Pneumatic implement-mounted seed drills
AEROSEM M

Cost effective, precise, efficient

97+233.EN.0726

Cost effective, precise, efficient

All information on technical data, dimensions, weights, output, etc. and the images shown, are approximate and are not binding. The machines shown do not feature country-specific equipment and may include equipment that is not supplied as standard, or is not available in all regions. Your PÖTTINGER dealership would be pleased to provide you with more information.

Efficiency with every seed. The pneumatic AEROSEM M implement-mounted seed drill is unique in combining maximum versatility with the highest output. Perfect placement of the seed is always the most important factor. This is made possible by a precision universal metering system and robust coulters. In addition to sowing cereals, this implement-mounted machine concept makes it possible to sow maize using precision seed drill technology. Extended with a pressurised double hopper system, the machine is all set for a universal range of applications.

Table of contents

The best soil

For optimum plant growth

The planting process lays the foundation for successful plant growth. There are many factors involved here. The optimum sowing time depends on the type of plant, the duration of sunshine, and temperature. These factors influence, among other things, agronomic measures and crop rotation. Decisive roles for a successful yield and high-quality harvest are played by the fertility of the soil and an optimal supply of nutrients to the plants.

The success of the combined effect of these factors is ensured by precise and uniform seed placement together with optimum covering of the seed.

Soil fertility

Soil fertility rates the suitability of the soil in a particular location for growing plants to produce the highest yield. It consists of various characteristics and is measured using the fluctuations in yield and quality at harvest.

The physical properties of the soil are characterised by its structure. The correct method of cultivation maintains and stabilises the soil structure. Plant roots in particular directly influence other factors such as nutrient balance and microbial activity.

The chemical properties are primarily determined by the pH value and the type of rock on which the soil is based. Fertilisation and a varied crop rotation can help to maintain soil fertility.

The biological properties involve organic material activity and the presence of soil life.

Plant nutrition

Most of the substances that the plant needs are provided by the reserves in the soil. However, the soil reserves can be limited, especially in terms of the nutrition provided by nitrogen, phosphorus and potassium. That is why these substances need to be replenished by fertilisation. Another aspect is that these reserves are not released indefinitely into the soil; nitrogen, in particular, can be leached away to the extent that it is no longer available to the plant. Phosphorus, on the other hand, is a soil-immobile substance. It is released during a process called chemical weathering that makes it available to the plants and their roots.

Nutrients in the soil continue to decline as a result of decades of cultivation. That is why it is a good idea to analyse the composition of the soil at regular intervals and get an idea of the supply levels in the soil, and take the necessary measures.

Yields and soil fertility can be improved by implementing a varied crop rotation and applying fertilisers and micro-granules at the time of drilling.

With the AEROSEM M, you can match the machine perfectly to your needs. The choice between a single hopper and a double hopper makes it possible to adapt to a varied crop rotation.

The partitioned seed hoppers allow two components to be transported. Using the standard hopper fitted with the PCS system, the starter fertiliser for maize can be applied at the time the seed is sown. With the double hopper version, fertiliser or a second companion component can also be applied using the single-shot method. Combined with the flexible TEGOSEM hopper, a third component can also be distributed.

This versatility provides you with the platform for healthy plant growth and consistent yields while maintaining the fertility of the soil.

Versatile and convenient operation

Matched to your farming requirements

The latest generation of the AEROSEM M offers a choice between two hopper systems. In addition to the machine with a standard hopper and the PCS system available as an option, there is now a double hopper machine featuring a pressurised hopper system. This gives you the option to choose between three different systems.

The standard hopper with injector metering system is capable of carrying up to 1850 litres of seed material with the optional hopper extension.
PRECISION COMBI SEEDING can be added to the standard hopper. This features precision metering elements that enable each maize seeds to be sown individually. The hopper is partitioned into three sections to provide the option of applying fertiliser using the distribution head.

The latest update features this well-established technology and includes a double hopper with a pressurised hopper system. This field-proven technology has been adopted from our AMICO front hopper. The system delivers the highest output with a hopper volume of 2000 litres and high flow rates. The two-section hopper allows different components of varying volumes to be mixed.

Thanks to the wide range of options, you can configure the machine to match your specific requirements. Each hopper system offers maximum flexibility, complemented by the versatile distribution head.

Maximum flexibility

The seed drills equipped with ISOBUS and the INTELLIGENT DISTRIBUTION SYSTEM tick all the boxes in terms of metering accuracy. It is possible to open up to two application maps. In addition to freely selectable tramline switching, part-width switching of the machine is also possible. This means that the resources used are applied at site-specific flowrates and are flexibly adapted to the task in hand.

For optimum reliability and maximum flexibility, the row widths can be extended using distribution head inserts, regardless of the IDS equipment level of the distribution head. The conveniently interchangeable inserts are available for different row widths and ensure that the seed is guided gently to the coulter pipes.

Convenient operation

This well-laid-out machine is designed for maximum ease of use. The working depth adjustment, the calibration system, and access to the loading platform are located on the left-hand side. This keeps set-up times to a minimum.

Thanks to the electric metering unit drive, calibration can be started easily and conveniently using the calibration button or the optional calibration terminal, preventing any calibration errors.

The distribution head is easily accessible from the loading platform. The wide hopper opening makes it easy to fill, even with big bags.

Versatile and convenient operation

Standard hopper

Standard hopper with injector metering system

The AEROSEM M has a standard seed capacity of 1250 litres. The hopper with an injector metering system can be extended by 600 litres as an option. Depending on the planting density, this high output machine can sow up to eight hectares of wheat.

The 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 seed 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.

The powerful hydraulic fan ensures reliable seed transport and draws in air from the dust-free area above the hopper.

Metering with the highest precision

The AEROSEM injector 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.

- A seed flap provides an additional level of fine adjustment depending on the size of the seed.
- The AEROSEM M is available with an electric metering unit as standard.
- The metering wheel motor has a wide speed range, so that no gears have to be preselected and site-specific sowing is no problem.

Smooth distribution

A high volume of air and low air velocity protect the seed and any dressing against damage. The combined effect of the precision metering system and the large distributor head results in uniform distribution of the seed In combination with the DUAL DISC coulter rail, the AEROSEM M offers high-precision seed placement to boost your yield and cost effectiveness.

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

Even while tramlining and when some of the coulter pipes are closed, optimum distribution across the whole width of the machine is ensured thanks to the intelligent design of the distribution head outlets. Air can escape through the closed outlets, and at the same time the seed is fed back into the flow of seed material.

It has never been so easy

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

- Calibration of the electric metering system is carried out either using the control terminal and calibration button directly on the machine, or using an optional calibration terminal.
- Practical catchment tray, which is always on-board.
- The seed flaps and calibration flaps are monitored by sensors, so any operating errors are prevented, both during operation and during the calibration process.

It couldn't be more straightforward

From filling the seed hopper to calibration and emptying the seed hopper, all tasks can be carried out on the left-hand side or at the rear of the machine. The adjustment controls are easily accessible and positioned ergonomically. Easy adjustment with everything close at hand saves time.

Versatile and convenient operation

Double hopper with pressurised hopper system

Double hopper for more versatile operation in single-shoot mode

The double hopper with pressurised hopper system meets new requirements in seed drill technology. Each side of the hopper has a separate metering unit, allowing different application media to be optimally mixed together and placed in the same seed slot (single shoot).

The agronomic advantage

- Targeted placement of fertiliser in the seed slot 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
- Sowing a companion crop

Flexible crop rotation – flexible requirements

The identical pressure in the hopper and the metering unit enables an even more reliable metering process. Seed material and fertiliser are transported reliably through the seed line, enabling even higher outputs to be achieved.

The identical pressure in both metering units means that seed materials of different sizes and qualities can be mixed together perfectly. This opens up new perspectives in crop cultivation. A mixing ratio of 1:5 is the highest achievable because the hopper fan reaches maximum speed at higher application rates.

High volume seed hopper

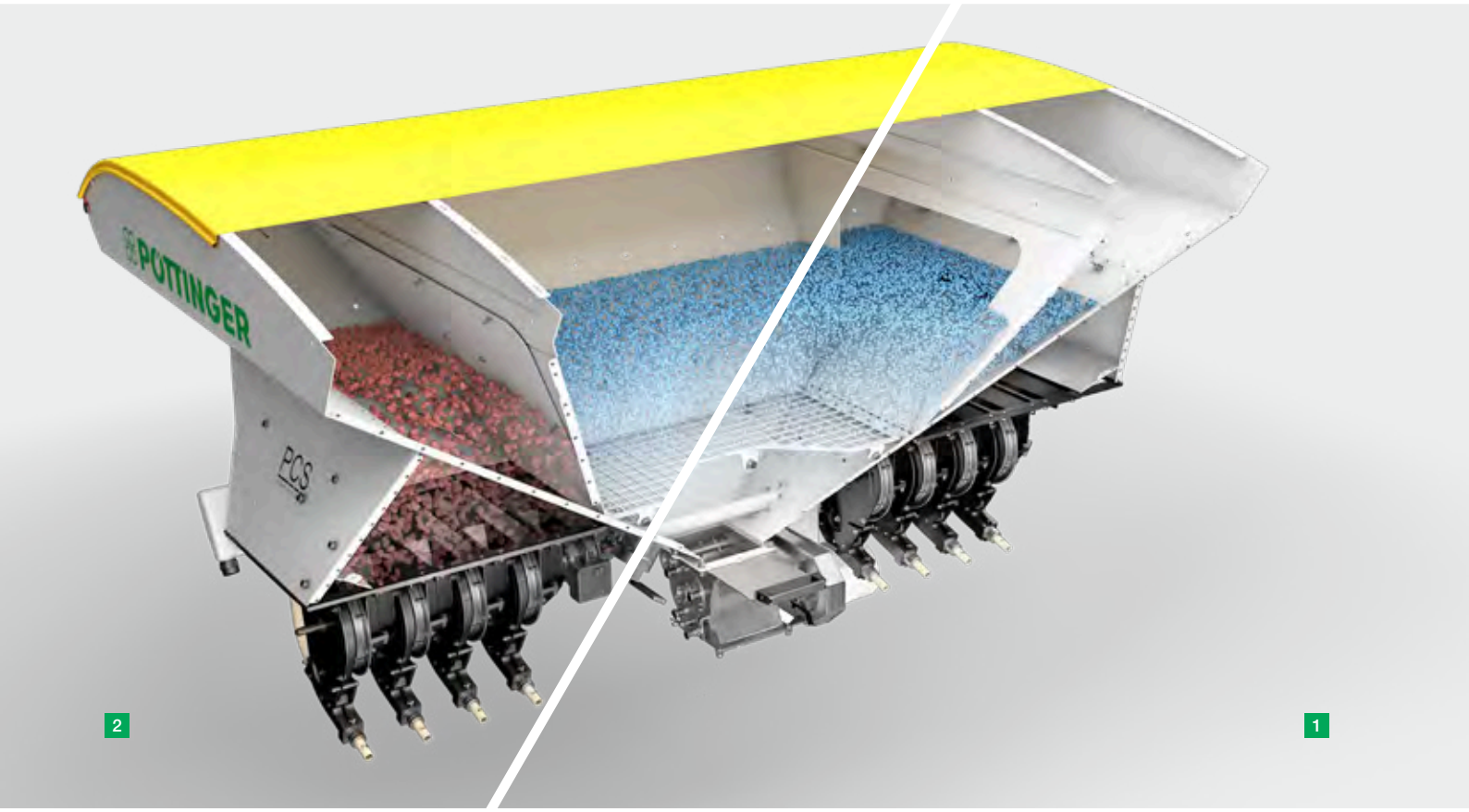
- High volume double hopper with a capacity of 2,000 litres
- Pressurised hopper system for high output rates
- Hopper partition 60:40 without central brace
- Large filling opening: 184 cm x 110 cm
- Full-length hopper cover with a wide opening angle, ideal for filling using big bags
- Can also be filled using a loader bucket if there is only one type of seed
- Recessed hopper grid fitted as standard to transport seed bags
- Level monitoring to the nearest centimetre for every section of the hopper as standard
- Emptying nozzle is above the metering units
- Lighting inside the hopper in combination with floodlights as an option
- Excellent accessibility using the loading platform

Precision metering units

- Application rates of up to 520 kg/ha at 8 kph
- Metering wheel drive with a wide speed range – no gear change needed
- Different metering wheels to cover all sowing conditions
- Straightforward calibration thanks to the calibration pan that slides in from the side beneath both metering units
- Side mountings for up to 4 metering wheels and a shut-off plate on the seed hopper
- Shut-off plate for straightforward metering wheel replacement
- Calibration made simple – all accessories are on the machine

Versatile and convenient operation

Standard hopper with PRECISION COMBI SEEDING



One hopper for all jobs

The AEROSEM M offers the option of adding separator elements to the hopper designed for drilling. This means that in addition to drilling, maize seeds can also be precision sown cost effectively.

On top of the proven features of the standard hopper, seed drills equipped with PRECISION COMBI SEEDING have two partitions inside the hopper that can be easily repositioned without the need for tools using wing nuts. This allows the hopper to be divided into three sections. This frees up the two sections for the precision metering elements.

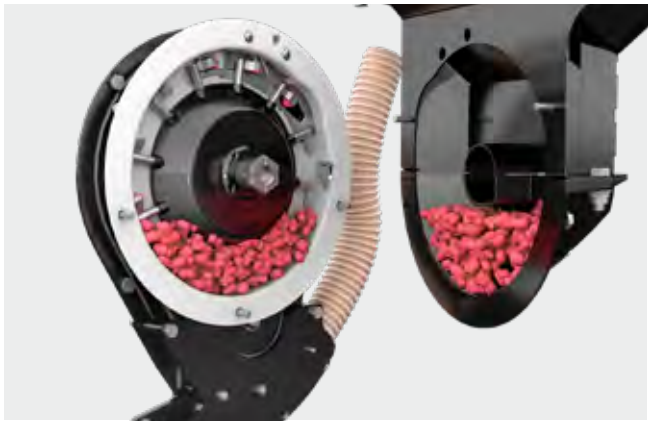
1 Partition position for drilling seed
2 Partition position for dividing the hopper into maize seed and fertiliser

Two positions for many possibilities

- The standard metering system allows fertiliser to be applied on both sides of each seed row.
- Instead of row fertilisation, for example, a companion crop can also be sown for improved erosion control
- The precision metering elements are positioned to the left and right next to the fertiliser hopper
- Seed material is reliably guided towards the precision metering elements, even with small quantities of seed, thanks to the wide, funnel-shaped outlets
- Quick handling times for filling, emptying and seed changes
- A separate level sensor for each hopper section to ensure reliability
- As standard, the hopper has a capacity of 450 litres for maize (2 x 225 litres) and 800 litres for fertiliser
- With the hopper extension there is space for 650 litres of maize (2 x 325 l) and 1200 litres of fertiliser

Versatile and convenient operation

Standard hopper with PRECISION COMBI SEEDING



Exact seed separation

The precision metering elements are located beneath the seed hopper. This hydraulically-driven system ensures exact mechanical separation. The seeds are collected in the sump and reliably separated using adjustable singulators. At the top, each seed is transferred individually to a seed elevator.

Consistent spacing in the seed slot thanks to seed elevator

The seed elevator rotates at the same speed as the separator. The matching number of cups ensures a precise supply to the air stream. That is how consistent spacing in the seed slot is ensured.

Pneumatic seed transport

An air flap divides the air stream between the injector metering system and the PCS elements. The pressurised air system conveys the seed at precise intervals from the seed elevator to the seed coulter.

A seed flow sensor in each row indicates to the driver in real time the accuracy of seed distribution in the seed slot.

- Easy adjustment of seeds per hectare
- Monitoring seed slot distribution in each row
- Recording missing and duplicate positions
- Easy singulator adjustment depending on seed size

Modified DUAL DISC coulter

The optimally modified PCS coulters perfectly embed the maize seeds in the seed slot.

- Lowest drop height thanks to dedicated coulter outlet with integrated seed slot former
- Precision placement because firming rollers stop seeds rolling along the slot
- Optimum covering of the seed with press wheel

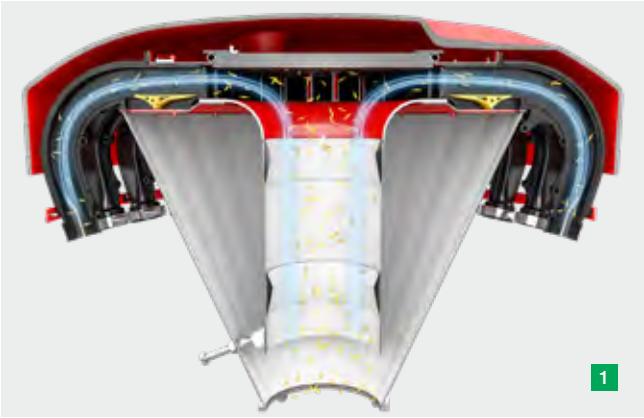
The coulter pressure of the heavier duty PCS coulters has been increased from a maximum of 60 kg to 80 kg using coulter pressure springs. These ensure optimum soil entry even in really hard conditions.

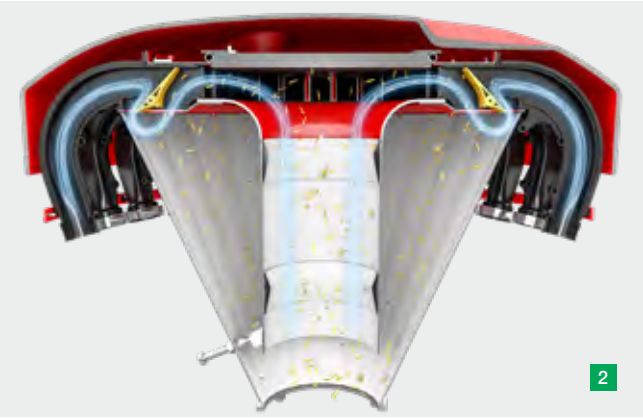
The seed slot former for maize seeds ensures a perfect seed slot. The separate seed outlet on each PCS coulter transfers the maize seed to the firming roller at the end of the seed slot former so it has the smallest possible drop height.

Each firming roller presses the maize seed down precisely as soon as it leaves the seed slot former. The rollers are made from stainless steel and are fitted with scrapers as standard to prevent clogging. The standard 50 mm-wide press wheels provide optimum depth control of the whole PCS coulter assembly. The seed placement depth can be adjusted centrally from the side of the machine.

Versatile and convenient operation

The distributor head





Reliable distribution

Uniform swirling of the seed in the riser tube, a large distribution head and symmetrical layout of the coulter pipes all have a positive effect on consistent seed distribution. On the AEROSEM M, particular attention has been paid to ensuring the distribution head is positioned to result in short hose lengths and excellent accessibility.

Straightforward tramline switching

The distribution head is equipped with a mechanically switchable flap on each outlet as standard.

The optional tramline switching system is controlled electrically by a servomotor for each row of tramlines. Setting and monitoring the tramlines is done easily using the terminal.

1 The riser tube is enclosed by a funnel on the outside and conveys the seed material through the distribution head to the outlets that are open.
2 The flaps on the tramline outlets that are closed guide the seed back into the air flow down through the funnel on the outside of the riser tube. At the same time, the air can escape through the outlets, the pressure remains constant. and the seed is optimally distributed.

With active tramline switching, the seed rate is automatically reduced. This ensures that the number of seeds distributed per area remains consistent and achieves a seed saving of up to 6%.

IDS – the intelligent heart of the system

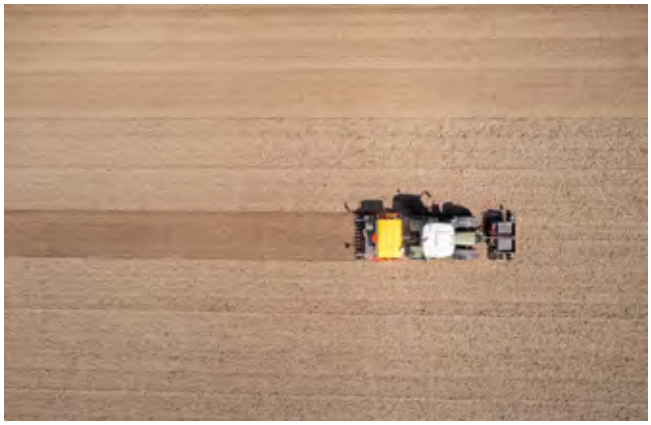
The unique IDS system (INTELLIGENT DISTRIBUTION SYSTEM) controls all outlets using the BUS system. This opens up a wide range of possibilities for switching coulter pipes and tramlines and is perfect for contract work and machinery rings.

All settings relating to tramline switching can be made easily and conveniently from the control terminal in the cab. No mechanical adjustment is required on the distribution head.

Tramline switching can be symmetrical, asymmetrical or custom. The relevant rhythm is calculated automatically once all the parameters have been entered. The tramline rhythm can be selected independently of the width of the machine.

Flexible settings

- Different tramline widths
- Different track widths
- Symmetrical, asymmetrical or individual tramline switching
- Half width switching left and right
- Partial width switching using Section Control



Distributor head inserts

- Simple extension of the row spacing using a choice of inserts
- 2-fold, 3-fold or 4-fold row spacing possible
- Efficient expansion of function to sow root crops
- Precision seed distribution with reliable air separation while maintaining germination capacity
- Recommended also on IDS distributor heads with permanent row shut-off to minimise the grain impact frequency

Seed flow sensors

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 under the distributor head, to ensures reliable application. The sensitivity can be adjusted in different stages to match the seed material. If the flow is not constant, the relevant row number is displayed on the control terminal. Furthermore, red and green LEDs indicate the status directly on the sensors.

Section Control

A separate activation is required on the machine for SECTION CONTROL.

Options without IDS distribution head:

- Drilling seed: automatic switch-off of the entire machine width using the metering unit
- Sowing maize: automatic switch-off of the PCS precision metering elements

Further options with the IDS distribution head:

- Drilling seed: automatic shut-off of different partial widths (depending on row spacing and working width)
- Sowing maize: automatic switch-off of the PCS precision metering elements across the entire machine width
- Manual half-width switching using the distribution head at the touch of a button for starting with half the machine width

Rate Control

On the AEROSEM M, site-specific sowing is possible with additional activations.

The electric metering unit with a wide speed range enables straightforward control using an application map.

- Site-specific drilling according to the application map for each metering unit
- Site-specific drilling using PCS precision metering elements

The best seed emergence

DUAL DISC double-disc coulters

For the best seed emergence

A perfectly formed seed slot is essential for optimum seed germination. The V-shaped arrangement of the DUAL DISC coulters, combined with a disc offset of 25 mm, ensures a clean seed slot and the best conditions for the seed material.

Thanks to the large coulters and the equal-length coulter arms with a coulter offset of 30 cm, the DUAL DISC coulter system ensures maximum reliability, even with high volumes of harvest residues.

"The coulter offset is 30 cm. This is one of the higher values compared to the competition. Even with the row spacing of 12.5 cm and very adverse drilling conditions in late autumn, the sticky loam ran through the machine without any problems. This is a great coulter system"

TOP AGRAR | Germany | Test report 2024

DUAL DISC double-disc coulters

The DUAL DISC double disc coulter system ensures precise seed placement even in the most difficult conditions. With up to 60 kg applied to each coulter, they reliably cut through the soil even at high driving speeds. The V-shaped seed slot prevents the seed from rolling.

Your advantages:

- Highest clearance thanks to 30 cm coulter offset
- Reliable operation in mulch drilling conditions thanks to 350 mm diameter double-disc coulters and off-set position
- Uniform coulter pressure of up to 60 kg (PCS coulters up to 80 kg) thanks to coulter arms of equal length
- Optimum plant distribution density with a row spacing of 12.5 cm or 15 cm
- Optimum depth control thanks to large press wheels with a diameter of 330 mm and width of 50 mm
- Aluminium coulter arms that combine lightweight construction with robustness.
- Reliable operation in the most difficult conditions thanks to integrated hardened scrapers on the shares

Central coulter pressure adjustment and depth setting

On the DUAL DISC coulter system, the depth is adjusted for the entire machine centrally using a turnbuckle on the left-hand side of the machine. This is convenient to operate using a ratchet spanner, and the setting is indicated on a laser-etched scale marked in centimetres.

The DUAL DISC coulter system is pre-tensioned by maintenance-free rubber elements. The coulter pressure is the same on both rows of coulters, because the front and rear rows have coulter arms of the same length.

Hydraulic coulter pressure adjustment is available as an option. The coulter pressure is displayed in percent on the terminal, which allows it to be adjusted flexibly to a wide range of conditions.

Press wheels for uniform placement depth

The DUAL DISC seed coulters are guided by large 330 mm x 50 mm press wheels for a uniform placement depth. In addition to precise depth control, the press wheels also press the seed down and consolidate the soil surface.

- The placement depth is adjusted centrally using a turnbuckle on the side of the machine.
- Three additional mounting positions on the coulter allow for deeper and shallower placement depths when used in combination with the PCS system.
- Because the rims of the press wheels are harder than the centreline, they are supported on the left and right of the seed slot. The centreline of the wheel is slightly softer due to the air chamber. The seed is pressed down evenly and the press wheel is cleaned automatically by the rolling effect.
- Inclined scrapers are available as an option for sticky soils.

The best seed emergence

Seedbed preparation

Unique coupling

One of the main criteria during the development of the AEROSEM M was its compact design.

1 Mounted on a power harrow or compact combination, the centre of gravity is located close to the tractor
2 The AEROSEM M 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. This allows the power harrow or compact combination to move freely and avoid stones, for example.
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 and removing the drill using the rear roller is quick and easy, without the need for tools. Parking stands 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.

LION power harrows

Designed to withstand the toughest conditions, these machines are recognised for producing the best working results. Thanks to the configuration of the rotors, the machine actively cultivates the full working width from side board to side board. As a result, the soil is actively moved even along the outermost edge of the machine so that all the seed coulters run on prepared seedbed.

FOX compact combinations

This lightweight linkage-mounted machine is ideal for use in light to medium soils. Thanks to the scalloped discs and the large inter row spacing, the compact combination is suitable for mulch drilling conditions. Combined with a seed drill, the FOX compact combination demonstrates yet another talent.

Whether used with a power harrow or compact combination, our AEROSEM M implement-mounted seed drills deliver impressively uniform seed placement and optimal weight distribution. Optional harrow tines crumble the soil to ensure rapid covering of the seed and enable the best possible seed emergence.

Hydraulic equipment

The fan drive system requires a single-acting spool valve and a pressure-free return as standard. A load-sensing fan drive system is available as an option.

Optional hydraulic functions:

- Driveline for the PCS elements
- Working depth adjustment for seedbed preparation
- Hydraulic coulter pressure adjustment
- AEROSEM M bout markers
- Pre-emergence markers

Seed coulter harrow tines

The tangential tines are mounted on every second coulter to level the soil between the seed rows. Because it is mounted directly on the seed coulter, it ensures reliable and uncomplicated operation.

- Aggressiveness is adjusted by changing mounting position
- Mounted on an adjustable hole matrix on the seed coulter, harrow tines can be used right up to the wear limit by adjusting the mounting height

'Perfekt' harrow tines

'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.

- Mounted directly onto the seed drill frame so no pressure is taken off the coulters
- Straightforward, central tine angle adjustment via a hole matrix
- Simple adjustment of depth and pressure using two mounting positions
- Outer tines can be retracted for 3 m or 4 m transport width
- Can be removed quickly using two positioning pins

Cost effectiveness

One machine for full utilisation

Thanks to its flexible systems, the AEROSEM M achieves extremely high machine utilisation.

Because it is fitted with an IDS distribution head, it can also be used for contract work without any problems. Flexible tramline switching, half-width and section control systems offer maximum flexibility and allow for optimal adaptation to different farm structures. Furthermore, because the machine is user-friendly it can be quickly adjusted using the control terminal to match new situations.

Everything under control

Sowing accuracy is essential for optimum crop growth and high yields at harvest time. The reliable, universal metering unit has a wide range of speeds and enables precise adjustments to be made to the seed application rate. Additional sensors on the seed flap and metering shaft reliably keep track of the drilling process.

Seed flow sensors at the distributor head and on the PCS coulters ensure full control over each seed coulter. At the same time, level sensors provide real-time information about the remaining quantity of seed material in the hopper. The hydraulic coulter pressure is displayed as a percentage on the terminal and allows you to react to changing conditions in just a few seconds. This way, you have everything under control.

Optimal sowing accuracy and perfect control further increase harvest yields and, as a result, the cost effectiveness of the machine.

For optimum yields

Thanks to its two-section hopper design, the AEROSEM M enables the simultaneous application of fertiliser or a companion crop. If a TEGOSEM flexible hopper is also installed, a total of three components can be distributed. This reduces the number of passes in the field and saves time.

Depositing fertiliser at the same time as planting the seed provides the crop with optimal support during the early stages of its growth. Applying direct fertilisation or micro-granules promotes root development, which improves resistance to drought and encourages rapid germination. This helps to speed up row integration, which in turn suppresses weeds more effectively and gives the crop a head-start.

Depositing insecticides in the form of soil granules directly into the seed slot also offers the advantage of targeted application directly in the place where they are most effective.

In addition to promoting plant growth early on, planting companion crops can also bring advantages for the crop and the sustainability of the field. For one thing, it provides effective protection against erosion. This ensures that, even during heavy rainfall, the soil and any inputs remain in place and are not washed away.

On top of that, a companion crop that quickly covers the ground can act as competition for unwanted weeds, which reduces the need for herbicides. Furthermore, choosing the right companion plants can release nutrients into the soil and promote the spread of mycorrhizal fungi through their diverse and extensive root systems. These have a positive effect on the supply of water and nutrients to the crop plants.

Matched to your on-site conditions, the AEROSEM M is an extremely cost effective seed combination.

Cost effectiveness

PRECISION COMBI SEEDING

Precision sowing with three different row spacings

There is a choice of systems for giving our crops the best start. The AEROSEM M equipped with PRECISION COMBI SEEDING (PCS) offers the option of sowing individual maize seeds in addition to drilling. Thanks to its increased versatility, the AEROSEM M is an extremely cost effective way to sow maize.

The PCS system is available in three different versions:

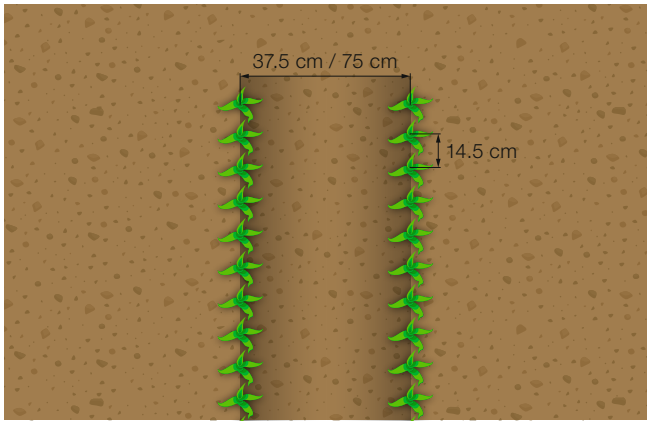
- Row spacing 37.5 cm
- Row spacing 75 cm
- DUPLEX SEED with double row spacing 75 cm

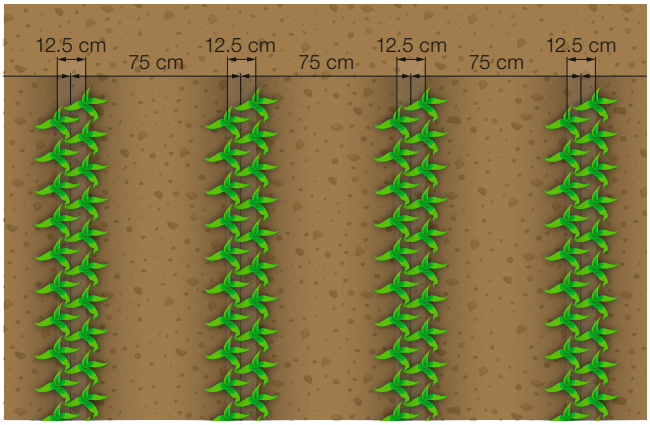
On all three versions it is possible to apply fertiliser or sow a companion crop between the maize rows at the same time.

A wide choice of distributor head inserts allows fertiliser to be added to the left and right of the maize regardless of the row spacing. Additional mountings on the press wheels allow the fertiliser to be deposited deeper.

It is also possible to deposit fertiliser, soil nutrients, and biostimulants directly into the maize rows. Different distributor head inserts are provided for this purpose in order to avoid increased seed material abrasion.

Companion crop seeds, nutrients, insecticides, etc. can be applied using all of the free seed lines between the maize rows using the individual flap positions on the distributor head.





Sowing maize with a row spacing of 75 cm or 37.5 cm

Conventional row seeding is suitable for sites that are less prone to erosion. Different row spacings specifically target yield increases in corn maize and silage maize. Row spacing of 75 cm is particularly suitable for corn maize farms. In addition, a row spacing of 37.5 cm is offered due to the agronomic advantages for farms growing maize for silage and biogas.

- Doubling the longitudinal spacing when the seeds are divided into two rows maize to give the individual plants more space
- Better utilisation of available water capacities
- Prevention of evaporation due to faster row integration
- Optional tramline switching means that crop care access is possible without damaging the plants, even with narrow row spacing.
- Symmetrical row layout with a row spacing of 37.5 cm
- Asymmetrical row layout with a row spacing of 75 cm

DUPLEX SEED – sowing maize in double rows

The DUPLEX SEED system uses a row spacing of 75 cm between each double row. The spacing within the double row is 12.5 cm, which provides the advantages of narrower row spacing. Thanks to the dense canopy formed by the plants, this system is suitable for both grain maize and silage maize and is useful for mixed farms.

- 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
- DUPLEX SEED can prevent water erosion due to faster row integration compared to conventional single row drilling
- Optional tramline switching makes it possible to shut off up to four rows of maize for crop care and organic fertiliser machines, including those fitted with larger tyres.
- Symmetrical row layout using 75 cm DUPLEX SEED

Pneumatic implement-mounted seed drills

Pneumatic implement-mounted seed drills

AEROSEM M 3000 DD, AEROSEM M 3500 DD, AEROSEM M 4000 DD

1 Seed hopper

- Standard hopper 1250 l capacity
- With hopper extension 1850 l
- Standard hopper with PCS system: 450 l maize / 800 l fertiliser
- Standard hopper with PCS system and hopper extension: 650 l maize / 1200 l fertiliser
- Double hopper with 60:40 partition: 2000 l

2 Metering system

- Standard hopper with injector metering system
- Electric metering drive as standard
- Optional PCS precision sowing units for maize

- Pressurised hopper system with two metering units
- Electric drive as standard
- Single shoot system as standard
- Designed for the highest capacities

3 Distribution head

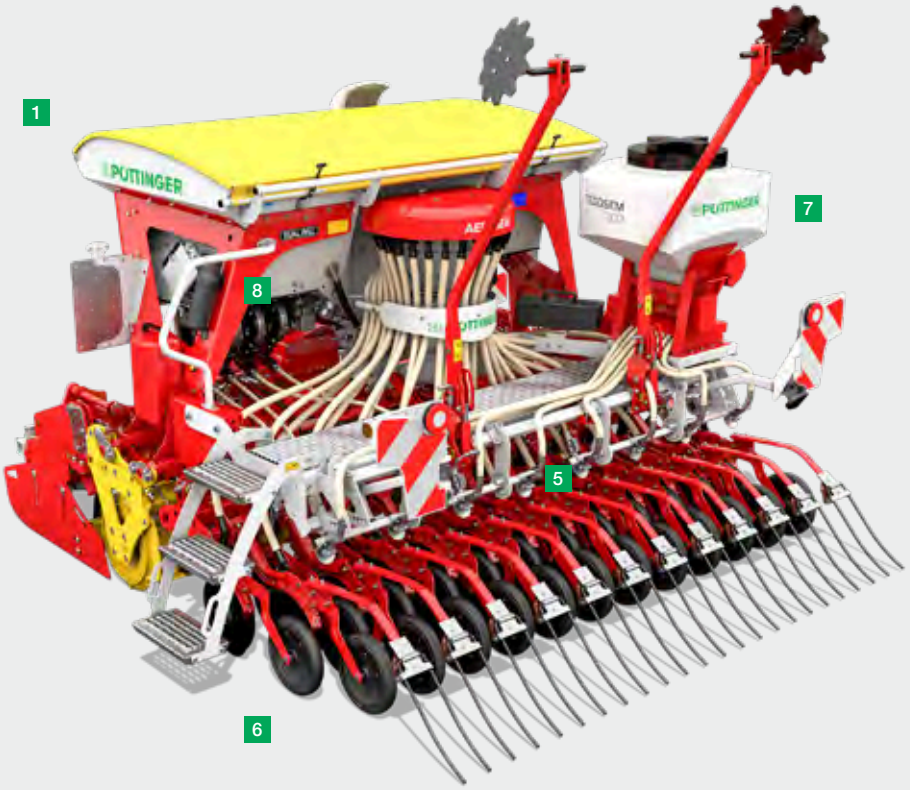
With the large diameter distribution head combined with similar length seed lines, uniform seed distribution is ensured across the entire working width.

- Uniform distribution for the highest precision
- Tramline rhythms can be selected independently of the seed drill width with the full IDS system

4 Tillage

The AEROSEM M can be mounted on PÖTTINGER power harrows or compact combinations. The intuitive mounting configuration allows the seedbed preparation unit to move freely, while the seed drill remains securely fixed to the rear roller.

- LION power harrows create a fine, crumbly seedbed
- FOX compact combinations allow for high driving speeds



5 Coulter pressure

The coulter pressure needs to be easy to adjust in order to ensure successful sowing in all conditions across a wide variety of arable regions.

- Coulter pressure up to 60 kg
- Adjusted using a central turnbuckle as standard
- Optional hydraulic coulter pressure adjustment with percentage display on the terminal

6 Coulter rail

The DUAL DISC coulter rail with double disc coulters has proven its worth over the years and is integrated into this system. A narrow seed slot ensures reliable emergence.

- Working width of 3 m, 3.5 m or 4 m
- Double disc coulters with a diameter of 350 mm
- Row spacing of 12.5 cm or 15 cm
- Coulter offset 30 cm

7 TEGOSEM

In addition to the distributing seed, the flexible TEGOSEM hopper can also be used to distribute another component. This could be a companion crop, or fine seed material for a cover crop mixture. Two metering shafts of different sizes are fitted as standard to enable precise metering of the seed material, even at low application rates.

- Applying an additional component
- Reliable metering
- Easy to operate using a separate terminal

8 PRECISION COMBI SEEDING

- Increased machine utilisation thanks to integrated precision metering elements
- Reliable seed placement thanks to modified DUAL DISC coulters with seed slot formers
- Higher coulter pressure of to up to 80 kg
- Easy calibration using the control terminal

Compatible products

TEGOSEM

TEGOSEM 200

The flexible TEGOSEM hopper can be used to distribute another component. This could be a companion crop, or fine seed material for a cover crop mixture. Two metering shafts of different sizes are fitted as standard to enable precise metering of the seed material, even at low application rates.

Depending on the hopper system, the AEROSEM M offers the option of applying one or two components simultaneously. Extending the equipment configuration with a TEGOSEM makes the range of applications more flexible. In addition to simultaneous sowing and fertilisation, it is possible to distribute seed material for a companion crop on the surface.

Intelligent systems

The flexible TEGOSEM hopper with a capacity of 200 litres is equipped with an adaptable metering shaft, which is electrically controlled depending on the driving speed, and switches off automatically at the headland.

Conveying the material to the distribution system is done pneumatically through hoses. At the distribution system, the material is distributed evenly over the soil by the distribution plates.

A clear and intuitive control terminal is available for operating the flexible TEGOSEM hopper. This is used to optimise the settings according to the operating conditions.

Precision metering

With the flexible TEGOSEM hopper, the application materials are metered and distributed uniformly. Two different sizes of metering shaft are provided as standard to ensure precision distribution of the seed material using fine or coarse metering, even at low application rates. Changing shafts is quick and easy without the need for tools. Before starting work, the system is optimised using a calibration test. The calibration bag is provided as standard equipment.

Reliable transport

The fan is driven by an electric motor, depending on the distance that the seed material needs to be conveyed. This provides a continuous flow over the entire length of the eight spiral hoses for reliable transport to the point of application without clogging the hose.

Surface distribution

Surface application and distribution is carried out by distribution plates close to the ground. This makes full surface application possible regardless of the wind conditions. The distribution plates are adjusted by changing the shaft angle to vary the distribution range.

The shaft with the distribution plates is positioned in front of the levelling tines. This position ensures that the seed is covered immediately. Soil contact is established and capillary action for successful seed emergence starts straight away.

Simple operation

The TEGOSEM is operated from the driver's seat using a convenient control terminal to regulate the flow of seed material. The signals required are provided by the tractor, or by additional sensors. For increased convenience, the flexible TEGOSEM hopper is equipped with additional features, including a level sensor.

- Output rate is set electronically
- Metering shaft control and monitoring
- Priming function
- Headland management

Digital agricultural machinery

Operation

Section control, Variable Rate Control and GPS tramline switching

Section Control, Variable Rate Control, and GPS tramline switching are available as options to help operate precisely and efficiently even on long working days.

In addition to automatic shutdown of the entire machine width, Section Control also includes partial-width section control in combination with the full IDS equipment package.

Thanks to Rate Control, the AEROSEM M is able to control each metering unit with a separate application map. Seed and fertiliser can be applied to suit the conditions.

Thanks to the GPS tramline switching function, the machine automatically recognises when a tramline should be created and controls the distribution head accordingly.

Optional calibration terminal

The optional terminal with assigned function keys and a 4.3" colour touch display is mounted in the protected area on the left-hand side of the machine. Several machine functions can be carried out using the external control terminal.

- The terminal is able to perform the complete calibration process.
- Seed allocation and the relevant settings, such as application rate, recommended metering wheel, etc., can be organised using the seed library.
- From the start screen, the work area lighting and hopper lights can be switched on and off.
- When the fan is active, the delay time can be determined using the calibration button.

The external control terminal can be activated either using a separate soft key on the tractor terminal or using the calibration switch on the external control terminal. Once calibration has been successfully completed, control can simply be transferred back to the tractor terminal.

POWER CONTROL – electronic control system

With the POWER CONTROL terminal you can operate all ISOBUS-compatible PÖTTINGER machines. The most important feature is the keys that are printed with the relevant machine functions to ensure intuitive operation for both experienced and newbie drivers. More functions can be controlled and user inputs made using the 5" colour touch display. Optimised for day and night operation, the display also provides clear information on the operating status of the machine.

- Speed signal from the radar sensor, ISOBUS or signal socket
- Control of PCS – PRECISION COMBI SEEDING
- Enter the number of seeds per hectare or the spacing in the seed slot; no calibration of the PCS system is required
- Menu guidance for the seed library, calibration process, tramline switching and IDS settings are displayed on the touchscreen
- Tramline switching with adjustable sequence rate

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

This terminal is the ultimate everyday tool because it can be used to operate equipment regardless of the manufacturer, with the option of applying section control, rate control and tramline control. With up to 254 possible sections, four application maps and the simultaneous operation of two ISOBUS-compatible machines, this terminal is our top model.

- High quality 12" TFT colour touchscreen
- Straightforward and intuitive user interface
- Horizontal or vertical mounting possible
- Large view for best possible monitoring of machine functions
- Customisable layout
- Function pre-select
- Complete supervision of machinery
- Section Control licence available as an option
- Rate Control licence available as an option
- GPS tramline switching licence available as an option

Digital agricultural machinery

Data transfer using agrirouter

Manufacturer-independent, wireless data exchange

The agrirouter was developed by DKE-Data GmbH & Co. KG, working together closely with leading agricultural machinery manufacturers like PÖTTINGER. The objective was to create a platform for exchanging data between machines and farm management software. agrirouter is the result. agrirouter is a web-based, manufacturer-independent data platform that enables the exchange of data between machines, farm software and digital apps provided by different manufacturers.

The advantages of the agrirouter

Using the agrirouter offers many advantages for farm businesses. These include manufacturer-independent data exchange, greater efficiency in farm management, process optimisation, and easy-to-use digital documentation.

Data security and transparency

agrirouter displays data to support decision making. Farmers and contractors can choose which data is forwarded to each application.

We are ready for agrirouter

PÖTTINGER provides the capability of transmitting ISOBUS-compliant machine data to the agrirouter.

In addition to seed drills such as VITASEM, AEROSEM and TERRASEM, the machines covered also include rotor loader wagons, round balers, rakes and mowers. Compatible machines are always recognisable by the “ready for agrirouter” sticker.

PÖTTINGER customers can use the agrirouter to send job data from field indexing software or application maps, directly to their CCI 1200 terminal or to PÖTTINGER CONNECT, and save and display data relating to silage bales, for example, on their farm management system.

This QR code takes you directly to the applications.

Digital agricultural machinery

METERING WHEEL ASSIST and TRAMLINE ASSIST

METERING WHEEL ASSIST – for optimum metering wheel selection

PÖTTINGER has developed METERING WHEEL ASSIST to make it easier to choose the right metering wheel. It is the perfect assistant for pneumatic seed drills with electric metering.

From experience we know that sowing is influenced by many different factors (e.g.: different site conditions, type of seed material, basic machine settings, and many more), which is why in practice, the efficiency of metering wheels can deviate from the theoretical best choice. Our latest feedback from the field is always used to keep the assistant up to date.

Machine selection

In the first step you can choose your machine. All machine models are shown here.

- AEROSEM M pneumatic implement mounted seed drills
- AEROSEM F pneumatic front hopper seed drills
- AEROSEM VT trailed pneumatic seed drill combinations
- TERRASEM pneumatic universal seed drill technology
- AMICO F hopper

Choose metering wheel

In the next step you can choose your drilling speed. Next, select the seed type or fertiliser. Now set the required application rate.

The suggested metering wheel is then displayed. A distinction is made between three categories:

- Optimum metering wheel (green)
- Possible metering wheel (orange)
- Unsuitable metering wheel (grey)

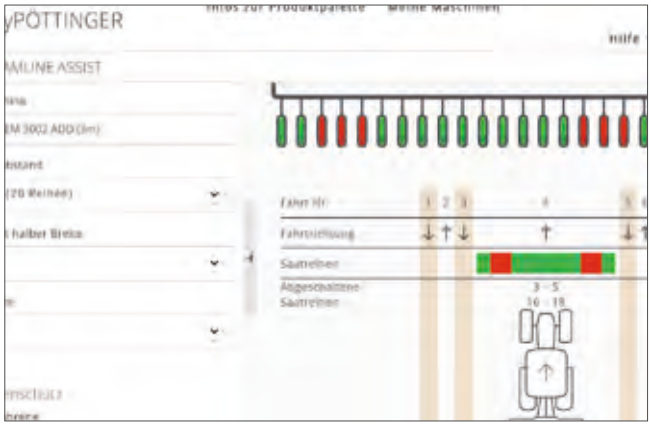
If several optimum metering wheels are displayed for the same seed type, it is generally the smaller metering wheel that needs to be used.

This QR code takes you directly to the application.

TRAMLINE ASSIST for a perfect match

To set up an optimal tramline system, you need to coordinate your machinery. TRAMLINE ASSIST helps you to do this. When choosing your seed drill, parameters such as the working width of your crop care machines, as well as tractor track width and tyre widths are critical for optimising tramlining.

TRAMLINE ASSIST determines the tramline rhythm for you, the position of the tramlines, and the number of rows that need to be switched off. The tramline rhythm is displayed according to your settings and the coulter pipes that need to be switched off for the tramline. This ensures that the machine is factory-configured with the right track width and tyres.



Selecting machine parameters

You can select your required or existing parameters in the seed drill menu.

- Seed drill: Choose from all current mechanical and pneumatic seed drills available
- Row spacing along with number of rows
- Choose between the first row of plants with half working width, or start with full working width
- Choose which side of the crop sprayer starts first, left or right

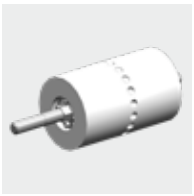
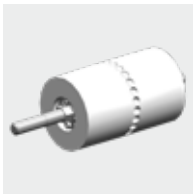
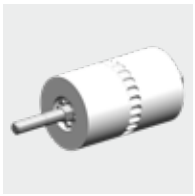
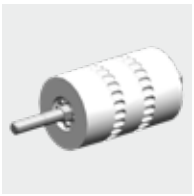
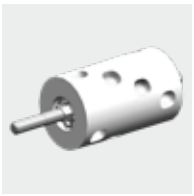
Select tramlines

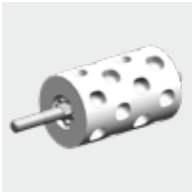
Here you select the parameters for your crop protection machinery.

For example these include the working width of the sprayer and fertiliser spreader, along with the track and tyre width of the crop care tractor. You can also define a safety distance of 0 to 5 cm between the tyre and the closest seed rows.

This QR code takes you directly to the application.

Metering wheel selection

					
	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 70** Maize, sunflower seed
Application rate / ha	1.5 kg – 3 kg	1.5 kg – 3.5 kg	3 kg – 8 kg	7 kg – 17 kg	6 kg – 20 kg
M 3000 DD	□	□	□	□	□
M 3500 DD	□	□	□	□	□
M 4000 DD	□	□	□	□	□

				
	Metering wheel 140 maize, sunflower seed, whole crop forage	**Metering wheel 290** Hybrid cereals, wheat, rye	**Metering wheel 550** Wheat, barley, oats, rye	**Metering wheel 690** Beans, peas, spelt
Application rate / ha	20 kg – 30 kg	60 kg – 80 kg	95 kg – 280 kg	270 kg – 360 kg
M 3000 DD	□	□	□	□
M 3500 DD	□	□	□	□
M 4000 DD	□	□	□	□

Equipment options

	Double hopper	PCS system	Oil cooler for PCS system	Seed hopper extension	IDS distributor head
M 3000 DD	□	□	□	□	□
M 3500 DD	□	–	–	–	□
M 4000 DD	□	□	□	□	□

	Lighting for road transport	Working lights	TEGOSEM	Hydraulic coulter pressure adjustment	Scraper for press wheels
M 3000 DD	□	□	□	□	□
M 3500 DD	□	□	□	□	□
M 4000 DD	□	□	□	□	□

More equipment options

+ Scales for calibration
+ Seed flow sensors
+ Hydraulic fan drive with load sensing
+ Radar sensor
+ Pre-emergence markers
+ Bout markers
+ 'Perfekt' harrow tines
+ Seed coulter harrow tines
+ External calibration terminal

■ = standard, □ = optional, – = not available

Technical data

AEROSEM M

	AEROSEM M 3000 DD	AEROSEM M 3500 DD	AEROSEM M 4000 DD
Working width	3 m	3.5 m	4 m
Volume of standard seed hopper	1250 l	1250 l	1250 l
Volume of standard seed hopper with extension	1850 l	1850 l	1850 l
Double hopper volume	2000 l	2000 l	2000 l
Division of double hopper (%)	60:40	60:40	60:40
Number of coulters	24 / 20	28 / 24	32 / 26
Seed row spacing	12.5 cm / 15 cm	12.5 cm / 15 cm	12.5 cm / 15 cm
Coulter pressure	up to 60 kg	up to 60 kg	up to 60 kg
Coulter disc diameter	350 mm	350 mm	350 mm
Press wheel diameter	330 mm	330 mm	330 mm
Transport width	3 m	3.5 m	4 m
Filling level standard hopper	1.96 m	1.96 m	1.96 m
Filling level double hopper	2.32 m	2.32 m	2.32 m
Filling opening standard hopper	2.25 m x 1.22 m	2.25 m x 1.22 m	2.25 m x 1.22 m
Double tank filling opening	D1: 1.21 m x 1.1 m / D2: 0.63 m x 1.1 m	D1: 1.21 m x 1.1 m / D2: 0.63 m x 1.1 m	D1: 1.21 m x 1.1 m / D2: 0.63 m x 1.1 m
Power requirement standard hopper	118 kW / 160 hp	132 kW / 180 hp	147 kW / 200 hp
Power requirement double hopper	132 kW / 180 hp	147 kW / 200 hp	177 kW / 240 hp
Machine weight standard hopper	1365 kg	1527 kg	1945 kg
Machine weight double hopper	1485 kg	1647 kg	2065 kg

MyPÖTTINGER

This QR code takes you directly to the website.

Benefit from numerous advantages

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

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 from year of build 1997 onwards.

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 the instruction manual, equipment options, brochures, photos and videos.

If you want it to last, you want the **original.**

This QR code takes you directly to the website.

PÖTTINGER
Original Parts

ORIGINAL PARTS

Regardless of whether you've got a new machine or a classic, our spare parts logistics centre stocks over 55,000 parts to give our machines an extended service life. Thanks to the many local warehouses in 13 countries and a large network of dealerships, original parts are available in over 60 countries.

Finding the right parts is easy

Our digital services are available free of charge and have largely replaced paper-based spare parts lists:

- www.mypoettinger.com provides free access to machine documentation on your smartphone and tablet.
- agroparts offers an intuitive search function to pinpoint the correct parts. This eliminates the risk of placing the wrong order.

No worries with the original

Too short, wrong hole pattern, wears out quickly? You don't get these problems with an original part.
And there are many more advantages:

- Immediate and long-term spare parts availability
- Maximum service life
- Perfect fit
- Attractive and competitive prices

PÖTTINGER

More success with PÖTTINGER

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

Sowing with efficiency and precision for perfect emergence

- Flexibility that is more than worth the investment with IDS, the INTELLIGENT DISTRIBUTION SYSTEM
- Consistent seed placement depth thanks to precise coulter systems
- Universal applications, regardless of whether mulch drilling or conventional drilling
- Compact and intuitive design for the highest level of user friendliness
- Cost effective, extremely versatile and convenient to operate
- Sowing maize with precision seed placement using PRECISION COMBI SEEDING

Ask for more information:

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

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

POETTINGER 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

Your local
PÖTTINGER partner

AEROSEM M EN 0626