

Plot / Row Motion

ELECTRIC DRIVE PLOT DRILLS

 **WINTERSTEIGER**
Thinking about tomorrow.

Plot / Row Motion

Maximum flexibility and precision due to electric sowing drive.

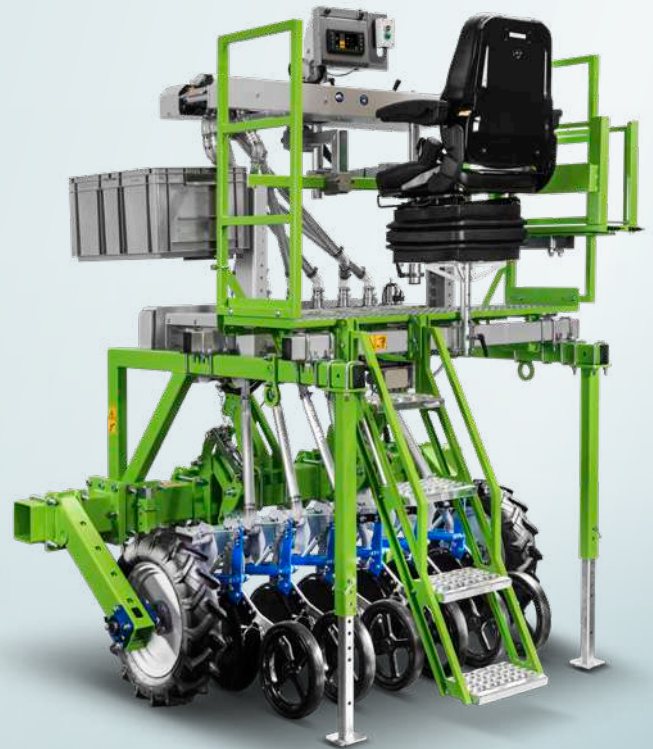
The tractor-mounted (three-point) or towed seeders for plot and/or precision-spaced planting with electric sowing drive have been developed for maximum precision and flexibility. The two seeder types can be configured as a lightweight or heavy version and it is possible to combine both sowing systems on one machine. The flexible frame and control concept make modifications and upgrades extremely easy, while the Easy Plant planting software enables optimum interlinking of planting and harvesting data.

The modular system with its many options allows you to customize the machine for many different applications. A heavy machine can also be configured for no-tillage application.





Plot Motion plot drill



Row Motion single row seeder

High degree of flexibility in field layout.

- Plot lengths from 1 to 60 m with Plot Motion
- Plot lengths from 0.5 to 25 m with
- Row Motion Narrow alleys from 0 m

Your benefits summed up:

- Plot and/or single row planting: Combination of both sowing systems on one machine
- High level of flexibility in plot layout
- Maximum precision due to electric sowing drive
- Easy modifications and upgrades due to flexible frame and control concept
- Easy Plant planting software for optimum interlinking of planting and harvesting data

Flexible frame concept.



Double Row Motion on rotary harrow

- Flexible frame and control concept makes conversions and upgrades extremely easy.
- Same frame module and control module on all seeders from the latest family.
- CE-certified design ensures excellent visibility and a high degree of safety. Each machine is equipped with steps, a platform, and rails. High degree of modularity in equipment options
- Double and triple plot seeders can be configured via the modules as standard
- Tractor mounted with three-point or pull-type seeder, planting on beds optional
- Both the single row seeder and plot seeder are available as a kit for mounting on a local frame
- Can be attached to the WINTERSTEIGER Tool Carrier
- Each machine and each kit is subject to rigorous quality control

Modern, user-friendly control system.

- Modern and intuitive user interface with color display even with the entry-level control unit. The control system can be operated using buttons or the touch screen. Optimum interlinking of planting and harvesting data, as the Easy Plant planting software is now also available for plot drills.
- Variable sowing density as well as fertilizer and micro- granulate quantities are possible via field plan import with Easy Plant.
- Spraying alleys, gaps, as well as different plot and alley lengths can be implemented even in the basic version. Easy update function via USB port.



Control unit eMotion



Control unit Easy Plant

Technical Data

| Control unit | eMotion | Easy Plant |
|--|--------------------------|-------------|
| Display size | 5" | 10,1" |
| Operation | Touch screen and buttons | Touchscreen |
| Software can be installed on customer PC | – | ● |

| Planting functions | | |
|---|---|---|
| Quickset for entering field plans | ● | ● |
| Creation of simple field plans (separation of plot blocks) | ● | ● |
| Diagnostic function | ● | ● |
| Simple update function via terminal | ● | ● |
| Wizard for calibration processes | ● | ● |
| Variable application rate for multi-purpose spreader (fertilizer, micro granulate, seeds) | – | ○ |
| Import of CSV or Excel field plans for complex trials | – | ● |
| Bulk seeding | ○ | ○ |

| GPS connectivity options | | |
|---|---|---|
| External actuation via GIS field plan | ● | ● |
| Distance-based pulse | ○ | ○ |
| Area-based pulse (when using GIS field plans). With the area-based pulse, the telemetric sensor is also constantly recalibrated; this is not the case with external actuation. | ○ | ○ |

● Standard equipment, ○ optional equipment, – not available

Tried-and-tested seed feeding system with optimized details.

Tried-and-tested distributing systems such as a belted cone, cell wheel, magazine unit, predistributor, and single funnel have been improved down to the last detail and therefore ensure greater distribution accuracy and wear resistance. This results in better repeatability and higher operational reliability. Each component has its own drive unit and can be positioned independently.



Row Motion operator platform



Plot/Row Motion operator platform



Belted cone with improved longitudinal distribution and wear resistance

Wide range of openers.

From lightweight shoe openers to heavy double disk openers, we offer a wide range of openers for every soil type. Customer-specific solutions can also be implemented.

Openers..



1

PÖTTINGER shoe opener

The PÖTTINGER shoe opener has the same opener pressure – of up to 25 kg – at the front and rear. The opener features precise depth control for a perfect seed furrow, unobstructed sowing thanks to the 30-cm opener increment, and a wear-resistant cast point. Optional pressure rollers for depth guidance and reconsolidation are available. The depth can be adjusted easily using lock pins.



2

PÖTTINGER single disk opener

The PÖTTINGER single disk opener is suitable for light soils with little organic matter. A spring-loaded protective flap automatically closes the opener when moving backwards and provides reliable protection. The cast opener points are wear resistant.



3

LEMKEN double disk opener

The LEMKEN double disk opener with rubber-tired depth control roller and parallelogram suspension places the seed accurately at a uniform depth even in variable soils.



4

GREAT PLAINS (00 series) double disk opener

The GREAT PLAINS double disk opener with centrally adjustable opener pressure from 40 to 100 kg per opener is suitable for conventional and minimum till.



5

ACRA PLANT double disk opener

The ACRA PLANT double disk opener with notched, 380-mm disks is suitable for heavy soil conditions with organic residues and minimal to no tilling. The opener is optionally available with a 100-mm wide depth control roller (50 mm standard) and with a second opener spring, which can generate up to 190 kg of opener pressure.

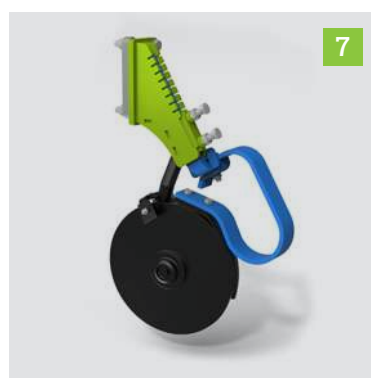


Fertilizer openers and pre-cutting disks.



Fertilizer shoe opener

The simple design of the shoe fertilizer opener is suitable for well-prepared soils with little organic matter.



MONOSEM double disk fertilizer opener

The versatile double disk fertilizer opener adapts perfectly to minimum tillage and surface plant residues. The incorporation elements have a stone safety device with spring return and adjustment of the working depth.



YETTER 2999 pre-cutting disk

The YETTER 2999 spring-loaded pre-cutting disk with 370-mm disk diameter and 25-wave disk is used for very hard and dry soil conditions. The spring preload allows the pre-cutter to avoid foreign bodies, such as stones, thus preventing damage to the frame.

Technical Data

| Openers/fertilizer openers/pre-cutting disks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|------------|------------|-------------|-----------|-----------|---|---|---|
| Application areas | | | | | | | | |
| Prepared, light soils | ● | ● | ● | ● | – | ● | ● | – |
| Medium-heavy soils, minimum tillage, mulch seeding | – | ● | ● | ● | ● | – | ● | ● |
| Direct seeding, no tillage | – | – | – | ○ | ● | – | – | ● |
| Min. row spacing in cm (in) | 9.5 (3.74) | 9.5 (3.74) | 12.5 (4.92) | 15 (5.91) | 18 (7.09) | | | |
| Max. opener pressure in kg | 25 | 25 | 45 | 100 | 190 | | | |

● suitable, ○ suitable to a limited extent, – not suitable

Fertilizer/micro-granulate distribution and bulk seed sowing (option).

In addition to normal plot planting, a variety of options are offered for fertilizer or micro-granulate distribution as well as bulk seeding. Distribution can take place either in portions via a belted cone or a cell wheel, or continuously. Filling takes place in each case via a CE-compliant platform with suitable steps and rails.

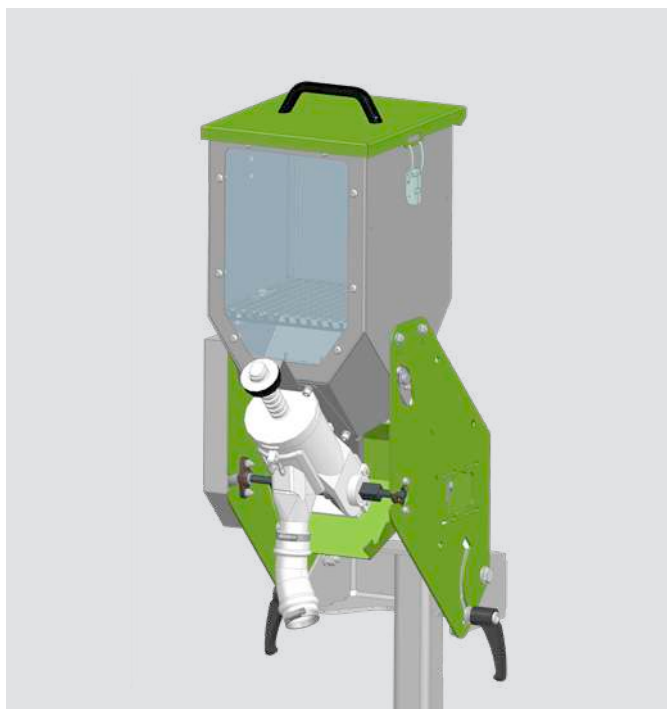
We offer the following options for continuous distribution:

Container for continuous distribution.

Metal container with view window that can be easily lowered for transport. The drive is provided by a brushless 12 V DC motor, which is controlled from the seeder control unit depending on the driving speed. The metering element conveys the feeding material into the belted cone, from which it is conveyed into the rotary distributor and distributed to the sowing rows.

Multi-purpose spreader.

Plastic box, available in two different sizes. The drive is provided by a brushless 12 V DC motor, which is controlled from the seeder control unit depending on the driving speed. If desired, it is possible to vary the application rate from plot to plot via the field plan in Easy Plant.



Continuous spreading unit with feeding of the openers via rotary distributor



Multi-purpose spreader 47 l (45 kg)



Multi-purpose spreader 22 l (20 kg)



Metering wheels in different sizes

Technical Data

| Container for continuous distribution | |
|---------------------------------------|--|
| Fill amount | 13 l (2.95 gal) |
| Suitable for | Seeds, fertilizer, micro granulate |
| Distribution system | Fertilizer opener, with seeds in furrow, deflector for distribution on top soil, border row planting |
| Design | Normal or for fine seeds |
| Metering system | Central MINIMAX metering unit from GASPARDO via belted cone/cell wheel |
| Number of rows | 2 to 16 |

| Multi-purpose spreader | |
|------------------------|--|
| Fill amount | 22 l (20 kg) or 47 l (45 kg) |
| Suitable for | Seeds, fertilizer, micro granulate |
| Distribution system | Fertilizer opener, with seeds in furrow, deflector for distribution on top soil, border row planting |
| Metering system | Metering wheels in different sizes |
| Number of rows | 1 to 4 rows can be fed per box, up to 4 boxes per group |

We reserve the right to make technical modifications.

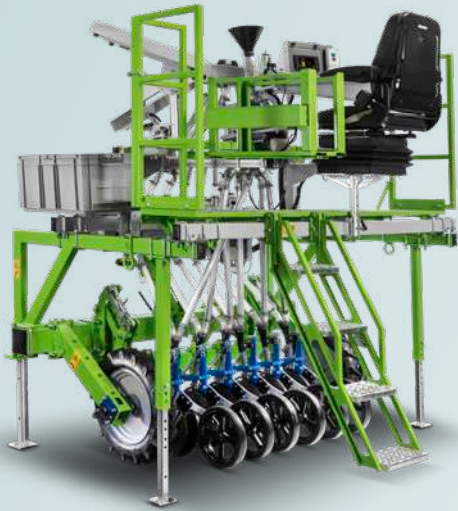


Technical Data

| | Plot Motion | Row Motion |
|------------------------------|--|---|
| Mounting option | 3-point hydraulic system on tractor Pull-type unit Parts kit for mounting on existing machines | |
| Transport width/track | From 2.2 m (7.22 ft) / stepless adjustable | |
| Number of rows | 2 – 16 rows | 2 – 6 rows |
| Tires | 5.00-15, 5.00-16, 8.50-12, 10.50-12, 7.60-15 | |
| Wheel frame | At front or rear, height-adjustable for sowing on beds | |
| Weight | From 500 kg (1,102.31 lbs) | From 550 kg (1,212.54 lbs) |
| Seed distribution | | |
| Single funnel | | Funnel per row |
| Central seed distributor | | 2 – 6 rows are fed with a central distributor |
| Chamber magazining | | Seed is distributed over 4 or 6 rows, depending on the design |
| Belted cone | 195 or 290 mm (7.68 or 11.42 in) | 120 or 195 mm (4.72 or 7.68 in) |
| Cell wheel | 264 or 401 mm (10.39 or 15.79 in) | |
| Continuous drilling device | 13 l (2.95 gal) | |
| Variants | Combination of Plot and Row Motion | |
| Plot length | 1 – 60 m (3.28 - 196.85 ft) | 0.5 – 25 m (1.64 - 82.02 ft) |
| Slope compensation | | |
| No slope compensation | Fixed frame | |
| Automatic slope compensation | Via sensors | |
| Manual slope compensation | | Via lever on central distributor |
| Control unit | | |
| Variants | eMotion or Easy Plant | |
| Opener systems | | |
| Shoe opener | PÖTTINGER | |
| Single disk opener | PÖTTINGER | |
| Double disk opener | LEMKEN, GREAT PLAINS, ACRA PLANT | |
| | Special openers on request | |
| Options | | |

Row marker, micro granulate and fertilizer distribution – also controlled depending on plot via field plan, pre-cutting disk, tine, wind and rain cover, working lights, lighting for road transport, plot marking spray

We reserve the right to make technical modifications.



Plot / Row Motion



Plot Motion



Row Motion



Plot Motion S



Plot Motion Pulltype



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