

# Application solutions

# **HORSCH**

*Farming with passion*

MiniDrill

SW 12000

Partner FT/HT

DuoDrill

FLEXIBLE, EXACT,  
EFFICIENT



# Flexibility

## WHEN APPLYING FERTILISER AND SOWING CATCH CROPS



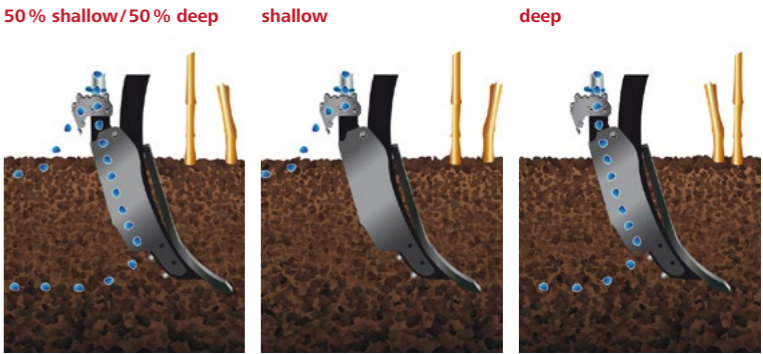
HORSCH's focus still is on the future and its priority is to optimise technology even further, thus allowing the farmer to benefit from constantly increasing advantages. The time window and the conditions in farming get more and more difficult. This is the reason why certain measures are necessary to comply with them. One method that is already quite common in Eastern Europe is the exact placement of fertiliser during the tillage pass to prepare a fertiliser depot for the roots. In times when prices for fertiliser are rising, efficient fertilising is extremely important. Applying fertiliser during the tillage pass and while sowing also has logistic advantages. If time is pressing you can work in a particularly efficient way, even with high quantities of fertiliser. Thus, in addition to reducing idle times while sowing, you can also avoid further passes at a later point in time. Due to our two-chamber system it is possible to sow catch crops while at the same time applying an initial amount of fertiliser in only one pass.

For this purpose HORSCH developed **application solutions** for different farm sizes. A starting point for an exact application is the **Partner HT**, a double hopper system mounted at the rear with a total hopper capacity of 2 800 litres partitioned in a ratio of 40 : 60. All kinds of catch crops can be sown regularly and in addition another catch crop or fertiliser component can be metered independent from each other. Due to numerous combination possibilities with the Terrano, Joker or Express the large front hopper **Partner FT** with a capacity of 1 600 litres provides another multi-purpose possibility for a targeted application of fertiliser and thus saves time and costs compared to traditional fertilising methods.

For large farms with high fertiliser application quantities HORSCH developed the **SW 12000**, a seed waggon that consists of two hoppers with a capacity of 6 000 litres each. Combined with our tillage tools like the Tiger MT the farmer disposes of an efficient rig for a targeted fertiliser placement in a deep cultivation

horizon. The application at a depth of up to 35 cm is carried out with our special fertiliser coulters. Three placement depths can be adjusted without tools.

Greening requirements are playing a central role and the sowing period often clashes with the harvest season. To avoid further peaks while at the same time guaranteeing a precise sowing of catch crops the farmer needs a compact seed hopper that turns a simple tillage tool into a seed drill. For this purpose HORSCH offers the **MiniDrill** that with its well-proven metering unit provides a flexible solution for a quick sowing of catch crops. As it is possible to sow the most different grains sizes in seed mixtures without restrictions, the MiniDrill is the optimum solution for greening.



MiniDrill



Partner FT/HT



SW 12000



DuoDrill

# MiniDrill

## THE CATCH CROP PRO

The **MiniDrill** was developed to turn a tillage tool with only little effort into a precise seed drill.

It has a 400 litre pressurised hopper for an evenly high seed rate of 160 kg/ha. The pressurised hopper considerably reduces the segregation of special seed mixtures that are getting more and more popular. With the appropriate metering shaft, the well-proven metering unit of the Pronto transports the seed directly into the distribution system where it is evenly distributed by means of deflector plates in front of the packer. Due to their mode of operation our packers guarantee an optimum seedbed so nothing interferes with a trouble-free emergence.

For an optimum lateral distribution there are six evenly distributed outlets in front of or behind the packer till 3 m working width and 12 for working widths as of 4 m. For special solutions the **MiniDrill solo** is available with a central fall tube, thus the MiniDrill can be coupled directly with a distribution tower. The outlets are supplied by the very smooth hydraulic fan that can do with 20 to 25 l/min and thus can be operated with any tractor.

The MiniDrill is controlled via the well-known operating screen of the HORSCH seed drills. Any ISOBUS-compatible terminal can be used.

The application is controlled automatically via the speed and the lifting unit regulation of the tractor. The signal can either be taken via the 7-pole socket or optionally via a radar sensor.

**Attachment options:** Terrano FX, Terrano GX, Joker CT, Joker RT



**MiniDrill – outstanding efficiency for catch crops and greening**

- Capacity: 400 litres
- Pressurised hopper
- Hydraulic fan with 20 l/min hyd req.
- Wide range of rotors





## Partner FT/HT

### CONTROLLED INCORPORATION OF FERTILISER DURING THE TILLAGE PASS

#### Partner HT

The rear hopper **Partner HT** is a double hopper. The total capacity is 2 800 litres, partitioned in a ratio of 40:60. This allows for metering two different components or one component from both hoppers to make use of the whole capacity.

In practice, the following applications are possible:

- One kind of fertiliser from both hoppers
- Two different fertiliser components (e.g. phosphor and potash fertiliser)
- Seed and fertiliser (rape and deep fertilisation)
- Two seeds, especially if the grain sizes differ considerably

Moreover, the targeted fertilisation increases efficiency and compared to conventional fertilisation saves costs. Especially for phosphate, the system helps to improve fertiliser efficiency. The placed fertiliser is immediately and permanently available to the plant.

The **HORSCH Partner HT** is linked to the 3-point linkage of the tractor. It can be linked to a tillage tool (e.g. HORSCH Joker RT, Tiger AS/MT, Terrano FM/MT/GX) via a lower link at the Partner HT, K 80 ball head coupling or drawbar. Due to the design of the rear hopper the visibility into the working tool is optimum.

#### Partner FT

The front hopper has a capacity of 1 600 litres and allows for applying one component, together with the HORSCH Maestro RC solo for example for underground fertilisation in maize. The **Partner FT** can be used for deep fertilisation, for example mounted on the HORSCH Terrano FX. The compact design of the FT allows for a good visibility towards the front. At the same time the feed opening is rather large for a quick filling with a front loader or a telescopic handler.

Additional weights are available as an option to increase the Partner FT (dead weight 700 kg) with an additional weight of 360 kg. Thus, the tractor is balanced in an optimum way even if the front hopper is empty. For an optimum conservation of the soil and consolidation the front hopper can be equipped with an intermediate packer – a RollPack packer with 280 kg or a tyre packer with 230 kg.



# SW 12000

## EFFICIENCY FOR THE PRECISE PLACEMENT OF FERTILISER



The **SW 12000** is a flexible solution for applying large quantities of fertiliser during the tillage pass as due to its application range with regard to sowing it can also be mounted in front of a seed drill. The double hopper is made of non-corrosive plastic and has a capacity of two times 6 000 litres for the simultaneous

application of two components. The large tyres save the soil to the greatest possible extent. By means of six possible hydraulic control devices, ISOBUS line, electronic and pneumatic lines that are led through the seed waggon, the seed waggon can be used with almost every mounted implement.

# DuoDrill 3

## EFFICIENCY FOR RAPE AND CATCH CROP CULTIVATION



The principle of the **HORSCH DuoDrill** is to blow the seed onto the surface, press it into the soil with the tyre packer and cover it with earth.

**Attachment options:** Tiger, Joker RT Classic, Pronto DC

### Universal range of use

- Sowing catch crops
- Sowing winter rape

## Fertiliser mounting Tiger MT

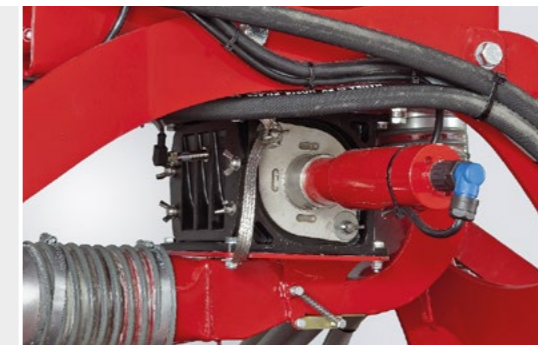
### Tiger 4 MT rigid with optional fertiliser mounting

Only the **Tiger 4 MT rigid** disposes of a middle chassis and a double RollPack packer. Additionally, a fertiliser mounting with a 2 500 litre hopper is available for this machine.

This system is a simple entry into the sector of targeted fertilisation. It increases efficiency and compared to conventional fertilisation saves costs.



Full-featured pneumatic seed drill with **HORSCH Terminal**



**HORSCH metering device and distribution tower**



Seed placement in front of every press wheel



**Tyre packer** guarantees excellent rolling of the seed



**TopRing packer** (optional) guarantees optimum cover

# TECHNICAL SPECIFICATIONS

HORSCH MiniDrill	Terrano 3 FX	Terrano 3.5 FX	Terrano 4 FX rigid	Terrano 4 FX	Terrano 5 FX
Working width (m)	3.00	3.50	4.00	4.00	5.00
Total weight, MiniDrill (kg)	150	155	160	270	285
Weight w’out seed hopper (kg)	45	50	55	150	170
Seed hopper capacity (l)	400	400	400	400	400
Dimension of feed opening (mm)	380	380	380	380	380
Filling height solo/mounted (m)	1.05/2.05	1.05/2.05	1.05/2.05	1.05/2.25	1.05/2.25
Max. application quantity (kg/ha)	260	225	200	200	160
Single-acting control devices	1	1	1	1	1
Depressurized return flow (max. 5 bar)	1	1	1	1	1
Oil quantity hydr. fan (l/min)	20–25	20–25	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 w’out 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
Max. application quantity (kg/ha)	200	160	130
Single-acting control devices	1	1	1
Depressurized return flow (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	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 w’out 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
Max. application quantity (kg/ha)	160	130	100
Single-acting control devices	1	1	1
Depressurized return flow (max. 5 bar)	1	1	1
Oil quantity hydr. fan (l/min)	20–25	20–25	20–25

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 w’out 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
Max. application quantity (kg/ha)	260	225	200	200	160	130
Single-acting control devices	1	1	1	1	1	1
Depressurized return flow (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 DuoDrill	DuoDrill 3
Working width (m)	3.00
Additional weight Tiger (kg)	320
Additional weight Pronto DC (kg)	260
Seed hopper capacity (l)	300
Dimension of feed opening (cm)	66 x 42
Filling height (m)	2.70
Number of seed pipes	10
Seed pipe spacing (cm)	30
Double-acting control devices	1
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	25–35

HORSCH SW 12000 SD		
Transport width (m)	Version SW	Version NT
with tyres 650/65 R 38	2.98	3.35
with tyres 900/60 R 32	3.35	3.73
with twin tyres 520/85 R 42	---	4.29
Length (m)	7.22	6.88
Transport height (m)	as of 3.67 (with hydr. filling auger 3.93 m)	
Weight as of (kg)	3 460 with tyres 650/65 R 38	
Hopper capacity seed waggon (l)	12 000 (50 : 50)	
Dimensions feed opening (m)	per 0.99 x 0.72	
Filling height (m)	as of 3.34 with tyres 650/65 R 38	
Linkage to tractor	Adjustable drawbar linkage for bolt Ø 50–55 a. 60–70 mm or ball head linkage K 80	

HORSCH Partner FT	Partner FT
Transport width (m)	2.50
Height (m)	1.56
Length without additional weights (m)	1.44
Weight without additional weights (kg)	700
Hopper capacity (l)	1 600
Dimensions of feed openings (m)	2.30 x 0.67
Feed opening (m)	1.56
Double-acting control devices	1
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	20–35
Tractor-side tool linkage	3-point Cat. II and III

HORSCH Mounted fertiliser unit	Mounted fertiliser unit for 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 (3 x 840 l)
Dimensions of feed openings (m)	4.20 x 0.91
Filling height, double hopper (mounted on Tiger; m)	2.70
Double-acting control devices	1
Depressurized return flow (max. 5 bar)	1

HORSCH MiniDrill	MiniDrill Solo
Total weight, MiniDrill (kg)	150
Seed hopper capacity (l)	400
Dimension of feed opening (mm)	380
Filling height solo (m)	1.05
Single-acting control devices	1
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	25–35

HORSCH Partner HT	Partner HT
Transport width (m)	2.84
Height (m)	1.82
Length (m)	1.19
Weight (kg)	1 100
Hopper capacity, double hopper (l)	2 800 (40: 60/1 120:1 680)
Dimensions of feed openings (m)	per 1.12 x 0.55
Filling height double hopper (m)	1.90
Double-acting control devices	3 (1 DA for hydr. fan – direct drive, 2 DA for attached tool)
Depressurized return flow (max. 5 bar)	1
Oil quantity hydr. fan (l/min)	35–45
Tractor-side tool linkage	3-point Cat. II and III/IV
Machine-side tool linkage (lower link)	Cat. III
Machine-side tool linkage (ball-type coupling)	K 80
Machine-side tool linkage (Drawbar)	Cat. IV (Pin Ø 50 mm)



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

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