	2 600–2 950	3 000–3 400
Hopper capacity single hopper (l)	1 500	1 500
Dimension of feed opening (m)	0.88x2.42	0.88x2.42
Number of seed coulters	20	24
Coulter pressure seed coulters (kg)	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32
Row spacing (cm)	15.00	14.50
Packer Ø (cm) FarmFlex packer	54	54
Working speed (km/h)	10–20	10–20
Power demand (kW/hp)	90–140/125–190	105–160/145–220
DA control devices	1 (+1 hydr. fan direct drive, +1 hydr. adjustment DiscSystem, +1 bout marker a. +1 hydr. coulter pressure adjustment)	
Depressurized return flow (max. 5 bar)	1 (only with hydr. fan direct drive)	1 (only with hydr. fan direct drive)
Oil quantity hydr. fan (l/min)	20–25	20–25
3-point linkage	3-point Cat. III	3-point Cat. III

HORSCH Partner FT	Partner FT
Transport width (m)	2.50
Height (m)	1.56
Length without additional weights (m)	1.44
Weight without additional weights (kg)	700
Hopper capacity (l)	1 600
Dimensions of feed openings (m)	2.30x0.67
Filling height (m)	1.56
DA control devices	1
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	20–35
Implement mounting tractor-side	3-point Cat. II and III

* Weight of the empty machines with minimum/maximum equipment

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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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