HORSCH

Farming with passion

PRODUCT OVERVIEW


HORSCH

CONTENT

FARMING HEROES

POWERED BY

HORSCH

FARMING
WITH **PASSION**

WE WANT TO BUILD THE BEST AGRICULTURAL MACHINES

We feel committed to the farmers' community and the wishes of our customers. Thus, it is only logical that for our products and services we aim for the highest standard. This is true for research, design and development as well as for assembly, technical service and advisory service. **We take the time** for extensive studies, use the machines on our own farms, more than 3 000 hectare – to experience ourselves what we have developed and what we are talking about.

We assume **responsibility** in farming and share the feelings of our customers – this is what we are working for with all our **passion**.

WE WANT TO SHARE OUR PASSION FOR FARMING

As we are farmers ourselves, there is always an **exchange** with our customers to stay well informed about their **requirements** with regard to our products. They are our **motivation**, our **driving force** and our **partner** at the same time. We attach great importance to a close contact to our customers and to approach them on an equal level. We are a **forum** and a **community for farmers** where we talk to each other, carry out tests and exchange experiences to – together with them – get better and better. This **bond** is our **backbone** helps us never to forget what we are working for.

We want to **advance** and **inspire farming** as farming inspires us and we want to give every farmer the possibility to contribute personally.

THERE IS NO SUCCESS WITHOUT PASSION

When we thought about a perfect slogan for HORSCH, there was one that quickly came to mind: "**Farming with passion**". For this passion can be found in each of our **products** and also in the actions of every single HORSCH employee.

Everyone in the company – from the management to the mechanic – lives the **passion** that makes a simple product a unique one that excels due to **innovation** and **uncompromising quality** and can be adapted perfectly to the requirements of every single farmer in every country.

"We have always been and will always be farmers who intensively deal with a sustainable cultivation of the soil. Farming has a **future** and it is worth it to work hard – for the farmer as well as for the manufacturer of agricultural machinery. Each time a farmer looks into the rear-view mirror of his tractor and sees red he is to know that he opted for **uncompromising quality**."

Philipp Horsch | Cornelia Horsch | Michael Horsch

TILLAGE

UNIVERSAL TILLAGE

Joker CT / RT Classic

Precise and quick stubble cultivation

The **Joker** is ideally suited for shallow stubble cultivation to stimulate the germination of volunteer crops, to interrupt capillarity, to mix in harvest residues and for a shallow seed bed preparation. It produces a high ratio of fine soil in the germination horizon and is resistant to high amounts of straw, organic fertilisers or catch crops.

The disc harrow is available as **Joker CT** for 3-point attachment and as **Joker RT** Classic with its own chassis in larger working widths. High hectares output is possible due to high working speeds up to 20 km/h. A one-bar deep loosening **Mono TG** is available as an additional option for the Joker 3, 3.5 and 4 CT rigid. It is particularly suitable for the use on heavy sites where the soil has to be loosened deeply and the harvest residues, however, only have to be mixed in in a shallow way.

1

The Joker leaves a fine crumbly, consolidated soil for the best germinating conditions

2

Robust DiscSystem guarantees optimum mixing quality and levelling

3

Intensive crumbling and consolidation due to effective packer systems

4

MiniDrill with 400-l hopper for high efficiency for catch crops and greening

1

2

3

4

The advantages of the Joker at one glance:

- Produces high ratio of fine soil in the germination horizon
- Efficient consolidation in the germination horizon
- Low possibility of blockages when there is long harvest residues and shallow cultivation. Highest possible crop residue passage with disc elements arranged in pairs.
- Increasing working quality with increasing working speed
- High hectares output with low horse power requirement
- Best penetration due to aggressive serrated angled discs and high weight of the machine

Joker CT / RT Classic

Technical specifications

Mono TG / Joker CT

HORSCH Joker	3 CT	3.5 CT	4 CT	4 CT rigid	5 CT	6 CT
Working width (m)	3.00	3.50	4.00	4.00	5.00	6.00
Transport width (m)	3.00	3.50	2.95	4.08	2.95	2.95
Transport height (m)	1.90	1.90	2.80	1.90	3.25	3.70
Length (m)	2.50	2.50	2.90	2.50	2.90	2.90
Length incl. Mono TG (m)	3.70	3.70	---	3.48	---	---
Weight (kg)*	1 580	1 800	2 460	2 080	2 850	3 280
Weight incl. Mono TG (kg)	2 320	2 590	---	3 280	---	---
Number of tines Mono TG	5	6	---	8	---	---
Tine spacing Mono TG (cm)	60	59	---	50	---	---
Disc diameter Ø (cm)	52	52	52	52	52	52
Disc thickness (mm)	6	6	6	6	6	6
Number of discs	24	28	32	32	40	48
Disc angle (degree)	17	17	17	17	17	17
Power demand (kW / hp)	65 – 90 / 90 – 120	75 – 100 / 100 – 140	90 – 120 / 120 – 160	90 – 120 / 120 – 160	110 – 150 / 150 – 200	130 – 175 / 180 – 240

HORSCH Joker	5 RT Classic	6 RT Classic	8 RT Classic
Working width (m)	4.75	5.75	7.25
Transport width (m)	3.00	3.00	3.00
Transport height (m)	2.85	3.35	4.00
Length (m)	6.00	6.00	6.00
Weight from (kg)*	4 660	5 050	5 850
Tyre size chassis	400/60 – 15.5	400/60 – 15.5	400/60 – 15.5
Disc diameter Ø (cm)	52	52	52
Disc thickness (mm)	6	6	6
Number of discs	40	48	60
Disc angle (degree)	17	17	17
Power demand (kW / hp)	110 – 155 / 150 – 210	130 – 175 / 180 – 240	175 – 235 / 240 – 320

* Weights of the machines with minimum equipment with Rollflex packer

The depth effects and the primary use of the different **HORSCH packer versions**.

SteelDisc packer — Tyre packer — Cage drum roller — RollCut packer — RollFlex packer — RollPack packer

Large and robust bearing – shaft diameter of 35 mm with maintenance-free permanent lubrication

Serrated discs, arranged in pairs

Chassis **Joker RT Classic**

TerraGrip tines at the Mono 3 TG with LD (low disturbance) coulters

RollFlex packer with spring steel packer elements

FarmFlex packer for optimum consolidation even on light soils

Closed **SteelDisc packer** with cutting packer rings and scrapers

Flexable **tyre packer** with tractor profile

Joker RT

Quick stubble cultivation with large working width

Strong points and advantages of the Joker RT:

— Produces high quantities of fine soil

— Efficient consolidation in the germination horizon

— No problems with long harvest residues and shallow cultivation. High clearance as the disc elements are mounted in pairs.

— Excellent operational results

— Good penetration due to aggressive, serrated hollow discs

— Cone-shaped discs for a constant cutting angle of 17°

— Compact machine with high levelling capacity

— Discs are mounted in rubber elements, thus increasing the operational life and improving the contour-following qualities

— Double-RollPack packer with U-profile rings (Ø 55 cm). Very sturdy and suitable for all types of soil. Resistant to stones even at high speeds. Linked packer rings for excellent self-cleaning.

— Middle chassis for excellent driving behaviour on the road and smooth running of the machine in the field

— High operational reliability due to the large spacing between the DiscSystem rows and the packer

— Depth control wheels for an exact maintenance of the working depth and a very good adaption to the terrain

— Options like hydraulic depth control or a Crossbar front.

— The optional knife roller for the Joker 5-8 RT has a diameter of 300 mm and is equipped with 6 knifes per roller. They are arranged in a slightly diagonal way to guarantee a constant distribution of the forces.

HORSCH Joker	5 RT	6 RT	8 RT	10 RT	12 RT
Working width (m)	4.75/5.00*	5.75/6.00*	7.25	9.75	12.25
Transport width (m)	3.00	3.00	3.00	3.00	3.00
Transport height (m)	2.85	3.35	3.95	4.00	4.00
Length (m)	7.00	7.00	7.00	7.70	7.70
Weight (kg)	5 500**	6 150**	7 200**	11 520***	12 250***
Tyre size chassis	19.0/45–17	19.0/45–17	19.0/45–17	550/60–22.5	550/60–22.5
Disc diameter Ø (cm)	52	52	52	52	52
Disc thickness (mm)	6	6	6	6	6
Number of discs	40	48	60	80	98
Disc angle (degree)	17	17	17	17	17
Power demand (kW/hp)	110–155/150–210	130–175/180–240	175–235/240–320	220–310/300–420	265–350/360–480

* Working width with side limit plates
** Weights of the machines with minimum equipment with double-RollPack packer
*** Weights of the machines with minimum equipment

Joker HD

With large diameter discs

Strong points and advantages of the Joker HD:

- Shallow, intensively mixing stubble cultivation
- Up to approx. 15 cm deep, intensively cutting and mixing cultivation with high quantities of for examplegrain maize residue
- The large disc diameter allows for working depths of up to 15 cm and is able to cut and intensively mix in high quantities of organic material without blocking.
- Concave-shaped discs for a constant cutting angle of 17°
- Compact machine with high levelling effect
- The discs are mounted in rubber elements resulting in an increased operating life and an improved adaption to the soil
- The strong design of the frame is very stable for deep cultivation and high strains. The frame guarantees the necessary weight to ensure penetration.
- Double-RollPack packer with 55 cm Ø U-profile rings. Very stable and suitable for all types of soil. Resistant to stones even at high speeds. Linked packer rings for excellent self-cleaning.

1

Joker HD incorporating liquid manure with the optional Vogelsang kit

2

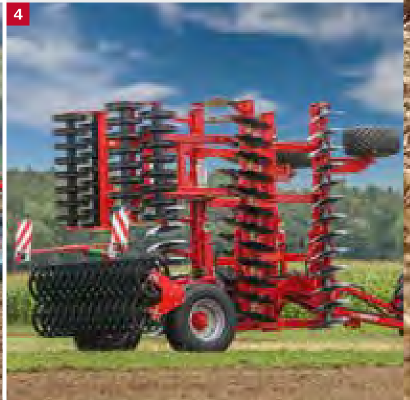
Stable double-RollPack packer for all types of soil

3

High operational reliability due to the large spacing between the DiscSystem rows and the packer

4

Transport position with revolver chassis for safe road transport



Joker HD

Technical specifications

HORSCH Joker	5 HD	6 HD	8 HD
Working width (m)	5.00	6.00	7.00
Transport width (m)	3.00	3.00	3.00
Transport height (m)	3.30	3.70	4.00
Length (m)	7.10	7.10	7.10
Weight (kg)*	7 050	7 660	8 370
Tyre size support wheels	400/60–15.5	400/60–15.5	400/60–15.5
Tyre size chassis	385/65–22.5	385/65–22.5	385/65–22.5
Disc diameter Ø (mm)	62	62	62
Disc thickness (mm)	6	6	6
Number of discs	42	50	58
Disc angle (degree)	17	17	17
DA control devices	4	4	4
Power demand (kW/hp)	130–170/180–230	160–180/220–250	220–260/300–350
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Hitch Ø 42–51 mm	Hitch Ø 42–51 mm	Hitch Ø 42–51–71 mm

Seed bar for	5 HD	6 HD	8 HD
Working width (m)	5.00	6.00	7.00
Number of seed pipes, double-RollPack packer	26	30	34
Seed pipe spacing, double-RollPack packer (cm)	20	20	20,60
Main line Ø (mm)	1x110	1x110	1x110

* Weights of the machines with minimum equipment

EQUIPMENT

Transport position

Depth control wheels

Double-RollPack packer

Double-RollPack packer

Edge disc

High clearance –
two discs at one arm

Middle chassis

Large (Ø 62 cm) discs
for working deeply

MiniDrill

Perfect for greening and catch crops

MiniDrill it is an HORSCH development with a lot of innovative solutions. The hopper has a capacity of 400 litres of seed and is equipped with the well-proven metering unit of the Pronto machines. The only difference is that the seed is injected directly into the distribution system. The fan, too, is an in-house development and very quiet. These features allow for a very compact design of the machine.

The **MiniDrill** is available for all Terrano FX 3-point machines (3 to 5 m working width), all Terrano GX and for all Joker CT (3 to 6 m working width) and the Joker 5/6 and 8 RT. Efficiency while sowing catch crops is considerable as only one pass is necessary for cultivation and sowing. Thus, the **MiniDrill** is an optimum solution for greening. It is in this sector that the machines excels as it is able to sow seed mixtures with different grains sizes without restrictions.

1

Fall sluice below the metering system

2

Six outlets (up to 4 m working width) and 12 outlets (starting at 5 m working width) guarantee excellent cross distribution

3

Compact and low-noise fan

The diameter of the hopper opening is 380 mm and the seed rate up to 160 – 260 kg/ha depending on the working width. For an optimum cross distribution the MiniDrill till with 3 m working width is equipped with 6 evenly distributed outlets in front of or behind the packer and with 12 outlets if the working width of the cultivator is 4 m or larger. The seed is placed into the cultivated soil and thus guarantees an optimum use of the moist soil. The MiniDrill is operated via ISOBUS.

MiniDrill

Technical specifications

HORSCH MiniDrill	Joker 3 CT	Joker 3.5 CT	Joker 4 CT rigid	Joker 4 CT	Joker 5 CT	Joker 6 CT
Working width (m)	3.00	3.50	4.00	4.00	5.00	6.00
Total weight, MiniDrill (kg)	125	130	130	150	155	160
Weight without seed hopper (kg)	20	25	25	45	50	55
Seed hopper capacity (l)	400	400	400	400	400	400
Dimension of feed opening (mm)	380	380	380	380	380	380
Filling height solo/mounted (m)	1.05/2.00	1.05/2.00	1.05/2.00	1.05/2.20	1.05/2.20	1.05/2.20
No. of hoses	6	6	6	6	12	12
Max. output rate (kg/ha)	260	225	200	200	160	130
Single-acting control devices	1	1	1	1	1	1
Depress. return line (max. 5 bar)	1	1	1	1	1	1
Oil quantity, hydr. fan (l/min)	20–25	20–25	20–25	20–25	20–25	20–25

HORSCH MiniDrill	Joker 5 RT	Joker 6 RT	Joker 8 RT
Working width (m)	5.00	6.00	7.25
Total weight, MiniDrill (kg)	185	190	195
Weight without seed hopper (kg)	80	85	90
Seed hopper capacity (l)	400	400	400
Dimension of feed opening (mm)	380	380	380
Filling height solo/mounted (m)	1.05/2.15	1.05/2.15	1.05/2.15
No. of hoses	12	12	12
Max. output rate (kg/ha)	160	130	100
Single-acting control devices	1	1	1
Depress. return line (max. 5 bar)	1	1	1
Oil quantity, hydr. fan (l/min)	20–25	20–25	20–25

HORSCH MiniDrill	Terrano 4.3/4.4 GX	Terrano 5.3/5.4 GX	Terrano 6.3/6.4 GX
Working width (m)	4.00	5.00	6.00
Total weight, MiniDrill (kg)	255	275/260	265
Weight without seed hopper (kg)	150	170	160
Seed hopper capacity (l)	400	400	400
Dimension of feed opening (mm)	380	380	380
Filling height solo/mounted (m)	1.05/2.35	1.05/2.35	1.05/2.35
No. of hoses	6	12	12
Max. output rate (kg/ha)	200	160	130
Single-acting control devices	1	1	1
Depress. return line (max. 5 bar)	1	1	1
Oil quantity, hydr. fan (l/min)	20–25	20–25	20–25

Terrano FX

Effective cultivation technology with a wide range of uses

The HORSCH **Terrano FX** is a compact 3-row cultivator with an enormous range of use – for shallow stubble cultivation as well as for intensive soil mixing. The allrounder **Terrano FX** mixes soil perfectly in all depths between 5 and 30 cm.

Due to a frame height of 85 cm and a tine spacing of 30 cm it mixes all residues evenly even on the heavy soils. Already in 2003, the DLG Fokus test confirmed the low horsepower requirement of the **Terrano FX**. The diesel consumption for best working quality is 20 % lower compared to the average consumption of all competitors that have been tested.

1

The Terrano excels due to low horsepower requirement and, thus, low diesel consumption

2

There are five packer versions available for the Terrano FX.
The **RollFlex packer** leaves a crumbly and effectively consolidated surface.

3

Intensive mixing and soil conserving cultivation

The advantages of the Terrano FX at one glance:

— Universal use
— Excellent mixing in all conditions
— Very low horsepower requirement (from 120 hp)
— Robust construction for extreme requirements
— Working depths between 5 and 30 cm
— Short, compact construction
— Versions with different equipment for all conditions

Terrano FX

Technical specifications

HORSCH Terrano FX	3 FX	3.5 FX	4 FX	4 FX rigid	4 FX Chassis	5 FX	5 FX Chassis
Working width (m)	3.00	3.50	4.00	4.00	4.00	5.00	5.00
Transport width (m)	3.00	3.50	3.00	4.06	3.00	3.00	3.00
Transport height (m)	2.05	2.05	3.00	2.05	3.10	3.60	3.60
Length (m)	3.80	3.80	4.00	3.80	7.10	4.00	7.10
Weight with shear. protection (kg)*	1 390	1 810	2 200	2 250	3 150	3 000	3 900
Weight with shear. protection (kg)*	1 860	2 190	2 740	2 600	3 690	3 700	4 600
Tyre size support wheels	---	---	10.0/75–15.3	---	10.0/75–15.3	10.0/75–15.3	---
Tyre size chassis	---	---	---	---	400/60–15.5	---	400/60–15.5
Number of tines	10	12	13	14	13	16	16
Tine spacing (cm) in one row	90.00	89.00	91.50	88.20	91.50	93.00	93.00
Tine spacing (cm)	30.00	29.00	30.50	29.40	30.50	31.00	31.00
Frame height (mm)	850	850	850	850	850	850	850
DA control devices	---	---	1	---	2	1	---
Power demand (kW/hp)	90–147/ 120–200	100–163/ 140–220	115–180/ 160–250	115–180/ 160–250	115–180/ 160–250	150–220/ 205–300	150–220/ 205–300
3-point linkage	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	3-point Cat. II/III	---	3-point Cat. II/III–III/IV	---
Connection via lower link	---	---	---	---	Cat. III–III/IV–IV	---	Cat. III–III/IV – IV

* Weights of the machines with minimum equipment, rigid levelling discs and RollFlex packer

EQUIPMENT

Adjustment of working depth via solid and protected clips

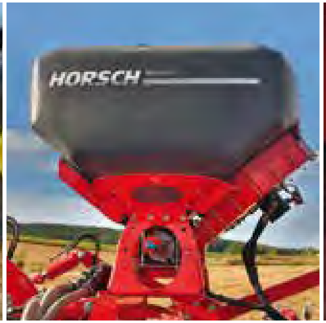
The TerraGrip is a robust tine with an effective stone protection and 30 cm trip height

There are six packer versions available for the **Terrano FX**: RollCut packer, a simple cage roller and all packers shown on page 15

The ULD+ coulter as a coulter version for all cultivators loosens the soil deeply without taking clods to the surface.

Optional harrow behind the packer

3-point linkage Terrano FX



MiniDrill with a hopper capacity of 400 litres

MiniDrill seed distributors put the seed directly into the wet soil

Terrano GX

Elegant precision in its diversity

The **Terrano GX** has been developed for efficient and accurate tillage. The scope of use ranges from shallow tillage to deep tillage up to 25 cm. It is available in a 3- and a 4-bar version. Due to the simple handling and the structured design together with an optimum working result the machine is an uncompromising tool for all requirements.

Several equipment versions are available for consolidation like for example the SteelFlex packer.

1

Depth control via front support wheels and packer

2

Disc levelling via levellers is possible

3

Tight turning due to middle chassis

Terrano GX

Technical specifications

HORSCH Terrano GX	4.3 GX	5.3 GX	6.3 GX
Working width (m)	4.00	4.90	5.90
Transport width (m)	2.99	2.99	2.99
Transport height (m)	2.83	3.36	3.85
Length (m)	8.61	8.61	8.68
Weight (kg)*	5 050	5 750	6 350
Tyre size support wheels	400/60–15.5	400/60–15.5	400/60–15.5
Tyre size chassis	550/45–22.5	550/45–22.5	550/45–22.5
Number of tines	13	16	19
Tine spacing (cm) in one row	92	94	95
Tine spacing (cm)	31	31	31.50
Frame height (mm)	850	850	850
DA control devices lower linkage	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)
Power demand (kW/hp)	130/175	175/240	220/300
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Hitch Ø 42–51 mm	Hitch Ø 42–51 mm	Hitch Ø 42–51 mm
Connection via ball head	K 80	K 80	K 80

* Weights of the machines with minimum equipment with adjustable drawbar linkage, TerraGrip tines and double-RollPack packer

SteelFlex packer

Transport position

Double-RollPack packer

HORSCH Terrano GX	4.4 GX	5.4 GX	6.4 GX
Working width (m)	4.00	4.90	5.90
Transport width (m)	2.99	2.99	2.99
Transport height (m)	2.83	3.36	3.85
Length (m)	9.39	9.46	9.40
Weight (kg)*	5 300	6 250	6 850
Tyre size support wheels	400/60–15.5	400/60–15.5	400/60–15.5
Tyre size chassis	550/45–22.5	550/45–22.5	550/45–22.5
Number of tines	13	17	21
Tine spacing (cm) in one row	123	118	114
Tine spacing (cm)	31.00	29.50	28.50
Frame height (mm)	850	850	850
DA control devices lower linkage	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)
Power demand (kW/hp)	185/250	220/300	260/350
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Hitch Ø 42–51 mm	Hitch Ø 42–51–71 mm	Hitch Ø 42–51–71 mm
Connection via ball head	K 80	K 80	K 80

* Weights of the machines with minimum equipment with adjustable drawbar linkage, TerraGrip tines and double-RollPack packer

Terrano FM

Heavy universal cultivator

The **Terrano FM** can be used for shallow as well as for deep cultivation. Due to its 4-bar design it mixes intensively, whereas the power demand remains low due to a tine spacing of 28 cm. It has a high clearance to allow for clogging-free working even if there are large quantities of harvest residues. It is equipped with TerraGrip tines of the second generation – they are maintenance-free and stand for exact coulter control due to high release forces of 570 kg for the **Terrano FM**.

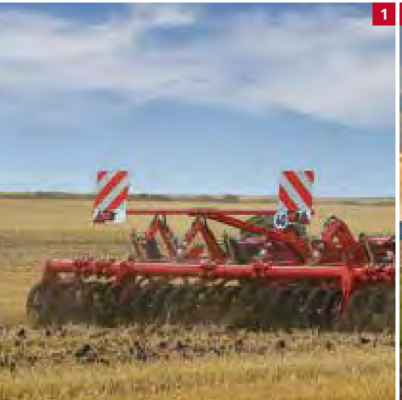
The middle chassis of the **Terrano FM** allows for tight turning on the headlands and for an excellent roadability. Under for example wet conditions the chassis can be used additionally for depth control. The following packers are available: RollFlex, FarmFlex and SteelDisc packer or the new double-RollFlex packer. The latter guarantees a very good and even consolidation even under most difficult conditions (e. g. many stones) due to new spring elements and a reinforced design.

Terrano MT

Shallow mixing – deep loosening

The **Terrano MT** has been specially designed for the following range of use: "mixing on the top, loosening at the bottom". The cultivator disposes of a middle chassis and a 4-bar design. A disc harrow is situated in first two rows followed by two rows of TerraGrip tines with narrow LD (low disturbance) coulters. The **Terrano MT** is particularly suitable for cultivating heavy soils that have to be loosened deeply, but where harvest residues can only be mixed in in a shallow way to prevent rough soil from being transported to the surface.

The 2-row DiscSystem allows for a shallow and intensively mixing cultivation and a clogging-free working even if there are difficult residues and high quantities of straw. The DiscSystem is followed by a 2-bar tine system. The power demand for this system is low. It allows for an intensive loosening down to a depth of 30 cm and it runs below the disc harrow horizon. The packer that is used is a HORSCH SteelDisc packer with a diametre of 58 cm and a weight of 175 kg/m working width for maximum consolidation.



1

2

3

4

1
Terrano FM
Variable packers – here with double RollPack

2
Middle chassis for tight turning on the headlands and excellent roadability

3
Terrano MT
2-row DiscSystem for mixing and 2 rows of TerraGrip tines for deep loosening

4
Terrano 10/12 FM
with TerraGrip III L tine, folds to 3 m transport width with a frame height of 600 mm

Terrano FM

Technical specifications

HORSCH Terrano FM	5 FM	6 FM	7 FM	10 FM (3 meter)	10 FM	12 FM (3 meter)	12 FM
Working width (m)	4.80	5.90	7.00	10.26	10.26	12.15	12.15
Transport width (m)	3.00	3.00	3.00	3.00	3.63	3.00	3.63
Transport height (m)	3.30	3.85	4.00	4.00	4.00	4.00	4.00
Length (m)	---	---	---	9.50	9.50	9.50	9.50
Length without drawbar (m)	9.25	9.25	9.25	---	---	---	---
Length with drawbar (m)	9.55	9.55	9.55	---	---	---	---
Weight (kg)**	---	---	---	12 550	12 600	13 185	13 360
Weight with shear. protection (kg)*	6 000	6 750	7 500	---	---	---	---
Weight with shear. protection (kg)*	6 600	7 500	8 400	---	---	---	---
Tyre size support wheels	15.0/55–17 (2/4)	15.0/55–17 (2/4)	15.0/55–17 (4)	400/60–15.5	400/60–15.5	400/60–15.5	400/60–15.5
Tyre size chassis	400/70–24	400/70–24	400/70-24	445/65–22.5	445/65–22.5	445/65–22.5	445/65–22.5
Number of tines	17	21	25	39	39	45	45
Tine spacing (cm) in one row	112	112	112	108	108	108	108
Tine spacing (cm)	28	28	28	26	26	27	27
Frame height (mm)	750	750	750	600	750	600	750
DA control devices	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)	2 (+1 with hydr. depth adjustment)	3	3	3	3
Power demand (kW/hp)	150–220/205–300	175–265/240–360	220–290/300–395	330–405/450–550	370–480/500–650	330–405/450–550	370–480/500–650
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Hitch Ø 42–51 mm	Hitch Ø 42–51–71 mm	Hitch Ø 51–71 mm	Ring hitch Ø 58–79 mm	Ring hitch Ø 58–79 mm	Ring hitch Ø 58–79 mm	Ring hitch Ø 58–79 mm
Adjustable drawbar linkage hitch ball joint	---	---	---	Eyes Ø 51–71 mm	Eyes Ø 51–71 mm	Eyes Ø 51–71 mm	Eyes Ø 51–71 mm
Connection via ball head	K 80	K 80	K 80	K 80/K 110	K 80/K 110	K 80/K 110	K 80/K 110

* Weights of the machines with adjustable drawbar with minimum equipment and double-RollPack packer
** Weights of the machines with adjustable drawbar with minimum equipment and double-RollFlex packer

Terrano MT

Technical specifications

HORSCH Terrano MT	4 MT	6 MT
Working width (m)	4.40	6.00
Transport width (m)	3.00	3.00
Transport height (m)	3.20	4.00
Length without drawbar (m)	9.25	9.25
Length with drawbar (m)	9.80	9.80
Weight (kg)*	6 730	7 950
Tyre size chassis	400/70–24	400/70–24
Tyre Ø chassis (cm)	120	120
Number of tines	11	15
Tine spacing (cm) in one row	80	80
Tine spacing (cm)	40	40
Width LD coulter (mm)	40	40
DiscSystem front discs Ø (cm)	52	52

HORSCH Terrano MT	4 MT	6 MT
DiscSystem disc size (mm)	6	6
Number of front discs DiscSystem	36	48
Cutting angle DiscSystem discs (degree)	17	17
Frame height (mm)	850	850
DA control devices lower linkage	3 (+1 with hydr. depth adjustment)	3 (+1 with hydr. depth adjustment)
DA control devices lower linkage	4	4
Power demand (kW/hp)	150–200/180–250	200–270/270–370
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Hitch Ø 42–51 mm	Hitch Ø 42–51–71 mm
Connection via ball head	K 80	K 80

* Weights of the machines with adjustable drawbar with minimum equipment and double-RollFlex packer

Terrano 4 MT

Narrow LD (low disturbance) coulters at the Terrano MT

TerraGrip tines with **MulchMix coulters**

TerraGrip tines of the Terrano 10 and 12 FM

Partner FT / HT

Controlled incorporation of fertiliser while cultivating

With the rear and front hoppers **Partner HT** HORSCH offers a system that allows for placing fertiliser in a controlled way while cultivation. The system completes the **StripTill system** known from the **Focus TD** to be able to offer an optimum solution for all situations. It also marks a simple entry into the sector of targeted fertilisation. Moreover, targeted fertilisation increases efficiency and compared to conventional fertilisation saves costs.

Depending on the chosen setting at the distributor of the cultivator coulter fertiliser can be placed shallowly, deeply or 50 : 50. Thus, it is possible to fertilise the lower topsoil area additionally.

The **HORSCH rear hopper Partner HT** in combination with the cultivators **Terrano GX, FM / MT** is equipped with 2 chambers with a capacity of 2 800 litres and a 60 : 40 partition (pressurised hopper). This allows for metering 2 different fertiliser components independently and thus for adapting perfectly to the soil supply of the site. However, it can also be used for placing fertiliser and seed (especially catch crops resp. rape). It is possible to mount the rear hopper to an already existing cultivator.

With the **HORSCH front hopper Partner FT** you have the possibility to enter the field of placed fertilisation with all **Terrano FX 3-point models** an **Maestro RC**. The **Partner FT** supplies the **Express 4 KR** with seed and the large single hopper (pressurised hopper) that can be mounted at the front with a capacity of 1 600 liter provides a sufficient supply of fertiliser. With the optionally available additional weights the tractor can be balanced in an optimum way even if the front hopper is empty.

1


2


3


1
Partner HT: Pressurised hopper with two chambers, equipment mounting for trailed tillage machines

2
TerraGrip tine with piping and adjustment of the placement depth of the fertiliser depot without tools

3
Terrano FM with distribution tower and piping for fertiliser placement

Cruiser XL 3-point mounted

Shallow cultivation in perfection

The **Cruiser XL 3-point** is a specialist for shallow cultivation. With a maximum working depth of 15 cm it is ideal for perfect stubble cultivation with optimum straw distribution after combine harvesting, for seedbed preparation, as a fine cultivator for mechanical weed control and for loosening and venting the soils in spring. Its FlexGrip tine with a release force of 100 kg controls the depth of the coulter and absorbs lateral forces. The 3-point mounted Cruiser XL is available in 5 and 6 meter working width.

Individual levellers to steady the earth current are attached in front of the RollFlex packer of the 3-point **Cruiser**.

1

RollFlex packer with optimised and even more solid spring elements

2

FlexGrip tines optimised for shallow tillage

3

The new steel spring tine, too, is optimum for shallow cultivation up to a depth of 15 cm

The advantages of the Cruiser at one glance:

- Optimum straw distribution after combine harvesting
- Perfect seedbed preparation
- Shallow cultivator for mechanical weed control
- FlexGrip tines with a release force of 100 kg
- With 5 cm wide narrow coulters or 18 cm wide wing coulters
- Low horsepower requirement and fuel-efficient
- Optional: hydraulic depth adjustment

Cruiser 6 XL

Cruiser XL 3-point

Technical specifications

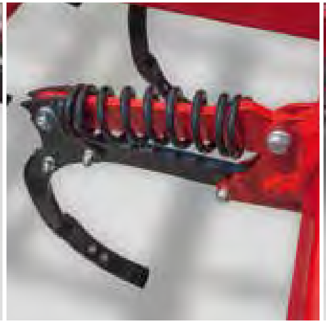
HORSCH Cruiser XL	5 XL	6 XL
Working width (m)	4.80	6.00
Transport width (m)	2.95	2.95
Transport height (m)	2.64	3.15
Length (m)	4.09	4.09
Weight from (kg)	2 560*	3 000*
Tyre size support wheels	---	---
Tyre size chassis	---	---
Number of tines	33	41
Tine spacing (cm) in one row	58	58
Tine spacing (cm)	14.5	14.5
Frame height (mm)	600	600
DA control devices	1 (+1 with hydr. depth adjustment)	1 (+1 with hydr. depth adjustment)
Power demand (kW/hp)	115–180/160–240	150–220/205–300
Tool attachment	3-point Cat. III	3-point Cat. III
Connection via adjustable drawbar	---	---
Connection via ball head	---	---
Connection via lower link	---	---
Width wing coulters (cm)	18	18
Width narrow coulters (cm)	5	5

* Weights of the machine in minimum equipment and RollPack packer
** Weights of the machine with drawbar linkage with minimum equipment and double-RollPack packer

EQUIPMENT

5 cm wide narrow coulter

5 cm wide narrow coulter



FlexGrip tines

Leaf spring levellers

Cruiser XL 3-point mounted with HORSCH spring tines

Cruiser XL

The specialist for shallow and medium tillage

With its 6 bars the **Cruiser** mixes and distributes excellently. Due to the frame height of 700 mm even large quantities of organic material are no problem.

The Cruiser XL is a 6-bar specialist for shallow and medium-deep tillage. The available working widths range from 5 to 12 metre. It is equipped with the HORSCH spring tine which rests unobtrusively in the frame and has a release force of 150 kg. The cultivator can be equipped with all four different cultivating point version and thus can be used in all seasons.

1 The new powerful HORSCH spring tine

2 6-bar design for optimum mixing

3 Disc levelling in front of the packer

Cruiser XL

Technical specifications

HORSCH Cruiser XL	5 XL	6 XL
Working width (m)	5.00	6.00
Transport width (m)	3.00	3.00
Transport height (m)	3.30	3.61
Length (m)	10.21	10.21
Weight (kg)*	6 180	7 160
Tyre size support wheels	400/60–15.5	400/60–15.5
Tyre size chassis	550/45–22.5	550/45–22.5
Number of tines	33	39
Tine spacing (cm) in one row	92	92
Tine spacing (cm)	15	15
Maximum working width (cm)	15	15
Frame height (mm)	600	600
DA control devices	2 (+1)	2 (+1)
Power demand (kW/hp)	200–300	280–400
Width narrow coulters (cm)	5	5
Adjustable drawbar linkage with ring hitch	Cat. V – Ø 79 mm	Cat. V – Ø 79 mm
Adjustable drawbar linkage with ring hitch ball joint	Ø 51 or 79 mm	Ø 51 or 79 mm
Linkage adjustable drawbar ball head coupling	K 80/110 (mm)	K 80/110 (mm)
Connection via lower link	Cat. III/III–III/IV–IV/IV	Cat. III/III–III/IV–IV/IV

* Weights of the machine in minimum equipment and double-RollPack packer

HORSCH Cruiser XL	10 XL	12 XL
Working width (m)	10.20	12.00
Transport width (m)	2.98	2.98
Transport height (m)	3.97	3.97
Length (m)	10.11	10.19
Weight (kg)*	11 500	13 980
Tyre size support wheels	400/60–15.5	400/60–15.5
Tyre size chassis	445/65–22.5	445/65–22.5
Number of tines	66	81
Tine spacing (cm) in one row	90	90
Tine spacing (cm)	15	15

* Weights of the machine with drawbar linkage with minimum equipment and double-RollPack packer

HORSCH Cruiser XL	10 XL	12 XL
Maximum working width (cm)	15	15
Frame height (mm)	600	600
DA control devices	3	3
Power demand (kW/hp)	310/420	370/500
Width narrow coulters (cm)	5	5
Adjustable drawbar	Ring hitch Cat. V Ø 79 mm	Ring hitch Cat. V Ø 79 mm
Adjustable drawbar linkage with ring hitch ball joint	Ø 51 o. 79 mm	Ø 51 o. 79 mm
Linkage adjustable drawbar ball head coupling	K 80–110 mm	K 80–110 mm
Connection via lower link	Cat. III/III - III/IV - IV/IV	Cat. III/III - III/IV - IV/IV

Double-RollPack packer

Chassis of the Cruiser 10/12 XL

5 cm HM point

8 cm HM point

10 cm HM point

Tiger

Robust cultivation technology for intensive cultivation

Tiger AS – The clever alternative to ploughing

Intensive loosening and mixing of high residues of straw up to a working depth of 35 cm.

Tiger LT – Compact with low horsepower requirement

Three-row compact version for stubble cultivation and deeper soil cultivation.

Tiger MT – Best working quality in maize straw

Cuts its way through difficult conditions.

Pronto TD – Pronto technology as an extension of the Tiger

With a 2 000 litre hopper in combination with a Tiger cultivator. Intensive cultivation and precise sowing in one single pass.

1

Tiger AS + Pronto TD
Four-row construction with 85 cm frame height and 92 cm tine spacing for maximum crop residue through put and allows for deep cultivation.

2

Tiger LT
Low horsepower requirement due to three row frame construction and MulchMix oulters.

3

Tiger MT
The combination of heavy disc harrow and cultivator cuts and mixes even heaviest residues.

1


2


3


What are the unique features of the Tiger?

- **TerraGrip tines:**
  500 kg release force, 30 cm trip height,
  770 kg release force, 27 cm trip height for Tiger MT
- **MulchMix coulter:**
  Up to 20 % less horsepower requirement for the same working width
- Highest flexibility concerning working depth (5 to 35 cm)
- Combination with Pronto seeding technology
- Large frame dimension for the tine frame 120 x 120 mm
- Heavy tyre packer with tractor profile for effective consolidation and secure road transport

Tiger

Technical specifications

Tiger AS

HORSCH Tiger AS	3 AS	4 AS rigid	4 AS	5 AS	6 AS	8 AS
Working width (m)	3.00	4.00	4.00	4.80	6.00	7.50
Transport width (m)	3.00	4.05	3.00	3.00	3.00	3.00
Transport height (m)	1.90	1.90	2.90	3.30	3.80	4.00/4.15*
Length with tyre packer 7.50–16 (m)	7.95	7.95	7.95	7.95	7.95	7.95
Weight (kg)**	3 540	4 365	5 380	6 120	7 120	8 770
Number of tines	13	17	17	21	25	33
Tine spacing in one row (cm)	92	94	94	91	96	91
Tine spacing (cm)	23	23.50	23.50	23	24	23
Frame height (mm)	850	850	850	850	850	850
Power demand (kW/hp)	110–220/150–300	145–270/200–370	145–270/200–370	185–330/250–450	220–400/300–550	275–440/375–600

* With levelling discs 2-row Ø 46 cm
** Weights of the machines with lower link linkage with minimum equipment and tyre packer 7.50–16 AS without brake

HORSCH Tiger LT	5 LT	6 LT	8 LT	10 LT
Working width (m)	4.80	6.00	7.50	10.20
Transport width (m)	3.00	3.00	3.00	5.00
Transport height (m)	3.30	3.70	4.00/4.15 (with levelling discs 2-row Ø 46 cm)	4.90
Length with tyre packer 7.50–16 (m)	7.05	7.05	7.05	6.70
Weight (kg)***	5 495	6 280	7 700	10 835
Number of tines	15	19	25	34
Tine spacing in one row (cm)	96	95	90	90
Tine spacing (cm)	32	31.5	30	30
Frame height (mm)	850	850	850	850
Power demand (kW/hp)	150–270/200–370	175–295/240–400	220–370/300–500	295–440/400–600

*** Weight of the machines with lower link linkage (not Tiger 10 LT) with minimum equipment and tyre packer 7.50–16 AS without brake

HORSCH Tiger MT	3 MT	4 MT rigid	4 MT	5 MT	6 MT	8 MT
Working width (m)	3.00	4.00	3.00	4.80	6.00	7.50
Transport width (m)	3.00	4.05	3.00	3.00	3.00	3.00
Transport height (m)	2.40	2.40	2.90	3.20	3.60	4.00/4.15 (with levelling discs 2-row Ø 46 cm)
Length with tyre packer 7.50–16 (m)	8.30	8.60	8.55	8.55	8.55	8.55
Weight (kg)*	4 215	5 525	6 575	7 425	8 420	10 380
No. of tines (DiscSystem)	14	18	20	24	28	36
Spacing of tines (cm)	38	40.50	40	39	42	41
Number of tines	7	9	9	11	13	17
Tine spacing in one row (cm)	86	94	94	91	96	90
Tine spacing (cm)	43	47	47	45.5	48	45
Power demand (kW/hp)	110–220/150–300	150–270/200–370	150–270/200–370	185–295/250–400	220–400/300–550	275–440/375–600

* Weight of the machines with lower link linkage (not Tiger 8 MT) with minimum equipment and tyre packer 7.50–16 AS without brake

HORSCH fertiliser attachment Tiger 4 MT rigid	
Transport width (m)	4.36
Height (mounted on Tiger; m)	2.95
Length (m)	2.23
Weight (kg)	1 200
Hopper capacity (l)	2 520 (3x840 l)
Dimension of feed opening (m)	4.20x0.91
Filling height double hopper (mounted on Tiger; m)	2.70
DA control devices	1
Depress. return line (max. 5 bar)	1

SEED DRILLS

UNIVERSAL SEEDING TECHNOLOGY FOR ALL CONDITIONS

— Pronto
— Express
— Avatar
— Focus
— Sprinter
— Maestro

THE HORSCH SINGULARSYSTEM

with the Funck metering device

Seed coulter

- The design of the seed coulter and the main characteristics like the coulter pressure of up to 120 kg are identical to the well-proven TurboDisc coulter.
- Depending on the conditions an operational speed of up to 10 km/h is possible.
- The well-proven double discs 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 coulter.

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 seeding system can be used).

Catching roller

Skid

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)

HORSCH shaker box with optimum wheat

HORSCH shaker box with optimum rape

THE HORSCH SINGULARSYSTEM

with the Funck metering device

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 coulter 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/m² 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, barley, 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/m². 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 seeding system allows for sowing conventionally.

Singulation discs

with pocket rape

with pocket wheat

with pocket rye

with pocket barley

Bypass seeding system for seed rates beyond 250 grains/m²
or seed that is not suitable for singulation

Pronto DC / AS

Universal seeding technology for all conditions

What are your requirements for seeding technology?

Exact seed placement, high seeding speed and effective seedbed cultivation – as flexibility in cultivation saves costs? No problem with the Pronto DC / AS. For the HORSCH Pronto is the universal seeding technology for all conditions – after the plough, minimum cultivation or directly into stubble.

The Pronto principle (levelling – consolidation – sowing – pressing) allows for a precise seed placement in all conditions even at high speeds. With the Pronto AS you can further increase flexibility by combining it with the precision single seed unit the Maestro.

1

Pronto 6 AS

2

TurboDisc seed coulter
Precise seed placement
at high speeds

3

Tyre packer with optimised tractor profile
Effective consolidation in
front of each seed coulter

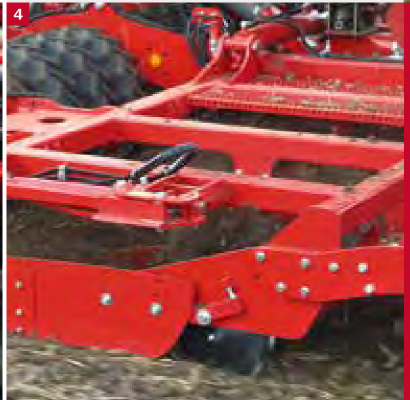
4

DiscSystem
Efficient seedbed preparation
in all conditions

1


2


3


4


The advantages of the Pronto DC / AS at one glance:

- The DiscSystem loosens, levels and produces fine soil
- The tyre packer ensures deep consolidation and uniform sowing conditions in front of every seed coulter
- Due to their high flexibility (up to 15 cm) the TurboDisc seed coulters are able to follow the soil surface and place all seed exactly at the required depth
- Four rubber shock-absorbers per coulter transfer a coulter pressure of up to 120 kg and guarantee precise coulter control at high speeds
- The depth control is made via a press wheel at the end of each coulter body. It also ensures an optimum soil to seed contact.

Pronto DC/AS

Technical specifications

Pronto DC

HORSCH Pronto	3 DC	4 DC	4 DC rigid	6 DC	7 DC	8 DC	9 DC	6 AS
Working width (m)	3.00	4.00	4.00	6.00	7.50	8.00	9.00	6.00
Transport width (m)	3.00	3.00	4.00	3.00	3.00	3.00	3.00	2.95
Transport height (m)	2.95	2.95	2.95	3.60	3.60	3.70	3.97	4.00
Length (m)	6.40	6.90	6.80	8.20	8.30	8.25	8.50	9.50 (till end of the coulter)/9.90 (incl. bout marker)
Weight from (kg)	---	---	---	---	8 570	8 805	9 625	7 880/9 000 (incl. PPF system)
Weight without/ with PPF system (kg)	3 355/4 025	4 745/5 600	4 330/5 175	6 470/7 565	---	---	---	---
Seed hopper capacity (l)	2 800	2 800	2 800	3 500	4 000	4 000	4 000	3 500
Capacity double hopper (l)	3 800 (40:60)	3 800 (40:60)	3 800 (40:60)	5 000 (40:60)	---	5 000 (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	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	---	---	---	per 0.66x2.45
Filling height (m)	2.49	2.49	2.49	2.88	3.10	3.10	3.10	2.70
Filling height double hopper (m)	2.90	2.90	2.90	2.95	---	---	---	2.95
Number of PPF coulters	10	14	14	20	---	---	---	20
Coulter pressure PPF coulters (kg)	up to max. 200	up to max. 200	up to max. 200	up to max. 200	---	---	---	up to max. 200
Number of seed coulters	20	28	28	40	52	52	60	40
Coulter pressure seed coulters (kg)	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32	34/32	34/32	34/32	34/32	34/32	34/32
Row spacing (cm)	15	14.3	14.3	15	14.4	15.4	15	15
Tyres seed waggon	---	---	---	---	---	---	---	800/45–26.5/12 TR
Tyre packer size	7.50–16 AS	7.50–16 AS	7.50–16 AS	7.50–16 AS	7.50–16 AS/78	7.50–16 AS/78	7.50–16 AS/78	7.50–16 AS
Tyre packer Ø (cm)	78	78	78	78	78	78	78	78
Working speed (km/h)	10–20	10–20	10–20	10–20	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	145–205/ 200–280	155–215/ 210–290	175–240/ 240–330	130–185/ 180–250
DA control devices	3 (resp. +1 for filling auger, coulter pressure adjustment, Crossbar)							
Depressurised return flow (max. 5 bar)	1	1	1	1	1	1	1	1
Oil quantity, hydr. fan (l/min)	20 – 25 single hopper/35 – 45 double hopper	20 – 25 single hopper/35 – 45 double hopper	20 – 25 single hopper/35 – 45 double hopper	20 – 25 single hopper/35 – 45 double hopper	35–45	35–45	35–45	20 – 25 single hopper/35 – 45 double hopper
Bout marker hydr.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
HORSCH Terminal/lighting	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Brake system	---	---	---	---	---	---	---	optional

The **DiscSystem** prepares the seedbed efficiently

HORSCH Terminal

The higher than average contour following capability (15 cm) of the **TurboDisc coulter** with integrated press wheel allows for a precise and even depth control. The high individual coulter pressure of up to 120 kg guarantees smooth running at speeds of more than 12 km/h.

Simple calibration test for quick and exact calibration of the **HORSCH Terminals**

The **PPF fertiliser coulter** is a maintenance-free double disc coulter with high coulter pressure

Reliable tramline system with automatic adjustment of the seed quantity

A hydr. **Crossbar** also figures among the various options like pre-emergence marker and hydr. coulter pressure adjustment.

Pronto SW

Universal technology for large farms

The **Pronto SW** combined with the seed waggon is HORSCH's solution for more efficiency and cost-effectiveness for large farms. The separate seed waggon has a capacity of 12 000 litre in total (50 : 50 for seed and fertiliser). The actual seed unit of the **Pronto SW** is based on the well-known and well-proven Pronto system. The DiscSystem for superficial cultivation is followed by PPF coulters which always place the fertiliser exactly between two seed rows.

This is followed by a tyre packer (Ø 78 cm) and TurboDisc seed coulters which, while flexibly adjusting to the soil, create a coulter pressure of up to 120 kg. Whereas the **Pronto 8/9** and **12 SW 3 meter** has a seed waggon with a hopper capacity of 12 000 litres, the **Pronto 12 SW** has been specially designed for Eastern European farms and with 12 metre working width and the SW 17 000 SD which is a seed waggon for seed and fertiliser with a total hopper capacity of 17 000 litre.

1

Maximum efficiency:
Pronto 12 SW with 12 metre working width and a hopper capacity of 17 000 litre

2

The well-proven Pronto system:
Cultivation – PPF fertilization – consolidation – sowing and pressing in one single pass

1

2

The advantages of the Pronto SW at one glance:

- Maximum efficiency for large farms
- Universal seed technology for large working widths
- Precise seed placement even at high working speeds
- Easily accessible feed openings
- Machine is easily accessible
- The weight of the seed waggon does not influence seed depth, coulter pressure and consolidation. They are always optimal whether the hopper is full or empty.

Pronto SW

Technical specifications

HORSCH Pronto SW	8 SW	9 SW	12 SW	12 SW (3 meter)
Working width (m)	8.00	9.00	12.00	12.00
Transport width (m)	3.00	3.00	5.30/5.50 with SW 17 000 SD	3.00
Transport height (m)	3.95	4.00	4.90/3.60 with SW 17 000 SD	4.00
Length without/with SW (m)	8.50/15.50 with SW 12 000 SD	8.50/15.55 with SW 12 000 SD	7.70/16.00 with SW 17 000 SD	6.90/14.00 with SW 12 000 SD
Weight without/with SW from (kg)	9 060/12 520 with SW 12 000 SD	9 740/13 200 with SW 12 000 SD	14 050/19 110 with SW 17 000 SD	14 100/17 600 with SW 12 000 SD
Hopper capacity seed waggon (l)	12 000 (50:50)	12 000 (50:50)	17 000 (50:50)	12 000 (50:50)
Feed openings (m)	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72
Filling height double hopper (m)	3.35	3.35	3.55	3.35
Number of PPF coulters	26	30	40	---
Coulter pressure PPF coulters (kg)	up to max. 200	up to max. 200	up to max. 200	---
Number of seed coulters	52	60	80	80
Coulter pressure seed coulters (kg)	5–120	5–120	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32	34/32	34/32
Row spacing (cm)	15.4	15	15	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)	155–215/210–290	235–330/320–450	330–440/450–600	295–405/400–550
DA control devices	2	2	2	4
Depressurised return flow (max. 5 bar)	1	1	1	1
Oil quantity, hydr. fan (l/min)	50–60	50–60	70–90	60–80
Connection via adjustable drawbar	Bolt Ø 50–55 and 60–70 mm	Bolt Ø 50–55 and 60–70 mm	Bolt Ø 50–55 and 60–70 mm	Bolt Ø 50–55 and 60–70 mm
Connection via ball head	K 80	K 80	K 80	K 80

* Weights of the machines with minimum equipment

EQUIPMENT

Steps above the DiscSystem
for a safe access to any part of the machine

Front packer available as an option

HORSCH Seed Waggon
with a hopper capacity of 12 000 litre for seed and fertiliser (partition 50:50)

The **fertiliser coulters** of the HORSCH PPF system place the fertilzer at the exact depth to guarantee an optimum development of the seed grain

Pronto KR

Pronto technology with rotary cultivator / rotary harrow

- Universal range of use after plough and for mulch sowing even on extremely heavy soils
- Seed unit and seed waggon are a self contained unit. Thus, the machine is very compact and, due to the missing axle of the seed waggon, much weight is transferred to the rear axle of the tractor. Thus, it is possible for the first time to pull a 6 m wide seed drill with rotary harrow with low horse power requirement and low slippage.
- Intensive cultivation due to p.t.o.-driven rotary harrow
- Efficient, site-specific consolidation in front of the seed coulters is carried out by (optional): tooth packer roller, trapeze ring roller or Cracker packer
- Precise seed placement due to TurboDisc double disc coulters

1

Efficient sowing
The hopper of the Pronto KR has a capacity of 2 800 l.

2

Rotary harrow
Drags itself into the soil and constantly maintains the adjusted working depth.

3

3 m segments of the rotary harrow are oscillatingly suspended for an optimum soil adjustment

Pronto KR

Technical specifications

HORSCH Pronto KR	6 KR
Working width (m)	6.00
Transport width (m)	3.00
Transport height (m)	3.50
Length (m)	7.27
Weight (kg)*	7 260
Tyre size chassis	550/45–22.5
Seed hopper capacity (l)	2 800
Number of seed coulters	40/48
Seed coulter pressure (kg)	5–120
Seed coulters/press wheels Ø (cm)	34/32
Row spacing (cm)	15.0/12.5
Packer (cm)	FarmFlex packer Ø 55 cm/ Cracker packer Ø 54 cm/ Tooth packer Ø 53 cm/ Trapeze ring roller Ø 50 cm
Working speed (km/h)	6–13
Power demand (kW/hp)	160–240/220–330
DA control devices	2
Oil quantity, hydr. fan (l/min)	20–25
Speed control of rotary harrow	Standard
Seed flow control	Standard (2 sensors)
Half-width shut-off (mechnical)	Standard
Bout marker hydr.	Standard
HORSCH Terminal/lighting	Standard

* Weights of the machines in minimum equipment with Cracker packer

EQUIPMENT

Chassis
For a safe road transport

The higher than average contour following capability (15 cm) of the TurboDisc coulter with integrated press wheel allows for a precise and even depth control. The high individual coulter pressure of up to 120 kg guarantees smooth running even on heavy soils and rough structures.

3 m segments of the rotary harrow are oscillatingly suspended for an optimum soil adjustment

Half-width shut-off electr.
Optional: By switching a valve the servomotor locks the distribution tower. The seed quantity is automatically reduced by 50 % via the HORSCH Terminal. A mechanical half-width shut-off is standard equipment.

Pronto 6/8/9 NT

Disc seed drill for mulch and direct seed

With the well-proven TurboDisc coulter and the compact design without a seed wagon the Pronto **6/8/9 NT** is suitable for mulch and direct seed. Operational speeds up to 20 km/h allow for a high area output even for smaller working widths. The wavy cutting discs cut organic material and cultivate the soil only in the seed rows. Thus, the horsepower requirement is very low. The large seed hopper (4 000 l) guarantees low idle times and even without additional weights allows for a sufficient pressure of the cutting discs. This pressure is transferred via the sophisticated hydraulic system of the machine.

If necessary, additional weights up to 1 400 kg can be mounted at the frame. Due to flexible frame sections the soil adaption of the seed unit is excellent. The double hopper version (5 000 l) allows for applying seed and fertiliser at the same time. In addition, a micro-granular unit is available to apply another component. Thus, up to three components (seed, fertiliser, micro-granular compounds) can be metered in only one pass.

1

Large chassis tyres

2

Double hopper

Pronto 6/8/9 NT

Technical specifications

HORSCH Pronto NT	6 NT	8 NT	9 NT
Working width (m)	6.00	8.00	8.80
Transport width (m)	3.50 (optionally 2.95)	3.50 (optionally 2.95)	3.50 (optionally 2.95)
Transport height cpl. w'out/ with bout markers (m)	3.25	3.53/3.60	3.96/4.40
Length, short/long tongue (m)	6.96/7.78	6.96/7.78	6.96/7.78
Weight (kg)*	8 720	9 620	10 800
Hopper capacity single hopper (l)	4 000	4 000	4 000
Hopper capacity double hopper (l)	5 000 (40:60)	5 000 (40:60)	5 000 (40:60)
Feed opening single hopper (m)	1.00x2.40	1.00x2.40	1.00x2.40
Feed opening double hopper (m)	per 0.99x0.72	per 0.99x0.72	per 0.99x0.72
Feed opening single hopper (m)	2.88	2.88	2.88
Filling height double hopper (m)	2.95	2.95	2.95
Number of seed coulters	30	40	44
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 seed coulters (cm)	20	20	20
Cutting disc system Ø (cm/inch)	46/18	46/18	46/18
Tyre size chassis	600/55-26.5	600/55-26.5	600/55-26.5
Tyre size support wheels	10.0/75-15.3	10.0/75-15.3	10.0/75-15.3
Working speed (km/h)	10 – 20	10–20	10–20
Power demand (kW/hp)	120–185/160–250	155–215/210–290	175–240/240–330
DA control devices	2	2	2
Depressurized return flow (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	35 – 45	35–45	35–45
Connection via lower link	Cat. III u. III/IV	Cat. III u. III/IV	Cat. III u. III/IV
Connection via adjustable drawbar	Hitch Ø 46–58 mm	Hitch Ø 46–58 mm	Hitch Ø 46–58 mm
Connection via ball head	K 80	K 80	K 80

EQUIPMENT

Fertiliser/seed flow control

Additional weights

Hydraulic fan with pto-shaft drive

Half-width shut-off electric

Pronto 10 / 12 NT

Disc seed drill for large farms designed for no-till farming

The **Pronto NT** is a compact universal seed drill with the Pronto system (cultivating, sowing and pressing) for mulch or no-till farming. Especially in no-till conditions the tool combination of ondulated coulter / cutting disc and the well-proven TurboDisc coulter has important advantages. Only that area of the soil is cultivated where then the seed will be placed. The HORSCH TurboDisc coulters efficiently adjust to uneven soils, guarantee high coulter pressure and a precise seed placement.

There are two different types of PPF system available to spread fertiliser. The fertiliser can either be placed together with the seed by the TurboDisc coulters or between the seed rows by fertiliser discs the depth of which can be adjusted separately (optional equipment). The direct connection of seed waggon and seed unit results in a high coulter pressure at the cutting discs and the fertiliser coulter without using any additional ballast weight.

1

High efficiency
due to large hopper
and large feed openings

2

Even difficult no-till conditions
do not cause any problems

3

The **ondulated coulters** cultivate
the soil efficiently and the power
demand is low

1

2

3

The advantages of the 10 / 12 NT at one glance:

- Top-efficiency for large farms
- Optimised for no-till farming
- Low power demand – the soil is only cultivated in that area where the seed will be placed
- Lower power demand due to ondulated coulters / cutting discs as previous tools
- TurboDisc seed coulters for precise seed placement
- Seed waggon with a capacity of 12 000 litre (partition 50 : 50 seed / fertiliser)
- Manoeuvrable machine due to compact design
- Low horsepower requirement due to low dead weight

Pronto 10/12 NT

Technical specifications

HORSCH Pronto NT	10 NT	12 NT
Working width (m)	10.40	12.00
Transport width (m)	4.30	4.30
Transport height (m)	4.05/4.34 with bout marker	4.95/5.20 with bout marker
Length with SW 12 000 SD (m)	11.40 (12.00 with PPF system)	11.20 (11.80 with PPF system)
Weight with SW 12 000 SD (kg)	13 150	13 840
Hopper capacity double hopper (l)	12 000 (50:50)	12 000 (50:50)
Feed opening double hopper (m)	per 0.99x0.72	per 0.99x0.72
Filling height double hopper (m)	3.40	3.40
Number of PPF coulters	26	30
Coulter pressure PPF coulters (kg)	up to max. 250	up to max. 250
Number of seed coulters	52	60
Coulter pressure seed coulters (kg)	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32
Row spacing (cm)	20/40 PPF system	20/40 PPF system
Cutting disc system Ø (cm/inch)	46/18	46/18
Tyre size SW	650/65 R 38 (optional 900/60 R 32 or twin tyres 20.8 R 42)	
Tyre size rear chassis	400/60–15.5	400/60–15.5
Working speed (km/h)	10–20	10–20
Power demand (kW/hp)	191–208/260–310	205–240/280–330
DA control devices	2	2
Depressurised return flow (max. 5 bar)	1	1
Oil quantity, hydr. fan (l/min)	90	90
HORSCH Terminal/lighting	Standard	Standard

EQUIPMENT

Well-proven **TurboDisc seed coulters** with high coulter pressure and excellent capacity to adapt to the soil for a precise seed placement

Ondulated coulters/cutting discs with maintenance-free bearings cultivate the soil in that area where the seed will be placed

Working depth adjustment of the previous tools via robust **AluClips**

Compact and with a hopper capacity of 12 000 litre for maximum efficiency

Express KR

Three-point seed drill with rotary harrow Kredo

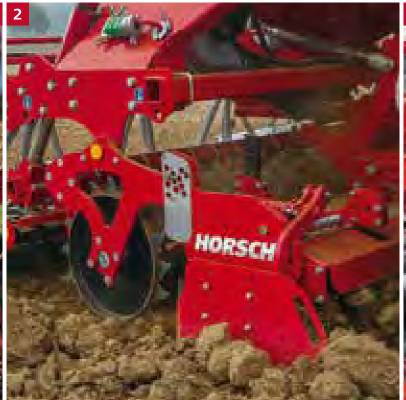
The **Express KR** is the first pneumatic HORSCH three-point seed drill with an active tillage tool: the integrated rotary harrow Kredo. Even under difficult conditions it allows for an intensive seedbed preparation. The rotary harrow Kredo has 10 rotating tools on 3 m working width. Its stable design is ideal even on stony soils. With quick-change tines it can be equipped with drag or TerraGrip tines. The fine-step adjustment of the working depth of the rotary harrow is easily accessible from the outside and is clearly visible. The adjustment of the levelling bar, too, is very easy.

Three packer versions are available for the **Express KR.** The tooth packer roller with a large 64 cm diameter is ideal for all conditions. Its load-carrying capacity even on light soils is quite high, thus the consequences on horsepower requirement and diesel consumption are very positive. The trapeze ring packer's diameter amounts to 50 cm for heavy soils with a high consolidation in the seeding zone or to 60 cm for changing soils from light to heavy with high requirements on the load-carrying capacity.

It forms a perfect seed furrow even in heavy and cohesive conditions. The FarmFlex packer is ideal for medium soils with little cohesion. The solid rubber roller with a diameter of 54 cm creates a zone consolidation of the soil in the shape of a furrow and reduces the encrusting effect of the soil (only available for Express 3 KR). For more flexibility the Express KR is available with single or double hopper. With the double hopper version two components can be metered into the same seed flow and can be placed together in the seed furrow. He adjustment of the seed discs is made hydraulically and is marked with the well-known coloured AluClips.

The frame of the **Express KR** is designed in such a way that the setting of the rotary harrow does not influence the sowing depth. The TurboDisc seed coulters can be lifted completely hydraulically. Thus the rotary harrow can also work solo. Moreover, the seed unit can be uncoupled easily from the rotary harrow via only 4 fixing points, thus allowing for using the Kredo separately.


1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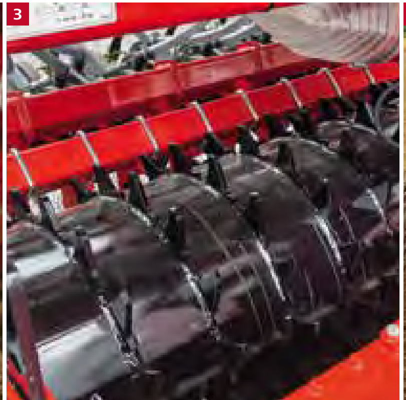
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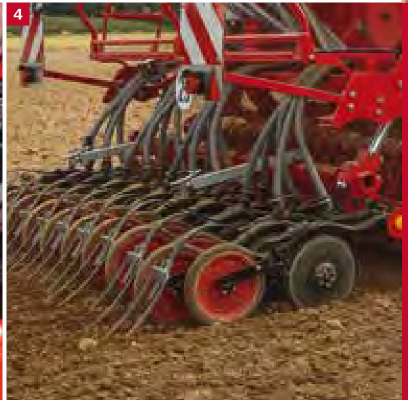
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1
Rotary harrow solo with lifted seed coulters

2
Rotary harrow Kredo crushes even rough lumps

3
Universal **tooth packer roller** with large diameter

4
Second generation of **TurboDisc precision coulters**

Express KR

Technical specifications

HORSCH Express	3 KR	3.5 KR	4 KR rigid	4 KR
Working width (m)	3.00	3.50	4.00	4.00
Transport width (m)	3.00	3.50	4.00	2.98
Filling height (m)	2.08	2.00	2.00	Partner FT
Length without/Length with PE marker (m)	2.85/3.25	2.85/3.25	2.85/3.25	3.00/3.40
Weight approx. (kg)*	3 200	3 500	3 850	4 200
Hopper capacity single hopper (l)	1 500	1 500	1 500	Partner FT
Dimension of feed opening (m)	0.93x2.40	0.93x2.40	0.93x2.40	Partner FT
Hopper capacity double hopper G & F (l)	2 000 (45:55)	2 000 (45:55)	2 000 (45:55)	Partner FT
Dimension of feed opening (m)	0.93x2.40	0.93x2.40	0.93x2.40	Partner FT
Number of seed coulters	20	24	28	28
Coulter pressure seed coulters (kg)	5–120	5–120	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32	34/32	34/32
Row spacing (cm)	15	14.50	14.25 (14.50)	14.5
Packer Ø (cm) trapeze ring roller	50/60	50/60	50/60	50/60
Packer Ø (cm) tooth packer	64	64	64	64
Packer Ø (cm) FarmFlex packer	54	---	---	---
Number of rotating tools	10	12	14	14
Working speed (km/h)	6–13	6–13	6–13	6–13
Power demand (kW/hp)	110–185/150–250	129–185/175–250	147–185/200–250	147–185/200–250
DA control devices	2 (+1 bout marker)	2 (+1 bout marker)	2 (+1 bout marker)	1 (folding), 1 (bout marker), 1 (coulter pressure – SA)
Depress. return line (max. 5 bar)	1	1	1	Partner FT
Oil quantity, hydr. fan (l/min)	20–25	20–25	20–25	Partner FT
3-point linkage	3-point Cat. III	3-point Cat. III	3-point Cat. III	3-point Cat. III

* Weights of the machines with minimum equipment

EQUIPMENT

Hopper capacity: 1 500 l

Double hopper version with the Grain & Fertiliser System (45:55)

Simple and easily understandable adjustment of the working depth of the rotary harrows

Tines with quick-change system

Express TD

Pronto technology for 3-point attachment

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

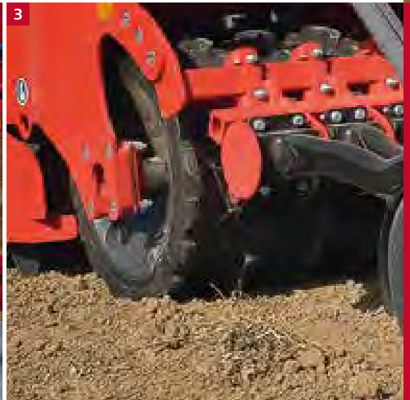
The well-proven DiscSystem of the Express TD guarantees a perfect production of fine soil at an operational speed of 10 to 20 km/h. Due to the intensive tillage it can do without a pto-shaft. Due to the high clearance the 460 mm discs are very efficient even if there are high amounts of organic material.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

Seed bed 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.

1

2



3

1
Precise sowing with the **Express TD** and HORSCH TurboDisc coulters that are also used in the Pronto

2
DiscSystem
Efficient seedbed preparation in all conditions

3
FarmFlex packer
Optimum consolidation in front of every seed coulter

Express TD

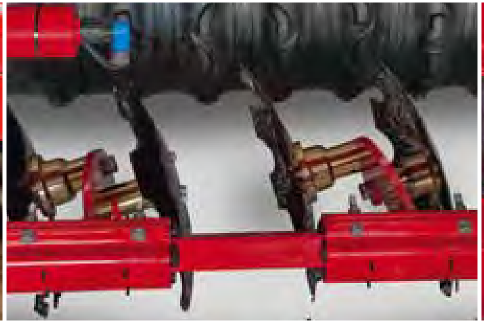
Technical specifications

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 approx. (kg)*	2 600	2 965
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	14.5
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 ydr. fan direct drive, +1 hydr. adjustment DiscSystem, +1 bout marker a. +1 hydr. coulter pressure adjustment)	1 (+1 ydr. fan direct drive, +1 hydr. adjustment DiscSystem, +1 bout marker a. +1 hydr. coulter pressure adjustment)
Depress. return line (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

* Weights of the machines with minimum equipment

EQUIPMENT

The above-average adaptability (15 cm) of the TurboDisc coulter with integrated press wheel allows for a precise and regular depth control. The high individual coulter pressure of up to 120 kg guarantees smooth running at a speed of more than 12 km/h.



FarmFlex packer and DiscSystem

Easily accessible metering rotor

Avatar SD

Robust, versatile, precise

The single disc coulters of the **Avatar** range excels due to a high coulter pressure of up to 350 kg and thus is ideal for most difficult sowing conditions. The range of application is from direct seed into stubble, over sowing of catch crops into main crops and direct seed on already cultivated fields. The large depth control wheel guarantees that the correct placement depth is kept exactly in all conditions; press wheel and closing wheel guarantees a safe covering and consolidation of the seed for an optimum emergence.

The **Avatar SD** has been designed as a compact machine and excels due to a transport width of 3 m while the working widths range from 6 to 12 m. The Avatar 3–8 SD has a 2-bar design and allows for a row spacing of 16.7 cm. The seed coulters of the Avatar 12 SD are arranged on one bar with a row spacing of 25 cm.

1 Avatar 12 SD

2 Avatar 4 SD

3 Avatar 6 SD

4 Press wheel in the seed furrow for optimum soil contact of the seed

The advantages of the Avatar at a glance:

- Universal ranges of application
  - Direct seeding
  - After tillage
  - Catch crops that are sown in main crops
- Versatile hopper system
  - Single hopper
  - Double hopper
  - Double hopper + micro-granular product
- Low horsepower requirement due to low disturbance of the soil
- Low disturbance of the soil while sowing – low stimulation for weed seeds
- Durable components
- Problem-free changing of seed
- Low maintenance

Avatar SD

Technical specifications

Avatar 6 SD

HORSCH Avatar	3.16 SD	4.16 SD rigid	4.16 SD	6.16 SD	8.16 SD
Working width (m/ft)	3.10	4.00	4.00	6.00	8.00
Transport width (m)	2.99	4.32	2.99	2.89	2.98
Transport height (m)	3.50	3.50	3.50	3.06	3.98
Length (m)	6.96	6.96	6.96	6.64	7.12/7.82
Weight (kg)	4 620*	5 500*	5 800*	9 300**	9 900**
Seed hopper capacity single hopper (l)	2 800	2 800	2 800	3 500	3 500
Feed opening single hopper (m)	1.00 x 2.40	1.00 x 2.40	1.00 x 2.40	1.00 x 2.40	1.00 x 2.40
Filling height single hopper (m)	2.85	2.85	2.85	2.52	2.92
Seed hopper capacity double hopper (l)	3 800	3 800	3 800	5 000	5 000
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	2.35	3.26
Hopper capacity micro-granular unit (l)	200	200	200	200	280
Number of seed coulters	18	24	24	36	48
Coulter pressure seed coulters (kg)	350	350	350	250	250
Seed coulters 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
Row spacing (cm/inch)	16.70	16.70	16.70	16.70	16.70
Tyre size seed unit/waggon	550/55–26.5	550/55–26.5	550/55–26.5	600/55–26.5	600/55–26.5
Tyre size support wheels	---	---	---	---	---
Working speed (km/h)	6–15	6–15	6–15	6–15	6–15
Power demand (kW/hp) from	90/125	105/140	105/140	155/210	200/270
DA control devices		1 (+1 incl. hydr. fan direct drive)		3	3
Depressurized return flow (max. 5 bar)	1	1	1	1	1
Oil quantity, hydr. fan (l/min)	35–45	35–45	35–45	35–45	35–45
Connection via lower link	Cat. III und III/IV	Cat. III und III/IV	Cat. III und III/IV	Cat. III und III/IV	Cat. III und III/IV
Connection via 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
Connection via ball head	K 80	K 80	K 80	K 80	K 80

* Weight of the machine with minimum equipment incl. additional weights at the front and at the rear (1 000 kg)
** Weights of the machines with minimum equipment incl. additional weights at the front and at the rear (1 400 kg)

Avatar 12 SD

HORSCH Avatar	12/40 SD	18/60 SD
Working width (m/ft)	12.00/40	18.00/60
Transport width (m)	2.98	3.00
Transport height (m)	3.80	4.00
Length (m)	8.31	9.51
Weight (kg)	11 240*	19 000**
Seed hopper capacity double hopper (l)	5 800 (50:50, per 2 900 l)	8 500 (50:50, per 4 250 l)
Feed opening double hopper (m)	per 0.66x0.94	per 0.66x1.70
Filling height double hopper (m)	2.80	3.10
Hopper capacity micro-granular unit (l)	300	---
Number of seed coulters	48 – row spacing 25 cm 40 – row spacing 12″ 32 – row spacing 15″	72 – row spacing 25 cm 60 – row spacing 12″ 48 – row spacing 15″
Coulter pressure seed coulters (kg)	250	250
Seed coulter Ø (cm)	48	48
Closing wheels Ø (cm)	33	33
Depth control wheels Ø (cm)	40	40
Row spacing (cm/inch)	25/15″/12″	25/12″/15″
Tyre size seed unit/waggon	520/85 R 38	520/85 R 38
Tyre size support wheels	15.0/55–17	550/60–22.5
Working speed (km/h)	6–15	6–15
Power demand (kW/hp) from	220/300	220/300
DA control devices	3	3
Depressurized return flow (max. 5 bar)	1	1
Oil quantity, hydr. fan (l/min)	35–45	35–45
Connection via adjustable drawbar	Ring hitch Ø 55–73 mm	Ring hitch Ø 55–73 mm
Connection via ball head	K 80	K 80

* Weight of the machine with minimum equipment incl. additional weights at the front and at the rear (1 000 kg)
** Weights of the machines with minimum equipment

Avatar SD

Avatar 6 SD

First row
Seed 1: e.g. coarse seed placed deeply

Second row
Seed 2: small grains, placed shallowly, e.g. incl. slug pellets

Avatar 12 SD

Versatile hopper system
3 components are metered independently and place in a seed band

2-bar coulter design for maximum clearance

EQUIPMENT

Steel closing wheel
(Optional: steel or rubber closing wheel)

Skid for seed placement

Fine adjustment of the sowing depth

Optional: tyres 710/50 – 26.5 for maximum contact area

Double hopper 5 000 litre;
partition 40 : 60

Compact in transport;
large working width in the field

Avatar SW

Innovative, efficient, well-proven components

Concept of the machine:

— Maximum efficiency for large farm:

– Working width 12 m

– Seed waggon technology from the well-proven Pronto line

– Designed for highest requirements and maximum efficiency during the season

— Seed waggon

– Capacity of 12 000 litre for maximum efficiency

– Hoppers 50 : 50 seed / seed or seed / fertilizer (application as as G+F version, seed and fertiliser in one row)

— Low horsepower requirement due to reduced soil movement

— Manoeuvrable machine due to compact design

— Low horsepower requirement due to low machine weight

1

12 metre working width

2

Avatar SW on the road

Avatar SW

Technical specifications

HORSCH Avatar	12 SW
Working width (m)	12.00
Transport width (m)	4.36
Transport height (m)	5.28
Length (m)	11.65
Weight (kg)*	19 160
Seed hopper capacity double hopper (l)	12 000 (50 : 50, per 6 000 l)
Feed opening double hopper (m)	per 0.99 x 0.72
Filling height double hopper (m)	3.34
Number of seed coulters	60
Coulter pressure seed coulters (kg)	250
Seed coulters Ø (cm)	48
Closing wheels Ø (cm)	33
Depth control wheels Ø (cm)	40
Row spacing (cm)	20
Tyre size seed waggon	650/65 R 38
Tyre size seed unit	400/60 – 15.5
Working speed (km/h)	6 – 15
Power demand (kW/hp) from	205/280
DA control devices	3
Depressurized return flow (max. 5 bar)	1
Oil quantity, hydr. fan (l/min)	60 – 80
Connection via adjustable drawbar	Ring hitch Ø 55 – 73 mm
Connection via ball head	K 80

* Weights of the machines in minimum equipment

EQUIPMENT

2-bar coulter design for maximum clearance

Compact design

Capacity of 12 000 litre with a 50 : 50 split hoppers

Solid monitoring sensors for seed and fertiliser

Focus TD

Strip tillage – the concept of the future

Topics like erosion prevention, yield stability and cost saving are getting more and more important. Numerous institutes have already been testing for several years. The results are unambiguous: conventional tillage with a plough is prone to erosion. Conservation tillage reduces it considerably and strip cultivation with the HORSCH **Focus** is on the same level as no-till farming, but with an increased yield stability.

Already since 2001, HORSCH has been concentrating on tillage for row cropping. The **Focus** only cultivates those areas where the crop plant will be situated later.

The Focus TD, a combination of the Focus and the Pronto sowing technology, is the consistent further development of this "Striptill" cultivation system. It loosens the soil in strips, removes harvest residues from the seed and root area and sets up a fertiliser deposit before the tyre packer prepares the subsequent sowing (15 cm or 30 cm row spacing) with the TurboDisc seed coulters.

The optional 3-point linkage on the **Focus 6 TD** allows for a faster and simpler changing from the seeding bar to a Maestro RC seed unit. This now also allows for a deep placement of fertiliser for maize and other single grains seeds with row spacing of 45–75 cm.

1 **LD coulters** cultivate the soil and set up an exactly placed fertiliser deposit

2 The **TurboDisc seed coulters** place the seed into a lump- and residue-free soil

3 Even in difficult climatic condition the Focus TD allows for a good emergence and an optimum development of the plant (here: **Focus TD** with **Maestro RC**)

The advantages of the Focus at one glance:

- Universal: after plough as well as for mulch or no-till farming
- Cost saving with low power demand – only that area of the soil is cultivated where the seed will be placed
- Efficient and targeted fertilisation for an optimum plant development
- Pronto principle: Cultivation, fertilisation, consolidation, sowing and pressing in one single pass
- TurboDisc seed coulters for precise seed placement
- TerraGrip tines with LD (low disturbance or ULD+) coulters for strip cultivation
- Depth of the fertiliser deposit is variable

Focus TD

Technical specifications

HORSCH Focus TD	4 TD	6 TD
Working width (m)	4.00	6.00
Transport width (m)	3.00	3.00
Transport height (m)	3.35	3.70
Length (m)	9.77	10.40
Weight (kg)*	8 240	9 500
Hopper capacity double hopper (l)	5 000 (2 000 l : 3 000 l/40 : 60)	
Dimension of feed openings (m)	front 0.66 x 1.22/rear 0.66 x 1.68	
Filling height double hopper (m)	2.95	2.95
Tyre size lateral support wheels	15.0/55-17	15.0/55-17
Tyre packer size	210/95-24 AS	210/95-24 AS
Tyre packer Ø (cm)	100	100
Number of tines	14	20
Tine spacing (cm) in one row	57.2	60
Tine spacing (cm)	28.6	30
Frame height (cm)	75	75
Release force (kg)/trip height (cm)	630/26	630/26
Number of seed coulters	14/28	20/40
Row spacing (cm)	28.6/14.3	30/15
Coulter pressure seed coulters (kg)	5–120	5–120
Seed coulters/press wheels (cm)	34	34
Working speed (km/h)	6–10	6–10
Power demand (kW/hp)	150–220/200–300	220–295/300–400
DA control devices	2	2
Depress. return line (max. 5 bar)	1	1
Oil quantity, hydr. fan (l/min)	35–45	35–45
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Ring hitch Ø 58–79 mm	Ring hitch Ø 58–79 mm
Connection via ball head	K 80	K 80

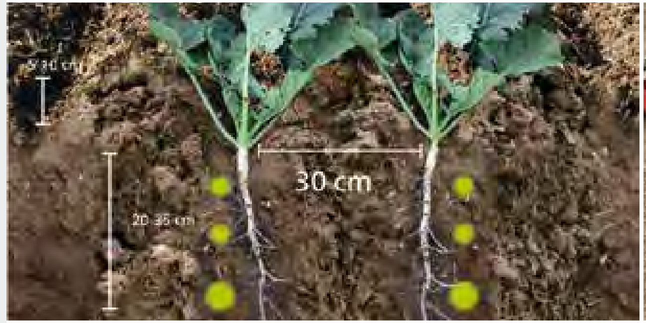
* Weights of the machines with Focus tine section and rape seed bar

EQUIPMENT

Focus TD for cereals:
Loosening spacings 30 cm, seed row spacings 15 cm, loosening depth 10 to 35 cm, placement of fertiliser depot in different depths

Focus TD with **three-point linkage** and a **Maestro RC** seed unit bar

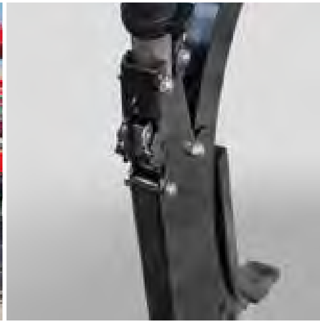
Ultra LD+ coulter loosen the soil deeply and even in heavy soils, do not bring large clods to the surface



Focus TD for winter rape:
Loosening spacings 30 cm, loosening depth 20 to 35 cm, ridge height depending on the free-flowing capacity of the soil 10 to 20 cm, placement of fertiliser depot in different depths

TerraGrip tines run exactly in front of the tyres

Always one **TurboDisc coulter** follows in the middle of a **TerraGrip** tine and a tyre



The **fertiliser depot** can be placed in three different ways: shallow, deep or 50 : 50

Focus TD

Technical specifications

HORSCH Focus TD 3-point	Focus 6 TD 3-point	Focus 6.35 TD 3-point
Working width (m)	6.00	6.00
Transport width (m)	3.00	3.00
Transport height (m)	3.70	3.70
Length incl. coulter bar (m)	10.60	10.60
Weight incl. coulter bar (kg)*	9 500	9 500
Weight without coulter bar (kg)**	8 400	8 400
Hopper capacity double hopper (l)	5 000 (2 000 : 3 000 l / 40 : 60)	
Dimension of feed openings (m)	front 0.66 x 1.22 / rear 0.66 x 1.68	
Filling height double hopper (m)	2.95	2.95
Tyre size lateral support wheels	15.0/55–17	15.0/55–17
Tyre packer size	210/95–24 AS	210/95–24 AS
Tyre packer Ø (cm)	100	100
Number of tines	20	17
Tine spacing (cm) in one row	60	70.60
Tine spacing (cm)	30	35.30
Frame height (cm)	75	75
Release force (kg)/trip height (cm)	630/26	630/26
Number of seed coulters	20/40	17/34
Row spacing (cm)	30/15	35.30/17.60
Coulter pressure seed coulters (kg)	5–120	5–120
Seed coulters/press wheels Ø (cm)	34/32	34/32
Working speed (km/h)	6–10	6–10
Power demand (kW/hp)	220–295/300–400	220–295/300–400
DA control devices	2 (resp. +1 for Maestro preparation kit, hydr. depth adjustment disc harrow section)	
Depress. return line (max. 5 bar)	1	1
Oil quantity hydr. fan (l/min)	35–45	35–45
Connection via lower link	Cat. III–III/IV–IV	Cat. III–III/IV–IV
Connection via adjustable drawbar	Ring hitch Ø 58–79 mm	Ring hitch Ø 58–79 mm
Connection via ball head	K 80	K 80
3-point linkage coulter bar	Cat. III/III	Cat. III/III

* Weight with minimum equipment with 2-row tine section and coulter bar WITHOUT coulter extension
** Weight with minimum equipment with 2-row tine section WITHOUT coulter bar

HORSCH Focus ST	Focus 8.75 ST 3-point
Working width with TurboDisc seed bar (m)	5.625
Working width with Maestro RC (m)	6.00
Transport width (m)	3.37
Transport height (m)	3.45
Length incl. coulter bar (m)	10.60
Weight incl. coulter bar (kg)*	9 500
Weight without coulter bar (kg)**	8 500
Weight without coulter bar (kg)**	5 000 (2 000 l : 3 000 l / 40 : 60)
Dimension of feed openings (m)	front 0.66 x 1.22 / rear 0.66 x 1.68
Filling height double hopper (m)	2.95
Tyre size lateral support wheels	15.0/55–17
Tyre packer size	210/95–24 AS
Tyre packer Ø (cm)	100
Number of tines	15
Tine spacing (cm)	37.50
Number of tines reduced	8
Tine spacing tines reduced (cm)	75

* Weight with minimum equipment with 2-row tine section and coulter bar WITHOUT coulter extension
** Weight with minimum equipment with 2-row tine section WITHOUT coulter bar

HORSCH Focus ST	Focus 8.75 ST 3-point
Number of cultivation discs/Ø (cm)	8/50
Frame height (cm)	85
Release force (kg)/trip height (cm)	550/29
Number of seed coulters	15/30
Row spacing (cm)	37.50/18.75
Coulter pressure seed coulters (kg)	5–120
Seed coulters/press wheels Ø (cm)	34/32
Working speed (km/h)	6–10
Power demand (kW/hp)	165–270/225–370
DA control devices	2 (resp. +1 for Maestro preparation kit)
Depress. return line (max. 5 bar)	1
Oil quantity, hydr. fan (l/min)	35–45
Connection via lower link	Cat. III–III/IV–IV
Connection via adjustable drawbar	Ring hitch Ø 58–79 mm
Connection via ball head	K 80
3-point linkage coulter bar	Cat. III/III

Sprinter ST/SW

Innovative and robust tine seeding technology

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 and at the same time cultivate the soil effectively as well as produce fine soil in the area where the seed is placed – all in one pass. 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 **Sprinters** are arranged in three bars with a tine spacing of 25 cm to 30 cm. They prepare the seedbed in an optimal way. As with a cultivator tine the soil is loosened, levelled, mixed and crushed.

1

MultiGrip tines
The tine release pressure of more than 200 kg guarantees a precise depth control for the Duett coulter. It efficiently places seed or seed and fertiliser at the same time into the soil.

2

Sprinter 8 SW
Low horse power requirement for large working widths and a hopper capacity of 8 000 l for high hectare output

3

Self-cleaning tyre packer
Guarantees an optimum seed-soil contact exactly behind every seeding coulter and an effective consolidation of the germination zone

1

2

3

The advantages of the Sprinter at one glance:

- Universal use: after plough, minimum cultivation and direct sowing
- Large seed hoppers with a capacity of 2 800 to 4 000 l or double hoppers for seed and fertiliser with capacities of 3 500 to 5 000 l resp. 8 000 for the SW line
- Working speeds of 8–15 km/h
- Tines remove harvest residues effectively from the seed horizon
- High coulter pressure (200–250 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 SW with large hopper for fertiliser and seed

Sprinter ST

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	3.40	---
Length (m)	8.20	8.51	8.51	7.30/7.50
Weight with single hopper (kg)*	3 200	4 000	5 400	7 150
Weight with double hopper (kg)*	3 450	4 550	6 020	---
Seed hopper capacity (l)	3 000	2 800	3 500	4 000
Hopper capacity double hopper (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	---
Tine spacing (cm)	25	28.6	27.3	32
Number of seed coulters/coulter rows	12/3	14/3	22/3	25/2
Tyre packer size tandem packer	185/65–15 AS	7.5–16 AS	7.5–16 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
DA control devices	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)	2 (+ 1 with hydr. filling)
Depress. return line (max. 5 bar)	1	1	1	1
Oil quantity, hydr. fan (l/min)	20–25/30–45 (PPF system)	20–25/30–45 (PPF system)	20–25/30–45 (PPF system)	20–25
Bout marker hydr.	Standard	Standard	Standard	Standard
HORSCH Terminal	Standard	Standard	Standard	Standard
Lighting	Standard	Standard	Standard	Standard

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

Sprinter SW

Technical specifications

HORSCH Sprinter SW	Sprinter 8 SW	Sprinter 9 SW	Sprinter 12 SW
Working width (m)	8.00	9.00	12.00
Transport width (m)	3.00	3.00	3.30
Transport height (m)	4.00	4.00	4.00
Length without/with SW 8000 SD (m)	6.85/12.10	6.85/12.10	5.95/11.30
Weight without/with SW 8000 SD (kg)*	7 000/10 750	7 700/11 500	10 300/14 200
Hopper capacity seed waggon (l)	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
Filling height (m)	3.05	3.05	3.05
Tine spacing (cm)	28.50	30.00	30.00
Number of seed coulters/coulter rows	28/3	30/3	40/2
Tyre packer size	7.50–16 AS	7.50–16 AS	7.50–16 AS
Tyre packer Ø (cm)	78	78	78
Working speed (km/h)	8–15	8–15	8–15
Power demand (kW/hp)	200–270/270–370	220–310/300–420	240–330/330–450
DA control devices	2	2	2
Depress. return line (max. 5 bar)	1	1	1
Oil quantity, hydr. fan (l/min)	50–60	50–60	70–90
Bout marker hydr.	Standard	Standard	Optional
HORSCH Terminal	Standard	Standard	Standard
Lighting	Standard	Standard	Standard

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

Sprinter NT

Efficient tine seed drill for no-till farming

The **Sprinter NT** with 15 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 unter 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 17 000 SD with a hopper capacity of 17 000 litre. The 15 metre wide version has some particular characteristics: Seed waggon and seed unit are a more compact unit.

Moreover, the **Sprinter 11** and **15 NT** is equipped with a slightly smaller seed waggon with a capacity of 12 000 litre.

1

No-till farming with maximum working width even for extreme climatic conditions

2

Sprinter 15 NT coulters clean the seed horizon and place the grain directly into the wet soil

1

2

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 15 NT: compact with low horsepower requirement

Sprinter NT

Technical specifications

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 (m)	6.70	6.70	9.60
Length with SW 12 000 SD (m)	12.35	12.35	---
Length with SW 17 000 SD (m)	---	---	17.70
Weight without SW from (kg)*	7 650	8 800	16 000
Weight with SW 12 000 SD from (kg)	12 350	13 500	---
Weight with SW 17 000 SD from (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
Tine spacing (cm)	30	25/30	30
Number of seed coulters/coulter rows	36/(3)	60/50/(3)	80/(3)
Rollers (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 R20
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
DA control devices	3	3	3
Depress. return line (max. 5 bar)	1	1	1
Oil quantity, hydr. fan (l/min)	40–50	40–50	50–60
HORSCH Terminal	Standard	Standard	Standard
Lighting	Standard	Standard	Standard

* Weights of the machines with minimum equipment

EQUIPMENT

Sprinter 11 NT

Sprinter 24 NT
in folded condition

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

Well-proven and robust **rubber pads** overload protection

Press wheel
for depth control of the seed coulters

Maestro CC/SW

The future of pneumatic single grain seed drills.
Fast – precise – multifunctional.

Due to its exact grain singulation the **Maestro CC** and **SW** is universally suitable for maize soybeans, sunflowers and sugarbeet. The patented Maestro single grain technology particularly excels due to three features: the unique metering system, the extremely small single grain metering unit and the placement quality control. The metering system is based on a completely new metering disc. It does not have the usual holes, but grooves that open up to the outside. Thus, together with the new scraper, the singulation results achieved in a large frequency range from 0 to 30 Hz are excellent.

30 Hz correspond to a working speed of 12 km/h for the usual 90 000 grains of maize per hectare. The crucial factor for these results is the smooth transition of the grains from a circular to a linear movement in the placement area. There are no disturbing centrifugal forces in the fall sluice. This extraordinary accuracy depends on the rotational frequency of the metering disc and is exactly controlled by sensors.

The software in the Isobus terminal is set up in such a way that the driver can clearly see the exact missing and double spots as well as the variation coefficient for every single row. Thus, the driver can respond any time to the most different conditions like seed or seedbed quality and use the machine to its full capacity. The feeding of the metering device is either made via individual containers (Maestro CC) or via a central fertiliser/seed hopper at the seed waggon (Maestro SW) by means of a Seed On Demand system. The **Maestro CC** is equipped with a seed waggon with a capacity of 2 800 litre for fertiliser and the capacity of the seed containers is 70 litre each. Due to the low power demand a 100 HP tractor is sufficient to pull the efficient machine. The Maestro SW is available with 12 and 24 seed rows with row spacings of 70 or 75 cm. The capacity of the seed waggon is 2 000 litre for seed and 7 000 litre for fertiliser. Some small details of the robust and well-proven single grain seed units have been up-graded for the Maestro. All rolling tools at the parallelogram-controlled units like trash devices, coulters, depth control and press wheels have been equipped with new solid bearings. The coulter pressure of up to 300 kg can be adjusted hydraulically to any condition.


1


2


3

1
Robust and precise – the HORSCH **single grain seed body** – here in the Seed on Demand version

2
High speeds up to 12 km/h are no problem for the **Maestro** – not only under test conditions, but also for the practical use in the field

3
The new **pneumatic singulation** is absolutely precise

Maestro CC

Technical specifications

Maestro CC

HORSCH Maestro CC	6.70–75–80 CC	8.70–75–80 CC	9.60 CC	12.45–50 CC
Transport width (m)	3.00	3.00	3.00	3.00
Transport height (m)	3.55	3.85	3.85	3.85
Transport length (m)	7.50	8.20	8.20	8.20
Weight (kg)*	3 600	3 940	4 100	4 575
Hopper capacity seed waggon	2 800	2 800	2 800	2 800
Feed opening seed waggon (m)	1.00x2.40	1.00x2.40	1.00x2.40	1.00x2.40
Capacity seed container (l)	70	70	70	70
Number of rows	6	8	9	12
Coulter pressure hydr. (kg)	125–300	125–300	150 – 350	125–300
Depth control wheel Ø (cm)	40	40	40	40
Press wheel Ø (cm)	30/33	30/33	30/33	30/33
Catching roller	Standard	Standard	Standard	Standard
Row spacing (cm)	70/75/80	70/75/80	60	45/50
Sowing depth (cm)	1.5–9	1.5–9	1.5–9	1.5–9
Drop height seed (cm)	45	45	45	45
Tyre size seed waggon (standard)	700/50–22.5	700/50–22.5	700/50–22.5	700/50–22.5
Tyre size seed waggon (optional)	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32	Twin tyres 230/95 R 32, Twin tyres 270/95 R 32
Working speed (km/h)	8–12	8–12	8–12	8–12
Power demand (kW/hp)	75/100	88/120	96/130	103/140
DA control devices	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. filling auger single hopper
Depress. return line (max. 5 bar)	1 for hydr. fan direct drive fertiliser and underpressure	1 for hydr. fan direct drive fertiliser and underpressure	1 for hydr. fan direct drive fertiliser and underpressure	1 for hydr. fan direct drive fertiliser and underpressure
Oil quantity hydr. fan underpressure (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Oil quantity hydr. fan fertiliser (l/min)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)	25 (not with pto-shaft drive)
Current demand (A)	40	40	40	45
Connection via adjustable drawbar	Bolt Ø 40 mm	Bolt Ø 40 mm	Bolt Ø 40 mm	Bolt Ø 40 mm
Connection via ball head	K 80	K 80	K 80	K 80

* Weights of the machines with minimum equipment

EQUIPMENT

The **metering system** is unique (dated 09.2011) and combines singulation, engine and control unit in one casing

The **metering disc** of the Maestro

The adjustable **scraper** transports he grain into the fall sluice without any disturbing centrifugal forces

Fertiliser discs with optional trash wheels

Maestro RC:
Maestro seed bar (8- or 12-row) combined with seed waggon of the Pronto AS. The Pronto seedbar can be replaced with the Maestro seedbar and vice versa via a 3-point.

Depth control wheels with scraper, adjustable press wheels and the catching roller which can be removed in extremely wet conditions as the seed grain is not placed into the soil with pressure

Seed container of the **Maestro CC**

Maestro SW

Technical specifications

HORSCH Maestro SW	12.70–90 / 30"–36" SW	16.70–75–80/30" SW	18.45–50 SW
Transport width (m)	3.00/3.12 South Africa for 12.70 – 30" SW/ 3.65 for 12.90 and 12.36" SW	3.00/3.12 South Africa for 16.70 – 30" SW	3.00
Transport height (m)	4.00/4.60 for 12.90 and 12.36" SW	4.00	4.00
Transport length (m)	9.51	8.06	9.51
Weight incl. seed wagon (kg)*	7 175	9 857	8 300
Axle load (kg)	---	---	---
Support weight (kg)	---	---	---
Hopper capacity seed waggon (seed/fertiliser) (l)	2 000/7 000	2 000/7 000	2 000/7 000
Feed opening seed waggon seed (mm)	800x660	800x660	800x660
Feed opening seed waggon fertiliser (mm)	2 450x660	2 450x660	2 450x660
Number of rows	12	16	18
Electr. Coulter pressure adjustment terminal (kg)	150–350	150–350	150–350
Depth control wheel Ø (cm)	40	40	40
Press wheel Ø (cm)	30/33	30/33	30/33
Catching roller	Standard	Standard	Standard
Row spacing (cm, inch)	70/75/90/30"/36"	70/75/80/30"	45 or 50
Sowing depth (cm)	1.5–9	1.5–9	1.5–9
Drop height seed (cm)	45	45	45
Tyre size seed waggon	520/85 R 38	520/85 R 42	520/85 R 42
Telescopic axle	Standard	Standard	Standard
Working speed (km/h)	8–12	8–12	8–12
Power demand as of (kw/hp)	130/180	160/220	160/220
Depress. return line (max. 5 bar)	1	1	1
DA control devices direct drive	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser and seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser and seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system
DA control devices pto-shaft drive	---	---	---
Oil quantity hydr. fan seed/fertiliser (l/min)	40	40	40
Oil quantity hydr. fan underpressure (l/min)	---	25	25
Power demand during operation (A)	45	50	50
Adjustable drawbar	Ring hitch Ø 55–73 mm	Ring hitch Ø 55–73 mm	Ring hitch Ø 55–73 mm
Ball-type linkage	K 80	K 80	K 80

* Weights of the machines with minimum equipment

HORSCH Maestro SW	24.45–50 SW	24.70–75/30" SW	36.45–50 SW
Transport width (m)	3.00	3.00/3.12 South Africa for 24.70 – 30" SW	3.00
Transport height (m)	4.00	4.00	4.00
Transport length (m)	8.06	9.50	9.62
Weight incl. seed wagon (kg)*	11 830	11 830	13 900
Axle load (kg)	---	---	10 200
Support weight (kg)	---	---	3 700
Hopper capacity seed waggon (seed/fertiliser) (l)	2 000/7 000	2 000/7 000	2 000/7 000
Hopper capacity seed wagon only seed (l)	8 500	8 500	8 500
Feed opening seed waggon seed (mm)	800x660	800x660	800x660
Feed opening seed waggon fertiliser (mm)	2 450x660	2 450x660	2 450x660
Hopper opening seed wagon only seed (mm)	1 700x660 (2x)	1 700x660 (2x)	1 700x660 (2x)
Number of rows	24	24	36
Electr. Coulter pressure adjustment terminal (kg)	150 – 350	150 – 350	150 – 350
Depth control wheel Ø (cm)	40	40	40
Press wheel Ø (cm)	30/33	30/33	30/33
Catching roller	Standard	Standard	Standard
Row spacing (cm)	45/50	70/75/30"	45/50
Sowing depth (cm)	1.5–9	1.5–9	1.5–9
Drop height seed (cm)	45	45	45
Tyre size seed waggon	520/85 R 42	520/85 R 42	520/85 R 42
Telescopic axle	Standard	Standard	Standard
Working speed (km/h)	8–12	8–12	8–12
Power demand as of (kW/hp)	200/270	200/270	243/330
Depress. return line (max. 5 bar)	1	1	1
DA control devices direct drive	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive seed with adjustable flow rate, 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive underpressure with adjustable flow rate (55 l/min), 1 DA hydr. fan direct drive fertiliser with adjustable flow rate (45 l/min), 1 DA hydr. fan direct drive seed with adjustable flow rate (20 l/min), 1 DA hydr. fan direct drive PowerPack with adjustable flow rate (25 l/min), 1 DA hydr. filling auger fertiliser system
DA control devices pto-shaft drive	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate (20 l/min), 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate (20 l/min), 1 DA hydr. filling auger fertiliser system	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate (20 l/min), 1 DA hydr. filling auger fertiliser system
Oil quantity hydr. fan seed/fertiliser (l/min)	45	45	45
Oil quantity hydr. fan seed (l/min)	20	20	20
Oil quantity hydr. fan underpressure (l/min)	55	55	55
Power demand during operation (A)	60	60	80 (PowerPack)
Adj. drawbar linkage	Ring hitch Ø 58–79 mm	Ring hitch Ø 55–73 mm	Ring hitch Ø 55–73 mm
Ball-type linkage	K 80	K 80	K 80

* Weights of the machines with minimum equipment

Maestro RC

The new standard for 3-point linkage

What are the excelling features of the Maestro RC?

— 8 to 12 km/h working speed

— Single grain seed with 3-point linkage; combined with a front hopper, Pronto AS or Focus TD with 3-point linkage

— Large 70-litre seed containers on every seed unit

— As an 8- or 12-row version

— Row spacings between 45 and 80 cm

— Robust HORSCH seed units

— Coulter pressure can be adjusted hydraulically between 150 and 200 kg for the Maestro RC solo

— Coulter pressure can be adjusted hydraulically between 150 and 350 kg for Maestro RC with Pronto AS and Focus

1

High working speed of 12 km/h

2

Maestro RC road transport

3

Maestro 8 RC in combination with Pronto AS

HORSCH Maestro RC	8.75 RC
Transport width (m)	3.00
Transport height (m)	3.45
Length without Focus ST (m)	2.50
Transport length with Focus ST (m)	10.70
Weight without Focus ST approx. (kg)*	1 800
Weight with Focus ST approx. (kg)*	10 300
Capacity seed container (l)	70
Number of rows	8
Coulter pressure hydr. (kg)	150 – 350
Depth control wheel Ø (cm)	40
Press wheel Ø (cm)	30/33
Catching roller	Standard
Row spacing (cm)	75
Sowing depth (cm)	1.5–9
Drop height seed (cm)	40
Working speed (km/h)	8–12
Power demand (kW/hp)	180–260 / 250–350
3-point linkage	3-point Cat. II/III

HORSCH Focus	8.75 ST 3-point
DA control devices	1 DA hydr. functions, 1 DA hydr. fan direct drive fertiliser with adjustable flow rate, 1 DA hydr. fan direct drive underpressure with adjustable flow rate
Depress. return line (max. 5 bar)	1
Oil quantity hydr. fan underpressure (l/min)	25
Oil quantity hydr. fan fertiliser (l/min)	35–45
Current demand (A)	40
Connection via lower link	Cat. II/III–III–III/IV
Connection via adjustable drawbar	Ring hitch Ø 58–79 mm
Connection via ball head	K 80

* Weights of the machines with minimum equipment (without bout marker and skimmers)

HORSCH Maestro RC	8.70 – 75 – 80 RC	12.45 – 50 RC
Transport width (m)	3.00	3.00
Transport height (m)	3.40	3.40
Length (m)	2.45 (3.45 incl. bout marker)	2.45 (3.45 incl. bout marker)
Weight approx. (kg)*	1 800	2 500
Capacity seed container (l)	70	70
Number of rows	8	12
Coulter pressure hydr. (kg)	150 – 200	150 – 200
Depth control wheel Ø (cm)	40	40
Press wheel Ø (cm)	30/33	30/33
Catching roller	Standard	Standard
Row spacing (cm)	70/75/80	45/50
Sowing depth (cm)	1.5–9	1.5–9
Drop height seed (cm)	45	45
Working speed (km/h)	8–12	8–12
Power demand (kW/hp)	75/100	90/120
3-point linkage	3-point Cat. II/III	3-point Cat. II/III
DA control devices	1 DA folding function (+ 1 DA for bout marker), 1 DA hydr. fan direct drive vacuum with adjustable flow rate + 1 DA with Partner FT for hydr. fan direct drive fertilizer with adjustable flow rate	1 DA folding function (+ 1 DA for bout marker), 1 DA hydr. fan direct drive vacuum with adjustable flow rate + 1 DA with Partner FT for hydr. fan direct drive fertilizer with adjustable flow rate
Depress. return line (max. 5 bar)	1 (2 if combined with Partner FT)	1 (2 if combined with Partner FT)
Oil quantity hydr. fan underpressure (l/min)	25	25
Oil quantity hydr. fan fertiliser (l/min) with Partner FT	20–35	20–35
Current demand (A)	40	45

* Weights of the machines with minimum equipment (without bout marker and skimmer)


1


2


3

And of course:

— The unique Maestro metering system

— The extremely small single grain metering unit

— The exact control of the placement quality

— Precise sowing with 12 km/h working speed

— Universally suitable for maize, soy, sunflowers and sugarbeet

HORSCH Intelligence

For drilling / single grain technology

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 drills 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.

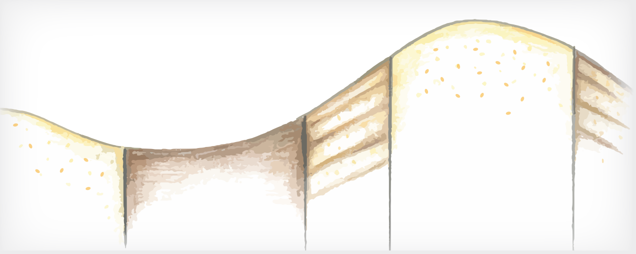
VariableRate

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.

HORSCH Terminal

Touch 1200 Terminal



VariableRate takes different types of soil into account.

Advantages of VariableRate:

- Saving of seed and fertiliser as only the necessary quantity is applied
- Regular emergence due to 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
  - The optimum application rate is automatically used on the fields.
- Protection of the environment
  - Only the necessary amount of fertiliser is applied.

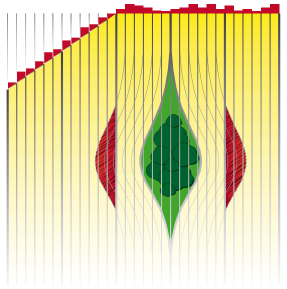
HORSCH Intelligence

For drilling / single grain technology

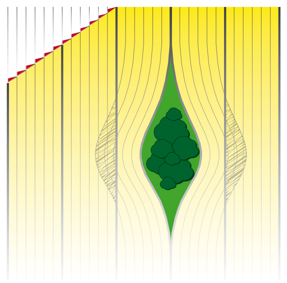
SectionControl

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 predefined areas individual sections (half-widths, individual row switch-off) or the whole working width is shut-off automatically.

When using a HORSCH Touch 800 / 1200 Terminals 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.



WITHOUT SectionControl

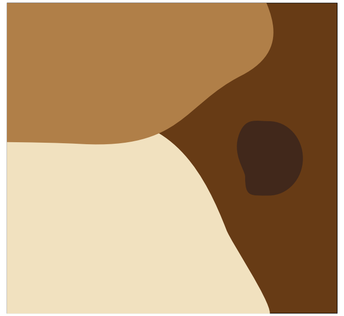


WITH SectionControl

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.



Soil quality	Seed	Fertiliser
high	300 grains / m²	2.8 dt / ha PK
medium high	270 grains / m²	2.5 dt / ha PK
medium low	250 grains / m²	2.3 dt / ha PK
low	220 grains / m²	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.

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

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

PLANT PROTECTION

INCREASED PRODUCTIVITY

- Leeb LT
- Leeb GS
- Leeb PT 280
- Leeb PT 330/350

Leeb LT

Intelligent spraying technology

What are the characteristic features of the Leeb LT:

— 4 000, 5 000 and 6 000 litre polyethylene tank with optimised shape for low surge forces.

— 600 l/min centrifugal pump as main spraying pump and an additional piston diaphragm pump as suction aid and for the continuous inside cleaning as a standard.

— Equipment can be adapted individually to the customer's requirements. Several basic equipment options are available.

— Eco: mechanical valves at the suction and the pressure side with electrical level indicator at the induction centre.

— Equipment CCS: mechanical valves on suction and pressure side with electric level indicator for the suction and continuous inside cleaning system.

— Equipment CCS Pro: modern electronics with HORSCH software, optimised for the plant protection sector. Suction and pressure side are equipped with electric valves for very easy handling. Additionally, CCS Pro has several cleaning programmes, e.g. boom rinsing that can be operated easily from the tractor cabin.

— HORSCH's own ISOBUS concept with a lot of innovations and practical functions that facilitate adjustment, handling and control of the technology. Hydraulics, brakes, lights and ISOBUS only have to be connected to the tractor.

— Boom widths available from 18 m–42 m with 6–42 sections.

— The patented boom control systems BoomControl ECO/Pro and Pro Plus are available options.

— Due to the quick and active boom control system BoomControl a low target area distance is possible even at high application speeds in combination with a 25 cm-nozzle spacing. Due to the low target area distance the risk of drift is reduced.

— Twelve different nozzle configurations are available. From 1–0 (every 50 cm a nozzle) via manual multiple nozzle holders to a 4–2 (every 50 cm 4 nozzles plus every 25 cm 2 nozzles). An automatic switch-over system between the nozzle configurations (AutoSelect) is available as an option.

— Smooth underbody to protect the crop, 85-cm clearance, ALB and a hydraulic support leg are part of the comprehensive standard equipment.

— Optional axle steering for a precise following in the tracks with a fully integrated system where the gyroscope is mounted on the axle. Thus, a connection to the tractor is not necessary.

— An air-suspended axle with level regulation as well as track widths from 1.80 m – 2.25 m Special track widths are available and the steering option version can be chosen.

— On demand, induction hopper and centrifugal pump are available in stainless steel and distinguishes itself by its longevity.

1


2


1

The optional axle steering is equipped with its own sensors. A mechanical connection or a connection via cable to the tractor is not necessary.

2

Due to the award-winning control system BoomControl the boom stays close to the target area (30 cm) and thus reduces drift even in hilly terrain.

Leb LT

Technical specifications

HORSCH Leeb LT	4 LT	5 LT	6 LT
Measures and weights			
Curb weight (kg)	4 850–5 850 (5 420*)	4 900–5 900 (5 470*)	4 930–5 930 (5 500*)
Tongue load empty (kg)	530–830 (660*)	550–850 (680*)	570–870 (700*)
Max. permissible vertical load (kg)	3 000	3 000	3 000
Axle load empty (kg)	4 330–5 020 (4 760*)	4 350–5 050 (4 790*)	4 360–5 060 (4 800*)
Max. permissible axle load (kg)	10 000	10 000	10 000
Overall length max. (transport position) (m)	7.70	7.70	7.70
Transport width (transport position) (m)	2.55*	2.55*	2.55*
Transport height (m)*	3.40–3.60 (3.60*)	3.40–3.60 (3.60*)	3.40–3.60 (3.60*)
Track widths (m)	1.80/2.00/2.25	1.80/2.00/2.25	2.00/2.25
Ground clearance axle (m)*	0.85*	0.85*	0.85*
Tank			
Mixture tank nominal capacity (l)	4 000	5 000	6 000
Mixture tank actual capacity (l)	4 400	5 300	6 400
Fresh water tank (l)	500	500	500
Hand wash tank (l)	15	15	15
Spraying boom			
Working widths	18/12 5-piece	18/12 5-piece	18/12 5-piece
	21/12 5-piece	21/12 5-piece	21/12 5-piece
	24/12 5-piece	24/12 5-piece	24/12 5-piece
	27/21/12 7-piece	27/21/12 7-piece	27/21/12 7-piece
	28/21/12 7-piece	28/21/12 7-piece	28/21/12 7-piece
	30/21/12 7-piece	30/21/12 7-piece	30/21/12 7-piece
	30/24/(12) 7-piece	30/24/(12) 7-piece	30/21/(12) 7-piece
	32/24/(12) 7-piece	32/24/(12) 7-piece	32/24/(12) 7-piece
	33/24/(12) 7-piece	33/24/(12) 7-piece	33/24/(12) 7-piece
	36/24/(12) 7-piece	36/24/(12) 7-piece	36/24/(12) 7-piece
	38/27/(14) 7-piece	38/27/(14) 7-piece	38/27/(14) 7-piece
	39/27/(14) 7-piece	39/27/(14) 7-piece	39/27/(14) 7-piece
	40/27/(14) 7-piece	40/27/(14) 7-piece	40/27/(14) 7-piece
	40/28/(14) 7-piece	40/28/(14) 7-piece	40/28/(14) 7-piece
	42/28/(14) 7-piece	42/28/(14) 7-piece	42/28/(14) 7-piece
Half-sections, min. max. (pieces)	6–42	6–42	6–42
Working height (m)	0.3–2.5	0.3–2.5	0.3–2.5
Pump output CCS and CCS Pro (l/min)	600	600	600
Pump output ECO (l/min)	400	400	400
Working pressure, max. (bar)	8	8	8
Working speed (km/h)	4–20	4–20	4–20

* Data with boom 12/21/27, 7-sect. and tyres 520/85 R 46

Indications may vary depending on the equipment.

EQUIPMENT

NightLight guarantees an optimum sprayer control even at night – extremely concentrated light penetrates all spray patterns

Boom folds tightly. Does not reach to the front towards the tractor cabin.

High ground clearance and smooth underbody

Filling centre LT CCS Pro with external control terminal

Filling centre LT CCS

Automatic boom control to maintain an exact, lowest possible working height even at high operational speeds in very hilly terrain

Leeb GS

Trailed professional sprayers

What are the characteristic features of the Leeb GS:

— 6 000, 7 000 and 8 000 litre stainless steel tank.

— The stainless steel tank is fast and easy to clean.

— Several basic equipment options are available:

— Eco: mechanical valves at the suction and the pressure side with electrical level indicator at the induction centre.

— CCS: mechanical valves at the suction and the pressure side with electrical level indicator at the induction centre and a continuous inside cleaning.

— CCS Pro: modern electronics with HORSCH software, optimised for the plant protection sector. Suction and pressure side are equipped with electrical valves that guarantee an extremely comfortable handling. In addition, the CCS Pro equipment provides several cleaning programs, like for example boom rinsing, that can comfortably be operated from the tractor cabin.

— HORSCH ISOBUS concept with a lot of innovations and practical functions that facilitate the adjustment, handling and monitoring of the technology.

— Hydraulic system, brake, light and ISOBUS only have to be connected to the tractor.

— Minimised hose lengths and residual quantities due to an optimum arrangement of the fittings and the distribution system.

— Compact design with saddle tank feature for a low centre of gravity.

— 3“ fittings and a powerful stainless steel induction hopper

— 3“ centrifugal pump with 1 000 l / min as a spraying pump and an additional piston diaphragm pump as suction aid and for the continuous inside cleaning (only CCS and CCS Pro).

— The patented boom control systems BoomControl

— Due to the quick and active boom control system BoomControl a low target area distance is possible even at high application speeds in combination with a 25 cm-nozzle spacing. Due to the low target area distance the risk of drift is reduced.

— Twelve different nozzle configurations are available. An automatic switch-over system between the nozzle configurations (MultiSelect) is available as an option.

— Smooth underbody to protect the crop, 85-cm clearance, ALB and a hydraulic support leg are part of the comprehensive standard equipment.

— Optional axle steering for a precise following in the tracks.

— The continuous inside cleaning system CCS (Continuous Cleaning System) that is available as an option for the trailed Leeb sprayers allows for a quick and safe cleaning of the sprayer. An additional piston diaphragm pump pumps water through the rotation nozzles into the tank while the spraying pump constantly sucks and pumps out the rinsing water. As an option, the boom can be blown out with air. All functions can be handled comfortably in the cabin.

— Induction tank and rotary pump are optionally available in stainless steel and excel due to their longevity.

1

Leeb GS –
when the tank is full, a transport speed of 40 kph is possible

2

Due to **BoomControl** the boom keeps up a low distance to the target area even on hilly sites

Leeb GS

Technical specifications

HORSCH Leeb GS	6 GS	7 GS	8 GS
Measures and weights			
Curb weight (kg)	5 610–6 890 (6 370*)	5 650–6 920 (6 400*)	5 680–6 950 (6 430*)
Tongue load empty (kg)	680–980 (960*)	690–990 (970*)	700–1 000 (980*)
Max. permissible vertical load (kg)	3 500	4 000	4 000
Axle load empty (kg)	4 930–5 910 (5 410*)	4 960–5 930 (5 430*)	4 980–5 950 (5 450*)
Max. permissible axle load (kg)	10 000	10 000	10 000
Overall length max. (transport position) (m)	8.30	8.30	8.30
Transport width (transport position) (m)	2.55–3.00	2.55–3.00	2.55–3.00
Transport height (m)*	3.40–3.60 (3.60*)	3.40–3.60 (3.60*)	3.40–3.60 (3.60*)
Track widths (m)	1.80**/2.00/2.25	2.00/2.25	2.00/2.25
Ground clearance axle (m)*	0.85*	0.85*	0.85*
Tank			
Mixture tank nominal capacity (l)	6 000	7 000	8 000
Mixture tank actual capacity (l)	6 400	7 400	8 400
Fresh water tank (l)	500	500	500
Hand wash tank (l)	15	15	15
Spraying boom			
Working widths	18/12 5 sect.	18/12 5 sect.	18/12 5 sect.
	21/12 5 sect.	21/12 5 sect.	21/12 5 sect.
	24/12 5 sect.	24/12 5 sect.	24/12 5 sect.
	27/21/12 7 sect.	27/21/12 7 sect.	27/21/12 7 sect.
	28/21/12 7 sect.	28/21/12 7 sect.	28/21/12 7 sect.
	30/21/12 7 sect.	30/21/12 7 sect.	30/21/12 7 sect.
	30/24/(12) 7 sect.	30/24/(12) 7 sect.	30/21/(12) 7 sect.
	32/24/(12) 7 sect.	32/24/(12) 7 sect.	32/24/(12) 7 sect.
	33/24/(12) 7 sect.	33/24/(12) 7 sect.	33/24/(12) 7 sect.
	36/24/(12) 7 sect.	36/24/(12) 7 sect.	36/24/(12) 7 sect.
	38/27/(14) 7 sect.	38/27/(14) 7 sect.	38/27/(14) 7 sect.
	39/27/(14) 7 sect.	39/27/(14) 7 sect.	39/27/(14) 7 sect.
	40/27/(14) 7 sect.	40/27/(14) 7 sect.	40/27/(14) 7 sect.
	40/28/(14) 7 sect.	40/28/(14) 7 sect.	40/28/(14) 7 sect.
	42/28/(14) 7 sect.	42/28/(14) 7 sect.	42/28/(14) 7 sect.
Half-sections, min. max. (pieces)	6–42	6–42	6–42
Working height (m)	0.3–2.5	0.3–2.5	0.3–2.5
Pump output CCS and CCS Pro (l/min)	1 000	1 000	1 000
Pump output ECO (l/min)	400	400	400
Working pressure, max. (bar)	8	8	8
Working speed (km/h)	4–20	4–20	4–20

* Data with 12/24/36 boom, 7 sections and 520/85 R 46 tyres

** Only possible for Leeb 6 GS track width 1.80 m

Indications may vary depending on the equipment.

EQUIPMENT

NightLight guarantees an optimum sprayer control even at night – extremely concentrated light penetrates all spray pattern

Numerous **nozzle spacings** and **bodies** as well as the pneumatic nozzle control allow for individual, intelligent application techniques

High ground clearance and smooth underbody

Round, large stainless steel induction hopper with high pressure nozzles for all HORSCH sprayers (optional for LT/GS)

With **BoomControl Pro** the boom exactly follows the contours – even in hilly areas

Leeb PT 280

More output – more cost-effectiveness

What are the characteristic features of the Leeb PT 280?

— 8 000 litre stainless steel tank.

— The stainless steel tank is fast and easy to clean.

— Minimised hose lengths and residual quantities due to an optimum arrangement of the fittings and the distribution system.

— Air-suspended axle with level regulation as a standard.

— Track widths from 2.00 m – 2.25 m. Special track widths are available.

— All-wheel steering is available as an option.

— Mechanical drive concept:
– Real all-wheel drive
– Considerable climbing ability
– High payload

— 50 km/h on the road with 1 400 engine rpm and speed control functions.

— Smooth underbody to protect the crop.

— 3" fittings and a powerful stainless steel induction hopper.

— 3" centrifugal pump with 1 000 l/min as a spraying pump and an additional piston diaphragm pump as suction aid and for the continuous inside cleaning.

— Boom widths available from 24 m – 36 m with 5 – 18 sections.

— The patented boom control systems BoomControl ECO/Pro and Pro Plus are available options.

— Due to the quick and active boom control system BoomControl a low target area distance is possible even at high application speeds in combination with a 25-nozzle spacing. Due to the low target area distance the risk of drift is reduced.

— Twelve different nozzle configurations are available. From 1 – 0 (every 50 cm a nozzle) via manual multiple nozzle holders to a 4 – 2 (every 50 cm 4 nozzles plus every 25 cm 2 nozzles). An automatic switch-over system between the nozzle configurations (Multiselect) is available as an option.

— The continuous cleaning system CCS (Continuous Cleaning System) is standard for all Leeb sprayers and allows for a quick and safe cleaning of the sprayer. An additional piston diaphragm pump pumps water through the rotating nozzles into the tank while the spraying pump constantly sucks and pumps out the rinsing water. As an option, the boom can be blown out with air. All functions can be handled comfortably in the cabin.

— Powerful and efficient large machine for your requirements.

1


2


3


1
Short idle times –
the 8 000 litre tank is filled in
8 minutes by a centrifugal pump

2
Due to **BoomControl Pro** the boom
keeps up a low distance to the crop
even on hilly sites.

3
Up to 50 km/h are possible
on the road

Leeb PT 280

Technical specifications

HORSCH Leeb	PT 280
Motor	
Water-cooled motor	MTU (Mercedes) OM 936
Power (kW/hp)	210/285
Number of cylinders/cooling	6/water/turbo with intercooler
Displacement (cm³)	7 700
Nominal speed (rpm)	2 200
Max. torque (Nm/speed)	1 150/1 400
Tank capacity Diesel/AdBlue (l)	Approx. 400/25
Emission standard	TIER 4 f
Gearbox	
Gearbox type	Hydroshift
Transmission	Hydrostatic stepless
Speeds	Field: 0 to 23 km/h, road: 0 to 40 km/h/optional: 50 km/h, maximum speed respectively possible at 1 400 rpm
All wheel drive	Permanent with inter-axle differential and differential lock
Chassis/axles	
Suspension	FA and RA pneumatic with level control and active side stabilization
Steering	
Front axle	Hydraulic
Rear axle	Hydraulic-electric steering (with steerable RA), automatic centring and interlocking during road travel
Steering types	Only FA/all-wheel steering/crabwalk/RA manual/via foot switch for headland
Dimensions and weights	
Curb weight (kg)	Approx. 7 600 without attachment/approx. 11 000 with attachment
Max. allowed total weight (kg)	18 000 on 40 km/h/50 km/h (20 000*)
Ground clearance (mm)	Approx. 850 below axle
Wheel base (mm)	3 300
Track width (mm)	2 000/2 250 by turning over the wheels
Length with spraying equipment (mm)	Approx. 9 000
Height with spraying equipment (mm)	Approx. 3 950
Total width (mm)	Approx. 2 800 (depending on track and tyres)
Tank attachments	
Tank	Stainless steel tank welded from inside and outside with three baffle walls
Capacity of tank (l)	8 000
Capacity of fresh water tank (l)	450

* Exemption required for Germany

EQUIPMENT

NightLight guarantees an optimum sprayer control even at night – extremely concentrated light penetrates all spraying cones

Comfort Terminal – clear and simple handling

Round, large stainless steel induction hopper with high pressure nozzles for all HORSCH sprayers (option for LT)

Comfort cab

More security – three overload protections per wing

Variable **nozzle spacing** and **bodies** as well as the pneumatic **nozzle control** allow for intelligent and individual application techniques

With **BoomControl Pro** the 36 m boom exactly follows the contours – even in hilly areas

Leeb PT 330*/350

combines maximum hectare output and precise plant protection even in higher crops

What are the characteristic features of the Leeb PT 330/350*?

- 5 000 litre stainless steel tank welded on the inside and on the outside.
- The stainless steel tank is fast and easy to clean.
- Minimised hose lengths and residual quantities due to an optimum arrangement of the fittings and the distribution system.
- The PT 350* is equipped with a 354 hp 6-cylinder engine according to the latest emission standard TIER 4f and an infinitely variable hydrostatic drive, with electric drive control and power limit control.
- The PT 330* is equipped with a 326 hp 6-cylinder engine according to emission standard TIER 3a and an infinitely variable hydrostatic drive, with electric drive control and power limit control.
- 40–60 km/h on the road with reduced engine rpm and speed control functions.
- Hydro-pneumatically spring-loaded single wheel suspension with level regulation and high clearance.
- Smooth underbody to protect the crop as standard.
- Infinitely variable track width from 2.25 m–3.00 m.
- All-wheel steering with automatic centring of the rear axle is standard.
- 3" fittings and a powerful stainless steel induction hopper
- 3" centrifugal pump with 1,000 l/min as a spraying pump and an additional piston diaphragm pump as suction aid and for the continuous inside cleaning.
- Boom widths available from 30 m–36 m with 6–32 sections.
- Due to the quick and active boom control system BoomControl a low target area distance is possible even at high application speeds in combination with a 25 cm-nozzle spacing. Due to the low target area distance the risk of drift is reduced.
- HORSCH's own software concept with a lot of innovations and practical functions that facilitate adjustment, handling and control of the technology.
- Twelve different nozzle configurations are available. From 1–0 (every 50 cm a nozzle) via manual multiple nozzle holders to a 4–2 (every 50 cm 4 nozzles plus every 25 cm 2 nozzles). An automatic switch-over system between the nozzle configurations (AutoSelect) is available as an option.

* The PT 350 is available in all HRC markets and the PT 330 is available in all LRC markets.
LRC: Low Regulated Market, e.g. Russia (PT330)
HRC: High Regulated Market, e.g. EU (PT350)

1

2

1 High ground clearance (1.6 metre)

2 Due to the award-winning control system BoomControl the boom stays close to the target (30 cm) and thus reduces drift even in hilly terrain

Leeb PT 330*/350

Technical specifications

HORSCH Leeb	PT 330*	PT 350
Machine type/engine/gear unit		
Motor	MTU (Mercedes) OM 926 LA	MTU (Mercedes) OM 936 LA
Power (kW/hp)	240/326	260 / 354
Number of cylinders/cooling	6/water/turbo with intercooler	6/water/turbo with intercooler
Displacement (cm³)	7 201	7 698
Nominal speed (rpm)	2 200	2 200
Max. torque (Nm/speed)	1 300/1 200-1 600	1 400/1 200-1 600
Control	electronic	electronic
Tank capacity Diesel/AdBlue (l)	Approx. 650/---	Approx. 480/40
Emission standard	TIER 3 a	TIER 4 f
Gearbox type	stepless hydrostatic traction drive with automatic load-depending motor regulation and hill start assistant (AutoHold)	
Transmission	hydrostatic stepless	
Speeds	Field: 0–30 km/h | Road: 0–40 km/h, 50 km/h or 60 km/h (depending on the registration)	
All wheel drive	Permanent four-wheel drive with traction control	
Chassis/axles		
Suspension	hydro-pneumatic independent wheel suspension with automatic damper setting, level compensation and chassis stabilisation	
Steering	hydraulic-electric all wheel drive steering	
Dimensions/weight/tank		
Curb weight (kg)	13 500	
Max. perm. total weight on road (kg)	18 000	
Ground clearance (mm)	1 400–1 600 (on 480/80 R 50)	
Wheel base (mm)	4 600	
Track width (mm)	2 250–3 000	
Length with spraying equipment (mm)	Approx. 9 000	
Height with spraying equipment (mm)	Approx. 3 950	
Total width road travel (mm)	Approx. 2 950	
Tank	Stainless steel tank welded from inside and outside with baffle walls	
Capacity of tank (l)	5 000	
Capacity of fresh water tank (l)	500	
Spraying boom		
Working widths (m)	30–36	30–36
Pump output (l/min)	800	800

* 330: TIER 3a only in Low Regulated Markets available (LRC), e.g. Russia.
350: TIER 4f in High Regulated Markets available (HRC), e.g. EU etc.

EQUIPMENT

NightLight guarantees an optimum sprayer control even at night – extremely concentrated light penetrates all spraying pattern

Touch Terminal – clear and simple handling

Round, large stainless steel induction tank with shock nozzles for all HORSCH sprayers

Comfort cab

Modern and clear tachometer display

Intuitive operation via touchscreen and joystick

Variable **nozzle spacing** and **bodies** as well as the pneumatic nozzle control that allow for intelligent and individual application techniques

Titan UW

A new dimension of efficiency

The new HORSCH auger wagon Titan UW stands for harvest efficiency in a new dimension. It has inherited the genes of the first HORSCH auger waggons and raises them to a completely new technical level. Due to the large hopper capacity of 34 m³ idle times on the field boundaries and awkward manoeuvring are part of the past.

The hopper capacity of the UW corresponds to one truckload. A truck is thus filled at one go. The output of the newly designed hydraulically foldable auger conveyor (Ø 600 mm) is 18 tons per minute. Thus, 34 m³ are reloaded in only 90 seconds.

The **Titan 34 UW** has a telescopic axle as standard equipment. It moves every tyre to the outside by 30 cm. This increases the width of the machine from 3.00 to 3.56 m. Thus, stability is increased and soil pressure reduced as the tyres of the auger waggon do not run in the tractor tracks.

Another soil-saving means are the large-dimensioned tyres (900/60 R32). More-over, there are an integrated weighing system, a pneumatic (and hydraulic) brake system and a clearly visible display of the opening situation of the auger conveyor slider.

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2


3


1
Due to the **Titan 34 UW**'s hopper capacity of 34 m³ idle times on the field boundaries and awkward manoeuvring are part of the past

2
The **Titan UW** with the optimum powertracks for low ground pressure

3
Due to the **telescopic axle**, stability is increased and soil pressure reduced

Titan UW

Technical specifications

HORSCH Titan UW	34 UW
Length (m)	8.26
Width (m)	3.00
Width (Axle extended) (m)	3.56
Transport height (m)	4.00
Filling height of hopper side/centre (m)	3.48/3.60
Transfer height (m)	4.60
Dead weight (kg)	6 700
Rear axle load (kg)	5 280
Front towbar load (kg)	1 420
Tank capacity (m³)	34
Hydr. foldable auger Ø (mm)	600
Transfer output tons/min	18
Tyres	900/60 R 32
Universal joint shaft tractor	1 3/8"–Z 6, 1 3/8"–Z 21, 1 3/4"–Z 6, 1 3/4"–Z 20
DA control devices	4
Movable axle	standard
Road-lighting equipment	standard
Electronic weighing system	option
Tarpaulin cover	option

EQUIPMENT

Due to the optionally available power tracks ground pressure is reduced

The telescopic rear axle increases the width from 3.00 to 3.56 meters and, thus, guarantees more soil-saving and stability

The auger waggon is available with a hydraulic or a pneumatic brake system

The inside of the complete hopper is easily accessible and walkable for easy cleaning

Display of the opening situation of the hydraulic slider in the auger waggon is clearly visible from the tractor cabin

The output of the hydraulically foldable conveyor auger amounts to 18 tons per minute, and, thus, the Titan UW is emptied in 90 seconds

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