AEROSEM
Pneumatic seed drills

PÖTTINGER

Pure reliability

97+234.EN.1121

Pure reliability

The unique AEROSEM seed drill concept from PÖTTINGER unites high output with versatility. Perfect placement of the seed is the most important factor. We guarantee this with our precision universal metering system and ingenious, robust coulters. In addition to sowing cereals, this implement-mounted machine concept also enables us to sow maize using precision seed drill technology. The front hopper system also offers us the possibility of sowing a mixture of seed components together at the same time. This has also been adopted by our newly developed trailed seed drill combinations, which combine soil conservation and manoeuvrability.

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Best soil – best seed

Without limits

The soil is the basis for agriculture and forestry and is one of the world's most important yet limited resources. Soils are the essence of our life since they provide the basis for nutrition for us and our livestock. Healthy soil is the prerequisite for optimising your yield.

There are many factors involved in sowing. The optimum sowing time depends on the type of plant, the duration of sunshine, and on temperature. These factors influence, among other things, the choice of variety in crop production and crop rotation. Only exact and uniform seed placement combined with optimum covering of the seed guarantees homogeneous seed germination.

AEROSEM
Pneumatic seed drills

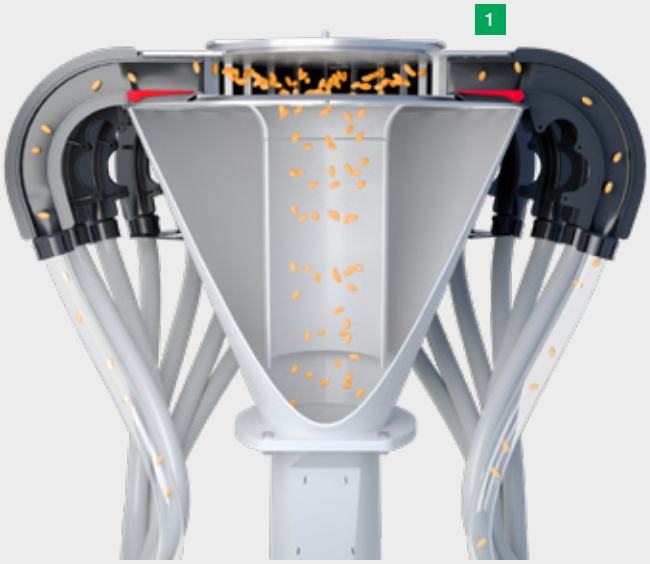
AEROSEM – pure reliability for precise seed placement

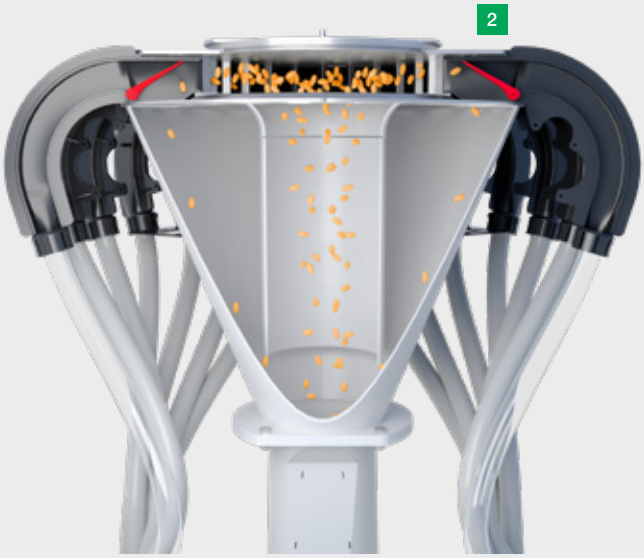
This unique seed drill delivers an impressive performance with its precision universal metering and perfect coulter systems to guarantee exact placement of the seed. In addition to sowing cereals, it is also possible to precision sow maize, for even higher machine utilisation.

Each feature on PÖTTINGER's AEROSEM A, AEROSEM FDD and AEROSEM VT is designed to increase productivity. At the end of the day you increase your profit.

- IDS – INTELLIGENT DISTRIBUTION SYSTEM for the best emergence
- Highest precision for gentle distribution using mechanically or electrically driven metering units
- Ingenious coulter technology for the highest output and a uniform, clean seed slot
- PCS – PRECISION COMBI SEEDING precision seed drill technology (AEROSEM ADD)
- Sowing maize in double rows with DUPLEX SEED (AEROSEM ADD)
- Pressurised hopper system for the highest flexibility (AEROSEM FDD, AEROSEM VT)

Best seed germination





IDS – flexibility that pays dividends

The unique IDS system (Intelligent Distribution System) controls all outlets via the bus system. This opens up completely new capabilities in coulter pipe and tramline switching. A must-have for contract work and machinery rings.

It is easy to set the tramlines at the terminal – no need to change the hoses.

The intelligent heart of the system

1 The riser tube with funnel-shaped outside conveys the seed material through the distributor head to the outlets.

2 The controlled flaps feed the seed through the patented funnel system into the air stream and back to the riser tube.

With active tramline switching the seed rate is automatically reduced for a seed saving of up to 6%.

IDS – INTELLIGENT DISTRIBUTION SYSTEM

Settings

The IDS distributor head ensures uniform crop growth by maintaining a completely consistent seed count in all coulter pipes.

- Tramline widths
- Track widths
- Special tramline switching
- Dual tramline systems
- Half width switching left and right
- Tramline rhythm can be selected independently of the seed drill width

Reliable & convenient: Tramline switching

Tramline switching is performed electronically using actuator motors. Straighforward setting and monitoring functions using the terminal.

Tramline switching can be symmetrical, asymmetrical or custom.

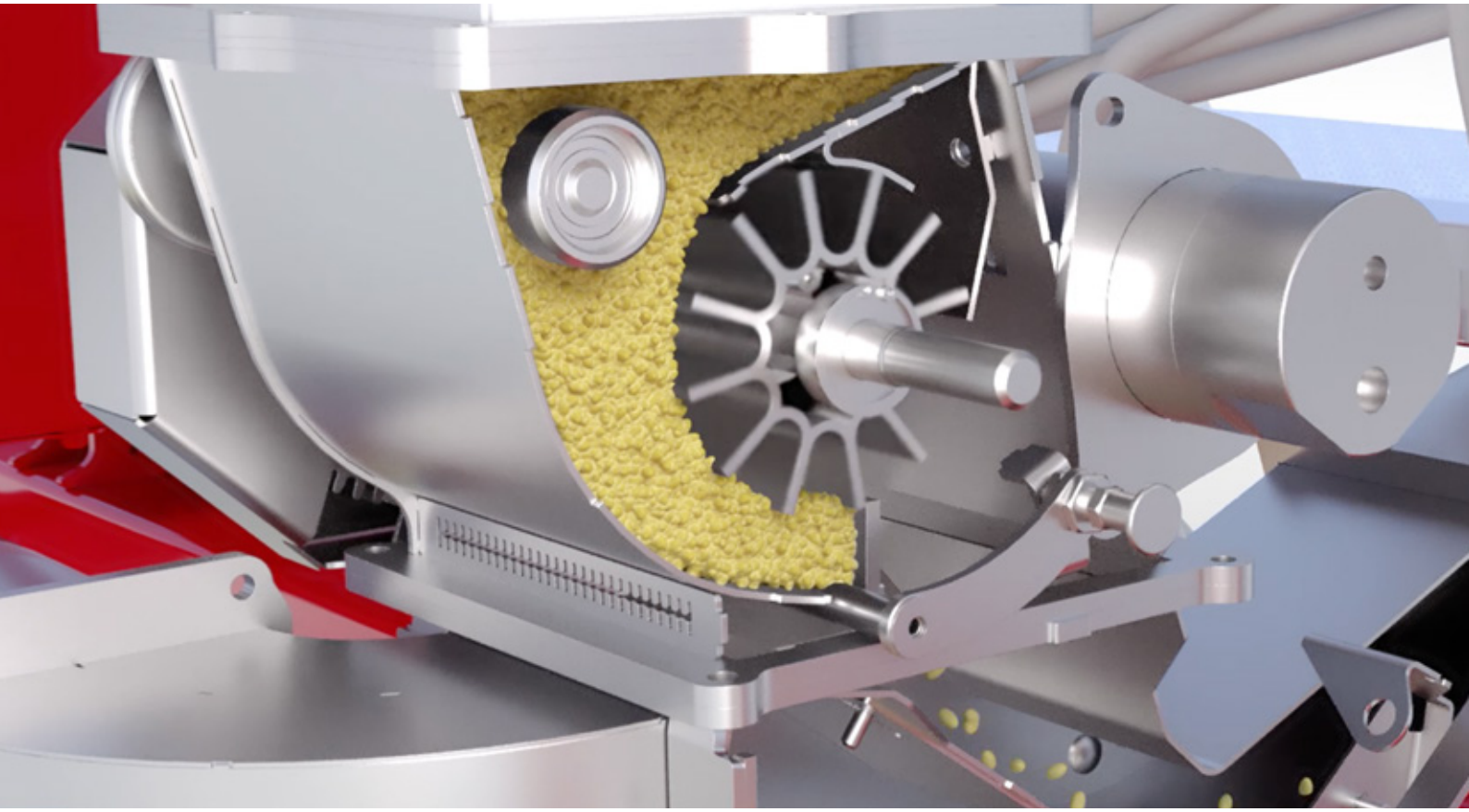
- Flaps on the distributor return the seed to the riser tube so that overall seed output by the metering system is reduced.
- Thanks to the free choice of track widths, tramline widths and tramline rhythms, the AEROSEM is perfectly suited for contract work.

Half-width and section control

With a fully equipped distributor head, in addition to automatic half-width switching on folding and rigid AEROSEM models, automatic part-width switching by the metre is also possible.

- Automatic half-width and part-width with Section Control
- Manual half-width switching at the touch of a button for symmetrical tramlines – AEROSEM 3002 ADD at 24 m

Convenient to use



Metering with the highest precision

The AEROSEM metering system is designed for the highest possible precision and ensures that exactly the right flow rate of any given seed type is used, even in the most difficult operating conditions.

- An outlet flap provides an additional level of fine adjustment depending on the size of the seed.
- The metering wheel motor has a wide speed range, so that no gears have to be preselected and site-specific sowing is no problem.
- AEROSEM A/ADD seed drills are equipped as standard with a mechanical land wheel for driving the metering system (Electric metering is optional).
- AEROSEM FDD and VT machines are available with electrically driven pressurised metering as standard.

Smooth distribution

A high volume of air and low air velocity protect the seed and any dressing against damage. Special distributor head inserts allow sowing in different row widths: this protects the seed against cracking and ensures reliable germination. The interaction of the precision metering system and the large distributor head results in uniform, highly precise and flexible seed placement. This combination ensures maximum effectiveness of seed and dressing.

Precise and uniform thanks to optimum lateral distribution

The seed is fed uniformly to the distributor in an air stream that passes up the high riser tube. The large diameter of the distributor head guarantees precise lateral distribution of the seed and is optimised in the factory.

It has never been so easy

The calibration system is fitted with a practical catchment tray that is easy to use and saves time.

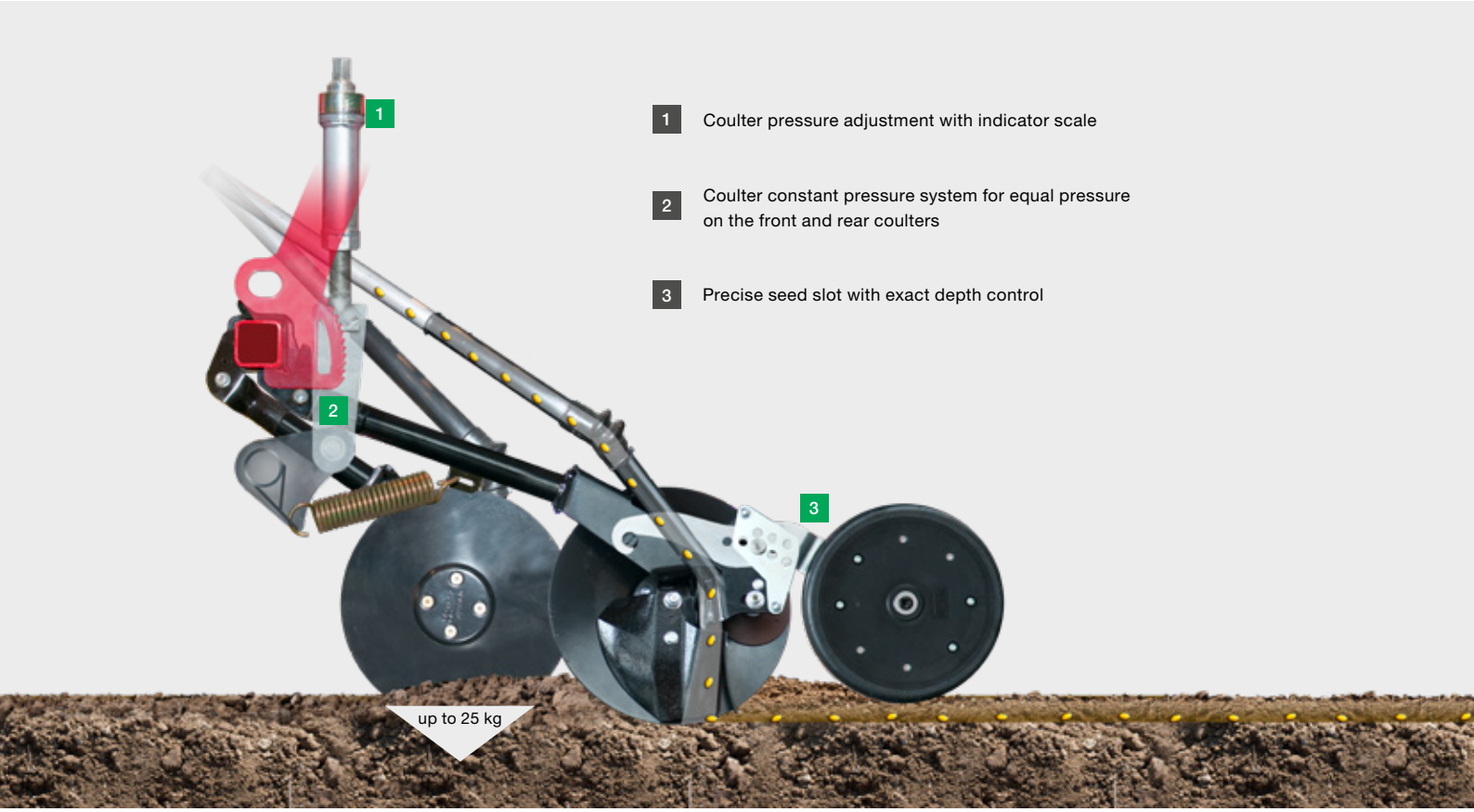
- With the mechanical metering system, calibration is carried out using a hand crank. In addition, a freewheel is provided in the driveline and the gearbox revolutions are displayed on the control terminal.
- Calibration with the electric metering system is carried out either at the press of a button directly on the machine or by pressing a key on the control terminal.
- Practical catchment tray, which is always on-board.
- The calibration flap is monitored by a sensor, so that no operator errors can occur during calibration or during operation.

Seed flow sensors for convenience and reliability

The optional seed flow sensors display constant and reliable feedback on the current seed flow at the control terminal.

One sensor per coulter pipe is located directly behind the IDS distributor head, to ensures reliable application. The sensitivity of the sensor can be set in three stages depending on the seed. If flow stops then the relevant coulter pipe number is displayed on the control terminal. Furthermore, red and green LEDs indicate the status directly on the sensors.

Coulter competence for high output



1 Coulter pressure adjustment with indicator scale

2 Coulter constant pressure system for equal pressure on the front and rear coulters

3 Precise seed slot with exact depth control

Coulter competence for high output

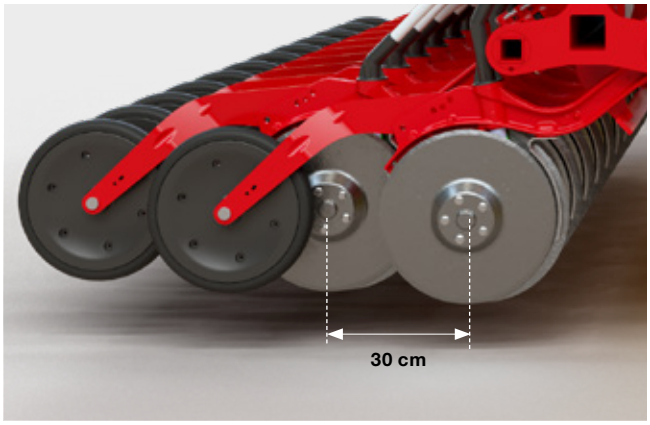
Successful sowing is dependent on perfectly-matched coulters for opening the seed slot, uniform seed placement and covering the seed again. A well-formed seed slot is essential for successful drilling.

PÖTTINGER provides you with exactly the right coulters for your needs – our single disc or double disc coulters guarantee optimum seed placement and uniform emergence.

Single-disc coulters

The concave single disc coulters with a diameter of 320 mm are equipped with twin race taper bearings and a special seal. Adjustable, rotating scrapers are located behind to provide plenty of side clearance, allowing large clods to be handled easily.

- Same coulter pressure on front and rear up to 25 kg
- Ideal seed placement for perfect growth
- Blockage-free drilling thanks to 30cm coulter spacing
- Precise depth control thanks to optional depth control roller with 250 mm diameter
- Wear-resistant cast coulter points for a perfect seed slot



DUAL DISC coulters

The DUAL DISC double disc coulter system ensures precise seed placement even in the most difficult conditions.

The large coulters are slightly offset and form a clean and tidy seed slot. The maintenance-free, equal length coulter arms with an offset of 30 cm ensure maximum reliability even with a high level of plant residues. With up to 60 kg applied to each seed coulter, they reliably cut through plant residues even at high driving speeds. The V-shaped seed slot prevents the seed from rolling.

How you benefit:

- Highest clearance thanks to 30 cm coulter offset
- Reliable operation in mulch drilling conditions thanks to 350 mm diameter disc coulters and off-set position
- Consistent coulter pressure because coulter arms are all the same length
- Optimum plant distribution density with a row spacing of 12.5 cm
- Optimum depth control thanks to large press wheels with a diameter of 330 mm
- Reliable operation in the most difficult conditions thanks to integrated hardened scrapers on the shares
- Central coulter pressure adjustment and depth setting

Coulter competence for high output

Depth adjustment

On the single disc coulters, the depth is adjusted using optional depth control wheels. The depth can be easily adjusted on each row by means of a pin. The hook solution makes it easy to remove the press wheels without the need for tools.

With the DUAL DISC coulter system, the depth is adjusted for the entire machine centrally using two turnbuckles.

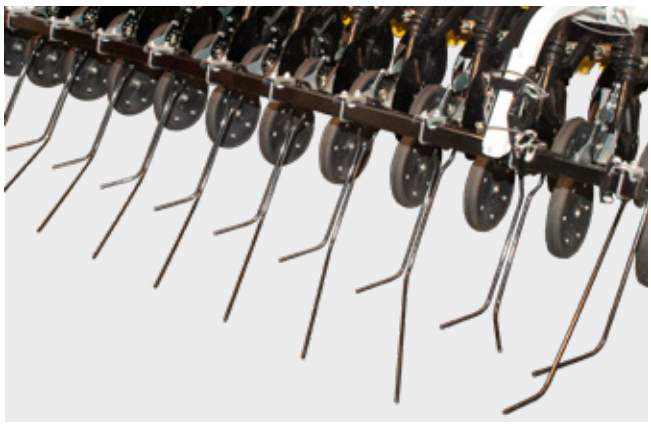
Central coulter pressure adjustment

The coulter pressure on all coulter systems is adjusted simply by using the ratchet spanner supplied.
Thanks to precise tension spring matching, the single disc coulter system ensures the same pressure is applied to the front and rear coulters.
The DUAL DISC double disc coulter system is pre-tensioned by the maintenance-free rubber elements and has coulter arms of the same length. Optional hydraulic coulter pressure adjustment is available for both coulter systems.

Press wheels for uniform placement depth

The optionally available press wheels guarantee an exact placement depth for the single disc coulter. Press wheels are standard on the DUAL DISC double disc coulter system. These can be set in three different positions for seed placement depths of up to 6 centimetres.

- Each of the disc coulters is guided by a press wheel to ensure a precise and uniform seed placement depth.
- In addition to depth control, the press wheels also ensure controlled consolidation of the soil and pressure on the seed.
- Straightforward depth adjustment using lock pins or turnbuckles
- Reliable operation thanks to large dimensioned press wheels



Levelling tines

The strong harrow tines feature spiral springs for perfect results. Shocks are absorbed using maintenance-free rubber mountings. damage is prevented if the machine is reversed inadvertently.

- Central tine angle adjustment
- Easy to use adjustment functions for depth and pressure
- Outer tines can be retracted for a transport width of 3 or 4 metres
- Can be used together with press wheels without additional adapters.

Standard single-row harrow tine

The tines are located between the seed rows. These tines are arch-shaped to prevent clogging even in heavy organic material. The edging tine pairs are slanted inwards for a seamless pass-on-pass finish.

'Perfekt' single-row harrow tine

'Perfekt' harrow tines are designed for an especially intensive levelling effect. Offset tine lengths smooth the surface over completely to ensure that seeds are definitely covered even when shallow-drilling.

Overview of coulter types	**Single-disc coulters**	**DUAL DISC coulters**
Coulter configuration	2 row	2 row
Coulter offset	30 cm	30 cm
Row spacing	12.5 cm / 15 cm	12.5 cm / 15 cm
Number of seed coulters AEROSEM 3002 A	24 / 20	24 / 20
Number of seed coulters AEROSEM 3502 A	28	28
Number of seed coulters AEROSEM 4002 A	32 / 26	32 / 26
Number of seed coulters AEROSEM 4002 FDD	–	32
Number of seed coulters AEROSEM 5002 FDD	–	40
Number of seed coulters AEROSEM 6002 FDD	–	48
Number of seed coulters AEROSEM VT 4000	–	32
Number of seed coulters AEROSEM VT 5000	–	40
Coulter disc diameter	320 mm	350 mm
Depth roller diameter	250 x 40 mm	330 x 50 mm
Pressure per coulter	up to 25 kg	up to 50 kg (ADD / FDD) / up to 60 kg (VT)

Precision drill technology – AEROSEM ADD

All-in-one for pure flexibility

The PCS (Precision Combi Seeding) option integrates precision seed drill technology into a rigid pneumatic seed drill, this allows you to operate independently of dedicated precision seed drill. This means greater flexibility and a more cost effective operation when using your AEROSEM ADD seed drill.

Precision maize drilling

One seed drill for multiple tasks:

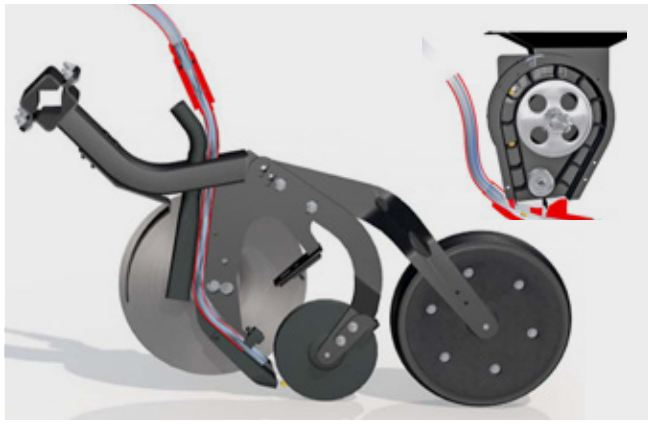
- Cereals
- Maize / maize with fertiliser / maize with companion crop

Exact seed separation

The single-seed precision metering elements are located beneath the seed hopper. This hydraulically-driven system ensures exact mechanical separation of the seed. The air stream transports the seed to the coulters, during this time an optical sensor monitors the distribution of the seed in the row. This monitoring system allows for:

- Easy adjustment of seeds per hectare
- Precise monitoring of seed distribution in the seed slot

PCS – PRECISION COMBI SEEDING



Pneumatic seed transport

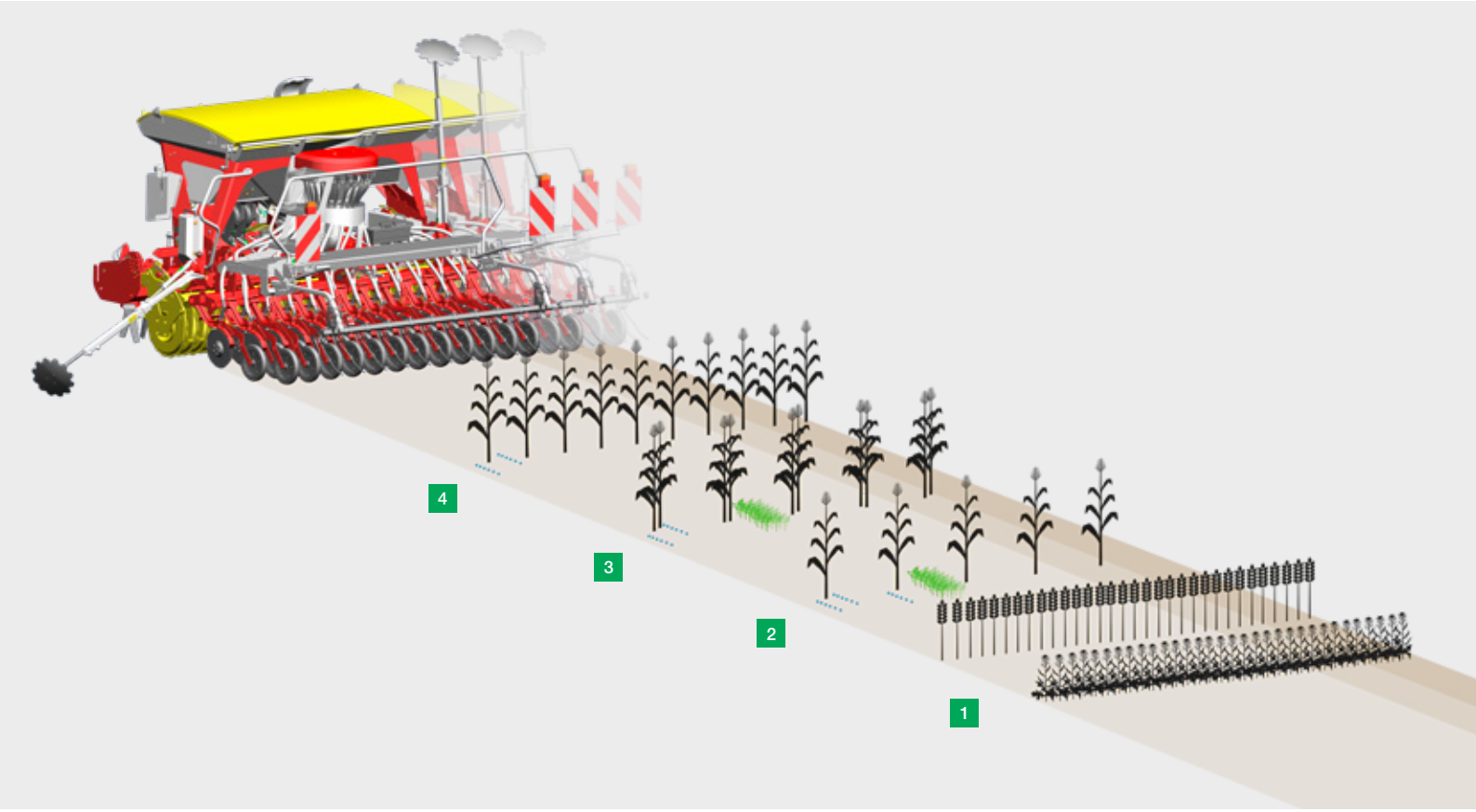
An air flap divides the air stream between the standard metering system and the PCS. Under pressure, the air system injector takes the individual seeds from the seed elevator and transports them at precise intervals to the coulter.
A seed flow sensor monitors reliable seed transport and indicates to the driver the accuracy of seed distribution in the seed slot.

Perfectly placed

The DUAL DISC coulter with its integrated seed slot former ensures a perfect seed slot. A firming roller presses the seed into the slot. A press wheel controls consolidation and working depth. The seed placement depth can be adjusted centrally.

- No vertical drop
- Exact seed placement
- Seed does not roll along slot
- Optimum covering of seed
- Uniform seed germination

Precision drill technology – AEROSEM ADD



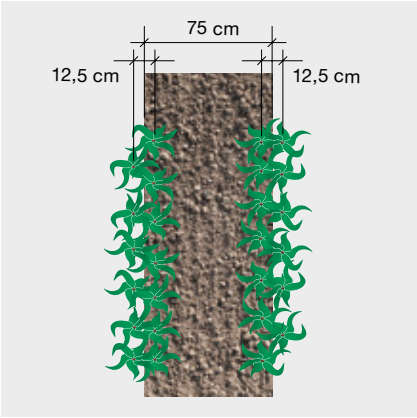
1 AEROSEM A / AEROSEM ADD
wheat, barley, oats, rye,
spelt, sunflower seeds, beans, peas,
oil seed rape, poppy seeds, phacelia, mustard

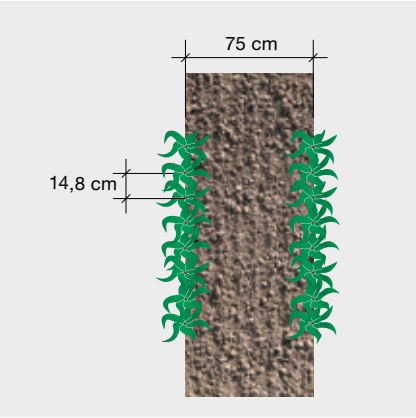
2 AEROSEM PCS
maize, row spacing 75 cm
optional simultaneous fertiliser application of
1 or 2 bands or simultaneous application of
companion crop seed between the maize

3 AEROSEM PCS DUPLEX SEED
maize, row spacing 75 cm / 12.5 cm
optional fertiliser application with a band next
to each row or simultaneous application of
companion crop seed between the maize

4 AEROSEM PCS
maize, row spacing 37.5 cm
optional fertiliser application with a band next to each
row

PCS – PRECISION COMBI SEEDING





DUPLEX SEED – sowing maize in double rows

- With 12.5 cm spacing in the double row, and 75 cm spacing between the double rows
- The double spacing in the row ensures a better plant distribution density of the maize plants
- Increase in yield of up to 5.5 % possible with silage maize and corn maize

Sowing maize in 75 cm or 37.5 cm rows

- Optimum plant distribution density by doubling the longitudinal spacing when dividing the seeds into 2 maize rows
- Optional tramline switching means that crop care access is no problem even with small row spacing

Environmental and efficiency challenges

- Reduced risk of erosion thanks to faster row integration compared to conventional single row sowing
- Better drainage because there are no marks on the soil surface
- Increased efficiency as a result of higher machine utilisation and combined sowing, which also saves fuel

AEROSEM	**3002 A / ADD**	**3502 A / ADD**	**4002 A / ADD**
Working width	3.0 m	3.5 m	4.0 m
Number of rows	24 / 20	28	32 / 26
Row spacing	12.5 / 15 cm	12.5 cm	12.5 / 15 cm

AEROSEM PCS	**3002 ADD**	**3502 ADD**	**4002 ADD**
Working width	3.0 m	3.5 m	4.0 m
Number of cereals rows 12.5 cm	24	28	32
Number of maize rows 75 cm	4	5	5
Number of maize rows DUPLEX SEED	8	10	10
Number of maize rows 37.5 cm	8	9	10

Pneumatic implement-mounted drills


PÖTTINGER
AEROSEM 3002 ADD
PCS
PÖTTINGER
MACH

Pneumatic implement-mounted drills

High volume seed hopper

The AEROSEM seed hopper features a large opening for filling. This enables rapid and trouble-free filling using Big-Bags or a front loader bucket. A wide bag support with handrail on top of the hopper makes it easier to fill by hand. The robust roller tarpaulin cover is dustproof and rainproof, rolls up automatically and can be closed again easily. With an optional hopper extension the seed hopper can be expanded to hold 1,850 litres on all rigid AEROSEM seed drills.

It couldn't be more straightforward

From filling the seed hopper and calibration through to emptying residual seed from the tank, all adjustments can be made on the left-hand side or rear of the machine. The adjustment controls are easily accessible and positioned ergonomically. Easy adjustment with everything close at hand saves time. The metering wheel is selected using the PÖTSEM app and the control terminal.

One hopper for all jobs

The seed hopper is simply divided for single-seed drilling using PCS and application-specific fertilisation. The partition walls are repositioned quickly and easily using wing-nuts without the need for tools.

1 Partition setting for sowing cereals only

2 Partition setting to divide the tank for maize seed and fertiliser

- The standard version of the hopper can hold 450 litres of maize (2 x 225 l) and 800 litres of fertiliser. With the seed hopper extension there is space for 650 litres of maize (2 x 325 l) and 1,200 litres of fertiliser.
- The standard metering system allows fertiliser to be applied on both sides of each seed row.
- Instead of row fertilisation, for example, a grass companion crop can also be sown for improved erosion control.
- It is possible to change the metering wheel even when the seed hopper is full thanks to a shut-off plate above the metering wheel.

Unique coupling

The compact design is possible because the coulter rail and power harrow roller are so close together.

1. Mounted on a power harrow or compact combination, the centre of gravity is located close to the tractor
2. The AEROSEM is mounted on the rear roller and is guided by a top link. The weight of the seed drill is carried by the rear roller.
3. The roller and seed drill form a compact unit and enable parallel guidance of the machine. This means that when the working depth of the power harrow is changed it does not influence the seed placement depth of the coulters.

Mounting – a perfect connection

Mounting and removing the drill using the rear roller is quick and easy, without the need for tools.

- Parking standards are provided for convenient handling.
- Simply reverse the power harrow under the AEROSEM. This is then piggybacked when lifted and just needs to be secured in place.
- Two lugs on each side and the top link ensure secure attachment.

Sensor wheel & radar sensor

Machines with mechanical metering are equipped as standard with a land wheel for metering start/stop and the tramline signal.

In addition to ISOBUS and the signal socket, an optional radar sensor is also available for picking up the speed signal for electric metering.

PÖTTINGER also offers a sensor wheel for reliably starting and stopping the metering system. The system switches the metering on and off independently of the tractor's hydraulic hitch signal.

Following successful integration of ISOBUS into the AEROSEM models, Section Control can be used on all seed drills with electric metering systems.

Pneumatic front hopper seed drills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Pneumatic front hopper seed drills

The AEROSEM FDD front hopper seed drill

The AEROSEM FDD front hopper seed drill extends PÖTTINGER's range of pneumatic implement-mounted seed drills up to a working width of 6 metres.

Increased output is not only possible by expanding combinations at the rear. For PÖTTINGER the logical system expansion was the move towards a front-rear configuration. The result is extreme flexibility in large and small field runs teamed with a high seed hopper capacity for a lower number of filling intervals.

Combining the highest performance with operating convenience and versatility.

Agriculture has developed extremely fast over the past few years and PÖTTINGER has also had to respond to these changes. The combination of the AEROSEM FDD and the LION 103 C or the new 1002 C series succeeds in combining high output with high versatility. Special attention has been paid to a compact design. The result is a neat machine with an improved overview and optimised weight distribution. In addition to a dual metering system and the IDS distribution head, the seed drill's versatility is further increased by being able to attach and remove the coulter rail quickly.

Adapted to meet flexible requirements

The simultaneous application of several components during drilling has become increasingly standard in recent years. The main focus is on providing plants with nutrients from the germination stage onwards.

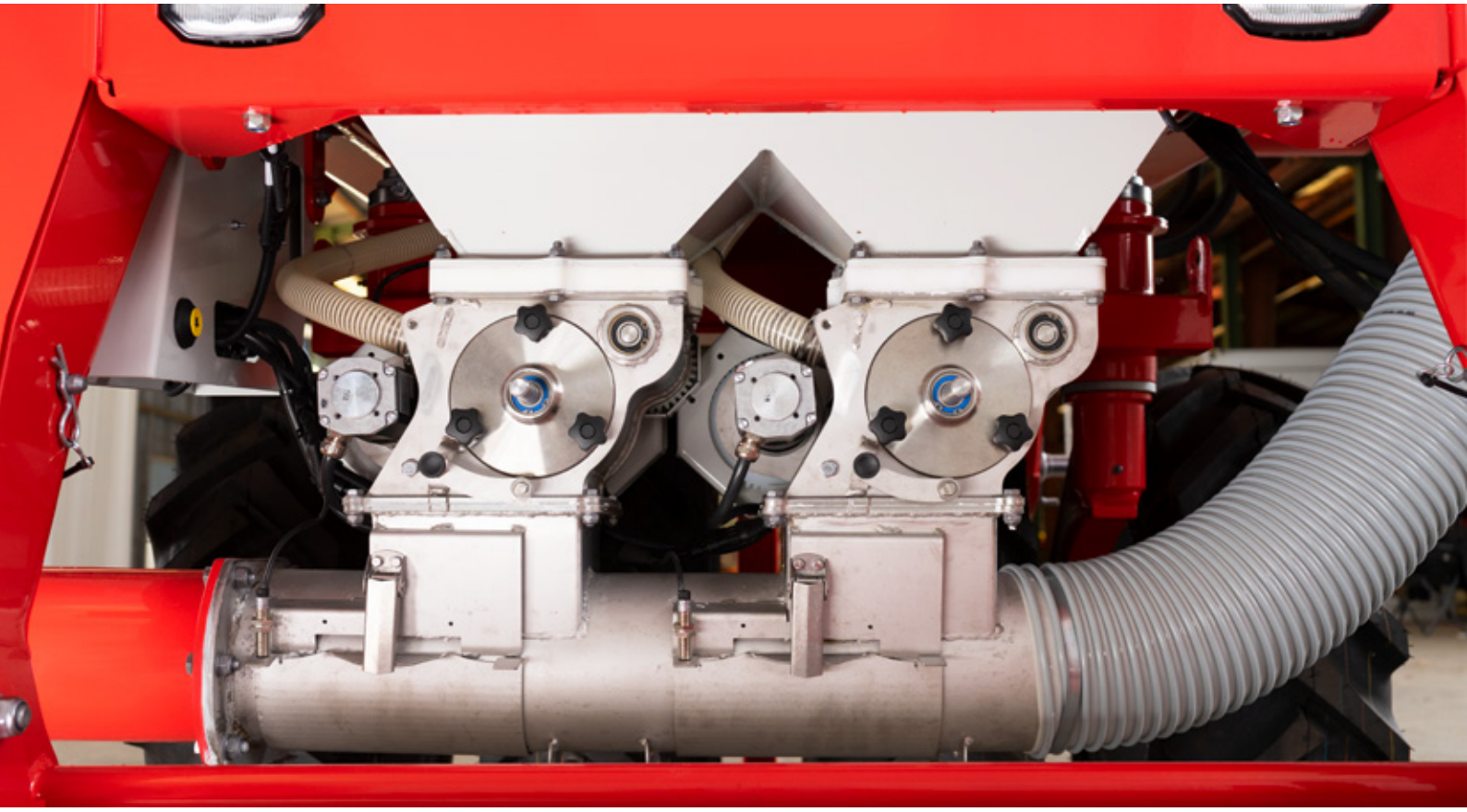
Thanks to an increase in metering flowrates, combined with a long conveying path from the front of the tractor and higher driving speeds, it is now necessary to use a pressurised hopper for the front hopper system.

Pressurised hopper for higher output and versatile applications

The pressurised hopper system meets new requirements in seed drill technology. Larger quantities of seed and fertiliser can be transported over longer distances.

The range of volumes and the choice of one or two metering systems fulfil every requirement in the field.

Pneumatic front hopper seed drills



Flexible operation with single shoot

The newly designed front hopper seed drill with pressurised hopper system delivers even greater flexibility.

The front hopper is available with a partition as an option. Each side of the hopper then has a separate metering system – but feeds the same single shoot seed line.

The pressurised hopper enables a reliable metering process. This means that different seeds can be mixed precisely and placed together in the same seed slot. This opens up new perspectives in crop cultivation.

The crop cultivation advantage

- Targeted placement of mineral fertiliser in the seed band e.g. sulphur fertilisation for wheat, starter fertilisation for malting barley, etc.
- Mixture of original and farm saved seed or mixture of different dressing grades
- Planting different cover crops with different seed sizes
- Precise mixing of two components after metering

High volume seed hopper

- High volume double hopper with 1,700 or 2,300 litres with sufficient space for one or two component metering units
- Pressurised hopper system for high output rates
- Hopper partition 60:40 without central brace
- Full-length hopper cover with mesh as standard
- Interior lighting fitted as standard

Optional tyre packer

- Steered tyre packer for optimum consolidation between the axles
- Additional front axle relief during operation thanks to four-wheel chassis
- Packer is centred by springs and is equipped with scrapers
- Well defined AS-profile with good self-cleaning properties
- Tyre dimension 10.75 – R15.3
- Tyre packer can be dismantled and retrofitted

Easy to use metering units

- Straightforward calibration procedure thanks to easily accessible metering units and calibration at the push of a button
- Toolbox for calibration bags and different metering wheels
- Metering system components are located in front of the tyre packer for optimum dust protection
- Metering wheel drive with wide speed range – no gear changes necessary
- Simple metering wheel selection using the PÖTSEM App or control terminal

Convenient handling

- Double hopper with two covers and no central brace ideally suited for filling with Big Bags
- Very good accessibility using the loading platform – additional step available for the 2,300 litre hopper platform
- The two sizes of hopper have compact dimensions but different heights.

  Filling edge height:
  1,700 Liter – 1.68 m
  2,300 Liter – 1.81 m

Pneumatic front hopper seed drills

Proven DUAL DISC coulter system

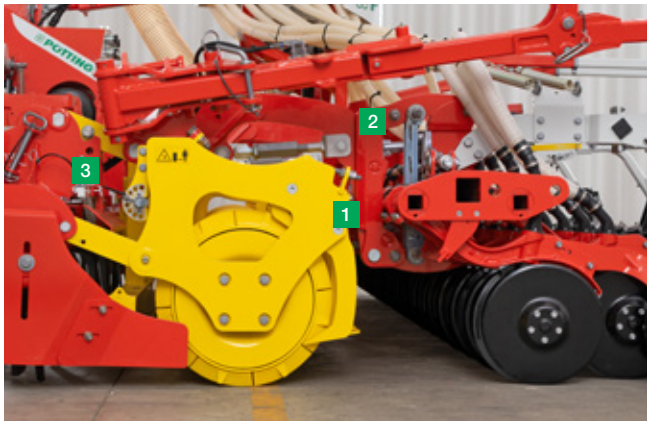
The large DUAL DISC double disc coulters guarantee the formation of a clean and tidy seed slot for optimum seed placement.

The slightly offset coulters cut right through harvest residues and are not susceptible to blockages.

Patented distributor head mounting

- The distributor head is mounted on three coupling points and is self-levelling thanks to its scissor system.
- The distributor head is always aligned vertically both during the folding process and in the working position.
- While the distributor head is connected directly to the coulter rail, it is easy to remove and attach the coulter rail.
- Optimum seed distribution is ensured because all the hoses are the same length as a result of the distributor head being placed well forward.

Model	Working width	Coulter system	Row spacing	Number of coulters	Seed hopper volume
AEROSEM 4002 FDD	4.0 m	DUAL DISC coulter	12.5 cm	32	1,700 / 2,300 l
AEROSEM 5002 FDD	5.0 m	DUAL DISC coulter	12.5 cm	40	1,700 / 2,300 l
AEROSEM 6002 FDD	6.0 m	DUAL DISC coulter	12.5 cm	48	1,700 / 2,300 l



Parallelogram mounting

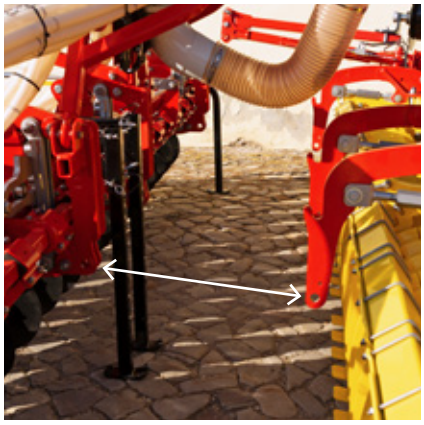
1. Optimum seed placement, the coulter rail follows the packer roller because they are directly connected
2. Each frame section is fitted using two coupling points with an additional lock pin
3. No need to adjust the seed placement depth when changing the working depth of the power harrow thanks to the parallelogram mounting on its rear roller

Adjusting seed placement depth

- Central adjustment of the seed depth at the outer ends of the two coulter rails using the ratchet sapnner provided
- Integrated seed placement depth adjustment in the coulter rail mounting with constant parallel alignment
- Shortened design with better centre of gravity with the coulter rail located between the mounting points of the coulters

Coulter pressure adjustment

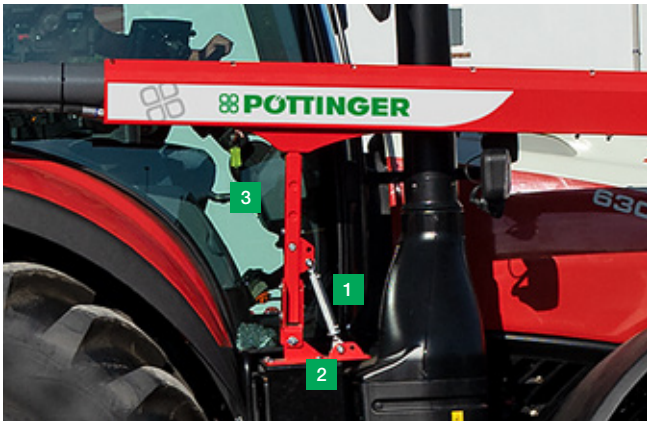
- The coulter pressure can be adjusted separately on each frame section using a convenient ratchet wrench
- Coulter pressure of up to 50 kg per seed coulter
- A hydraulic coulter pressure adjustment system is available as an option



Uncoupling the coulter rail

- The coulter rail is attached to the power harrow with user-friendly catch hooks and pins
- The coulter rail and distributor head can be uncoupled to increase machine utilisation within a very short time without the need for tools
- The coulter rail can be stowed using the parking stands provided. The lighting units can be bolted onto the LION 103 C and 1002 C when they are used on their own.
- Quick changeover to operating the power harrows solo

Pneumatic front hopper seed drills



Connecting line

- Complete hose line system included in the front hopper kit
- Hose and cable tray can be easily separated from the tractor bracket – only takes a few minutes to remove
- Hose line connected using quick fasteners
- Hydraulic line and ISOBUS cable can be routed through the cable tray

Tractor bracket

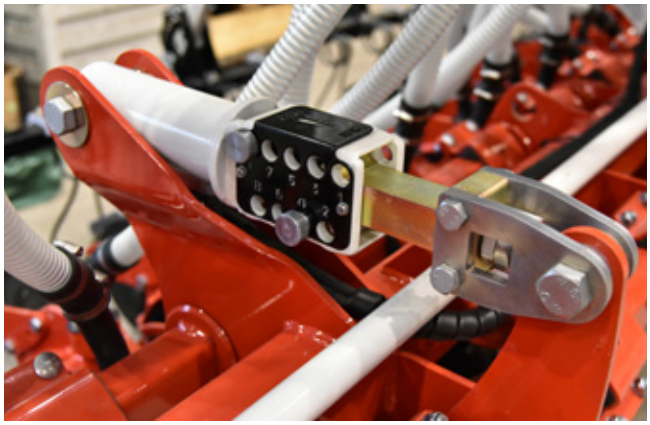
1. The connecting line is adjustable in height and angle by means of a tractor mounting bracket. Fully adjustable regardless of the make of tractor.
2. Tractor bracket with bolt-on connection plate included in scope of supply
3. The connecting line can be easily detached from the bracket using a slot-in tube.

ISOBUS inside

- The front hopper is equipped with its own job computer.
- The user interface on the control terminal is identical to the previous AEROSEM and TERRASEM series.
- The AEROSEM FDD seed drills can be controlled using an ISOBUS terminal from PÖTTINGER, another manufacturer or by tractors equipped with ISOBUS.

IDS – INTELLIGENT DISTRIBUTION SYSTEM

- Machine width-dependent selection of tramline widths, track widths or special tramlines at the push of a button with 100% motorised distributor head
- Depending on the number of switched or closed outlets, the seed rate is reduced to match
- Seed distribution density remains consistent
- Automatic half-width switching when using Section Control



Hydraulic equipment

One single-acting remote for the blower with pressureless return and a double-acting remote for folding are standard.

Optional hydraulic functions:

- Working depth adjustment, bout markers and coulter lift on LION 103 C and 1002 C
- Coulter pressure adjustment and pre-emergence markers on AEROSEM FDD

Preselect system

A hydraulic block can be integrated as an option on the LION power harrow. Apart from the coulter lifting system, all hydraulic functions are operated using a single spool valve and each function is controlled using a preselect system.

A smaller terminal for controlling the hydraulic block is provided for using the LION power harrow on its own.

Parking position

- The front hopper can be safely uncoupled on its integrated parking stand.
- Parking the coulter rail with the power harrow in the folded out position is recommended

Road transport

- On its own, the LION is 3.0 m wide in the transport position.
- When used in combination with the AEROSEM FDD, a transport width of 3.0 m can also be achieved with the optional coulter lift system.

Trailed pneumatic seed drill combinations


POTTINGER
POTTINGER
50
25

Trailed pneumatic seed drill combinations

AEROSEM – pure reliability for precise seed placement

The new seed drill concept with active seedbed preparation delivers an impressive performance with its precision universal metering and perfect coulter system to guarantee exact seed placement. Conserving the soil during high output operation, sowing is performed cost effectively with only a low drive power requirement.

Each feature on PÖTTINGER's AEROSEM VT is designed to increase productivity. At the end of the day you increase your profit.

- Perfect ground tracking for successful drilling
- Compact design with soil conserving packer
- Perfect seedbed preparation thanks to the LION 103 C series
- Coulter technology for large area output and a uniform, clean seed slot
- Pressurised hopper system for greater flexibility

Successful drilling

Optimum plant density

It is essential that each individual plant has the space it needs. Growth is determined by the soil conditions, light, water and nutrients. You lay the foundation for a successful harvest when sowing with your AEROSEM seed drill.

The proven coulter rail with DUAL DISC coulter system ensures an ideal plant density for your crop. With a row spacing of 12.5 cm, optimum plant development is ensured and weeds are largely suppressed.

Conserves soil

High volume grooved tyre packer

Soil is the farmer's most valuable asset, so it needs to be conserved in the best possible way. The large-volume packer tyres reduce the pressure applied to the ground and minimise rolling resistance to prevent the bulldozing effect. Moreover, the packer is hydraulically damped to support smooth operation during sowing and enables high driving speeds on different types of soil.

Trailed seed drill

Lower power requirement

Thanks to the trailed seed drill & power harrow combination, the tractor does not need to lift heavy implements. This means that it is also suitable for compact, 4-cylinder tractors. Uniform weight distribution is ensured because the machine is attached to the lower linkage arms and guided by the tyre packer. The result: a smooth running machine.

Trailed pneumatic seed drill combinations

Ultimate soil conservation

With its large central packer, the newly designed AEROSEM stands for ultimate soil conservation. Only low lifting forces are required on the tractor. That is why compact, 4-cylinder tractors are also suitable for this work.

Grooved tyre packer

The full-length grooved tyre packer with 800 mm diameter wheels cover the full width of the packer, conserving the ground at the headland without smearing the soil. The large dimensioned packer minimises the rolling resistance and avoids the bulldozing effect.

A large contact area in combination with the special grooved profile ensures optimum consolidation of the seed rows.

Flexible operation with single shoot

The newly designed seed drill combination with pressurised hopper system delivers even greater flexibility. Each side of the hopper then has a separate metering system but feeds the same single shoot seed line.

The metering systems can be controlled independently of each other. Two components can be applied simultaneously. Moreover, two application maps can be used for site-specific drilling.

Pressurised metering system

The newly designed AEROSEM pressurised metering system is designed for the highest possible seed flow rate and ensures that exactly the right flow rate of any given seed type is used, even in the most difficult operating conditions.

Longitudinal partition seed hopper

The design of the longitudinal pressurised hopper with a capacity of 2,800 litres is completely new. The hopper is divided 50:50 in the direction of travel, so that seed can be drilled with fertiliser or on its own. Special attention has been paid to providing easy access to the seed hopper.

High volume seed hopper

- High volume double hopper divided 50:50 with 2,800 litres and two metering units
- Pressurised hopper system for highest output rates
- Hopper cover moves to the side on smooth-running kinematics
- Level sensors fitted as standard
- Interior lighting fitted as standard

Easy to use metering units

- Straightforward calibration procedure thanks to easily accessible metering units and calibration at the push of a button
- Metering system components are located in front of the tillage tools for optimum dust protection
- The system is protected against dirt ingress because the fan is integrated into the front wall of the hopper
- Metering wheel drive with wide speed range so no gear changes necessary
- Simple metering wheel selection using the PÖTSEM App or control terminal
- Toolbox for calibration bags, weighing scales and metering wheels

Convenient handling

- Improved accessibility and an optimal overview thanks to the longitudinally mounted hopper
- Full-length hopper cover is moved to the side during filling
- Low filling edge height: 2.20 m
- Large hopper opening: 1.22 x 1.92 m
- Good accessibility using the side-folding loading platform
- Residual seed material is conveniently emptied from the side

Trailed pneumatic seed drill combinations

Integrated power harrow

The top priority in seedbed preparation is the creation of optimum germination and growth conditions to ensure rapid and uniform plant emergence. On the LION 103 C PÖTTINGER achieves this by using 4 rotors per metre of working width and tines that are 300 mm long and 15 mm thick.

Thanks to its proven rotor beam technology, a large-dimensioned central gearbox and integrated tine carriers, the LION 103 C provides the basis for optimum sowing.

The integration of the power harrow as a frame component of the machine results in the PTO shaft to the central gearbox always being in a straight line. Designed for maximum reliability during continuous operation, the external gearboxes are protected by a cam-type clutch.

Intelligent coulter rail docking

The three-section coulter rail is connected to the grooved tyre packer using a separate parallelogram. This ensures optimum contour tracking – even in the most difficult conditions.

The working depth is conveniently set on each coulter rail cylinder using a lock pin system. By means of a cylinder stop, the placement depth can be selected over an adjustment range of 8 cm.

In addition to the placement depth, the coulter rail cylinders also apply the coulter pressure. As standard this is set using a pressure relief valve. The valve is coupled to the hydraulic line that supplies the fan, this ensures the pressure applied to the seed coulters is automatically released when the fan is switched off.

Straightforward hydraulic configuration

The AEROSEM VT features an impressively simple hydraulic configuration. All the machine's functions can be operated using just three double-acting hydraulic connections. In addition, a single-acting connection with open return is needed to drive the fan.

The double-acting connections are required for lifting and lowering the machine, adjusting the working depth of the power harrow and for the preselect functions. Folding, pre-emergence marker and bout marker are preselect functions that are easily operated using the control terminal in the tractor cab.

Stable headland position

The entire machine is raised on the grooved tyre packer at the headland using the chassis and coulter pressure cylinders. Both the power harrow and the coulter rail are brought into the headland position one after the other, guided by a parallelogram. The ground clearance of the power harrow is a remarkable 27 cm.

Conserving resources

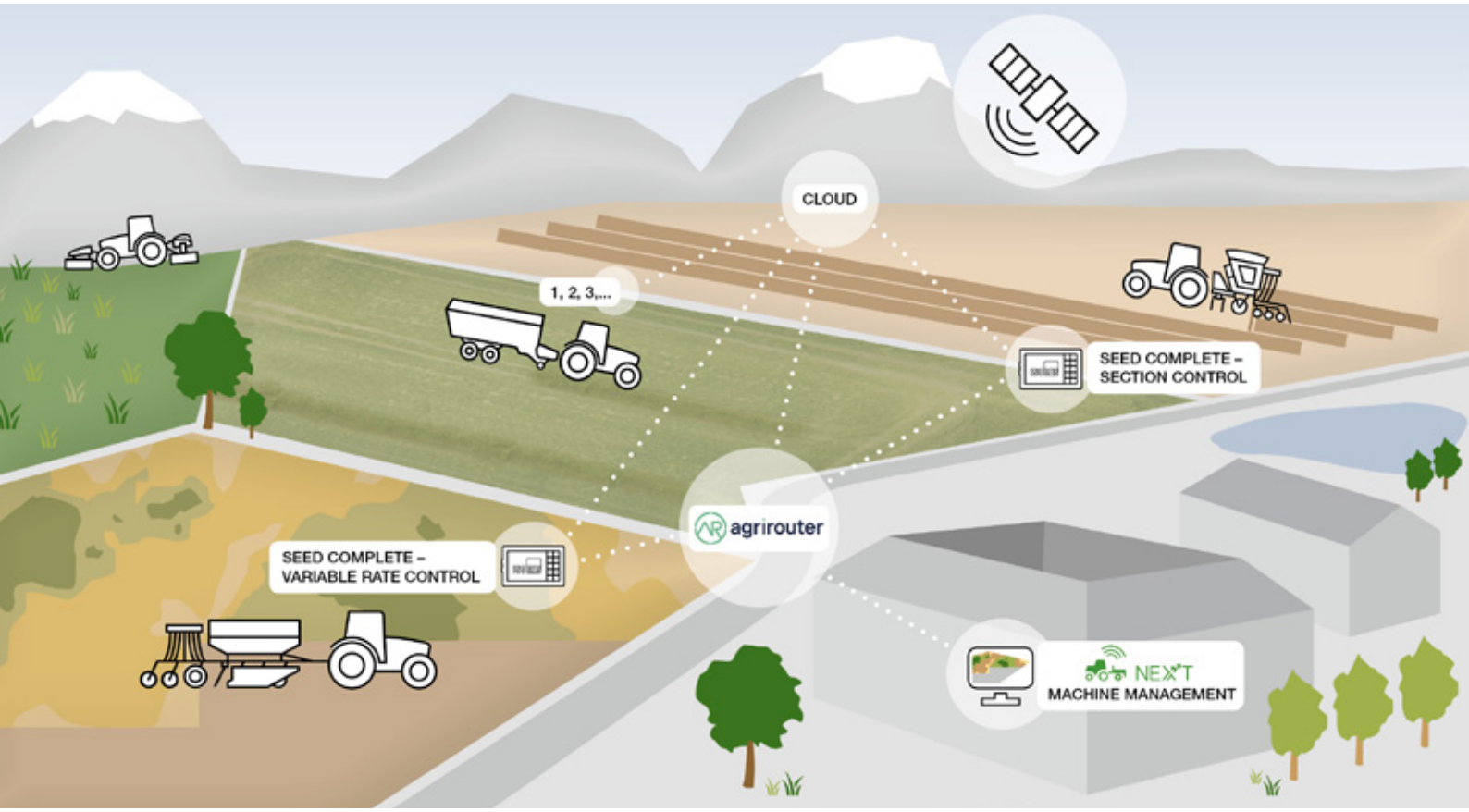
Section Control and Variable Rate Control are available as standard to help operate precisely and efficiently even on long working days. Section Control provides automatic switching over the entire machine width. In combination with a full IDS and a multi-boom capable terminal, automatic half width switching is available. This makes sure that each pass merges tidily, especially at the headland.

Site-specific drilling

With Variable Rate Control, the seed flow rate is adjusted to the site-specific conditions using previously created application maps. The AEROSEM VT is able to control both metering systems independently of each other with two different application cards.

Site-specific drilling allows seed and fertiliser to be applied according to changing soil conditions. This ensures that all your fields achieve their optimum yield potential.

Our input – your output.



Competence in the digital field makes your daily work easier

At PÖTTINGER, we offer you numerous possibilities in the field of digital agricultural technology that make your everyday work easier so that you can operate more efficiently and conveniently.

For years, our customers have benefited from intelligent control terminals and precision farming solutions for soil and seed, grassland and harvesting technology. Together with PÖTTINGER, being a modern, networked company becomes reality.

Ultimately, it's all about making your job easier and enjoying cost effective benefits through the use of intelligent technologies.
This means more convenience, time and profit.

AEROSEM – electric metering and control functions

- Pre-metering
- Electrical calibration sequence
- Infinitely adjustable seed flowrate adjustment
- Hopper level measurement
- Fan and metering shaft monitoring
- Seed library
- Seed flow sensors (optional)

Digital agricultural technology

SEED COMPLETE – Precision Farming

With SEED COMPLETE, PÖTTINGER offers a tool for your success by optimising the management of your farming operations.

This system automatically adapts the seed rate to match the soil conditions in each field using application maps that you can prepare on the office PC before heading out. To ensure traceability at a later date, the data can be archived for comparison over the long term on the office PC.

The variable seed rate is yet another way of optimising yield.

The actual quantities and areas processed in the field can be transmitted back to the PC in your office at any time.

Getting the most out of your yield potential

GPS data can be used to start and stop the metering system to avoid seed windows and overlapping.

Differences in the soil and growth rate within a field can be taken into account during drilling. Simply select the site-specific quantity of seeds per square metre to get the best yield.

Precision application of seed, fertiliser and spray leads to savings of up to 5 % on variable costs or up to € 50 per hectare.

agrirouter and NEXT Machine Management

PÖTTINGER is a member of the agrirouter programme along with many other agricultural machinery manufacturers. agrirouter serves as a manufacturer-independent data exchange platform between the farmer, machine and farm software.

NEXT Machine Management networks your PÖTTINGER machinery intelligently with the rest of your fleet. Job files, machine data and application maps, etc. can now be sent easily using the agrirouter directly between the machine and the farm management software. This reduces your daily admin workload.

Intelligent control

COMPASS CONTROL –
Electronic control system

The COMPASS CONTROL operator terminal controls and monitors the functions on mechanical AEROSEM seed drills.

- Control unit with multiple-line display and lighting
- The keys are raised and backlit
- High quality two-component casing with display and status indicator
- Calibration assistant with suggested gearing values
- Speed indicator
- Mechanical current and total hectare counter
- Operating electronic seed flow-rate control system
- Electronic tramline switching

POWER CONTROL
ISOBUS terminal

With the POWER CONTROL terminal you can control all ISOBUS-compatible PÖTTINGER machines. The functions are performed directly at the push of a button or using the touch-screen without pre-selection or an additional spool valve.

- All keys are labelled directly with the machine-specific functions to ensure intuitive operation.
- All functions can be operated ergonically with one hand without restricting the field of vision.
- The colour display provides at-a-glance information on functions and the operating status of the machine.
- Speed signal from a radar sensor or tractor signal via ISOBUS
- Operating with PCS – Precision Combi Seeding
- Enter row spacing and seed/ha or inter plant distance in seed row
- Menu guidance for calibration, tramlines and seed flowrate
- Pre-metering and stop/start metering
- Tramline switching with adjustable sequence rate
- Automatic seed flow reduction for tramlines and optional left-side switching
- Seed flow adjustment and seed library

EXPERT 75
ISOBUS terminal

The PÖTTINGER EXPERT 75 ISOBUS terminal offers high flexibility and enables professional operation of all ISOBUS-compatible machines, regardless of brand.

The newly designed terminal has been expanded upwards in terms of ergonomics and intuitiveness and offers a multitude of advantages.

- High quality 5.6" TFT colour touchscreen
- Rugged, stylish synthetic casing
- Convenient single-hand operation, grip bar for secure hold.
- Double-row arrangement of command keys on the right
- Straightforward and intuitive user interface
- Edit using keys and touch-screen
- Scroll wheel with confirmation function for direct input and adjustment of set points
- Compact size – does not obstruct field of vision
- Ambient light sensor and back-lit function keys

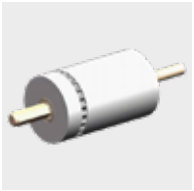
CCI 1200
ISOBUS terminal

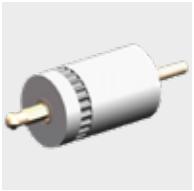
In addition to the features offered by the POWER CONTROL terminal, this system also enables the control of all ISOBUS machines in your fleet, regardless of manufacturer.

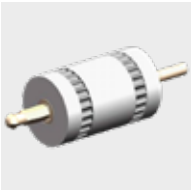
- High quality 12" TFT colour touchscreen
- Straightforward and intuitive user interface
- Horizontal or vertical mounting possible
- Large display for best possible monitoring of machine functions
- Individual layout
- Function pre-select
- Seed library
- Monitor the whole machine
- Partial width switchable using Multi Boom

Simultaneous display of multiple applications
- Camera image and machine functions at a glance
- Simultaneous operation of several ISOBUS machines possible

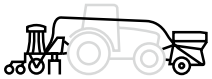
Exact metering for every type of seed





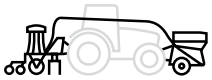


	Metering wheel 5 Poppy seed, oil seed rape	**Metering wheel 7** Oil seed rape	**Metering wheel 14** Oil seed rape, phacelia	**Metering wheel 28** Phacelia, mustard	**Metering wheel 68** Maize, sunflower
3002 A / 3002 ADD	□ / □	□ / □	□ / □	□ / □	□ / □
3502 A / 3502 ADD	□ / □	□ / □	□ / □	□ / □	□ / □
4002 A / 4002 ADD	□ / □	□ / □	□ / □	□ / □	□ / □



4002 FDD	□	□	□	□	□
5002 FDD	□	□	□	□	□
6002 FDD	□	□	□	□	□

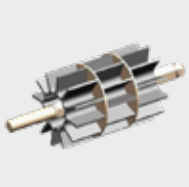
VT 5000	□	□	□	□	□



	Metering wheel 250 Hybrid cereals, wheat, rye	**Metering wheel 480** Wheat, barley, oats, rye	**Metering wheel 662** beans, peas, spelt
4002 FDD	□	□	□
5002 FDD	□	□	□
6002 FDD	□	□	□

VT 5000	□	□	□

Often ordered together

			
Metering wheel 135 Maize, sunflower	**Metering wheel 285** Hybrid cereals	**Metering wheel 550** Cereals	**Metering wheel 762** Beans, peas, spelt
□ / □	□ / □	□ / □	□ / □
□ / □	□ / □	□ / □	□ / □
□ / □	□ / □	□ / □	□ / □

Choose metering wheel using PÖTSEM

To help you find the perfect metering wheel for your seed drill, we have developed an online tool: PÖTSEM.
You can use this app to find the best metering wheel in just a few clicks.

■ = Standard, □ = Optional

Equipment options

	Seed hopper extension	Press wheels	Lighting for road transport	Hydraulic coulter pressure adjustment
3002 A	□	□	□	□
3002 ADD	□	■	□	□
3502 A	□	□	□	□
3502 ADD	□	■	□	□
4002 A	□	□	□	□
4002 ADD	□	■	□	□
4002 FDD	–	■	■	□
5002 FDD	–	■	■	□
6002 FDD	–	■	■	□
VT 5000	□	□	□	□

More equipment options

- Various metering wheels
- Scrapers for press wheels
- Scales for calibration
- Seed flow sensors
- Hydraulic coulter lift for AEROSEM FDD

Often ordered together



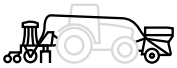



Double hopper system	IDS- INTELLIGENT DISTRIBUTION SYSTEM	PCS maize equipment	Half width switching	Partial width switching	Hydraulic coulter lifting
–	□	–	□	□	□
–	□	□	□	□	–
–	□	–	□	□	□
–	□	□	□	□	–
–	□	–	□	□	□
–	□	□	□	□	–
□	□	–	□	–	□
□	□	–	□	–	□
□	□	–	□	–	□
□	□	–	□	□	–

■ = Standard, □ = Optional

Technical data

AEROSEM A	Working width	Seed hopper volume	Volume with hopper extension	Number of seed coulters	Row spacing	Pressure per coulter
3002 A	3.00 m	1,250 l	1,800 l	24 / 20	12.5 cm / 15 cm	up to 25 kg
3002 ADD	3.00 m	1,250 l	1,800 l	24 / 20	12.5 cm / 15 cm	up to 50 kg
3502 A	3.50 m	1,250 l	1,800 l	28	12.5 cm	up to 25 kg (55.12 lbs)
3502 ADD	3.50 m	1,250 l	1,800 l	28	12.5 cm	up to 50 kg (55.12 lbs)
4002 A	4.00 m	1,250 l	1,800 l	32 / 26	12.5 cm / 15 cm	up to 25 kg
4002 ADD	4.00 m	1,250 l	1,800 l	32 / 26	12.5 cm / 15 cm	up to 50 kg



AEROSEM FDD						
4002 FDD	4.00 m	1,700 l	2,300 l	32	12.5 cm	up to 50 kg (55.12 lbs)
5002 FDD	5,00 m	1,700 l	2,300 l	40	12.5 cm	up to 50 kg (55.12 lbs)
6002 FDD	6.00 m	1,700 l	2,300 l	48	12.5 cm	up to 50 kg (55.12 lbs)

AEROSEM VT						
VT 5000 DD	5,00 m	2,800 l	–	40	12.5 cm	up to 60 kg

Coulter disc diameter	Press wheel diameter	Transport width	Filling height	Filling opening	Power requirement	Machine weight
320 mm	250 mm	3.00 m	1.96 m	2.25 m x 1.22 m	81 kW / 110 hp	1,064 kg
350 mm	330 mm	3.00 m	1.96 m	2.25 m x 1.22 m	103 kW / 140 hp	1,264 kg
320 mm	250 mm	3.50 m	1.96 m	2.25 m x 1.22 m	92 kW / 125 hp	1,167 kg
350 mm	330 mm	3.50 m	1.96 m	2.25 m x 1.22 m	121 kW / 165 hp	1,390 kg
320 mm	250 mm	4.00 m	1.96 m	2.25 m x 1.22 m	103 kW / 140 hp	1,275 kg
350 mm	330 mm	4.00 m	1.96 m	2.25 m x 1.22 m	140 kW / 190 hp	1,541 kg
350 mm	330 mm	2,75 m	1.68 m / 1.81 m	2.28 m x 1.03 m	118 kW / 160 hp	980 kg
350 mm	330 mm	2,75 m	1.68 m / 1.81 m	2.28 m x 1.03 m	147 kW / 200 hp	1,100 kg
350 mm	330 mm	3.00 m	1.68 m / 1.81 m	2.28 m x 1.03 m	221 kW / 300 hp	1,275 kg
350 mm	330 mm	3.00 m	2.17 m	1.92 m x 1.22 m	147 kW / 200 hp	7,600 kg

MyPÖTTINGER

MyPÖTTINGER – it's easy. Anytime. Anywhere.

NEW STARTING 17/11/2021

Benefit from numerous advantages

MyPÖTTINGER is our customer portal that provides you with key information about your PÖTTINGER machines.

Get specific information and useful tips on your PÖTTINGER machines in "My machines". And find out more about the PÖTTINGER product range.

My machines

Add your PÖTTINGER machinery to "My machines" and assign a name. You will receive valuable information such as: useful tips on your machine, operating instructions, spare parts lists, maintenance information, as well as all the technical details and documentation.

Info on the product range

MyPÖTTINGER provides you with machine-specific information for all machines built starting 1997.

Scan the QR code on the machine's data plate with a smartphone or tablet or go to www.mypoettinger.com and enter the machine number from the comfort of your own home. You will immediately receive all the information on your machine, such as: instruction manuals, equipment options information, brochures, photos and videos.

ORIGINAL PARTS

CLASSIC

DURASTAR

DURASTAR PLUS

Rely on the original

PÖTTINGER Original Parts meet the highest demands in terms of functionality, reliability and performance. These are characteristics that PÖTTINGER is committed to delivering.

That is why we manufacture PÖTTINGER Original Parts from the highest quality materials. We ideally match each individual spare part and wear part to your machinery's overall system. This is because different soil and operating conditions often need to be taken into consideration.

He have been listening to our customers and now offer three different lines - CLASSIC, DURASTAR and DURASTAR PLUS - to make sure you have the right part to meet every requirement. Original parts are worth every cent, because know-how cannot be copied.

Your advantages

- Immediate and long-term availability.
- Maximum durability thanks to innovative production processes and the use of the highest quality materials.
- Avoidance of malfunctions due to a perfect fit.
- The best working results thanks to optimum match to the overall system of the machine.
- Save time and costs thanks to longer replacement intervals on wear parts.
- Comprehensive quality testing.
- Ongoing advancement through research and development.
- Worldwide spare parts supply.
- Attractive, competitive prices for all spare parts.

Wear parts

The CLASSIC line is for standard duty applications. With these ORIGINAL INSIDE parts we have defined the benchmark for quality, best price/ performance ratio and reliability.

DURASTAR is the innovation on the wear components market - durable, high quality, productive and reliable.

Are you used to putting your machines to work in the most extreme conditions? Then the DURASTAR PLUS line is the right choice for you.

PÖTTINGER

More Success with PÖTTINGER

- A family-owned company since 1871
  Your reliable partner
- Specialist for arable and grassland
- Future-safe innovation for outstanding working results
- Roots in Austria - at home throughout the world

Efficient drilling for perfect crop emergence

- Flexibility that is more than worth the investment with IDS – Intelligent Distribution System.
- Uniform seed placement depth is guaranteed by precision coulter systems
- Universal applications – regardless of whether mulch or conventional drilling
- Compact and intuitive design for the highest level of user friendliness
- Cost effective, extremely versatile and convenient to operate

Ask for more information:

PÖTTINGER Landtechnik GmbH
Industriegelände 1
4710 Grieskirchen
Austria
Phone +43 7248 600-0
info@poettinger.at
www.poettinger.at

Alois PÖTTINGER UK Ltd.
15 St Marks Road, Corby
Northamptonshire,
NN18 8AN
United Kingdom
Phone + 44 1536 272 220
info@pottinger.uk
www.pottinger.uk

POETTINGER Canada Inc.
460 Rue Robinson Sud
Granby, QC, J2G 7N6
Canada
Phone +1 450 372 5595
Fax +1 866 417 1683
info@poettinger.ca
www.poettinger.ca

POETTINGER US, Inc.
393 Pilot Drive
Valparaiso, IN 46383
USA
Phone +1 219 510 5534
Fax + 1 219 707 5412
info@poettinger.us
www.poettinger.us

PÖTTINGER Australia PTY LTD
11 Efficient Drive
Truganina VIC 3029
Australia
Phone +61 3 8353 2770
info@poettinger.com.au
www.poettinger.com.au

POETTINGER Ireland Ltd.
Glenaleamy, Powerstown Road,
Clonmel, Co. Tipperary
Ireland
Phone +353 52 6125766
info@poettinger.ie
www.poettinger.ie

Importer for New Zealand:
Origin Agroup
PO Box 673, 57 Hautapu Road
Cambridge
New Zealand
Phone +64 7 823 7582
info@originagroup.co.nz
www.originagroup.co.nz

Importer for South Africa:
VALTRAC
Cnr. Water & Buiten Street
9585 Parys
South Africa
Phone +27 56 817 7338 7308
wynn@valtrac.co.za
www.valtrac.co.za