

**HORSCH**

*Farming with passion*

# Pronto DC

UNIVERSAL SEEDING TECHNOLOGY  
FOR ALL CONDITIONS





# Pronto DC

FASTER – SIMPLER – SAFER



- Safe emergence due to perfect embedding of the seed
- Maximum utilisation of the ideal sowing time due to top hectare output and operational speeds of up to 20 km/h
- Simpler, safer, faster – this motto is true for the whole adjustment process
- Versatile and flexible use: different hopper systems for up to three individual components
- Fertilisation to the point: PPF or G & F fertilisation systems



# Pronto DC

## Universal

The Pronto DC is rightly called a universal seed drill. Universal from two points of view:

- Perfect sowing regardless of the preparatory work: mulch seed, after plough or intensely mixed passes.
- Ideal for sowing the most different crops. In addition to the classical crops, like rape/wheat/barley, it is also possible to sow grass/catch crops and so on.

## Ultimate efficiency

The placement and the embedding of the seed is a crucial factor when sowing. Another essential success factor, however, is that the optimum time window for sowing can be maintained. The high operational speed of up to 20 km/h and the large seed hoppers of the Pronto DC guarantee a long range.

- Pronto 3, 4 rigid and 4 DC: 2 800 liter single hopper
- Pronto 6 DC: 3 500 liter single hopper
- Pronto 7 to 9 DC: 4 000 liter single hopper

If fertiliser is used, the capacity increases to 3 800 resp. 5 000 liter.

## Durable – low wear

The bearings at the working tools of the Pronto DC do not have any servicing points. HORSCH already stroke this path several years ago. Thus, the effort for the daily maintenance is reduced and a high operational reliability is guaranteed even in the most difficult conditions.



Pronto 4 DC PPF



Pronto 6 DC



Pronto 8 DC

- 1** Even germination is the basis for high yields
- 2** **PowerDisc seed coulters** – exact seed placement even in heavy soils
- 3** **Tyre packer with optimised tractor profile** – Effective consolidation in front of each seed coulters
- 4** **DiscSystem** – efficient seedbed preparation in all conditions
- 5** **PPF fertiliser coulters** – precise placement of fertiliser





# The Pronto principle

## CULTIVATION, CONSOLIDATION, SEEDING

### Which requirements does the seed drill have to meet?

- Precise seed placement – as even germination increases yield potential.
- High seeding speed – as perfect timing is essential.
- Tolerance for seedbed conditions – as flexibility saves money.

### How does the Pronto achieve such even germination?

- The DiscSystem loosens, levels and produces fine soil.
- The packing system ensures deep consolidation and equal seeding conditions for all coulters. Several narrow, large-diameter tyres mounted on a rigid axle ensure a high level of even soil surface.
- The mounting of the TurboDisc coulters allows for vertical adjustment movement of up to 15 cm and ensures precise contour following. All seeds are placed exactly at the specified depth.
- 4 rubber elements/coulters release a pressure of up to 120 kg, sufficient to reliably keep them in the ground at high speed.
- The rubber wheel at the coulter-end ensures precise seed depth and proper seed-to-soil contact.



### Faster

- Extremely low power demand – due to low dead weight and power-saving, but very efficient tools
- High output – due to working speeds of 10–20 km/h
- Short turning times – due to compact design
- Low idle times – due to large seed and fertiliser hoppers

### Simpler

- Short set-up times – due to uncomplicated connection to the tractor
- Quickly ready for action – due to easy adjustment of seed quantity, seed depth and coulter pressure
- Unproblematic changing of the seed
- Low maintenance requirements

### Safer

- TurboDisc seed coulter – precise seed placement at high working speeds
- TurboDisc coulters are individually controlled by press wheels and are equipped with integrated shock absorbers
- Exact adaption to uneven soils up to a difference of 15 cm
- Stepless coulter pressure adjustment 5–120 kg per TurboDisc coulter



# DISCSYSTEM – TYRE PACKER

## DiscSystem – perfect seed bed 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

## Tyre packing system with AS thread – robust, effective and easy to pull

- Effective, even levelling and consolidation in front of each coulter. A straight tyre thread increases consolidation at the tyre edges.
- The middle segment of the packer also acts a chassis for transport
- Effective consolidation below the seeds for better capillarity towards the seeds
- Large diameter of tyres (780 mm) and the not-required scrapers reduce the draft requirement

# 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 coulter that HORSCH has been using and developing further for more than 20 years convinces by its precise seed placement. The press-wheel-controlled coulter 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 coulter 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 impresses by its easy handling: coulter pressure and sowing depth do not influence each other when being adjusted. The maintenance-free rubber bearing of the seed coulters transfers a coulter pressure of 120 kg and thus guarantees a smooth coulter – 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



**Adjustable side plates**  
Ensures even levelling between passes



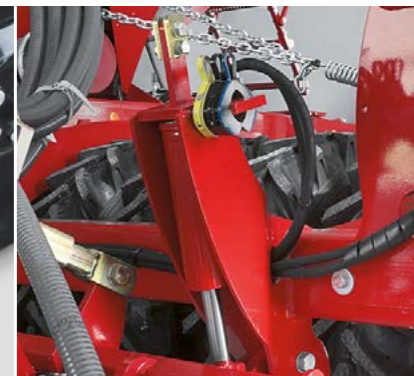
**Front packer**



**Side view packer and seed coulter**



**Uniformer and scraper**  
Secure seed placement in wet conditions



**Effective coulter shock absorption**  
Maintenance-free, minimum wear and tear mounting



**Easy working depth adjustment**  
Hydraulic adjustability during operation



**Maintenance-free bearings**  
Long operation times with little wear and tear



**Disc adjustment**  
as track eradicators (optional)



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



**DoubleDisc coulter**  
Straight discs with inner maintenance-free bearings



**Shock absorbed mounting**  
Good contour-following capability and overload protection



# HORSCH FERTILISER SYSTEMS

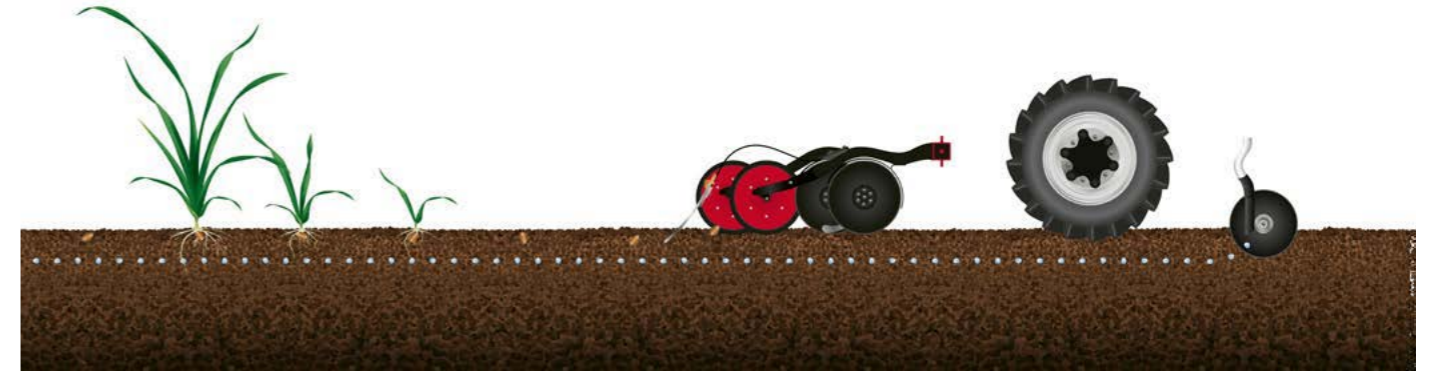


## Grain & Fertiliser

The G & F system allows for simultaneously applying seed and fertiliser as a contact fertilisation. Both metering devices meter into a common distribution tower. Thus, seed and fertiliser are placed together in one furrow. The fertiliser is directly available to the plant, thus contributing to a fast early growth. This system should only be used in the appropriate climatic conditions and upon consultation of a plant production expert.

## Micro-granular unit

The micro-granular compound is transported to the seed pneumatics via an auger metering device and is placed in the seed furrow together with the seed. The extremely resistant stainless steel auger can also be used for aggressive compounds.



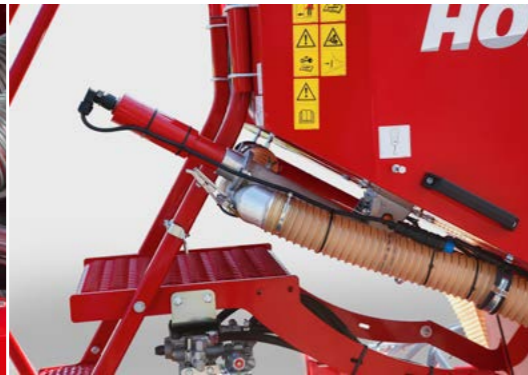
## PPF system – economic and precise placement of fertiliser

The PPF system allows for a simultaneous application of seed and fertiliser. Via separate fertiliser coulters the fertiliser is placed only a few centimetres below the seed furrow in wet soil.

By placing seed and fertiliser separately, large quantities can be applied in dry conditions. The fertiliser depot can be used by the crop in an optimum way and stimulates the roots to grow downwards.



**Compact metering unit**  
Precise metering with electric motor



Micro-granular metering device Pronto 3–6 DC (single hopper)



Micro-granular double hopper for G & F systems with two auger metering devices



Double venturi for simultaneously applying fertiliser in one flow



**PPF fertiliser coulter**  
Maintenance-free coulter with high coulter pressure



**Variable depth adjustment**  
Fertiliser placement between two seed rows, in the centre line of the tyre



**Large double hopper**  
Hopper capacity up to 5 000 l, partition 40 : 60



Contact fertilisation in combination with HORSCH SingularSystem (Pronto 6 DC)



Placement of fertiliser and seed via two divided inlets – combines the advantages of single grain seed and contact fertilisation in rape and cereals



**Two identical metering units**  
Precise metering of seeds and fertiliser





# THE HORSCH SINGULARSYSTEM with the Funck metering device

## Seed couler

- The design of the seed couler and the main characteristics like the couler pressure of up to 120 kg are identical to the well-proven TurboDisc couler.
- Depending on the conditions an operational speed of up to 10 km/h is possible.
- The well-proven DoubleDiscs open the seed furrow. An integrated skid forms the seed furrow and guarantees an exact placement.
- A height-adjustable catching roller allows for a defined placement of the seed and creates the necessary seed-soil contact.
- After the catching roller the well-known press wheel closes the furrow and controls the depth of the seed couler.

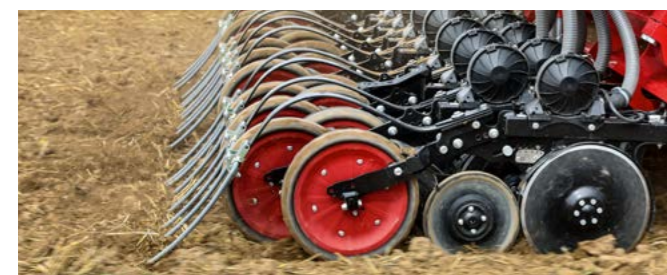
## Seed

- To guarantee an undisturbed and exact mechanical singulation of the grains, the seed has to be even sized and clean.
- The homogeneity of the seed and thus, its suitability for the system can be determined by means of the HORSCH shaker box.
- Generally the grains should be in the second or third chamber of the shaker box.
- If the grains end up in the first or last chamber, this seed is not suitable for singulation (in this case the Bypass system can be used).

## Singulation

- The structure of the central metering unit and the pneumatic system are identical to the conventional seed drills.
- The singulation of the grains is made by the Funck metering device on the seed couler with up to 100 grains/sec.
- Singulation is carried out mechanically by crop-specific pockets in the singulation disc inside the Funck metering device.
- The desired seed rate in grains/m<sup>2</sup> and the thousand seed weight are entered in the terminal.
- The calibration test is carried out according to the well-known system.
- Every singulation disc is driven by an own electric motor (1 000 – 2 000 rpm), monitored by the software and controlled automatically depending on the operational speed.
- Depending on the seed rate 1, 2 or 4 pockets can easily be put into the singulation disc without any tools.
- Different pockets are available for wheat, rye, bayley, rape and peas.

- The seed is transported to the seed furrow via the fall tube.
- From an agricultural point of view the use of the system makes sense up to a seed rate of 250 grains/m<sup>2</sup>. Beyond this limit the singulation effects are only marginal.
- In case of high seed rates, unsuitable seed or if catch crops are to be sown, the delivered Bypass system allows for sowing conventionally.



## Which sieving?

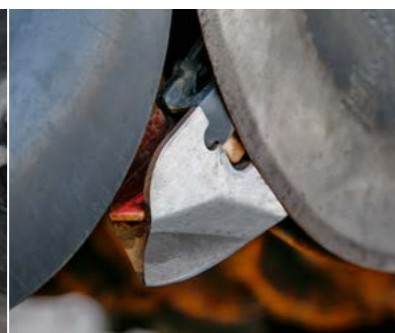
	Rye	Barley	Wheat	Rape
1	> 4.1	> 4.1	> 4.1	> 3
2	3.3–4.1	3.3–4.1	3.3–4.1	2.5–3
3	2.5–3.3	2.5–3.3	2.5–3.3	2–2.5
4	< 2.5	< 2.5	< 2.5	< 2

Sieve gradings in mm for different crops  
(green = good, red = not ok)



Bypass system for seed rates beyond 250 grains/m<sup>2</sup> or seed that is not suitable for singulation

## Singulation discs



Catching roller

Skid

HORSCH shaker box with optimum wheat

HORSCH shaker box with optimum rape

with pocket rape

with pocket wheat

with pocket rye

with pocket barley



# 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

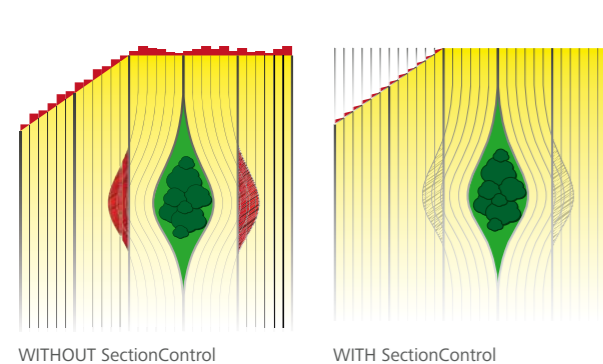
ISOBUS VariableRate allows for a site-specific application of seed and fertiliser. Thus, with an appropriate application card for every section within a field the optimum quantity of fertiliser and seed can be applied.

#### Advantages of VariableRate

- Saving of seed and fertiliser as only the necessary quantity is applied
- Homogeneous emergence with an optimum number of grains/m<sup>2</sup>
- 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.

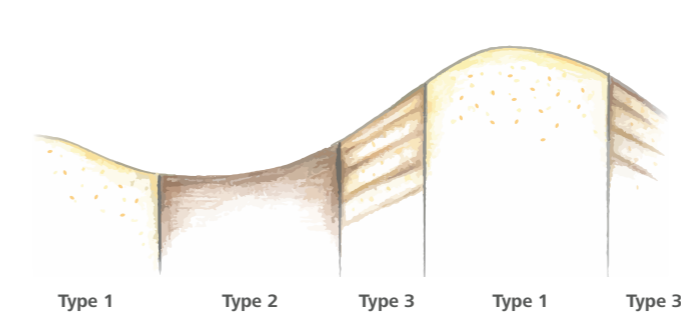


Soil quality	Seed	Fertiliser
high	300 grains/m <sup>2</sup>	2.8 dt/ha PK
medium high	270 grains/m <sup>2</sup>	2.5 dt/ha PK
medium low	250 grains/m <sup>2</sup>	2.3 dt/ha PK
low	220 grains/m <sup>2</sup>	2.0 dt/ha PK

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



Single hopper



Radar sensor



Smooth, precise metering rotors



Hydraulic filling auger



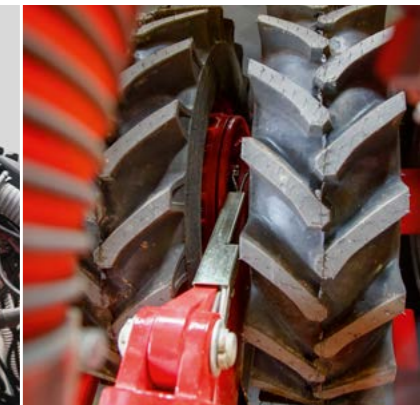
Tank discharge opening



Tool box



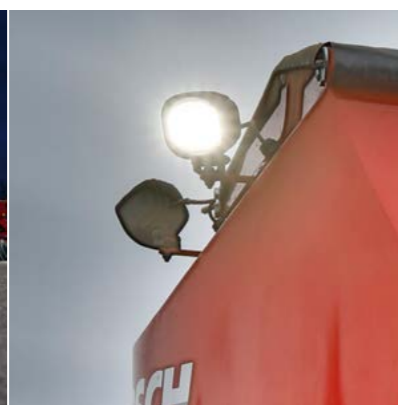
Robust control sensors



Brake system



LED lighting for Pronto 3/4/6 DC



WorkLight Pro, new lighting concept



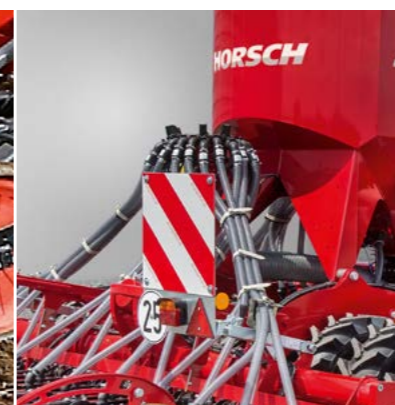
Intermediate packing system



Front packer Pronto 7/8/9 DC



Precision harrow



Lights



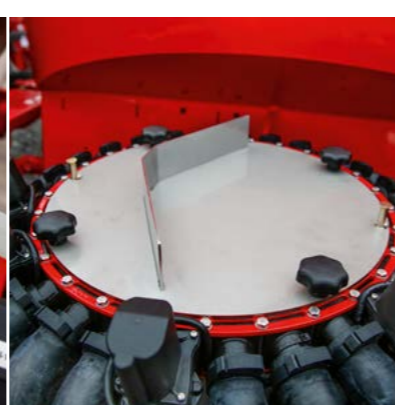
Marker



Track eradicators



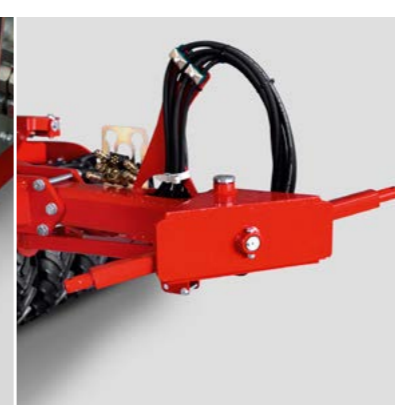
Half-width shut-off electr. Pronto 6 DC



Half-width shut-off of Pronto 8/9 DC



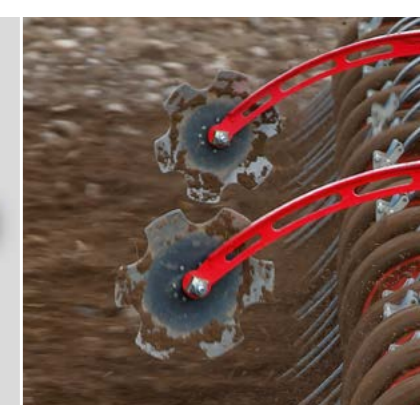
Draw linkage



2-point linkage



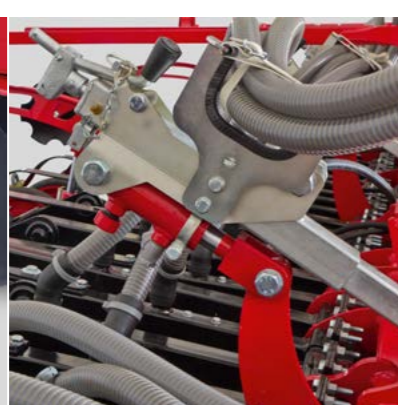
Ball head coupling



Pre-emergence marker



Hydraulic Crossbar



Hydraulic coulters pressure adjustment is available as an option



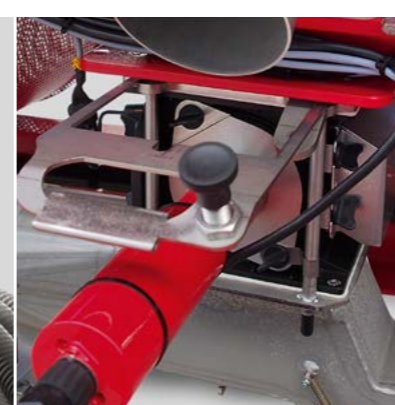
Hydraulic fan



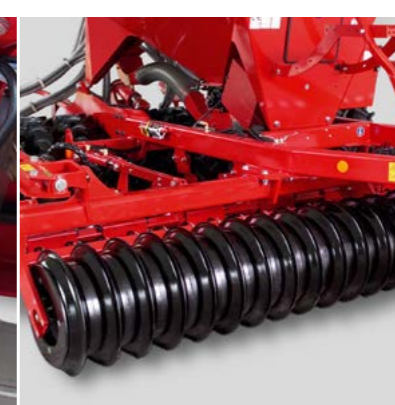
PTO driven pump



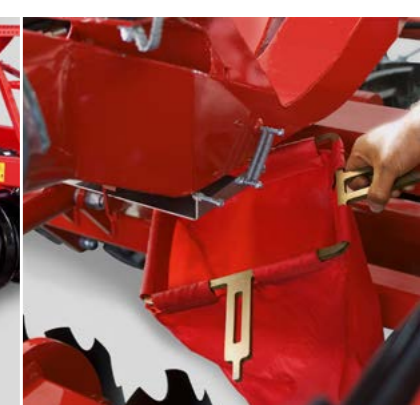
Tramline system



Stop slide Pronto single hopper version



Optional SteelDisc front packer Pronto 4 DC rigid



Simple calibration Quick and precise calibration



# TECHNICAL SPECIFICATIONS



HORSCH Pronto DC	3 DC	4 DC	4 DC rigid	6 DC
Working width (m)	3.00	4.00	4.00	6.00
Transport width (m)	3.00	3.00	4.00	3.00
Transport height (m)	2.95	2.95	2.95	3.60
Length (m)	6.40	6.90	6.80	8.20
Axle load (kg)*	2 700–3 500	4 100–5 350	---	5 700–7 900
Vertical load (kg)*	550–1 200	700–1 450	---	700–1 600
Seed hopper capacity (l)	2 800	2 800	2 800	3 500
Capacity double hopper (l)	3 800 (40:60)	3 800 (40:60)	3 800 (40:60)	5 000 (40:60)
Hopper capacity micro-granular unit (l)	100	100	100	250
Feed opening single hopper (m)	1.00x2.40	1.00x2.40	1.00x2.40	1.00x2.40
Feed opening double hopper (m)	per 0.66x0.90	per 0.66x0.90	per 0.66x0.90	0.66x2.45
Filling height (m)	2.49	2.49	2.49	2.88
Filling height double hopper (m)	2.90	2.90	2.90	2.95
Number of PPF coulters	10	14	14	20
Coulter pressure PPF coulters (kg)	up to max. 200	up to max. 200	up to max. 200	up to max. 200
Number of seed coulters	20	28	28	40
Coulter pressure seed coulters TurboDisc (kg)	5–120	5–120	5–120	5–120
Seed coulters/press wheels Ø TurboDisc (cm)	34/32	34/32	34/32	34/32
Coulter pressure seed coulters PowerDisc (kg)	5–150	5–150	5–150	5–150
Seed coulters/press wheels Ø PowerDisc (cm)	38/34	38/34	38/34	38/34
Row spacing (cm)	15	14.3	14.3	15
Tyre packer size	7.50–16 AS	7.50–16 AS	7.50–16 AS	7.50–16 AS
Tyre packer Ø (cm)	78	78	78	78
Working speed (km/h)	10–20	10–20	10–20	10–20
Power demand (kW/hp)	80–110/110–150	95–130/130–180	95–130/130–180	120–185/160–250
Double-acting control devices		3 (resp. +1 for filling auger, coulter pressure adjustment, Crossbar)		
Depressurized return flow (max. 5 bar)	1	1	1	1
Oil quantity hydr. fan (l/min)		20–25 single hopper/35–45 double hopper		
Lower link linkage	Cat. II/III–III–III/IV	Cat. II/III–III–III/IV	Kat. II/III–III–III/IV	Cat. II/III–III–III/IV
Adj. draw linkage	---	---	---	Bolt Ø 40–50 mm
Ball-type linkage	---	---	---	K 80

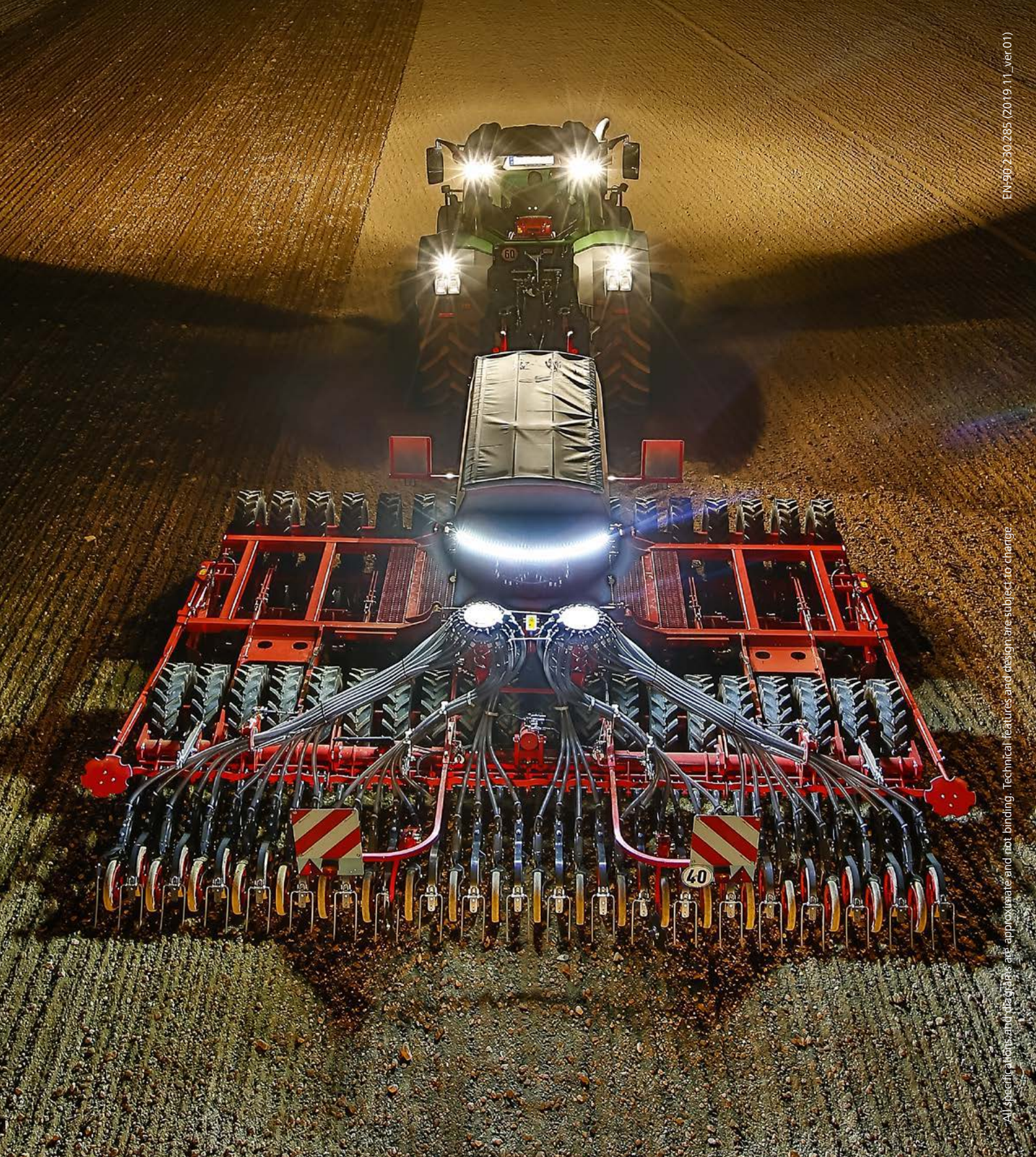
\* Weight of the machines unloaded with minimum/maximum equipment

HORSCH Pronto DC	7 DC	8 DC	9 DC
Working width (m)	7.50	8.00	9.00
Transport width (m)	2.99	2.99	2.99
Transport height (m)	3.60	3.70	3.97
Length (m)	8.30	8.25	8.50
Axle load (kg)*	7 500–9 400	7 800–10 150	9 200–11 200
Vertical load (kg)*	750–1 700	750–1 800	750–1 800
Seed hopper capacity (l)	4 000	4 000	4 000
Capacity double hopper (l)	---	5 000 (40:60)	5 000 (40:60)
Dimension feed opening (m)	1.00x2.40	1.00x2.40	1.00x2.40
Feed opening double hopper (m)	---	0.66x2.45	0.66x2.45
Filling height (m)	3.10	3.10	3.10
Number of seed coulters	52	52	60
Coulter pressure seed coulters (kg)	5–120	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32	34/32
Row spacing (cm)	14.4	15.4	15
Tyre packer size/Ø (cm)	7.50–16 AS/78	7.50–16 AS/78	7.50–16 AS/78
Working speed (km/h)	10–20	10–20	10–20
Power demand (kW/hp)	145–205/200–280	155–215/210–290	175–240/240–330
Double-acting control devices		3 (resp. +1 for filling auger, front packer)	
Depressurized return flow (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	35–45	35–45	35–45
Lower link linkage	Cat. III–III/IV	Cat. III–III/IV	Cat. III–III/IV
Adj. draw linkage	Bolt Ø 40–50 mm	Bolt Ø 40–50 mm	Bolt Ø 40–50 mm
Ball-type linkage	K 80	K 80	K 80

\* Weight of the machines unloaded with minimum/maximum equipment







EN-56-236-285 (2019\_11\_ver.01)

All specific colors and designs are approximate and not binding. Technical features and designs are subject to change.

[horsch.com](http://horsch.com)

Your distributor:

# HORSCH

**HORSCH Maschinen GmbH** Phone: +49 9431 7143-0  
Sitzenhof 1 Fax: +49 9431 7143-9200  
92421 Schwandorf E-Mail: [info@horsch.com](mailto:info@horsch.com)

**Paper:** 120 g/m<sup>2</sup> 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](http://www.eu-ecolabel.de). **Printing ink:** Printing ink QUICKFAST COFREE. Free from mineral oil and cobalt. Moreover, it is certified and recommend 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](http://www.c2c-ev.de).