

# Conserves the soil, compact and manoeuvrable



# Conserves the soil, compact and manoeuvrable



# **AEROSEM VT**

The new AEROSEM seed drill concept combined with active tillage from PÖTTINGER combines high output performance with flexibility. Soil conservation and perfect placement of the seed are the most important factors. We guarantee this with our precision universal metering system and ingenious, robust coulters. The newly developed trailed power harrow and seed drill system also offers us the possibility of sowing a mixture of components at the same time.

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# Best soil - best seed



# 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.

# Trailed pneumatic seed drill combination

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.



# Testimonial: The Langhoff Family, Stenderup, Denmark

"We chose a powerful yet simple seed drill with unique manoeuvrability. The low power requirement is impressive and is reflected in the much lower fuel consumption. The power harrow does a great job on our soil, which is often very heavy. The coulter rail ensures perfect seed placement and germination of the seed. The single shoot system offers us a huge advantage because the plants get a head start with fast growth. PÖTTINGER continues to provide impressive customer service and support right down the line."

#### 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 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. 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 combination







# Conserves the soil, compact and manoeuvrable



### 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.

#### Grooved tyre packer

The full-length grooved tyre packer with 800 mm diameter wheels covers 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.

# Compact

The seed drill with pre-emergence marker measures just 7.5 metres in length, with a working width of 5 metres. By placing the seed hopper on the drawbar, the weight ratio has been optimised and a low and compact design achieved. The result: a machine that is clearly laid out.

#### 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.

# **AEROSEM VT**







#### Manoeuvrable

An extremely short design, the intelligent configuration of the seed hopper and the use of compact tractors give the seed drill excellent manoeuvrability. Even with dual wheels, it is possible to turn straight into the next pass. The shortened, low design of the hopper and the integration of the packer into the chassis ensure fast, space-saving turns at the headland.

- Mounting yoke with pivot point set further back for improved track following properties
- Lower linkage position raised at sides to allow space for the PTO shaft up to a 90° turning angle

### 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.

Because the power harrow is integrated into the support frame structure, there are fewer moving parts and you benefit from increased ease of maintenance.

# Flexible in operation



### 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 which 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. This system ensures that exactly the right flow rate of any given seed type is used, even in the most difficult operating conditions.

# 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
- Sowing a companion crop for cereals without segregation of the seed
- Planting different cover crops with different seed sizes

# **AEROSEM VT**







#### IDS distributor head

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

# 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.

# Reliable & convenient: Tramline switching

Tramline switching is performed electronically using actuator motors. Straightforward setting and monitoring functions using the terminal - no need to change hoses around.

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 switching left and right is available as standard.

# Power harrow & seed drill combination



# LION 103 C series 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 largedimensioned central gearbox and integrated tine carriers, the LION 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.

# 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.

# **AEROSEM VT**



### 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







### 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

# 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 - no gear changes necessary
- Simple metering wheel selection using the PÖTSEM App or control terminal
- Toolbox for calibration bags, weighing scales and metering wheels

# Reliable seed flow monitoring

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



# 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 double disc coulters guarantee optimum seed placement and uniform emergence.

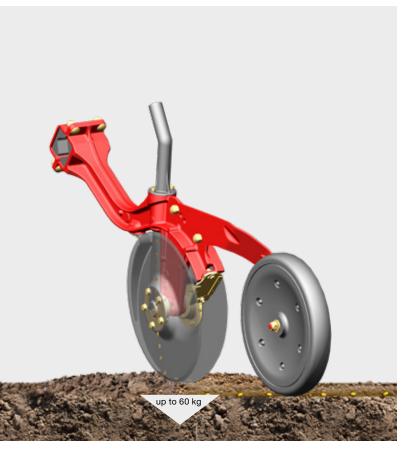
# Intelligent coulter rail docking

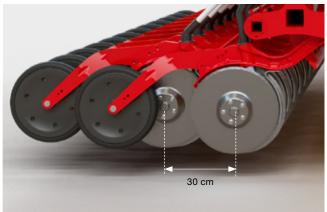
The three-section coulter rail is connected to the grooved tyre packer using a separate parallelogram. This ensures optimum contour tracking, even in the most difficult conditions.

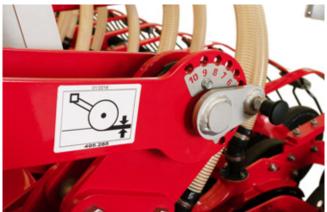
The working depth is conveniently set on each coulter rail cylinder using a lock pin system. By means of a cylinder stop, the placement depth can be selected over an adjustment range of 8 cm.

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 pressure applied to the seed coulters is automatically relieved when the fan is switched off.

# **AEROSEM**







#### **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:

- Best 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 dimensioned press wheels
- Reliable operation in the most difficult conditions thanks to integrated hardened scrapers on the shares
- Central coulter pressure adjustment
- Central depth adjustment control

# Convenient operation



### 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. By avoiding unwanted overlaps, you save resources, avoid crop growth rate differences, and prevent inconsistent crop densities. Plant disease, weeds and pest infestation are reduced.

# 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.

# Intelligent control







# POWER CONTROL ISOBUS terminal

With the POWER CONTROL terminal you can operate all ISOBUS-compatible PÖTTINGER machines. Buttons showing the machine functions make it easy to use.

The newly designed terminal has been optimised in terms of ergonomics and compactness.

- High quality 5" colour touchscreen
- Keys printed with machine functions
- Convenient one-hand operation
- Double-row arrangement of command keys on the right
- Straightforward and intuitive user interface
- Edit using keys and touchscreen
- Compact size does not obstruct field of vision
- Ambient light sensor and back-lit function keys
- Control the working depth of the power harrow

# 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 terminal has been upgraded in terms of ergonomics and intuitiveness and offers a multitude of advantages.

- High quality 5.6" TFT colour touchscreen
- Rugged, stylish synthetic casing
- Convenient one-hand operation
- 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
- Monitor the whole machine
- Multi-boom compatible terminal
- Section Control and Variable Rate Control as part of SEED COMPLETE package

Simultaneous display of multiple applications

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

# All the advantages at a glance



#### Mounting

A mounting yoke shifted further back with Cat III lower linkage guarantees tight turning manoeuvrability. The lower linkages are raised at the side to provide plenty of space for the PTO shaft.

- Turning angle of up to 90° possible
- No collision with PTO shaft

#### Metering system

Pressurised hopper metering has become standard on the AEROSEM VT. Two metering units with electric drives ensure maximum flexibility. Convenient side access saves time for calibration.

- Single shoot ready
- Designed for the highest capacities

#### Seed hopper

The low and compact seed hopper is divided 50:50 along the centreline.

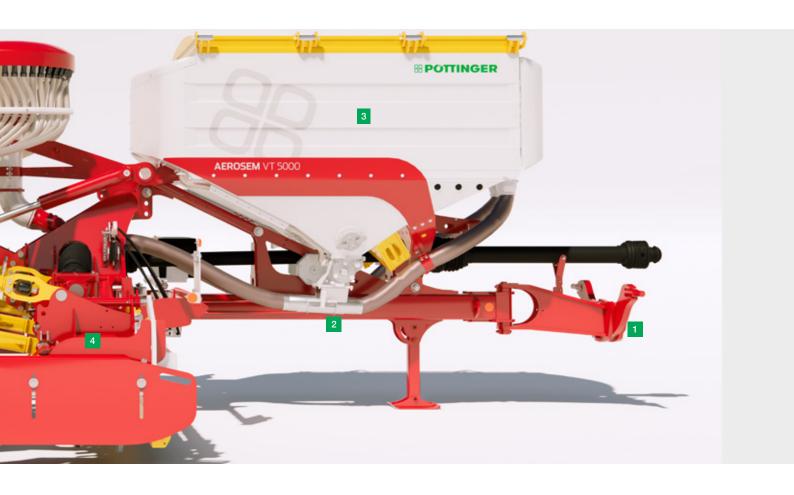
- 2,800 litres capacity
- Filling height of 2.17 m

#### Power harrow

The LION 103 C creates a fine seedbed to meet the highest specifications.

- Folded in two sections with an upwards freedom of movement of 15 cm
- Integrated pressure accumulators guarantee uniform working depth
- Hydraulic working depth adjustment

# AEROSEM VT trailed pneumatic seed drill combination



#### 5 Packer unit

The grooved tyre packer is also the main chassis. During operation and at the headland, the weight of the machine is supported by the full width of the packer to conserve the soil.

- No compaction at the headland
- No smearing of the soil surface
- Optimum consolidation of the seed slot
- 400/50 R 15.5 tyres with a diameter of 800 mm

#### Distributor head

The distributor head is located well forward to create very good lateral distribution. Seed lines are all similar in length for uniform seed distribution.

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

#### 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.

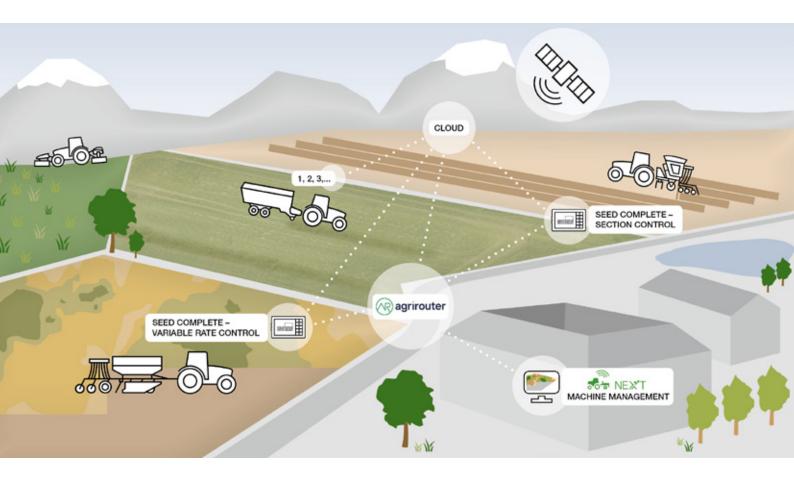
- Double disc coulters with a diameter of 350 mm
- Row spacing 12.5 cm
- Coulter offset 30 cm

#### Coulter pressure

Adjustable coulter pressure is required in order to be able to drill successfully in all conditions in a wide variety of arable farming regions.

- Consistent coulter pressure up to 60 kg
- Reliably cuts through crop residues

# 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 with Section Control and Variable Rate Control.

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.

# 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

VT 5000

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Metering wheel 135 Maize, sunflower

**Metering wheel 250** Hybrid cereals, wheat, rye

Metering wheel 480 Wheat, barley, oats, rye

Metering wheel 662 beans, peas, spelt

VT 5000

\_/\_



#### Metering wheel selection app

To help you find the perfect metering wheel for your seed drill, we have developed an app: PÖTSEM.

You can use this app to find the best metering wheel in just a few clicks.



# Equipment options











Double hopper system

TEGOSEM

Lighting for road transport

Hydraulic coulter pressure adjustment

IDS-INTELLIGENT DISTRIBUTION SYSTEM

VT 5000

П

WINDS STREET







Tramline system

Half width switching

Track eradicators

**Bout marker** 

VT 5000

#### More equipment options

- Pre-emergence marker
- Rear levelling board
- Various metering wheels
- Scrapers for press wheels
- Scales for calibration
- Seed flow sensors



# Technical data

AEROSEM Model	VT 5000
Working width	5,00 m
Seed hopper volume	2,800
Hopper partition	50:50
Filling height	2.17 m
Filling opening	1.22 x 1.92 m
Number of coulters	40
Seed row spacing	12.5 cm
Pressure per coulter	up to 60 kg
Coulter disc diameter	350 mm
Press wheel diameter	330 mm
Number of rotors	20
Rotor dimensions	15 x 330 mm
Number of packer tyres	10
Packer tyre dimensions	400/50 R 15.5
Packer wheel diameter	800 mm
Transport width	3.00 m
Transport height	3.00 m
Transport length <sup>1</sup>	7.20 m / 7.50 m
Power requirement kW	147 kW
Power requirement hp	200 hp
Machine weight	7,600 kg

 $<sup>^{\</sup>rm 1}\,7.20$  m with TEGOSEM; 7.50 m with pre-emergence marker

# 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 **DURA**STAR **DURA**STAR

### 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.

# **#POTTINGER**





### 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

# Conserving the soil for perfect sowing results

- Can be used flexibly on different types of soil in varying conditions
- The best seedbed preparation with the LION 103 C power harrow
- Perfect consolidation with large grooved tyre packer
- Optimum seed placement thanks to the proven AEROSEM coulter rail
- Unique ground tracking of power harrow, packer and coulter rail

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