

# Sprinter

# **HORSCH**

*Farming with passion*

Sprinter ST

Sprinter NT

Sprinter SW

## INNOVATIVE AND ROBUST TINE SEEDING TECHNOLOGY





# Sprinter

## FLEXIBILITY, THE WAY TO SEED TODAY



Sprinter ST

### HORSCH. Working side by side with farmers

Specialisation, growth, cooperation: due to rapid changes in agriculture, manufacturers of agricultural equipment are facing new challenges. Optimising the cultivation, seeding and harvesting process, reducing costs as well as increasing yields and quality of crops are our prime goals. As an innovative pioneer, HORSCH has become one of the leading manufacturers of cultivation and seeding technology. New technological standards are rigorously tested in our trials – standards of quality, precision and durability. HORSCH advises farmers on the development of individual cropping systems and farming strategies. Together with our distributors and service agents HORSCH aims to provide the best customer service by ensuring that repairs are carried out swiftly and that spare parts are always available.

### Soil preparation, seeding, fertilisation, consolidation

The **Sprinter ST** is a tine seeder that combines soil preparation, seeding and fertilisation in one pass. The robust Sprinter has clear advantages in min-till conditions, with lots of straw residues still remaining on the soil surface. Strong frame design, low draft coulters and large seed hoppers allow high performance with an excellent economic input/output ratio.

Several time-consuming processes are reduced to one pass, thus increasing the precision of seed and fertiliser placement. The gentle tyre packing system\* ensures optimal seed to soil contact. Not only does the use of the Sprinter result in better efficiency, but in an improved, even seed germination and stronger plants (HORSCH PPF system\*). Ideal conditions for high yield potential are thereby created.

\* not for Sprinter NT

### Three models to help you to achieve these aims

- Sprinter ST:
  - 3 ST: tandem packer (without brake), tyre packer (with brake)
  - 4/6 ST: only tandem packer (with and without brake)
  - 8 ST: only tyre packer (with and without brake)
- Sprinter 8/9/12 SW: only tyre packer (with and without brake)
- Sprinter NT

### Seeding with high precision

The multi-row frame of the Sprinter is carried by front wheels/front packer and the tandem tyre packer. The depth control is separate for each frame section. Thus, each section can adjust individually to the ground surface and place the seeds precisely at the set depth. When lifting or lowering the Sprinter, the whole frame is moved to ensure quick u-turns and an even start of operation.

All **Sprinter ST** are equipped with large-capacity seed hoppers up to 5 000 litres. The seed waggon of the **Sprinter SW** even has a capacity of 8 000 litres of seed and fertiliser for maximum efficiency. For the **Sprinter NT** the capacity is up to 17 000 litre.

The coulters are mounted on durable tines with a trip release system. The trip release system requires more than 200 kg of force in order to set off. This ensures consistent seeding depth – also in problematic soil types and conditions.

The coulters place the seeds in bands. A harrow provides even soil coverage (except for Sprinter 8 ST/12 SW). Finally each seed band is consolidated with a tyre packer (tractor treaded tyres) to guarantee good seed to soil contact (except for Sprinter NT).



Sprinter 15 NT



Sprinter SW

### Your benefits include:

- High efficiency by combining soil preparation and seeding in one pass
- Good performance (acreage per hour)
- Flexible handling
- Excellent levelling qualities
- Large tine stagger guarantees high trash clearance
- High coulter pressure (up to 285 kg for Sprinter ST/SW) ensures precise depth control
- Optimal seed to soil contact
- High efficiency due to large-capacity hoppers
- 3 to 12 metre working width for Sprinter ST and SW
- 11 to 24 metre working width for Sprinter NT



# COULTERS

## SPECIALISED FOR INDIVIDUAL REQUIREMENTS

The **HORSCH MultiGrip tine** has balanced spring characteristics with a coulters pressure of 285 kg. The powerful set of springs ensures precise coulters setting and therefore seeding depth – even in heavy soil. High quality materials and large pivoting points make grease nipples unnecessary. The seed coulters of the Sprinters are arranged in 3 bars with a tine spacing from 25 cm to 32 cm (depending on the working width). (Sprinter 3/4/6 ST: 3-bar, Sprinter 8 ST: 2-bar, Sprinter 8/9 SW: 3-bar, Sprinter 12 SW: 2-bar).

Different coulters are available which can be changed easily. The coulters prepare a perfect seed bed. Like a cultivator they loose, level, mix and crush the soil. The coulters remove stones, rough soil clods and straw residues from the area of seed placement. The seeds are placed with precision and the young plants can grow undisturbed and develop a strong root system.

The **Sprinter NT chisel coulters sowing technology** allows for a high amount of fine earth in the seed row and for the placement of the seed in a so-called “open furrow”. The seed coulters forms a furrow and removes lumps and organic material from the seed horizon.

**Your benefits include:**

- Optimal seed bed preparation
- Precise seed placement
- Simultaneous fertiliser placement with HORSCH PPF system optional (not for Sprinter NT)
- Low maintenance and wearing costs (Sprinter ST and SW)
- Sprinter NT ideal for no-till farming

# HARROW AND TANDEM PACKER

## LEVELLING, COVERING, CONSOLIDATION

To ensure proper seed coverage and an even soil/straw distribution above the seed bands, a 2-row harrow follows behind the coulters (for Sprinter 8 ST and 12 SW this is carried out via a disc levelling system). The harrow can be adjusted in height and angle.

At last, the tandem tyre packer consolidates the seed band. Sprinter 3 ST: tandem packer (without brake), tyre packer (with brake), Sprinter 4/6 ST: only tandem packer (with and without brake), Sprinter 8 ST: only tyre packer (with and without brake), Sprinter 8/9/12 SW: only tyre packer (with and without brake). The packing system is aligned in such a way that each tyre follows exactly behind a coulters. Thus, each seed band is consolidated evenly and each seed has optimal soil contact. The tyres have a tractor profile tread and are filled with air.

The tractor profile of the tyres and the consistent tensioning of the rubber keep the tyres clean, also under wet conditions. For road transport, the middle section of the packing system acts as transport wheels, except for Sprinter NT which has an own chassis. An additional front packer on the Sprinter improves the crumbling and the levelling of the soil and facilitates an exact seed placement.

**Your benefits include:**

- Precise depth control
- Even coverage of seeds
- Optimal seed to soil contact by aligning packing system with coulters
- Self cleaning tyre packer



The Duett coulters with dry fertiliser injector in combination with the MultiGrip shank is a combination coulters for simultaneous seed and fertiliser placement which places the seeds in a double row

Sprinter SW Duett coulters with liquid fertiliser pipework

NT chisel coulters remove lumps from the seed horizon and place the grain precisely

2-row harrow for even distribution of soil and straw

Tyre packer (tandem packer)

Individual depth adjustment with ClipOn spacers



# Sprinter ST/SW

## INNOVATIVE AND ROBUST

## TINE SEEDING TECHNOLOGY

### Sprinter ST/SW

The **Sprinter** is a robust, compact and multifunctional tine seed drill available in working widths from 3 to 12 m. Due to the Duett coulter it is possible to sow, fertilise (except for Sprinter 8 ST) and at the same time cultivate the soil effectively as well as produce fine soil in the area where the seed is placed.

The **Sprinter** tines effectively remove harvest residues from the seed horizon. Due to its large-capacity seed hopper the Sprinter is a high hectare output machine.

The seed coulters of the **Sprinter** are arranged in 3 bars (Sprinter 8 ST and 12 SW in 2 bars) with a tine spacing of 25 cm to 32 cm. They prepare the seedbed in an optimal way. As with a cultivator tine the soil is loosened, levelled, mixed and crushed.

### Your benefits include:

- Universal use: after plough, minimum cultivation and direct sowing
- **Sprinter ST:** up to 4 000 l seed or 5 000 l seed + fertiliser
- **Sprinter SW:** up to 8 000 l seed or 4 000 l seed + 4 000 l fertiliser
- Working speeds of 8–15 km/h
- Tines remove harvest residues effectively from the seed horizon
- High coulter pressure (285 kg) for exact depth control
- Low horsepower requirement
- Seeding coulter and tools for mixing, crushing and levelling
- Specific consolidaton in the germination zone
- High efficiency of the Sprinter with large hopper for fertiliser and seed

### Large seed hopper

The seed waggon 8 000 SW of the **Sprinter SW** has a capacity of 8 000 litres (partition 50 % seed/50 % solid or liquid fertiliser).

### Good manoeuvrability

A two-point pivoting headstock links the compact Sprinter with the tractor. Tractors with wide tyres can make close turns, up to 90°. Any mechanical drives were eliminated.

### Precise depth control

The Sprinter is carried and the seeding depth controlled by two front wheels, the tandem packer\* and the tractor. A front packing system is optional and supports precise depth control.

### PPF system for granular or liquid fertiliser

The **Sprinter ST/SW** can be equipped with the HORSCH PPF system (Precision Placement of Fertiliser). The granular or liquid system includes a two compartment hopper for seed and fertiliser on the SW.

### Your benefits include:

- Compact design
- Good manoeuvrability and low draft requirement
- Easy to use
- Large seed hopper

\* Sprinter 8 ST and 8/9/12 SW: only tyre packer (with and without brake)



Side limitation on the Sprinter ST

Sprinter ST with PPF

Sprinter ST with single hopper

**Sprinter 12 SW:**  
Support wheel with intermediate packer

Harrow behind the packer  
(optional for Sprinter SW/ST)

**Front packer** for first levelling  
and then improved depth control

Seed waggon 8000 SW of the Sprinter SW  
for maximum efficiency



# Sprinter NT

## EFFICIENT TINE SEED DRILL

### FOR NO-TILL FARMING



The **Sprinter NT** with 11 and 24 metre working width stands for maximum efficiency. The HORSCH NT chisel coulter sowing technology allows for a high amount of fine earth in the seed row and for the placement of the seed in a so-called “open furrow”.

The seed coulter forms a furrow and removes lumps and organic material from the seed horizon. The seed is placed into this furrow and fixed in the wet soil by the press wheel. Thus, very good emergence is achieved even under extreme climatic conditions. Sowing is possible into cultivated as well as into uncultivated soil. The seed drill is ideal for no-till farming.

The **Sprinter 24 NT** achieves maximum efficiency due to its working width and the corresponding seed hopper SW 17000 SD with a hopper capacity of 17 000 litre.

The 11/15 metre wide version has some particular characteristics: Seed waggon and seed unit are a more compact unit. Moreover, the **Sprinter 11/15 NT** is equipped with a slightly smaller seed waggon with a capacity of 12 000 litre.

#### The advantages of the Sprinters at one glance:

- Optimal seed drill for no-till farming
- Perfect for professional large farms
- Seed horizon is free from straw and lumps
- Sowing into the open furrow. Seed grain falls in wet soil for optimum germination conditions.
- Press wheel fixes seed grain in the wet soil
- Maximum efficiency due to a hopper capacity of up to 17 000 litre
- Hydr. coulter pressure adjustment with overload protection
- **Sprinter 11/15 NT:** compact with low power demand
- Partitioned hopper allows for a simultaneous placement of seed and fertiliser in the seed furrow
- User-friendly: Almost no moving and very low-wearing parts at the seed elements
- Tine bearing in rubber elements: robust and maintenance-free
- All components are very easy accessed



Sprinter 11 NT



NT chisel coulters remove lumps from the seed horizon and place the grain precisely



Press wheel for depth control of the seed coulters



Sprinter 24 NT on the road



Sprinter 24 NT while folding



Sprinter 24 NT at work



# PPF SYSTEM

- PPF system – Precise and efficient placement of fertiliser**
- Precise placement of nutrients close to the plant
  - Quick and sustainable fertiliser effect
  - High efficiency of fertiliser
  - High stability of fertiliser
  - Good plant tolerance also with large fertiliser quantities
  - High economic viability of fertiliser usage
  - Available as an option for Sprinter ST and SW (except for Sprinter 8 ST)

# MICRO-GRANULAR COMPOUND

- Micro-granular unit for Sprinter 3/4/6 ST**
- Resilient auger metering device made of stainless steel
  - Easy calibration
  - Electronic control of the metering quantity
  - Direct feed-in into the seed pneumatics
  - For Sprinter 4 and 6 ST application of up to three components is possible (seed, fertiliser and micro-granular compound)



PPF fertiliser coulter – maintenance-free coulter with high coulter pressure



Sprinter 4 ST with double hopper



Micro-granules metered by an auger (Sprinter 3/4/6 ST)



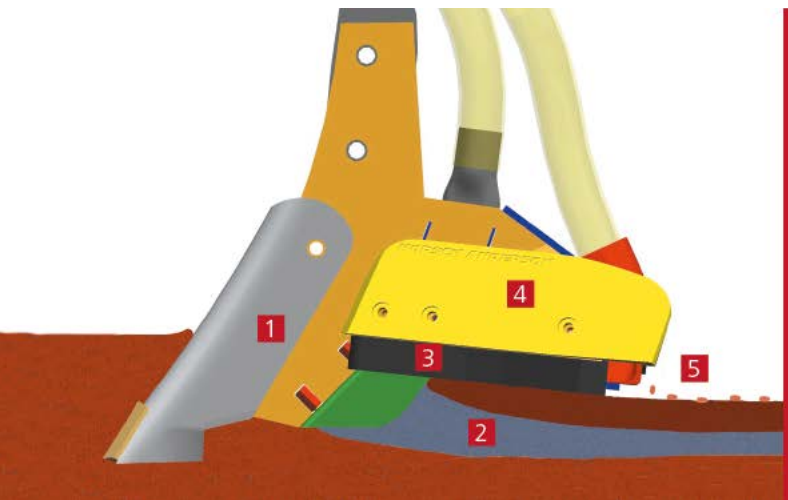
High performance metering unit with various seed rollers for different seed rates



Distribution tower with tramlines valves, seed flow sensors and half-width shut-off



Permanent seed flow control by means of sophisticated sensor technology (optional)



- 1 Replaceable coulter point – opens the soil and loosens the area below the seeds
- 2 Fertiliser pipe – to place the fertiliser below the seeds
- 3 Wedge shaped plate – closes the slot and consolidates the soil for 2–3 cm.
- 4 Plastic slide shield – soil does not stick to it, even under wet conditions
- 5 Seed pipe, seed placement in a double row



Compact metering unit  
Precise metering with electric drive



Sprinter distribution heads  
for an optimum cross distribution



Duett coulter



# ELECTRONICS INNOVATIVE AND DIGITAL SOLUTIONS



## 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

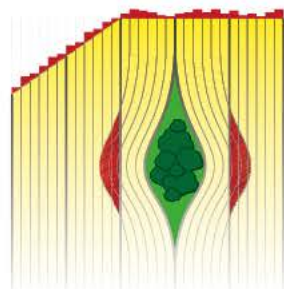
## SectionControl

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 (half-widths) or the whole working width is shut-off automatically.

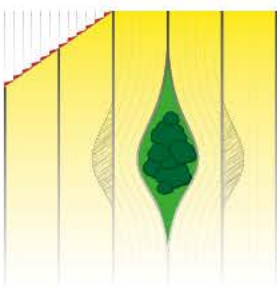
When using a HORSCH Touch 800/1200 Terminal you can additionally use the MultiControl function. This function independently switches on and off the application of fertiliser and seed. Without MultiControl either fertiliser or seed can be switched on and off at the right time.

### 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



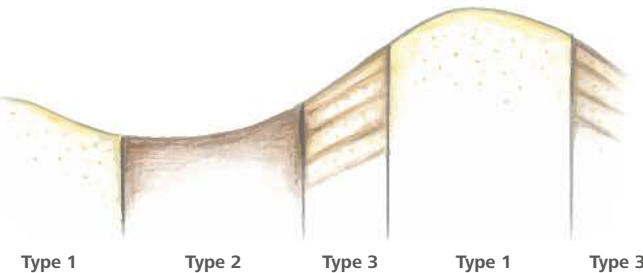
WITH SectionControl

## 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/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
  - 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/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

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



# TECHNICAL SPECIFICATIONS

HORSCH Sprinter ST	Sprinter 3 ST	Sprinter 4 ST	Sprinter 6 ST	Sprinter 8 ST
Working width (m)	3.00	4.00	6.00	8.00
Transport width (m)	3.00	3.00	3.00	3.00
Transport height single hopper (m)	3.00	2.80	3.35	4.00
Transport height double hopper (m)	3.40	3.30	3.35	---
Length with lower link linkage (m)	8.20	8.51	8.51	7.35
Length with adjustable drawbar linkage (m)	---	---	---	7.55
Weight with single hopper (kg)*	3 200	4 000	5 400	7 250
Weight with double hopper (kg)*	3 450	4 550	6 020	---
Seed hopper capacity (l)	3 000	2 800	3 500	4 000
Double hopper capacity (l)	3 800 (40 : 60)	5 000 (40 : 60)	5 000 (40 : 60)	---
Feed opening single hopper (m)	1.00x2.40	1.00x2.40	1.00x2.40	1.00x2.40
Feed opening double hopper (m)	per 0.60x0.90	per 0.60x0.90	per 0.66x1.22	---
Filling height single hopper (m)	2.60	2.46	2.69	2.85
Filling height double hopper (m)	3.00	2.95	2.95	---
Coulter spacing (cm)	25.00	28.60	27.30	32.00
Number of seed coulters/coulter rows	12/3	14/3	22/3	25/2
Tyre packer size tandem packer	185/65–15 AS	7.50–16 AS	7.50–16 AS	---
Tyre packer size rigid packer	6.00–16 AS	---	---	7.50–16 AS
Tyre packer tandem/rigid Ø (cm)	65/74	--/78	--/78	--/78
Working speed (km/h)	8–15	8–15	8–15	8–15
Power demand (kW/hp)	75–100/100–140	90–120/120–160	120–160/160–230	160–220/220–310
Double-acting control devices	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)
Depressurized return flow (max. 5 bar)	1	1	1	1
Oil quantity hydr. fan (l/min)	20–25/35–45 (PPF system)	20–25/35–45 (PPF system)	20–25/35–45 (PPF system)	20–25
Lower link linkage	Cat. II/III–III–III/IV	Cat. II/III–III–III/IV	Cat. II/III–III–III/IV	Cat. III–III/IV–IV
Adj. drawbar linkage	---	---	---	Pin Ø 50–70 mm
Ball-type linkage	---	---	---	K 80

\* Weights of the machine with minimum equipment and tandem packer (Sprinter 8 ST tyre packer) without brake

HORSCH Sprinter SW	Sprinter 8 SW	Sprinter 9 SW	Sprinter 10 SW	Sprinter 12 SW
Working width (m)	8.00	9.00	10.00	12.00
Transport width (m)	3.00	3.00	3.00	3.30
Transport height (m)	4.00	4.00	4.50	4.00
Length without SW 8000 SD (m)	6.85	6.85	6.85	5.95
Length with SW 8000 SD (m)	12.10	12.10	12.10	11.30
Weight without SW 8000 SD (kg)*	7 000	7 700	8 400	10 300
Weight with SW 8000 SD (kg)*	10 750	11 500	12 200	14 200
Hopper capacity seed waggon (l)	8 000 (50 : 50)	8 000 (50 : 50)	8 000 (50 : 50)	8 000 (50 : 50)
Dimension feed opening (m)	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72
Filling height (m)	3.05	3.05	3.05	3.05
Coulter spacing (cm)	28.50	30.00	30.00	30.00
Number of seed coulters/coulter rows	28/3	30/3	34/3	40/2
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)	8–15	8–15	8–15	8–15
Power demand (kW/hp)	200–270/270–370	220–310/300–420	240–330/330–450	240–330/330–450
Double-acting control devices	2	2	2	2
Depressurized return flow (max. 5 bar)	1	1	1	1
Oil quantity hydr. fan (l/min)	50–60	50–60	50–60	70–90
Adj. drawbar linkage	Pin Ø 50–70 mm	Pin Ø 50–70 mm	Pin Ø 50–70 mm	Pin Ø 50–70 mm
Ball-type linkage	K 80	K 80	K 80	K 80

\* Weights of the machines with minimum equipment with front support wheels and seed system partitioned hopper

HORSCH Sprinter NT	Sprinter 11 NT	Sprinter 15 NT	Sprinter 24 NT
Working width (m)	10.80	15.00	24.00
Transport width (m)	6.60	6.60	6.75
Transport height (m)	3.70	5.55	6.10
Length without SW (m)	6.70	6.70	9.60
Length with SW 12000 SD (m)	12.35	12.35	---
Length with SW 17000 SD (m)	---	---	17.70
Weight without SW from (kg)*	7 650	8 800	16 000
Weight with 12000 SD (kg)*	12 350	13 500	---
Weight with 17000 SD (kg)*	---	---	21 200
Hopper capacity seed waggon (l)	12 000 (50 : 50)	12 000 (50 : 50)	17 000 (50 : 50)
Dimension feed opening (m)	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72
Filling height (m)	3.40	3.40	3.55
Coulter spacing (cm)	30	25/30	30
Number of seed coulters/(coulter rows)	36/(3)	60/50/(3)	80/(3)
Rollers Ø (cm)	40	40	40
Rollers/coulter pressure (kg)	5–120	5–120	5–120
Tyre size seed waggon	Twin tyres 20.8 R 42 (resp. 520/85 R 42)		
Tyre size chassis	400/60–15.5	400/60–15.5	420/75 R 20
Tyre size support wheels	400/60–15.5	400/60–15.5	400/60–15.5
Working speed (km/h)	7–10	7–10	7–10
Power demand (kW/hp)	210–235/285–320	260–295/350–400	405–440/550–600
Double-acting control devices	3	3	3
Depressurized return flow (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	40–50	40–50	50–60
Adj. drawbar linkage	Pin Ø 50–55 and 60–70 mm	Pin Ø 50–55 and 60–70 mm	Pin Ø 70 mm (tractor)
Ball-type linkage	K 80	K 80	K 80 (machine)

\* Weights of the machines with minimum equipment







[horsch.com](https://www.horsch.com)

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