

PÖTTINGER AEROSEM

Pneumatic seed drills



Find out more online!



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AEROSEM

Pneumatic implement-mounted seed drills

Yield at harvest is influenced by precision seed placement. Uniform seed placement is inseparable from the aim of reducing the seed flow rate. The costs that can be saved on the distribution of often very expensive quality seed using improved drill systems has an enormous financial impact. The AEROSEM pneumatic seed drill series is tuned to requirements in the field and makes a considerable contribution to cost effective operation.

AEROSEM seed drills can be fitted quickly and easily to tillage machinery. "A" Frame mounting with quick-release couplings on both sides provides a secure mounting.

AEROSEM	3000	4000	6000
Working width	9.84' / 3.0 m	13.12' / 4.0 m	19.70' / 6.0 m
Transport width	9.84' / 3.0 m	13.12' / 4.0 m	19.70' / 6.0 m
Rows	24	32	40
Seed hopper	308 gal / 1400 l	308 gal / 1400 l	308 gal / 1400 l

All data for information only, features may vary from country to country.



AEROSEM F

Pneumatic seed drills with front seed hopper

On pneumatic seed drills with wide working widths rear-mounted machines often exceed the rear axle load limits of the tractor. Steering becomes very difficult as a result.

The split type AEROSEM F is designed for use with the seed hopper, blower and metering system mounted in front of the tractor. Only the distributor heads and the seed couler system are located directly on the rear roller of the power harrow. The considerable advantages offered by this system are the improved weight distribution and lower power requirement.

The operator has a better overview of the seed drill components than with rear-mounted seed drills.

AEROSEM F – the professional machine for drilling large areas.

AEROSEM F	5000 F	6000 F
Working width	16.40' / 5.0 m	19.70' / 6.0 m
Transport width	8.86' / 2.70 m	8.86' / 2.70 m
Rows	40	48
Seed hopper	352 (506) gal / 1600 (2300) l	352 (506) gal / 1600 (2300) l

All data for information only, features may vary from country to country.

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Mounting – a reliable connection

- AROSEM seed drills can be fitted quickly and easily to tillage machinery. “A” Frame mounting with quick-release couplings on both sides provides a secure mounting.
- The drill machine is parked on supports at each side.



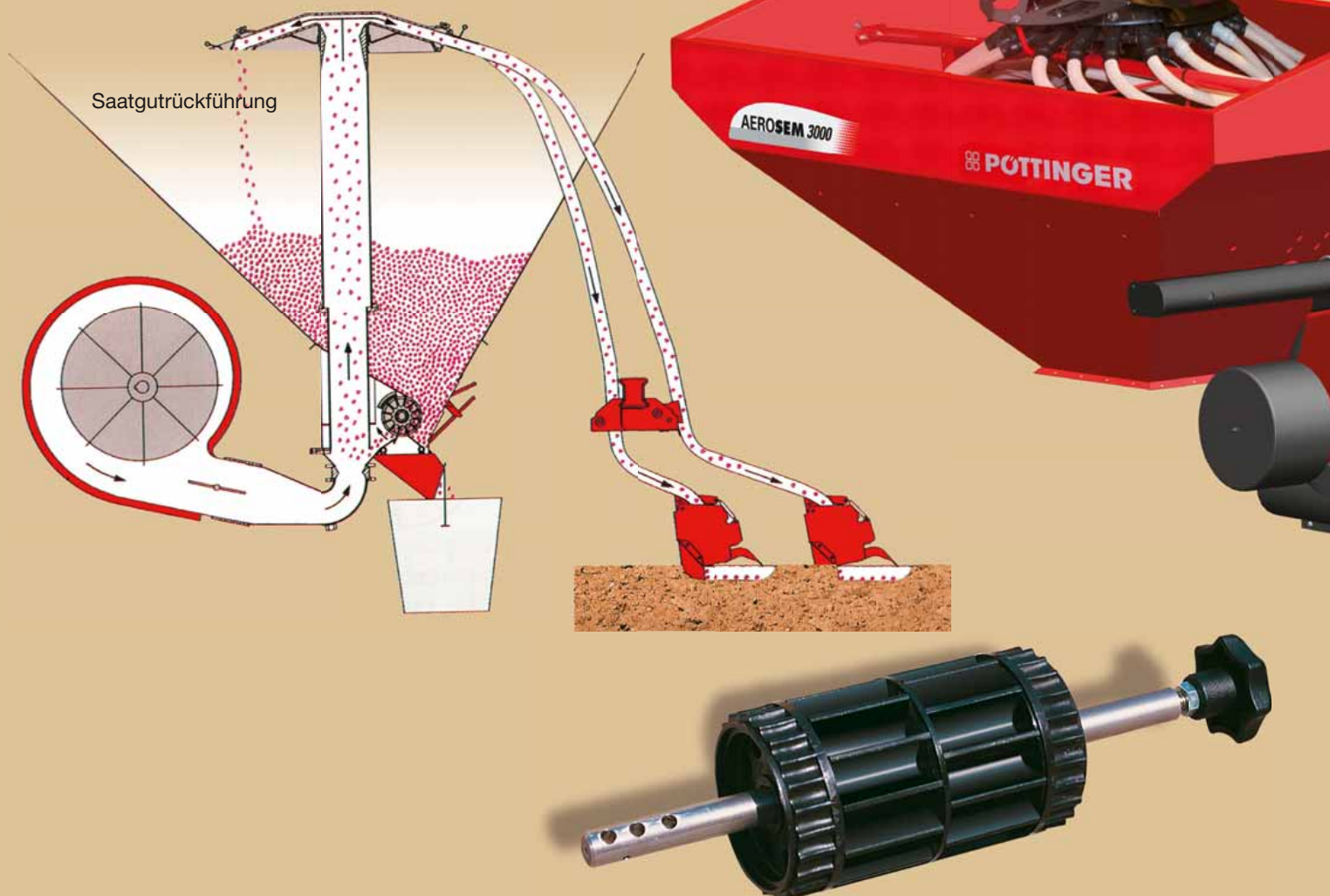


Versatile seed hopper filling systems

- The seed hopper is positioned so that the bulk of its weight is very close to the tractor. Less weight is taken off the front axle of the tractor and manoeuvrability is improved.
- This large dust and water-tight seed hopper is fitted with a hinged metal cover. The front cover element can be opened for inspection purposes.
- The hopper is easy to fill thanks to its low top edge and large opening. Also suitable for filling using BigBags and augers. A loading platform is supplied on option for comfortable filling.
- The seed hopper is fitted with an agitator to aid seed transport. No tools are needed to remove the agitator elements if they are not required for specific types of seed. The agitator fingers simply pull off.



AEROSEM



The AEROSEM sowing system – the key to quality

High seed prices ask for systems that operate as cost-effectively as possible. The necessary seed volume has to be distributed accurately, from 0.8 to 210 lbs/acre / 0.9 kg to 350 kg per hectare. Exact seed placement is the key to financial success with guaranteed yield and increased quality.

- The sowing system consists of a large metering wheel with 2 x 12 staggered cells. Two metering wheels with 24 fine metering cells are located on each side.
- The drive shaft of the metering wheel can be shifted quickly and easily. The rough or fine metering wheels are thus switched on and off by shifting the drive shaft.
- The cells draw a constant flow of seed from the seed hopper and feeds it into the centre of the rising air stream. The large, low-noise blower is driven by belts or by a hydraulic motor.
- Zentral unter dem Dosierrad befindet sich eine Auslassöffnung. Durch Betätigen eines Schibers fließt das Saatgut durch den Auslauf ab.
- The distributor head has up to 40 outlets – a row spacing of 4.92" / 125 mm is possible for AEROSEM 3000 and 4000, 5.9" / 150 mm on AEROSEM 6000.
- The AEROSEM F models have two distributors.



Careful seed transport

- The seed wheels feed the seed into the centre of the rising air stream. This ensures that the seed cannot contact the side walls of the riser tube. The germination potential of the seed is maintained.
- The high air volume and low air speed protect the seed against damage and loss of dressing.

Hydraulic blower drive (option on AEROSEM, standard on AEROSEM F)

- The hydraulic drive improves operating comfort and increases the controllability of the blower. With load sensing (option) only the necessary oil flowrate is used.
- Dust protection system is standard.





AEROSEM

Coulter rails – best material quality

Regardless of whether you are operating on light soil, heavy soil, dry soil or damp soil – the best possible placement of the seed is the key to a successful harvest. Different shapes of coulters with a gang spacing of 14' / 350 mm prevent clogging even when operating in harvest trash.

- The coulters consist of a twist-resistant profile tube. The space between the front and rear coulters is 13.78" / 350 mm. This makes sure that even large quantities of harvest trash cannot become entangled.
- The standard Suffolk coulters are suitable for most soil conditions.
- Corrugated disc coulters are best for mulch drilling or situations with a lot of organic matter. The Pöttinger disc coulters run diagonally to open the drill push brittle straw trash or decomposing residues to the side. Uniform seed distribution is achieved in combination with a Suffolk-style seed metering system. Rotating scrapers prevent earth from sticking to the disc.
- Pressure rollers can be provided to compact the soil and serve as a depth guide.
- The Pöttinger constant pressure system – reliable germination can only be achieved if the seed is placed at a consistent depth. The coulters follow the contours of the soil up and down with precision. Consistent coulters pressure is achieved even around obstructions.
- Standard tines – twin row version with trailed tines.
- Perfect tines – designed to achieve an intensive levelling effect.
- Track eradicators – hydraulic operation improves operating comfort at headlands and working around poles and obstructions. The reinforced track eradicators are secured using shear bolts. The track eradicators have a diameter of 15.74" / 400 mm and can operate trouble-free on heavy soil.



AEROSEM – stepless gears

- A jolt-free transmission submerged in oil drives the three-section seed wheel. The seed wheel feeds the seed into the air stream. The gear unit ensures uniform distribution is achieved, even with the metering shaft running at lower speed.
- The land wheel runs within the width of the machine. This achieves a uniform drive characteristic. The 29.5" / 750 mm diameter wheel has a large area of contact with the ground and minimises slippage. A hydraulic land wheel lifting system is available as an option.

Suffolk coulter – a spring-loaded protective flap covers the coulter if the machine moves backwards, opening again automatically.



AEROSEM F



Hopper filling options

On pneumatic seed drills with wide working widths rear-mounted machines often exceed the axle load limits of the tractor. Steering becomes very difficult as a result. With the front tank version the hopper acts as ballast on the front axle. Reduced pressure on the ground and safe travel across slopes speak for the AEROSEM F from Pöttinger.

- The front-mounted hopper can be filled using an auger, BigBags or a tipper. There is a considerable advantage using a tipper. The top edge height of the hopper is just 4.20' / 1280 mm.
- This large dust and water-tight seed hopper is fitted with a hinged metal cover.
- The seed hopper is fitted with an agitator to aid seed transport. No tools are needed to remove the agitator elements if they are not required for specific types of seed. The agitator fingers simply pull off.





The AEROSEM metering system is designed for precise seed distribution.

Exact seed flow-rates regardless of the type of seed or the working conditions.

- An opening is located underneath the seed wheels. Moving a lever causes the seed to empty out through the funnel.
- A hydraulic blower drive system is standard. The blower is dimensioned so that a reliable seed flow rate is maintained even if the PTO speed drops.

The metering system

- The seed wheel is electronically driven and controlled from the tractor via a radar sensor or an ISOBUS signal.
- Pulses transmitted are processed by the on-board computer and sent to an infinitely-variable oil motor. The exact seed flow rate can be controlled from the driver's seat.
- Metering control direct from the tractor terminal
- Priming prevents bare patches
- Seed wheel stops at headlands to save seed
- Infinitely-variable adjustment of seed flow rate



AEROSEM F



Foldable seed drill

- Mounting is extremely straightforward thanks to a quick-release coupling system. The seed drill can be mounted on folding tillage machines.
- The coulters consist of a twist-resistant profile tube. The space between the front and rear coulters is 13.78" / 350 mm. This makes sure that even large quantities of harvest trash cannot become entangled.
- The coulters can be folded up and locked hydraulically for road transport.



- The standard Suffolk coulters are suitable for most soil conditions.
- Corrugated disc coulters are best for mulch drilling or situations with a lot of organic matter. The Pöttinger disc coulters run diagonally to open the drill push brittle straw trash or decomposing residues to the side. Uniform seed distribution is achieved in combination with a Suffolk-style seed metering system. Rotating scrapers prevent earth from sticking to the disc.
- Pressure rollers can be provided to compact the soil and serve as a depth guide.



- The AROSEM F has two metering units, each with one rough and two fine seed wheels.
- Two distributors on the coulter rails distribute the seed with precision right across the whole working width.
- A servo motor shuts off the tramlines electronically. Valves on the distributor shut off up to 3 seed rows for each tramline. The excess seed is returned to the riser tube and the seed flow rate is reduced accordingly.
- Achieving seed savings of up to 6%.



AEROSEM

Multitronic on-board computer control system for AEROSEM



AEROSEM

AEROSEM 3000

AEROSEM 4000

AEROSEM 6000

AEROSEM F 5000

AEROSEM F 6000

AEROSEM F

ISOBUS control for AEROSEM F



AEROSEM

AEROSEM

AEROSEM F

AEROSEM

AEROSEM

AEROSEM F

Ultimate operator convenience

Changing between differing operating conditions places great demands on the technology. The AEROSEM seed drill operation concept enables the machine to be set up and adjusted with ease. The Multitronic on-board computer is designed for comfortable operation and supervision.

AEROSEM Multitronic on-board computer control system

This easy-to-use electronic control unit makes it easier to operate the machine and guarantees consistent supervision.

- Hectare counter and job counter.
- Speed indicator
- Tramline computer
- Calibration assistance

Optional: supervision of blower speed, seed hopper empty signal and seed wheel speed control.

Calibration













Hang a container underneath the seed metering wheel. Open the port. Enter the desired speed in the Multitronic computer. Carry out calibration procedure using crank handle. The computer signals the end of the calibration process.

Technical Data

Working width ft / m	Transport width ft / m	Rows	Row spacing in / mm	Seed hopper gal / l	Disc coulters diameter in / mm	Coulter spacing in / mm	Weight lbs / kg
9.84 / 3.0	9.84 / 3.0	24	4.92 / 125	308 / 1400	11.81 / 300	13.78 / 350	1500 / 680
13.12 / 4.0	13.12 / 4.0	32	4.92 / 125	308 / 1400	11.81 / 300	13.78 / 350	1610 / 730
19.70 / 6.0	19.70 / 6.0	40	4.92 / 125	308 / 1400	11.81 / 300	13.78 / 350	1985 / 900
16.40 / 5.0	8.86 / 2.70	40	4.92 / 125	352 / 1600	11.81 / 300	13.78 / 350	2490+990 / 1130+450
19.70 / 6.0	8.86 / 2.70	48	4.92 / 125	352 / 1600	11.81 / 300	13.78 / 350	2620+990 / 1130+450

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Equipment options

Multitronic	Electrical tramline system	Standard harrow Perfekt harrow	Press rollers	Track marker discs	Tramline markers
Option	Option	Option	Option	Option	Option
–	Standard	Option	Option	Option	Option
					
Hydraulic coulters pressure adjustment	Hydraulic land wheel lift	Hydraulic coulters bar raising	Hydraulic / Electronic seedrate adjustment	Solo chassis	Lighting Warning signs
Option	Option	Option	Option	Option	3000 Option
Standard	–	–	–	–	Standard
					

Further optional equipment AEROSEM:

Power Control, Calibration flap and seed level control, Metering wheel control, Electric blower supervision, Seed hopper 220 gal / 1000 l (less price), Tine protection for perfect harrow, Hydraulic or Electronic seed rate adjustment, Hectare counter mechanic, Hydraulic fan drive, Load-sensing fan drive.

Further optional equipment AEROSEM F:

ISOBUS control, Radar sensor, Load-sensing fan drive, Working headlight, 152 gal / 700 l seed hopper extension, Mounting kit with tubes, Mounting kit for foldable power harrow.



Supreme service

You can rely on us.

Wherever they are in the world, our customers can rely on a fully developed network of sales and service partners. This close proximity to the customer guarantees fast delivery of spare parts and also ensures professional machine setup and handover by qualified specialists. We are on hand wherever you happen to be.

Our range of professional services:

- Original Inside parts. 24-hour ordering service online.
- Long-term stock of spare parts.
- Expertise through regular training – For professional personnel.
- and much more...

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