



Plot seeders Single row seeders



Intelligent machines for global challenges.

WINTERSTEIGER has established itself at the top of a niche market which will continue to gain significance in future. Agronomists and plant breeders today face the challenge of introducing new developments to make a decisive contribution towards sustainable food and energy supplies for the world.

WINTERSTEIGER supplies the technology needed to do this. Our plot seeders have been specially developed for precise sowing of trial plots and single row seeders for precise sowing of seed from a single ear and/or from single plants.

This ensures a perfect framework for the research, breeding, testing and propagation of field crops - including specialty crops - at the highest standards.

Read the following pages to discover in detail what the global market leader offers you.



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Plotseed TC Plot seeder, self propelled.

Variety of plot seeding options.

The Plotseed TC was designed as a compact self propelled machine for precise seeding of plots. The modular design along with a variety of seed distribution systems and options allow to customize the machine for many applications.



Your benefits summed up:

- Simple controls and excellent visibility for the driver and operator
- Best maneuverability thanks to compact body, optimum weight distribution and hydraulic steering brakes
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants
- Seed placement for a variety of soil conditions thanks to a selection of opener systems
- Can be used as a precision spacing planter by fitting a Monoseed quick-change frame



Basic machine for peak performance.

The Plotseed TC has a hydrostatic drive train. The specially constructed steering and hydraulic steering brakes allow you to turn on the spot.

Longitudinal seed distribution.

Belted cone.

The belted cone (diameter 195 or 290 mm) is suitable for any kind of sowing, from fine seeds, through grain, to legumes with large seeds.



Belted cone

Øyjord cell wheel distributor.

The Øyjord cell wheel distributor (diameter 265 or 400 mm) is mainly used for smaller seed sizes up to the size of grain.



Øyjord cell wheel distributor



Mounting 2 distribution systems side by side or behind/ in front of one another allows for simultaneous sowing of two plots and/or spreading of fertilizer or microgranulate. Both the belted cone and the cell wheel can be fitted with a 2- to 16-row distribution head if needed, depending on the number of rows.

The following combinations are supported:

- 2 belted cone distributors behind/in front of one another
- 2 belted cone distributors placed side by side
- 2 Øyjord cell wheel systems behind/in front of one another
- 2 Øyjord cell wheel systems placed side by side
- Øyjord cell wheel system and belted cone behind/in front of one another



Øyjord cell wheel system and belted cone placed side by side for simultaneous sowing and fertilizing



Lateral seed distribution. Rotary distributor and distributor head.

The electrically driven rotary distributor distributes the seed evenly across the rows.

Accessories: Pneumatic clean out system for rotary distributor.

For especially fine seed, such as grass, it is important to clean out the rotary distributor in the alley at the end of the plot to ensure mix-free sowing.



Rotary distributor

Continuous drilling device.

For continuous drilling of border rows or larger areas, a drilling unit is mounted laterally above the belted cone; the drilling unit supports settings to allow sowing of different volumes via the belted cone and the rotary distributor.

Slope compensation.

Slope compensation ensures even distribution of seed in the belted cone and distributor housing despite sloping ground. If you are sowing on a flat surface, you can work without slope compensation. **The following variants are available:**

Manual slope compensation.

Manual slope compensation uses two servomotors to adjust the row unit to the slope conditions of the test field at the touch of a button; a spirit level checks the settings.



Manual slope compensation

Automatic slope compensation.

The automatic slope compensation continually adjusts the distribution system to the slope conditions by means of an electronic control unit with sensors. The control range is max. 15% gradient.

Control unit.

Two control units are available for the Plotseed TC:

While the PDS-E can be regarded as a minimal version, the Global Seed Control (GSC) is the perfect solution for exacting requirements with respect to precision and control. In combination with a measuring wheel, the GSC supports sowing with field marks. Additionally, your seeder can be fitted with state-of-art GPS technology. For more details refer to page 37.



PDS-E control unit



Global Seed Control (GSC) unit

Opener systems.

WINTERSTEIGER shoe opener, row spacing as of 10 cm, deposition depth max. 4 cm,



NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth depth guide via FARMFLEX pressure wheel guide via sowing depth restrictors

The following opener systems are available for seed drilling:

Other opener systems can be implemented on request.

Replaceable frames.

The basic Plotseed TC machine supports the use of replaceable frames for the following applications:

- Precision spaced planter Monoseed TC
- Plot sprayer
- Plot fertilizer spreader



Plotseed TC with quick change frame for individually spaced planting



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller



NODET double disk opener, row spacing as of 14 cm, deposition depth max. 8 cm, depth guide via pressure roller

Accessories.

- Working lights
- Wind and rain protection cabin
- Waste bag holder
- Track marking, pneumatically actuated
- Anti-static filling funnels for grass and fine seeds
- Lifting solenoid for lifting the filling funnel
- Micro-granulate spreader
- External seed drive

Plotseed TC Figures. Data. Facts.

Technical data

Basic machine					
Engine	Kubota diesel engine: 3 cylinders, 1000 ccm, v	vater cooled 27 HP (20 kW)			
Track width	Kubota diesel engine: 3 cylinders, 1000 ccm, water cooled, 27 HP (20 kW) Adjustable to 1250 - 1850 or 1600 - 2200 mm				
Row numbers	2 - 16 rows	•			
Row spacing	From 8.5 cm depending on opener type				
Tire variants	Front	Rear			
Dimensions	7.00 - 85 / 10 6.00 - 16				
Tire width	180 mm 185 mm				
Dimensions	29 x 12.0-15 18 x 9.50-8				
Tire width	300 mm	240 mm			
Longitudinal seed spacing					
Belted cone	290 mm or 195 mm diameter				
Cell wheel	265 mm or 400 mm diameter				
Multiple seed distribution systems	The following combinations of seed distribution systems are possible: 2 belted cones placed adjacently, 2 belted cones placed longitudinally, 2 cell wheels placed longitudinally, 2 cell wheels placed adjacently, cell wheel and belted cone placed longitudinally – for simultaneous sowing and spreading of fertilizer or microgranulate				
Lateral seed distribution.					
Rotary distributor and distributor head	2 - 16 rows, pneumatic clean-out optional				
Continuous drilling device					
Drilling unit	13 I content				
Slope compensation					
Fixed attachment frame	No slope compensation				
Manual slope compensation	Via 2 pushbuttons				
Automatic slope compensation	Via sensors				
Control unit					
Variants	PDS – E or GSC				
On an avertain a					
Opener systems Shoe opener	WINTERSTEIGER or NODET				
•	ACCORD CX				
Single disk opener					
Double disk opener	NODET				
Dimensions					
Length	Approx. 4000 mm (158")				
Width	Approx. 2200 mm (87")				
Height	Approx. 1800 mm (71") with belted cone and seed depositing Approx. 2300 mm (91") with continuous drilling device				
Weight	From 1150 kg (2530 lbs), depending on features				
Options					
	equipment for fine seeds and grass, wind and i	< marking, spring tine harrow, cable trip system, spec ain protection cabin, quick change frame with plot spreader, road lights, sensors for sowing control			

We reserve the right to make technical alterations.



Plotseed S Light plot seeders, tractor mounted.

Universal and precise plot sowing.

The tractor-mounted, light Plotseed S plot seeder was developed for precise sowing of plots in agricultural field research. A variety of distribution systems make it possible to distribute the seed for a plot over multiple rows. The modular system with its many options allows you to customize the machine for many different applications.



Your benefits summed up:

- Easy and safe operations thanks to a clear-cut layout
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants
- Seed placement for a variety of soil conditions thanks to a selection of opener systems



Basic machine for peak performance.

- Easy and safe operations thanks to a clear-cut layout
- Combi frame for attaching to a tractor, or the Kubota plot tractor, 3-point hydraulics
- Basic frame with easy track width and row spacing adjustment
- Dual wheel drive system

- Plot length set via a gearbox (120 settings from 2 40 m)
- Plot and alley length control manual or via the GSC electronic control unit, using the cable trip system, or measuring wheel
- Operator seat and seed tray holder

Longitudinal seed distribution.

Belted cone.

The belted cone (diameter 195 or 290 mm) is suitable for any kind of sowing, from fine seeds, through grain, to legumes with large seeds.



Belted cone

Øyjord cell wheel distributor.

The Øyjord cell wheel distributor (diameter 265 mm) is mainly used for smaller seed sizes up to the size of small grain.



Øyjord cell wheel distributor

Lateral seed distribution.

Rotary distributor and distributor head.

The electrically driven rotary distributor distributes the seed evenly across the rows.

Accessories: Pneumatic clean out system for rotary distributor.

For especially fine seed, such as grass, it is important to clean out the rotary distributor in the alley at the end of the plot to ensure mix-free sowing.



Rotary distributor

For continuous drilling of border rows or larger areas, a drilling unit is mounted laterally above the belted cone; the drilling unit supports settings to allow sowing of different volumes via the belted cone and the rotary distributor.

Continuous drilling device.



Continuous drilling device

Slope compensation.

Slope compensation ensures even distribution of seed in the belted cone and distributor housing despite sloping ground. If you are sowing on a flat surface, you can work without slope compensation. **The following variants are available:**

Manual slope compensation.

Automatic slope compensation.

Manual slope compensation uses two servomotors to adjust the row unit to the slope conditions of the test field at the touch of a button; a spirit level checks the settings. The automatic slope compensation continually adjusts the distribution system to the slope conditions by means of an electronic control unit with sensors. The control range is max. 15% gradient.



Manual slope compensation

Control unit.

Two control units are available for the Plotseed S:

While the PDS-E can be regarded as a minimal version, the Global Seed Control (GSC) is the perfect solution for exacting requirements with respect to precision and control. In combination with a measuring wheel, the GSC supports sowing with field marks. Additionally, your seeder can be fitted with state-of-art GPS technology.

For more details refer to page 37.



PDS-E control unit



Global Seed Control (GSC) unit

Opener systems.

The following opener systems are available for seed drilling:





ISARIA shoe opener, row spacing as of 8 cm, deposition depth max. 4 cm, depth guide via pressure roller

NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth guide via sowing depth restrictors



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller

Other opener systems can be implemented on request.

Accessories.

- Anti-static filling funnels for grass and fine seeds
- Lifting solenoid for lifting the filling funnel
- Sensors for seed monitor
- Track marking, hydraulically actuated
- Cable trip system
- Spring tine harrow
- Wind and rain protection cabin



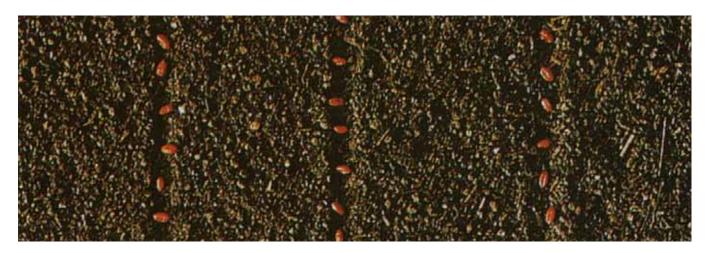
NODET double disk opener, row spacing as of 10 cm, deposition depth max. 8 cm, depth guide via pressure roller

Plotseed S Figures. Data. Facts.

Technical data

Basic machine			
Attachment options	3-point hydraulics on tractor (category I and II), Kubota plot tractor		
Track width	Adjustable to 1250 – 2250 mm (50 - 88")		
Row numbers	2 - 12 rows		
Row spacing	From 8 cm depending on opener type		
Tires	5.00 - 15 AS		
Longitudinal seed spacing			
Belted cone	290 or 195 mm diameter		
Cell wheel	265 mm diameter		
Lateral seed distribution.			
Rotary distributor and distributor head	2 - 12 rows, pneumatic clean-out optional		
Continuous drilling device			
Drilling unit	13 I content		
Slope compensation			
No slope compensation	Fixed attachment frame		
Manual slope compensation	Via 2 pushbuttons		
Automatic slope compensation	Via sensors		
Control unit			
Variants	PDS – E or GSC		
Opener systems			
Shoe opener	ISARIA or NODET		
Single disk opener	ACCORD CX		
Double disk opener	NODET		
Dimensions			
Length	Approx. 2000 mm (79")		
Width	Approx. 2000 mm (79") for 1500 mm (60")track		
Height	From 1600 mm (63")		
Weight	From 400 kg (880 lbs), depending on features		
Options			
	Antistatic filling funnel for grass and fine seeds, lifting solenoid to lift the filling funnel, sensors to monitor sowing, track marking, cable trip system, spring tine harrow, wind and rain protection cabin		

We reserve the right to make technical alterations.





Plotseed XL Heavy plot seeders, tractor mounted.

Powerful and precise plot sowing.

The tractor-mounted, heavy Plotseed XL plot seeder was developed for precise sowing of plots in agricultural field research. A variety of distribution systems make it possible to distribute the seed for a plot over multiple rows. The robust frame also allows for the use of heavy openers, combinations of multiple distribution systems, and sowing of up to 16 rows. The modular system with its many options allow you to customize the planter for many different applications.



Your benefits summed up:

- Easy and safe operations thanks to a clear-cut layout
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants
- Seed placement for a variety of soil conditions thanks to a selection of opener systems



Basic machine for peak performance.

- Easy and safe operations thanks to a clear-cut layout
- Basic frame with easy track width and row spacing adjustment
- Dual wheel drive system

- Plot length set via a 60 step gearbox (120 settings from 2 - 32 m) or via a zero max gearbox
- Plot and alley length control manual or via an electronic control unit
- Operator seat and seed tray holder

Longitudinal seed distribution. A combination of distribution systems can also be

Belted cone.

The belted cone (diameter 195 or 290 mm) is suitable for any kind of sowing, from fine seeds, through grain, to legumes with large seeds.



Belted cone

deployed.

Mounting 2 distribution systems side by side or behind/ in front of one another allows for simultaneous sowing of two plots and/or spreading of fertilizer or microgranulate. Both the belted cone and the cell wheel can be fitted with a 2- to 16-row distribution head if needed, depending on the number of rows.

The following combinations are supported:

- 2 belted cone distributors behind/in front of one another
- 2 belted cone distributors placed side by side
- 2 Øyjord cell wheel systems behind/in front of one another
- 2 Øyjord cell wheel systems placed side by side
- Øyjord cell wheel system and belted cone behind/in front of one another

Øyjord cell wheel distributor.

The Øyjord cell wheel distributor (diameter 265 or 400 mm) is mainly used for smaller seed sizes up to the size of small grain.



Øyjord cell wheel distributor



Øyjord cell wheel system and belted cone placed side by side for simultaneous sowing and fertilizing

Lateral seed distribution.

Rotary distributor and distributor head.

The electrically driven rotary distributor distributes the seed evenly across the rows. Accessories: Pneumatic clean out system for rotary distributor.

For especially fine seed, such as grass, it is important to clean out the rotary distributor in the alley at the end of the plot to ensure mix-free sowing.



Rotary distributor

Continuous drilling device.

For continuous drilling of border rows or larger areas, a drilling unit is mounted laterally above the belted cone; the drilling unit supports settings to allow sowing of different volumes via the belted cone and the rotary distributor.



Continuous drilling device

Slope compensation.

Slope compensation ensures even distribution of seed in the belted cone and distributor housing despite sloping ground. If you are sowing on a flat surface, you can work without slope compensation.

The following variants are available:

Manual slope compensation.

Automatic slope compensation.

Manual slope compensation uses two servomotors to adjust the row unit to the slope conditions of the test field

The automatic slope compensation continually adjusts the distribution system to the slope conditions by at the touch of a button; a spirit level checks the settings.

means of an electronic control unit with sensors. The control range is max. 15 % gradient.

Control unit.

Two control units are available for the Plotseed XL:

While the PDS-E can be regarded as a minimal version, the Global Seed Control (GSC) is the perfect solution for exacting requirements with respect to precision and control. If you will additionally be using the Plotseed XL as a single row seeder, you can only use the GSC control unit. In combination with a measuring wheel, the GSC supports sowing with field marks. Additionally, your seeder can be fitted with state-of-art GPS technology. For more details refer to page 37.



PDS-E control unit with manual slope compensation



Global Seed Control (GSC) unit

Opener systems.

The following opener systems are available for seed drilling:



WINTERSTEIGER shoe opener, row spacing as of 10 cm, deposition depth max. 4 cm, depth guide via FARMFLEX pressure wheel



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller



NODET double disk opener, row spacing as of 10 cm, deposition depth max. 8 cm, depth guide via pressure roller



ACRA PLANT double disk opener, row spacing as of 18 cm, deposition depth max. 8 cm, depth guide via stop, depth control roller



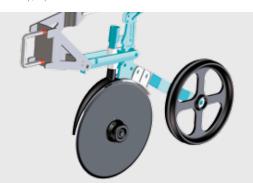
NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth guide via sowing depth restrictors



AMAZONE RoTec roller opener, row spacing as of 12.5 cm, deposition depth max. 4 cm, depth guide via stop



GREAT PLAINS double disk opener, row spacing as of 15 cm, deposition depth max. 8 cm, depth guide via stop, depth control roller



LEMKEN NODET double disk opener, row spacing as of 12.5 cm, deposition depth max. 7 cm, depth guide via support roller

Other opener systems can be implemented on request.

Accessories.

- Anti-static filling funnels for grass and fine seeds
- Lifting solenoid for lifting the filling funnel
- Sensors for seed monitor
- Seedbox for continuous sowing (see page 33)
- Microgranulate spreader (see page 33)
- Track marking

- Cable trip system
- Spring tine harrow
- Wind and rain protection cabin

Plotseed XL Figures. Data. Facts.

Technical data

Basic machine			
Attachment options	3-point hydraulics on tractor (category I + II)		
Track width	1250 – 1800 mm adjustable, or 1250 – 2600 mm adjustable, available with narrow track on request		
Row numbers	2 - 16 rows		
Row spacing	From 8.5 cm depending on opener type		
Tires	5.00 - 15 AS or 7.00 - 12 AS		
Longitudinal seed spacing			
Belted cone	290 mm or 195 mm diameter		
Cell wheel	265 mm or 400 mm diameter		
Multiple seed distribution systems	The following combinations of seed distribution system are available: 2 belted cones placed adjacently, 2 belted cones placed longitudinally, 2 cell wheels placed longitudinally, 2 cell wheels placed adjacently, cell wheel and belted cone placed longitudinally – for simultaneous sowing and spreading of fertilizer or microgranulate		
Lateral seed distribution.			
Rotary distributor and distributor head	2 - 16 rows, pneumatic clean-out optional		
Continuous drilling device			
Drilling unit	13 I content		
Slope compensation			
Fixed attachment frame	No slope compensation		
Manual slope compensation	Via 2 pushbuttons		
Automatic slope compensation	Via sensors		
Control unit			
Variants	PDS – E or GSC		
Opener systems			
Shoe opener	WINTERSTEIGER or NODET		
Single disk opener	WINTERSTEIGER, ACCORD CX, AMAZONE RoTec		
Double disk opener	NODET, GREAT PLAINS, ACRA PLANT, LEMKEN		
Dimensions			
Length	Approx. 2000 mm (79")		
Width	Approx. 2500 mm (98") (up to 1800 mm / 70" track)		
Height	From 1650 (65") mm		
Weight	From 600 kg (1300 lbs), depending on features		
Options			
	Antistatic filling funnel for grass and fine seeds, lifting solenoid to lift the filling funnel, sensors to monitor sowing, track marking, cable trip system, spring tine harrow, wind and rain protection cabin		

We reserve the right to make technical alterations.



Rowseed TC Single row seeder, self propelled.

Variable and precise single row sowing.

The Rowseed TC was specially designed for precision sowing of seeds from a single ear and/or single plants, and thus supports comparisons between ears or their progeny. A variety of distribution systems allows for mix-free distribution of the seeds of a single ear within a row. The modular system with its many options allows you to customize the machine for many different applications.



Your benefits summed up:

- Simple controls and excellent visibility for the driver and operator
- Best maneuverability thanks to compact body, optimum weight distribution and hydraulic steering brakes
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants
- Seed placement for a variety of soil conditions thanks to a selection of opener systems
- Can be used as plot seeder or precision spacing planter by fitting different quick-change frames

Basic machine for peak performance.

The Rowseed TC has a hydrostatic drive train. The specially constructed steering and hydraulic steering brakes allow you to turn on the spot.

Feeding options for single row sowing.

Manual feeding via individual feeding funnels.

Depending on the seed type and quantity, a variety of filling funnels are available.

Automatic feeding via magazine system.

Prior to planting seeds are filled into magazines. Depending on your needs there are 4, 6 and 12 cell magazines available, each cell representing 1 row. 10 magazines are loaded on to a plate. During planting the plates with the magazines are loaded on the planter without interrupting the planting process. In combination with the electronic measuring wheel the seeds are fed automatically into the belt cones. The empty magazines are discharged via a chute into a collecting container.

Seed distribution in single rows.

Belted cone.

2 to 6 small belted cones with a diameter of 120 mm are located adjacently.



Magazine system



Belted cones 6 rows ,1 belted cone per row

Opener systems.

The following opener systems are available for seed drilling:



WINTERSTEIGER shoe opener, row spacing as of 10 cm, deposition depth max. 4 cm, depth guide via FARMFLEX pressure wheel



NODET double disk opener, row spacing as of 10 cm, deposition depth max. 8 cm, depth guide via pressure roller



NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth guide via sowing depth restrictors



GREAT PLAINS double disk opener, row spacing as of 15 cm, deposition depth max. 8 cm, depth guide via stop, depth control roller



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller



ACRA PLANT double disk opener, row spacing as of 18 cm, deposition depth max. 8 cm, depth guide via stop, depth control roller

Other opener systems can be implemented on request.

Control unit.

Global Seed Control (GSC) is a perfect solution for the Rowseed TC and offers the highest efficiency and precision in planting single rows. In combination with a measuring wheel, the GSC supports sowing without field marks. Additionally, your seeder can be fitted with state-of-art GPS technology.

Replaceable frames.

The basic Plotseed TC machine supports the use of replaceable frames for the following

applications:

- Precision spaced planter Monoseed TC
- Plot seeder Plotseed TC
- Plot sprayer
- Plot fertilizer spreader

Accessories.

- Working lights
- Wind and rain protection cabin
- Waste bag holder
- Track marking, pneumatically actuated

For more details refer to page 37.

Rowseed TC Figures. Data. Facts.

Technical data

Basic machine				
Engine	Kubota diesel engine: 3 cylinders, 1000 ccm, v	water cooled, 27 HP (20 kW)		
Track width	Adjustable to 1250 - 1850 or 1600 - 2200 mr	n		
Row numbers	2 - 6 rows			
Row spacing	From 8 cm depending on opener type			
Tire variants	Front Rear			
Dimensions	7.00 - 85 / 10 6.00 - 16			
Tire width	180 mm	185 mm		
Dimensions	29 x 12.0-15	18 x 9.50-8		
Tire width	300 mm 240 mm			
Longitudinal seed distribution				
Belted cone	1 belted cone per row, diameter 120 mm			
Lateral seed distribution				
Single funnel	One filling funnel per row			
Rotary distributor and distributor head	2 - 6 rows, pneumatic clean-out optional			
Central seed distributor	Seed is distributed over multiple rows			
Magazine system	Seed is filled into a 4 or 6-row magazine and distributed fully automatically			
Control unit				
Variants	GSC			
Opener systems				
Shoe opener	WINTERSTEIGER or NODET			
Single disk opener	ACCORD CX			
Double disk opener	NODET, GREAT PLAINS			
Dimensions				
Length	Approx. 4000 mm (158")			
Width	Approx. 2200 mm (87")			
Height	Approx. 1800 mm (71")			
Weight	From 1150 kg (2530 lbs), depending on features			
Options				
	Track mark, measuring wheel, cable trip system, wind and rain protection cabin			

We reserve the right to make technical alterations.

Rowseed S Light single row seeder, tractor mounted.

Efficient and precise single row sowing.

The Rowseed S was specially designed for precision sowing of seeds from a single ear and/or single plants, and thus supports comparisons between ears or their progeny. A variety of distribution systems allows for mix-free distribution of the seeds of a single ear within a row. The modular system with its many options allows you to customize the machine for many different applications.



Your benefits summed up:

- Easy and safe operations thanks to a clear-cut layout
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants such as magazine systems, central seed distributor, or single funnel
- Seed placement for a variety of soil conditions thanks to a selection of opener systems

Basic machine for peak performance.

- Easy and safe operations thanks to a clear-cut layout
- Combi frame for attaching to a tractor, or the Kubota plot tractor, 3-point hydraulics
- Basic frame with easily adjustable track width and row spacing
- Dual wheel drive system
- Plot length set via a gearbox (1 15 m row length)
- Plot and alley length control via the GSC control unit
- Operator seat and bracket for seed container

Feeding options for single row sowing.

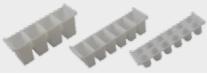
Manual feeding via individual feeding funnels.

Depending on the seed type and quantity, a variety of filling funnels are available.

Automatic feeding via magazine system.

Prior to planting seeds are filled into magazines. Depending on your needs there are 4, 6 and 12 cell magazines available, each cell representing 1 row. 10 magazines are loaded on to a plate. During planting the plates with the magazines are loaded on the planter without interrupting the planting process. In combination with the electronic measuring wheel the seeds are fed automatically into the belt cones. The empty magazines are discharged via a chute into a collecting container.





Magazine system

Seed distribution per row.

Belted cone.

2 to 6 small belted cones with a diameter of 120 or 195 mm are located adjacently (1 belted cone per row).



Belted cones

Seed distribution options for planting plots.

Rotary distributor.

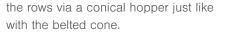
The electrically driven rotary distributor distributes the seed evenly across the rows.

Accessories: Pneumatic clean out system for rotary distributor.

For especially fine seed, such as grass, it is important to clean out the rotary distributor in the alley at the end of the plot to ensure mix-free sowing.

Central seed distributor.

In contrast to the rotary distributor, the seed is distributed evenly across





Central seed distributor

Control unit.

Global Seed Control (GSC) is a perfect solution for the Rowseed S and offers the highest efficiency and precision in planting single rows. In combination with a measuring wheel, the GSC supports sowing without field marks. Additionally, your seeder can be fitted

with state-of-art GPS technology. For more details refer to page 37.



Global Seed Control (GSC) unit

Opener systems.

The following opener systems are available for seed drilling:



ISARIA shoe opener, row spacing as of 8 cm, deposition depth max. 4 cm, depth guide via pressure roller



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller

Other opener systems can be implemented on request.

Rowseed S Figures. Data. Facts.

Technical data

Basic machine				
Attachment options	3-point hydraulics on the tractor (category I + II), Kubota plot tractor			
Track width	Adjustable to 1250 - 1500 mm			
Row numbers	2 - 6 rows			
Row spacing	From 8 cm depending on opener type			
Tires	5.00 - 15 AS			
Lateral seed distribution.				
Single funnel	One filling funnel per row			
Rotary distributor	Seed is distributed over multiple rows			
Central seed distributor	Seed is distributed over multiple rows			
Magazine system	Seed is filled into a 4 or 6-row magazine and sowed fully automatically			
Longitudinal seed spacing				
Belted cones	1 belted cone per row, diameter 120 or 195 mm			



NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth guide via sowing depth restrictors



NODET double disk opener, row spacing as of 10 cm, deposition depth max. 8 cm, depth guide via pressure roller

Control unit	
	GSC
Opener systems	
Shoe opener	ISARIA or NODET
Single disk opener	ACCORD
Double disk opener	NODET
Dimensions	
Length	Approx. 2000 mm (79")
Width	Approx. 2000 mm (79") for 1500 mm (60") track
Height	Approx. 1700 mm (67")
Weight	From 450 kg (1000 lbs) , depending on features
Options	
	Antistatic filling funnel for grass and fine seeds, sensors to monitor sowing, track mark, measuring wheel, cable trip system, spring tine harrow, wind and rain protection cabin

We reserve the right to make technical alterations.



Rowseed XL Heavy single row seeders, tractor mounted.

Variable and precise single row sowing.

The Rowseed XL was specially designed for precision sowing of seeds from a single ear and/or single plants, and thus supports comparisons between ears or their progeny. The robust frame also allows for the use of heavy openers, and combinations of multiple distribution systems. The modular system with its many options allow you to customize the planter for many different applications.



Your benefits summed up:

- Easy and safe operations thanks to a clear-cut layout
- Easy track width and row spacing adjustment
- Wide application scope thanks to a variety of feeding variants such as magazine systems, central seed distributor or single funnel
- Seed placement for a variety of soil conditions thanks to a selection of opener systems

Basic machine for peak performance.

- Easy and safe operations thanks to a clear-cut layout
- Basic frame with easy track width and row spacing adjustment
- Dual wheel drive system

- Slope compensation for the distribution system
- Manual plot and alley length control via the GSC control unit
- Operator seat and seed tray holder

Feeding options for single row sowing.

Manual feeding via individual feeding funnels.

Depending on the seed type and quantity, a variety of filling funnels are available.



Magazine system

Automatic feeding via magazine system.

Prior to planting seeds are filled into magazines. Depending on your needs there are 4, 6 and 12 cell magazines available, each cell representing 1 row. 10 magazines are loaded on to a plate. During planting the plates with the magazines are loaded on the planter without interrupting the planting process. In combination with the electronic measuring wheel the seeds are fed automatically into the belt cones. The empty magazines are discharged via a chute into a collecting container.

Seed distribution per row.

Belted cone.

2 to 7 small belted cones with a diameter of 120 or 195 mm are located adjacently (1 belted cone per row).



Belted cones

Seed distribution options for planting plots.

Rotary distributor.

The electrically driven rotary distributor distributes the seed evenly across the rows.



Central seed distributor

Central seed distributor.

In contrast to the rotary distributor, the seed is distributed evenly across the rows via a conical hopper just like with the belted cone.

Seed box for continuous sowing.

For continuous drilling of border rows or larger areas, a seed box is mounted to allow sowing of different volumes of seed. Different size drill shafts are available for fine seeds, small grain, rice and soybeans.

Microgranulate spreader.

Standard granulate boxes are available for the use of fertilizer. The spread rate is set via the apertures on the boxes. Three different container sizes are available: 9, 15 and 20 kg (20, 30 and 40 lbs) with up to four outlets per box.





Microgranulate spreade



Global Seed Control (GSC) unit

Control unit.

Global Seed Control (GSC) is a perfect solution for the Rowseed XL and offers the highest efficiency and precision in planting single rows. In combination with a measuring wheel, the GSC supports sowing without field marks. Additionally, your seeder can be fitted with state-of-art GPS technology. For more details refer to page 37.

Opener systems.

The following opener systems are available for seed drilling:



WINTERSTEIGER shoe opener, row spacing as of 10 cm, deposition depth max. 4 cm, depth guide via FARMFLEX pressure wheel



NODET shoe opener, row spacing as of 8.5 cm, deposition depth max. 4 cm, depth guide via sowing depth restrictors



ACCORD CX single disk opener, row spacing as of 9.5 cm, deposition depth max. 5 cm, depth guide via pressure roller



NODET double disk opener, row spacing as of 10 cm, deposition depth max. 8 cm, depth guide via pressure roller





depth control roller

GREAT PLAINS double disk opener, row spacing as of ACRA PLANT double disk opener, row spacing as of 18 cm, 15 cm, deposition depth max. 8 cm, depth guide via stop, deposition depth max. 8 cm, depth guide via stop, depth control roller

Accessories.

- Anti-static filling funnels for grass and fine seeds
- Sensors for seed monitor
- Track mark
- Track loosener
- Measuring wheel

- Cable trip system
- Spring tine harrow
- Wind and rain protection cabin

Rowseed XL Figures. Data. Facts.

Technical data

Basic machine				
Attachment options	3-point hydraulics on tractor (category I and II), Kubota plot tractor			
Track width	Adjustable to 1250 - 1800 mm, or adjustable to 1250 - 2600 mm, available with narrow track on request			
Row numbers	2 - 6 rows			
Row spacing	From 8 cm depending on opener type			
Tires	5.00 - 15 AS or 7.00 - 12 AS			
Seed feeding				
Single funnel	One filling funnel per row			
Rotary distributor	Seed is distributed over multiple rows			
Central seed distributor	Seed is distributed over multiple rows			
Magazine system	Seed is filled into a 4 or 6-row magazine and sowed fully automatically			
Longitudinal seed spacing				
Belted cones	1 belted cone per row, diameter 120 or 195 mm			
Control unit				
	GSC			
Opener systems				
Shoe opener	ISARIA or NODET			
Single disk opener	ACCORD			
Double disk opener	NODET, GREAT PLAINS, ACRA PLANT			
Dimensions				
Length	Approx. 2000 mm (79")			
Width	Approx. 2500 mm (99")(up to 1800 mm / 70" track)			
Height	Approx. 2000 mm (79")			
Weight	From 600 kg (1300 lbs), depending on features			
Options				
	Antistatic filling funnel for grass and fine seeds, sensors to monitor sowing, track marking, track loosener, measuring wheel, cable trip system, spring tine harrow, wind and rain protection cabin			

We reserve the right to make technical alterations.



Rowseed 1 R Single row seeders, hand-pushed type.

Simple, precise single row sowing.

The small, hand-pushed Rowseed 1R single row seeder supports sowing of a quantity of seed over configurable row lengths. The seed volume is distributed evenly across the set row by means of a belted cone or cell wheel.

Technical data

Seed size	From grass and vegetable seeds up to large beans			
Row lengths	Infinitely adjustable up to 20 cm			
Seed distribution system				
Belted cone	120 or 195 mm diameter			
Cell wheel	24 cells			
Dimensions				
Length	1800 mm (71")			
Width	600 mm (24")			
Height	1000 mm (39")			
Weight	Approx. 40 kg (90 lbs)			
Options				
Drive	Four stroke gas engine (3.5 HP)			

Your benefits summed up:

- Suitable for all kinds of seeds from grass and vegetable seeds, through grain, to large beans
- Infinitely adjustable row length setting via Zero-Max gear
- Manual slope compensation for sowing on slopes

We reserve the right to make technical alterations.

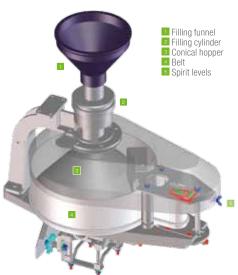
Components for precise seed distribution.

Belted cone.

The belted cone (diameter 120, 195 and 290 mm) guarantees ideal seed distribution in the plot. This makes it suitable for any kind of seed from fine seeds, through grain, to legumes with large seeds. At the same time, it is independent of the sowing volume - you can fill larger quantities of seed. The belted cone is virtually maintenance free and belt tensioning is automated.

Belted cone working principle:

The seed passes through the filling funnel into the filling tube. When the funnel lifts, the seeds are uniformly distributed by the conical hopper onto the belt. The belted cone rotates exactly once while travelling over the plot; as it does so, the seed continually drops into the rotary distributor. A plexiglass cover assures precise results even in windy conditions.



Øyjord cell wheel distributor.

The Øyjord cell wheel distributor comes in 2 sizes (265 and 400 mm)

and offers good seed distribution for fine seeds up to small grain.



Øyjord cell wheel distributor

Rotary distributor and distributor head.

The electrically driven rotary distributor distributes the seed evenly across the rows. Depending on the crop type, a distribution plate with or without a web is used. Various feed cartridges are available to ensure optimum distribution. The precision, one-piece distributor head prevents mixing and also guarantees best distribution precision. Large outlet diameters prevent blocking for both large grains and large volumes.



16-row rotary distributor

Central seed distributor.

In contrast to the rotary distributor, the seed is distributed evenly across the rows via a conical hopper just like with the belted cone. For this reason, the system integrates slope compensation which is performed manually. The filling funnel is actuated manually, pneumatically or electrically.



Central seed distributor

Seeder control units.

Two control units are available for the WINTERSTEIGER plot seeders or single row seeders:

While the PDS-E can be regarded as a minimal version, the Global Seed Control (GSC) is the perfect solution for exacting requirements with respect to precision and control.

PDS-E control unit.

- ON/OFF for electrical power supply to seeder
- Actuates the seed distribution system
- Funnel stroke time adjustment
- Horn button for audible signal by operator
- Function monitoring (horn signal in case of malfunction)

Global Seed Control (GSC) control unit.

The GSC combines features that guarantee best distribution accuracy and precision.

The control unit is characterized by the following features:

Terminal:

- Easy controls via function keys
- Clear, high-contrast display

Setting options:

- User menu language setting
- Easy setting of different plot parameters, such as the plot length, cycle length, selected speed, start length, drive mode, and number of plots per trip
- Distribution system adjustment: selection of distribution system (e.g. belted cone, magazine, etc.) and setting of filling times (e.g. funnel stroke time, seed drop time)

Display:

- Displays the drive train settings required for the selected plot parameters
- Monitoring of all critical functions and malfunction cause display.
 In plot drilling, this means power monitoring of the rotary distributor so that feeding or the funnel stroke is blocked in case of a malfunction.
 In case of single row seeding, the magazine feed drives are monitored, and a warning is issued for empty magazines



PDS-E control unit



Global Seed Control (GSC) unit

	QUICK DRILL			
start	plot length fill mode ranges dee	582. funne		quick set
calib- ration	max. deep driving trip mode	2,50 km/l Serpentin Manue	e	plot prog.
select menu	checkhead start length	off 49 cm		machine param
13:04:45				22.04.08

	MACHINE PARAMETER	
trip mod		el sensor
filename alarm tin	ne on error	1.0 s
		0.5 s 0.5 s
	p down time	0.5 s

Travel measuring system via measuring wheel.

The measuring wheel greatly facilitates sowing since there is no need for field markers; at the same time, it improves efficiency and precision. The GSC provides the following functions in combination with the measuring wheel: The sowing cycle is triggered by a signal from the measuring wheel

A warning signal occurs in case of excessive speed



The control units can be used as follows:

Setting the plot parameters

Name	PDS-E	GSC
Plotseed TC	YES	YES
Plotseed S	YES	YES
Plotseed XL	YES	YES
Rowseed TC	NO	YES
Rowseed S	NO	YES
Rowseed XL	NO	YES

Measuring wheel

GPS Technology Use of satellite navigation in field trials.

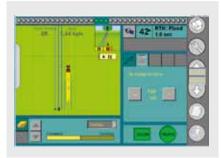
WINTERSTEIGER gives you the option of fitting state-of-art GPS technology to any seeder. WINTERSTEIGER cooperates with experienced partners in this area. Together, we have developed a system that is simple to use and supports your field work in a reliable way.

Your benefits summed up:

- Simple use of GPS technology
- Maximum sowing precision for extremely reliable results
- Complicated field marks are no longer needed
- If needed, the funnel on the row unit can be triggered automatically
- Faster sowing speeds than with legacy technology
- Automatic steering system available for maximum tractor accuracy
- Comprehensive documentation available after sowing
- Available for all seeders



Safe and simple sowing with GPS technology



Perfect visibility during and after the task at hand



Fitting the control display to the tractor



RTK station for maximum precision sowing

Kubota Small tractor for plot seeders.

Powerful, versatile tractor.

The Kubota plot tractor is a small tractor that has been specially adapted for the Plotseed S, Rowseed S and Monoseed B/DT/K machines. It has its own attachment frame, sowing drive, and hydraulic sowing PTO to suit it perfectly to your choice of planter. An automatic steering system is available as an option.

Your benefits summed up:

- Variety of front and rear mounted applications
- Easy to transport thanks to low deadweight
- Highly maneuverable thanks to compact design



Technical data

Model	L4240 DT	L5240 HST
Motor performance (SAE)	Quiet diesel 44 HP	Quiet diesel 54 HP
Capacity	2197 ccm	2434 ccm
Cooling	Water-cooled	Water-cooled
Drive	16 forwards + reverse gears	Hydrostatic infinite
Driving speed	0 - 30 km/h	0 - 30 km/h
РТО	Rear PTO 540/750 rpm	Rear PTO 540 rpm
Hydraulics	Rear: Category II, 1750 kg lifting force Front: Optional	Rear: Category II, 1750 kg lifting force Front: Optional
Cockpit	Comfortable seat with roll-over bar or comfortable cabin	Comfortable seat with comfortable cabin
Track width, front	1145 mm	1135 mm
Track width, rear	1140 – 1410 mm	1125 – 1325 mm
Ground clearance	390 mm	405 mm
Wheel base	1895 mm	1915 mm
Dimensions		
Length	3170 mm	3245 mm
Width	1485 mm	1470 mm
Height incl. roll-over bar	2450 mm	2550 mm
Height incl. comfortable cabin	2265 mm	2375 mm
Weight incl. roll-over bar	Approx. 1560 kg	-
Weight incl. comfortable cabin	Approx. 1700 kg	Approx. 1920 kg

We reserve the right to make technical alterations.

WINTERSTEIGER After Sales Service. The delivery is just the start of our service.

The best time to evaluate the quality of an investment is several years after delivery. That is why WINTERSTEIGER has set up a worldwide After Sales Service.

Commissioning and training

WINTERSTEIGER ensures both with its experts worldwide and of course on site.

Proactive maintenance

Maintenance and preventive exchange of pre-defined parts subject to wear and tear at pre-set times eliminate problems before they arise. For example, during our customers' annual holiday to keep maintenance costs as low as possible.

On-Call-Help-Desk

This service underlines our high claims for service for our partners worldwide. It ensures first class support even outside our own hours of business.

Strong customer service team

A large team of extremely well trained service staff provides comprehensive care for:

- Installation and commissioning
- Training
- Preventive maintenance
- Conversions
- Modifications
- Clearing faults
- Repairs
- Support
- Rapid supply of replacement parts

Advice services

- Advice from experts on technical equipment for research facilities
- Participation at international seed breeding symposia
- Arranging contacts with experts
- Advice from agricultural consultants in the definition and implementation of projects and technology transfer



Intensive guidance and training courses

WINTERSTEIGER regularly holds guidance and training courses for servicing staff, either directly on site, in our original building in Austria or one of our agencies around the world. They are the basis for perfect mastery of the machines and an uninterrupted harvest. This helps avoid down time and saves costs. Both WINTERSTEIGER service engineers and the service engineers from our agencies receive ongoing training and product information about new developments.

Those who sow also harvest with WINTERSTEIGER.

WINTERSTEIGER has positioned itself at the peak of a niche, which will become more critical in the future. Today, agricultural field research is challenged with providing significant contributions for a lasting food and energy supply to the world through new developments. WINTERSTEIGER provides the necessary technology.

Uniquely designed products offer a range, which covers the entire cycle of field research from the sowing to the harvesting:

Sowing

Precision spaced planters, plot drills, single row planters and plot tractors for the front and rear planting with seed machines

Fertilization and plant protection

Fertilizer distributors, field sprayer and hand-pushed plot sprayer

Data collection

Field PC's for mobile data acquisition

Harvesting

Plot combines, stationary combines and forage harvester

Laboratory analysis

Laboratory thresher, laboratory corn sheller, seed dresser, sample chopper and sample divider



Plot combine Split



Plot combine Delta

As complete provider in agricultural testing, WINTERSTEIGER proves itself as strong partner for customers in various fields:

- Agricultural Universities and research centres
- Agricultural ministries and their departments for plant breeding
- National and international institutes for development projects



Plot drill Plotseed S



Laboratory thresher LD 350

- National and international companies that research in the field of plant breeding
- Service companies that test for research companies

Precious seed deserves a careful harvest.



WINTERSTEIGER. A Global Player. Worldwide.

WINTERSTEIGER is the world market leader in its three divisions SPORTS, SEEDMECH and WOODTECH. Our success is based on customer proximity which we enjoy due to a globally-structured, tightly-knit sales and service network and sophisticated and future-oriented planning. In this we are guided by the following principles:

According to the "Progress Principle" we are consistently extending our lead with targeted investments in research and development.

By the "Quality and Productivity Principle" we mean both computerassisted planning and design, which result directly in fully automated production processes, as well as strict quality assurance management, which ensures continuous control from design to after-sales service. We meet the "Qualification Principle" with optimally trained employees. Continuous professional development is an essential part of our strategy.

On one hand we see the "Sustainability Principle" as our permanent contribution to long-term success, while on the other it represents a clear commitment to conserving natural resources.

The result:

- 15 subsidiarie
- 60 representatives worldwide
- Sales distribution in 130 countries
- 85 % export share
- World market leader in all three divisions

Division SPORTS

Total solutions for rental and servicing of skis and snowboards.



Worldwide No. 1 in field research equipment.



Division WOODTECH

Process solutions for quality thin-cutting.





Headquarters located in Ried im Innkreis, Upper Austria

Success begins with the right decisions. At the right time. We look forward to you!





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