

Pöttinger AEROSEM

Pneumatic seed drills



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PÖTTINGER



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

AEROSEM

Pneumatic implement-mounted seed drills

AEROSEM seed drills can be fitted quickly and easily to harrows and cultivators. "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 front/rear type AEROSEM F is designed for use with the seed hopper, fan and metering system mounted in front of the tractor. Only the distributor heads and the seed coulters 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
Coulters	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.

AEROSEM



Mounting – a reliable connection

- AEROSEM seed drills can be fitted quickly and easily to harrows and cultivators. "A" Frame mounting with quick-release couplings on both sides provides a secure mounting.
- The drill machine is parked on supports on both sides.



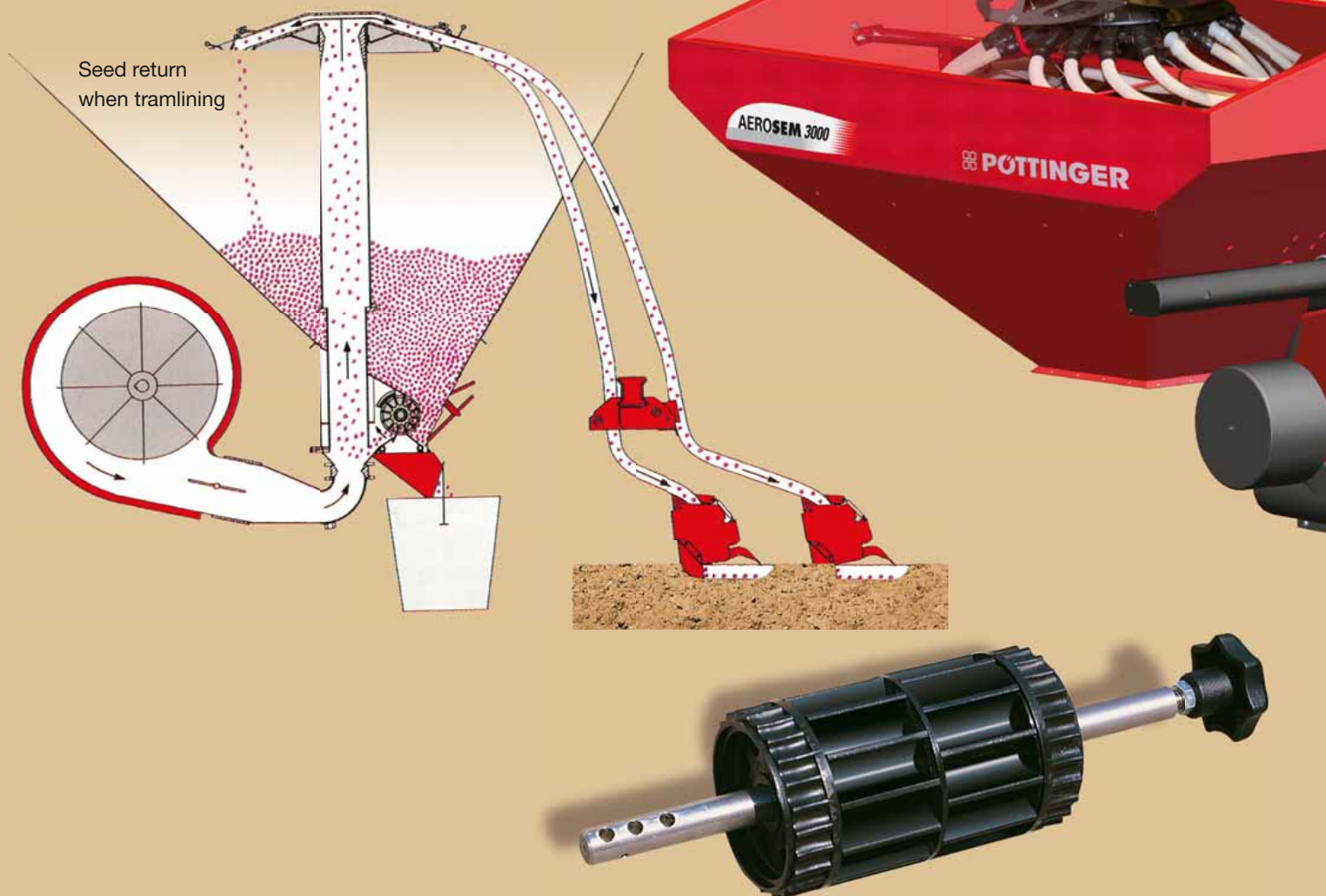


Versatile seed hopper filling systems

- 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 as an option for comfortable filling.
- The seed hopper is fitted with an agitator to aid seed flow. No tools are needed to remove the agitator fingers if they are not required for specific types of seed. The agitator fingers simply pull out.



AEROSEM



High seed prices demand 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 improved quality.

The AEROSEM sowing system – the key to 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 large or smaller metering wheels are thus switched on and off by moving 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 fan is driven by belts or by a hydraulic motor.
- To empty the hopper an opening is located under the seed metering wheel. By moving a lever the seed can be discharged directly out of the hopper.
- 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 are equipped with 2 distributor heads.



Careful seed transport

- The metering wheel feeds 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 fan drive (option on AEROSEM, standard on AEROSEM F)

- The hydraulic fan drive improves operating comfort and increases the controllability of the fan. Load sensing is available as an option. Only using the oil flow as required.
- Dust protection system is standard.





AEROS

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

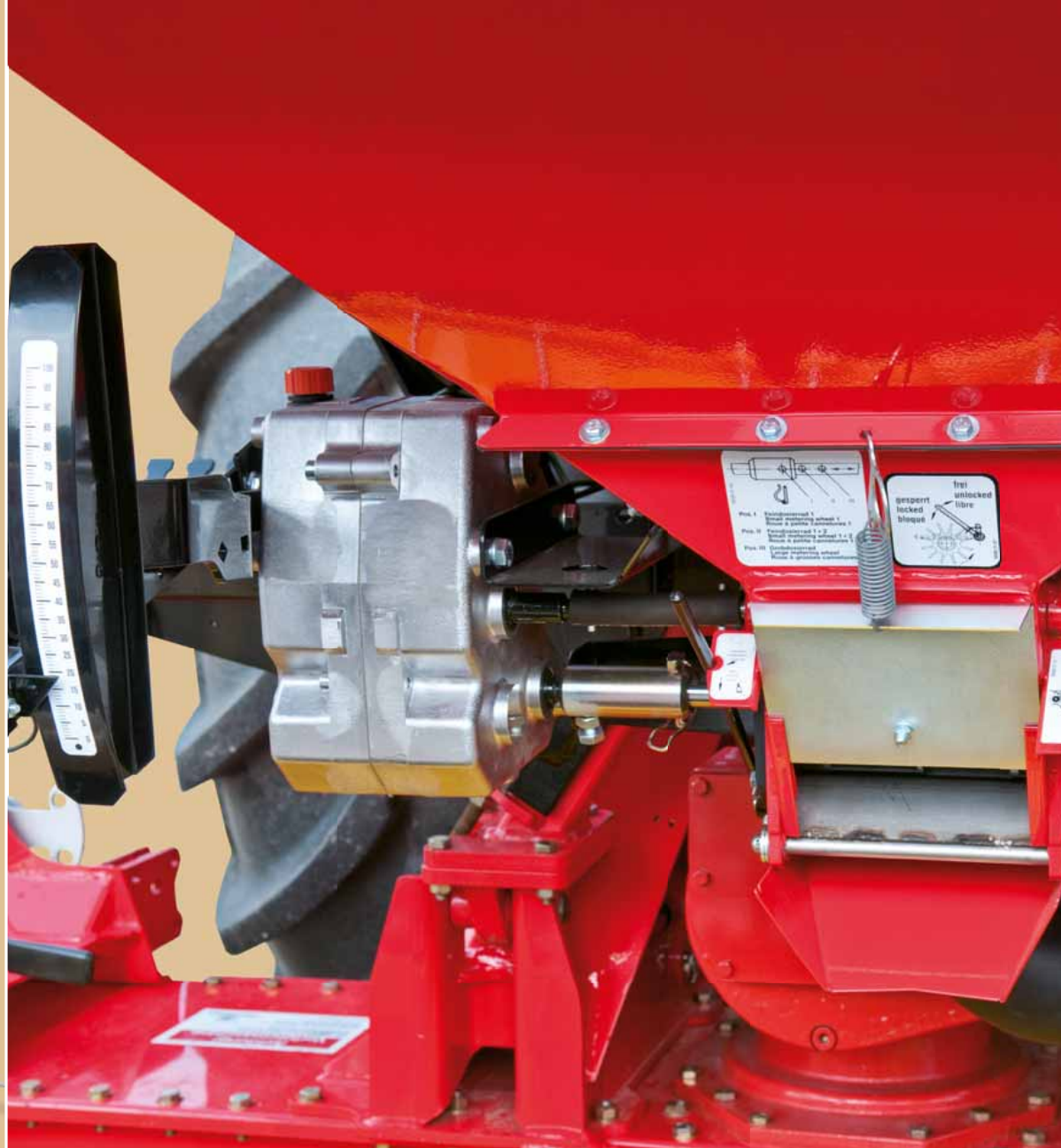
Coulter rails – the best quality

- The coulters consist of a twist-resistant profile tube. The space between the front and rear inter-gang distance is 13.78" / 350 mm. This makes sure that even large quantities of harvest trash do not pose a problem.
- The standard Suffolk coulters are suitable for most soil conditions.
- SAX disc coulters are best for mulch drilling or situations with a lot of organic matter. The Pöttinger disc coulters run diagonally to open the row pushing brittle straw trash or decomposing residues to the side. Uniform seed placement is achieved in combination with a coulters operating inside the SAX disc. Rotating scrapers prevent soil from building up on the disc.
- Press wheels can be fitted to consolidate the soil and act as a depth limiter.
- 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 obstacles.
- Standard harrow – twin row of straight tines.
- Perfekt harrow – cranked design to achieve an intensive levelling effect.
- Track markers – hydraulic operation improves convenience at headlands and working around poles and obstructions. The reinforced markers are protected using shear bolts. The marker discs have a diameter of 15.74" / 400 mm and can operate trouble-free even on heavy soil.

EM



Suffolk coulters – a spring-loaded protective flap covers the coulters if the machine is reversed, opening again automatically when moving forward.



AEROSEM – stepless gears

- A smooth infinite gear drive submerged in oil drives the three-section seed metering wheel. The seed metering wheel feeds the seed into the air stream. The gear unit ensures uniform distribution is achieved, even when metering shaft is running at lower speeds.
- The land wheel runs within the width of the machine. This help achieve 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.



AEROSEM F



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 safer travel across slopes speak for the AEROSEM F from Pöttinger.

Hopper filling options

- The front-mounted hopper can be filled using an auger, BigBags or a loader. 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 also fitted with an agitator to aid seed transport. No tools are needed to remove the agitator fingers if they are not required for specific types of seed. The agitator fingers simply pull out.





Hydraulic fan drive

- A hydraulic fan drive system is fitted as standard.
- The large diameter fan ensures a reliable seed flow rate is maintained even if the PTO speed drops.

Empties completely – no cleaning required

- To empty the hopper openings are located underneath the seed metering wheels. By moving a lever the seed can be discharged directly out of the hopper.



AEROSEM F



Foldable seed drill

- Mounting is extremely straightforward thanks to a quick-release coupling system. The seed drill coulters bar can be mounted on folding harrows and cultivators.
- The coulters rail consists of a twist-resistant profiled tube. The space between the front and rear inter-gang distance is 13.78" / 350 mm. This makes sure that even large quantities of harvest trash cannot become entangled.
- The coulters rails can be hydraulically folded and locked for road transport.



Coulters

- Suffolk coulters are suitable for most soil conditions.
- SAX disc coulters are best for mulch drilling or situations with a lot of organic matter. The Pöttinger SAX 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 coulters operating inside the SAX disc. Rotating scrapers prevent soil from building up on the disc.
- Pressure rollers can be provided to consolidate the soil and serve as a depth limiter.



The metering system

- The AEROSEM F has two metering units, each with one large and two small seed wheels.
- The seed wheels are electronically driven and controlled from the tractor via a radar sensor and/or an ISOBUS signal.
- Pulses transmitted are processed by the on-board computer and sent to an infinitely-variable oil driven motor. The seed flow rate can be varied from the driver's seat.
- Metering control direct from the tractor terminal.
- Priming of metering wheels prevents bare patches.
- Seed wheel stops at headlands to save seed
- Infinitely-variable adjustment of seed rate.



- Two distributor heads on the coulter bar distribute the seed with precision right across the whole working width.
- A servo motor shuts off the tramlines electronically. Valves on the distributor head 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.
- Thus 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

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: monitoring of fan 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 rate in the Multitronic computer.

Carry out calibration procedure using crank handle – easy electronical calibration on AEROSEM F













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 dia- meter 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 wheels	Track marker discs	Tramline markers
Option	Option	Option	Option	Option	Option
–	Standard	Option	Option	Option	Option
					
Hydraulic coulter pressure adjustment	Hydraulic land wheel lift	Hydraulic coulter bar raising	Electronic / Hydraulic 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 fan monitoring, Seed hopper 220 gal / 1000 l (price reduction), Tine protection for perfect harrow, Mechanical hectare counter, Hydraulic fan drive, Load-sensing fan drive.

Further optional equipment AEROSEM F: ISOBUS control,

Radars sensor, Load-sensing fan drive, Working headlights, 152 gal / 700 l seed hopper extension, Mounting kit with front to rear pipes, Mounting kit for foldable power harrow.



Supreme service

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