

LION  
Power harrows

 **PÖTTINGER**

# Prepare the perfect seedbed





The rotary power harrow plays an important role in the PÖTTINGER arable farming concept. Best quality tilth and excellent mixing of the soil are highlights of PÖTTINGER power harrows. Combined with a PÖTTINGER seed drill, this machine becomes a high output and cost effective combination delivering perfect drilling results. PÖTTINGER offers tailor-made systems for every type of soil and every size of operation.

Table of contents

Prepare the perfect seedbed

Best working results	4-7
Maximum flexibility	8-11
Making your work easier	12-17
More reliability in the field	18-21

LION models

103 Classic series - lighter weight power harrows up to 140 hp	22-25
103 series - robust and cost effective power harrows up to 200 hp	26-29
1002 series - professional class for the toughest demands up to 250 hp	30-33
1000 series - power harrows for high outputs up to 270 hp	34-37

Accessories / Technical data

TEGOSEM - cover crop sowing unit	38-41
The right roller for all soil types	42-45
Digital agricultural technology	46-47
Accessories	48-49
Technical data	50-51

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.





Best working results for seedbed preparation

Reducing costs in arable farming has the highest priority. Today's farmers need the right technology to provide the best conditions for germination and growth as well as rapid and uniform emergence.

A power harrow working together with a seed drill is a high output and cost effective combination for perfect sowing results.

The heart of the machine - the rotor gearbox unit

An extended service life is only possible thanks to precision machining and strong connections. At PÖTTINGER this level of high quality goes without saying.

- Thick-walled gear sump made of fine-grained steel provides smooth running and is extremely resistant to twisting.
- Large gears directly above the bearings for a secure seat on the rotor shaft
- Bearing housing welded to the central brace and bottom of trough. An exact spacing between each rotor is guaranteed as a result.
- Direct transmission of power from the gearbox to the bevel gears
- Tapered roller bearings with robust, single-piece bearing housing

Integrated tine holders

The tines on the LION power harrow guarantee effective cultivation for intensive loosening and uniform tilth.

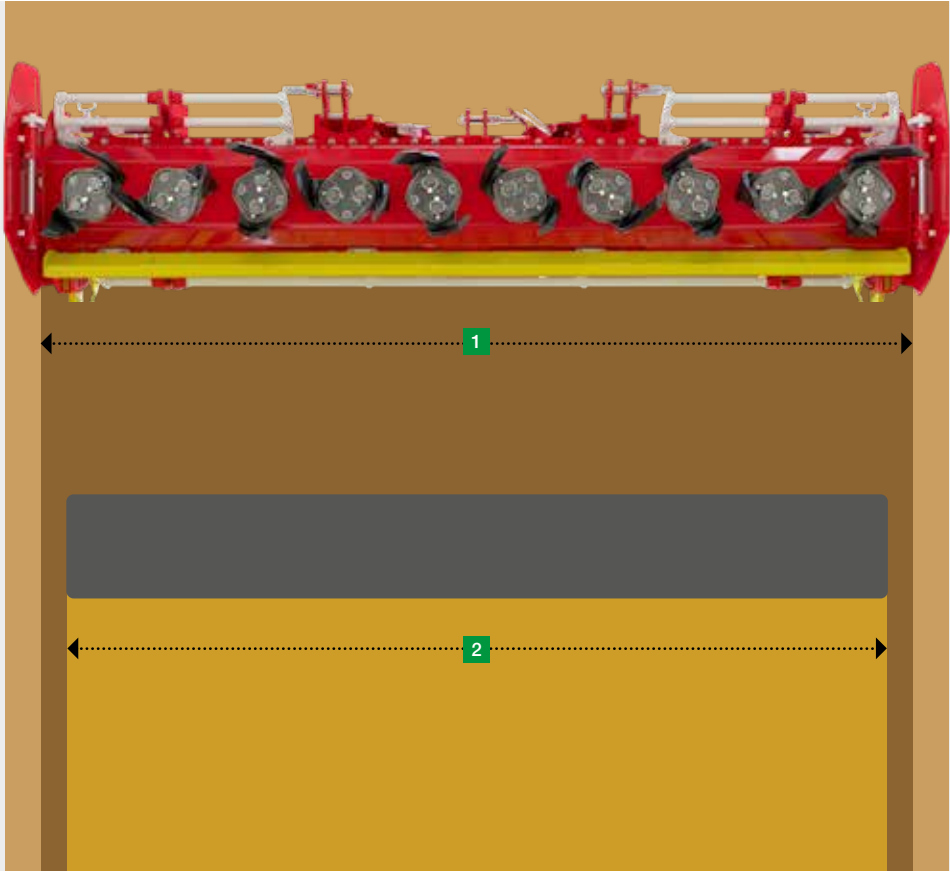
- 15 or 18 mm thick tempered tines attached centrally by just two bolts, this allows for ease of maintenance
- Bolts and lynch pin are protected from soil and from working loose
- The lower bearings are located as close as possible to the tine carrier
- The upper and lower bearings are spaced as far apart as possible to reduce load and minimise stress
- Stones cannot become trapped
- Harvest residues do not wrap around the tines

Perfect interaction between tines and levelling board

The rear levelling board is standard and is set automatically with the depth of the rear roller; no readjustment is necessary.

# Best working results

# LION power harrows



- 1 LION 3.0 metre wide power harrows  
Effective working width 2.99 m
- 2 Comparable 3.0 metre wide power harrows  
Effective working width 2.90 m

## Reliability

LION power harrows guarantee extremely smooth running and high strength. These machines operate reliably even in the hardest endurance conditions and heaviest soils.

The tines on the LION power harrow are mounted securely on the tine rotor with a large surface area of contact.

## Effectiveness over the entire working width

The specified working width is precisely maintained and cultivated with LION power harrows:

- LION 3.0 m -> 2.99 m
- LION 4.0 m -> 3.99 m

All the drill coulters are on cultivated soil - even along the outermost edge.



## Maximum strength

The high strength gear trough provides the gearbox with excellent stability.

Durability thanks to:

- Large dimension gears
- 60 mm diameter rotor shafts
- Robust tapered roller bearings and wide bearing spacing



## Precision in every detail

- The bearing housings are welded into the box section with the central brace before being machined on the CNC machining centre.
- This sequence ensures exact axle spacing between each rotor: This is the guarantee for extremely smooth running and a long service life.



## DURASTAR tines: coated and proven in the field

- Up to 60 % longer service life thanks to special coating
- 15-mm and 18-mm-thick reversible tines
- Excellent retention of shape
- Consistent work quality

**DURASTAR**



# Maximum flexibility

# LION power harrows



## Flexibility for all conditions

PÖTTINGER offers you tailor-made systems for every type of soil and every size of operation. Setting up for different soil conditions must be quick and straightforward. The LION power harrow is the right choice for you.

## Flexibility with a choice of mounting configurations

- Easy mounting on different tractors (Cat 2/Cat 3); extendible lower linkage mountings for different tyre diameters
- VITASEM and AEROSEM seed drills from PÖTTINGER can easily be fitted

### HYDROLIFT

- Hydraulic mounting system for seed drills with height and length adjustable retention hook
- Two hydraulic cylinders guarantee a maximum lifting power of up to 2.4 t for heavy mounted seed drills
- Lifting height limiter optional

## Hydraulic or mechanical - it's your choice

Choose between mechanical and hydraulic top link depending on the model of seed drill.

### Implement mounted with mechanical top link.

- The centre of gravity is in front of the rear roller - extremely close to the tractor
- The additional weight of the seed drill on the roller provides even better consolidation of the seedbed
- The gap between the coulter rail and the rear roller is minimised to form a compact unit
- The roller and seed drill form a single unit, the implement mounted drill is fixed to the rear roller on mounting pins and guided in parallel by the top link
- Consistent drilling depth even when changing the working depth of the power harrow using the rear roller

### Implement mounted with hydraulic top link

- The optional hydraulic top link on VITASEM models tilts the seed drill closer to the power harrow, making the combination even more compact
- The centre of gravity is positioned close to tractor, this is especially necessary with a full seed hopper.
- High ground clearance of drill coulters at headlands

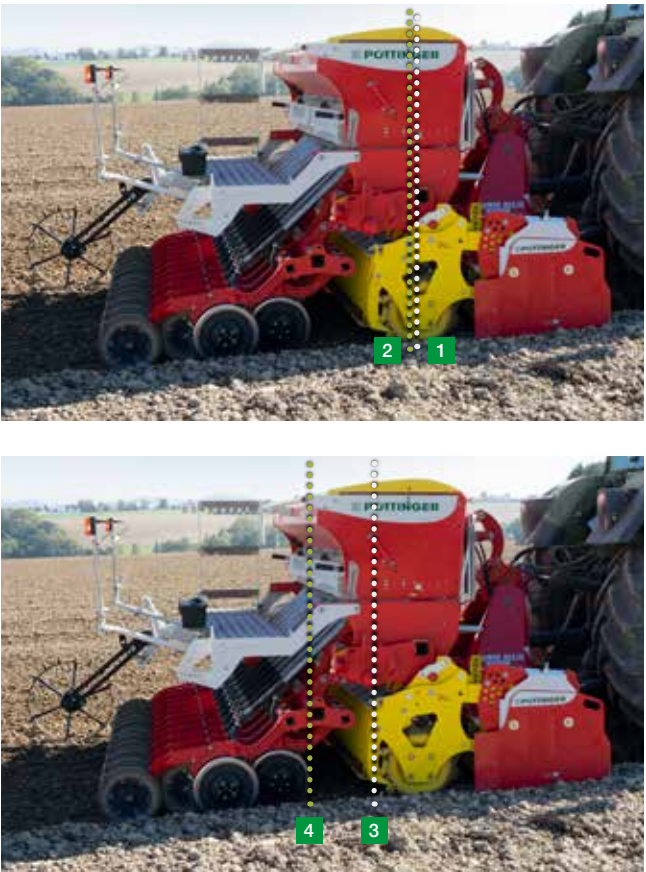


# Maximum flexibility



- 1 Compact combination - close to tractor
- 2 The weight of the seed drill is carried by the rear roller

# LION power harrows



## The LION as an all-rounder

The LION power harrow is not only impressive when operated solo but also shows its strengths in combination with all PÖTTINGER implement mounted seed drills. You can use the LION power harrow together with VITASEM, AEROSEM or TEGOSEM. Mounting and removing the drill using the rear roller is quick and easy, without the need for tools

Mounting of the seed drills on the rear roller is unique and has further advantages:

- The additional weight of the seed drill is carried entirely by the rear roller.
- The combinations units centre of gravity is located close to the tractor
- The power harrow can move up and down independently of the seed drill
- The drilling depth is not influenced by changing the working depth on the power harrow

## The best centre of gravity

The weight of the machine alone is only decisive at first glance. When the seed hopper is full, the centre of gravity situation can change quickly. That is why PÖTTINGER focussed on compact design during development. The influence of the seed hopper is relatively small in comparison. This results in a less weight off the front axle even when the seed hopper is full.

- On AEROSEM seed drills the centre of gravity lies between the power harrow beam and the rear roller.
- On VITASEM models, the centre of gravity acts on the front section of the rear roller.
- The optional hydraulic top link tilts the VITASEM implement mounted seed drill forwards at the headland. This shifts the centre of gravity even closer to the tractor.

- 1 PÖTTINGER with seed hopper empty
- 2 Comparable combinations with seed hopper empty
- 3 PÖTTINGER with seed hopper full
- 4 Comparable combinations with seed hopper full

## Focus on weight

The aim of the development was to manufacture all parts that project (far) to the rear, in particular coulters and loading platform, using special materials. PÖTTINGER uses aluminium components like the ones used in the automotive industry. These are technically advanced and have the same capability as steel.

For further weight optimisation, levelling tines can be dispensed with, depending on the type of coulters.

To make work easier for you

LION power harrows



Clever details

Quick and uncomplicated adjustment to different operating conditions is an important factor these days. PÖTTINGER power harrows provide some clever details that simplify your work day.

Setting the working depth

The working depth of the power harrow can be flexibly adjusted by simply repositioning the bolts in the hole matrix.

Automatic levelling board adjustment

The rear levelling board is standard and is set automatically with the depth of the rear roller.

- Over the full working width the levelling board is always at a consistent distance from the tines
- Perfect seedbed without re-adjustment
- The system is preset using a hole matrix bar on the side, which is easily accessible and reliable even after many years of use

Optional:

- A front levelling board in the same design as rear board
- Bout markers on the power harrow (except CLASSIC models)

Side boards

Depending on the model, LION power harrows are equipped with the right side boards to deliver tidy work within the specified working width while maintaining the necessary transport width.

LION 253 CLASSIC, LION 303 CLASSIC, LION 303.12 CLASSIC:

- Side boards can be folded upwards with easy depth adjustment using slotted holes
- Can be fixed in working position
- Can be folded up for transport
- Transport width less than 2.5 m or 3.0 m

LION 303, LION 303.12, LION 403, LION 3002, LION 4002:

- Infinitely height-adjustable using slotted holes
- Simply fold upwards for transport
- Optional: parallel linkage
- Optional: unique side board mounting, the spring remains pre-tensioned on the machine when raised so the side board can be easily folded up.

PTO shaft support for easy accessibility

The PTO shaft can be placed on a convenient fold-away support. When hitching up the LION power harrow to the tractor the PTO shaft is already positioned close to the PTO shaft stub, making it easy to couple up.



To make work easier for you



### Features with convincing arguments

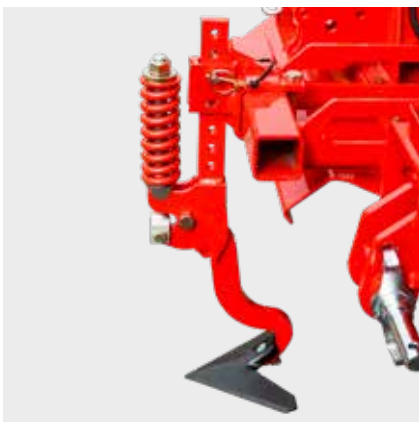
Constantly changing operating conditions make a large number of adjustment options necessary. With LION power harrows from PÖTTINGER, these adjustments can be carried out easily without the need for tools.

### Perfect mounting - low PTO shaft angle in operation

For a long service life and smooth running of the PTO shaft, it is important that the power harrow can be attached perfectly to a wide variety of tractor geometries.

- The length and width of the lower linkage mountings can be adjusted without the need for tools
- Optimum length and angle of the PTO shaft
- Ideal for machinery rings with different tractor brands

## LION power harrows



### Track eradicators

Spring-mounted track eradicators are optional on all LION power harrows. At PÖTTINGER these are spring-mounted to protect against stones and foreign objects.

- The working depth can easily be adjusted without the need for tools
- Up to 2 times per tractor tyre are possible



### Spring-protected side boards

The side board mounted on springs helps to create a clean and even seedbed in heavy and stony soils. The special feature here is that the spring remains pre-tensioned on the machine when the plates are folded upwards into the transport position.

- Optional for all LION power harrows (except the CLASSIC series)



### Bout markers

With PÖTTINGER the bout markers can be mounted either on the seed drill or the power harrow.

- Hydraulic bout markers for reliable activation also on slopes
- Hydraulic operation
- Transport interlock
- Setting the intensity of the marking
- Shear bolt as overload protection
- Optional for all LION power harrows (except the CLASSIC series)



To make work easier for you



Making work easier with technology at the highest level

Constantly changing soil conditions require changes to the tine positions. Practical experience has shown that only what can be done easily is then really done.

LION power harrows combine technology and convenience in one to deliver the best working results.

It's so easy - Quick-fix tine changes

The Quick-fix tine system provides a quick and safe solution for even more working convenience.

You can change the tines in just a few simple steps - it has never been so easy.

- 1** Remove lynch pin and lock pin
- 2** Remove tines
- 3** Fit new tines
- 4** Clamp in place - finished

LION power harrows



Universal tines for every operation

LION power harrows with 10 tines can be used both as rotary harrows and rotary cultivators. All that is needed is for the tines to be repositioned.

One shape of tine covers standard drilling, mulch drilling and direct mulch drilling.

This ensures optimum mixing and good quality tilth at seed slot level right across the entire working width.

Sweeping tine position - rotary harrow

- In this position, the tines produce a fine tilth at seed slot level.
- Finer particles of soil are concentrated at the level of the seed
  - Larger clumps and harvest residues remain on the surface
  - Protection against erosion
  - Standard for every tine thickness

Aggressive tine position - rotary cultivator

- In this position, the tines aggressively break up the soil and optimum mixing is guaranteed.
- The soil is broken up from below
  - Harvest residues are incorporated effectively
  - Only possible with 18 mm thick tines

Overview of tine configurations

	Number of rotors
<b>103 Classic series - lighter weight power harrows up to 140 hp</b> LION 253 CLASSIC / 303 CLASSIC / 303.12 CLASSIC	8 / 10 / 12
<b>103 series - robust and cost effective power harrows up to 200 hp</b> LION 303 / 303.12 - up to 180 hp LION 353.14 / 403 - up to 200 hp	10 / 12 14 / 14
<b>1002 series - professional class for the toughest demands up to 250 hp</b> LION 3002 / 4002	10 / 14
<b>1000 series - power harrows for high outputs up to 270 hp</b> LION 5000 / 6000	16 / 20



# More reliability in the field

# LION power harrows



## Kit you can rely on

LION power harrows guarantee extremely smooth running and high strength. These machines operate reliably even in the hardest of conditions and heaviest of soils.

## Proven technology

The tapered roller bearings in PÖTTINGER power harrows have been proving their strength and reliability for more than 25 years. Nowadays this technology is widely used in every type of vehicle: trucks, cars and in the construction industry.

## Rugged headstock

LION power harrows deliver the best working results with a rugged headstock and a high level of flexibility.

- Clevis type mounting lugs adjustable in width and category: CAT 2/2, CAT 3/3, CAT 3/N
- Bumpy ground between the tractor and power harrow is compensated for by the floating function of the lower linkage arms
- Depending on the tractor model, the mounting lugs can telescope out three fold to bring the power harrow as close as possible
- Additional side struts on LION 403 and 4002 models

## Smooth, quiet operation in the field

Regardless of whether it is fitted with a changeable speed gearbox, CLASSIC gearbox or manual gearbox - all LION power harrow models are smooth running during operation and at headlands.

## LION CLASSIC gearbox

- Straightforward fixed-speed gearbox up to 140 hp
- Gearbox input stub mounted far back
- Longer PTO shaft for a larger angle and smoother operation
- Long PTO shaft for smooth running
- No rear PTO shaft

## LION changeable speed gearbox

- Flexible choice of rotor speed by changing the gears
- PTO shaft at only a minimal angle with incoming gear placed well back
- Protected by a cam-type clutch
- The gearboxes are equipped with cooling fins
- Optional: rear PTO shaft

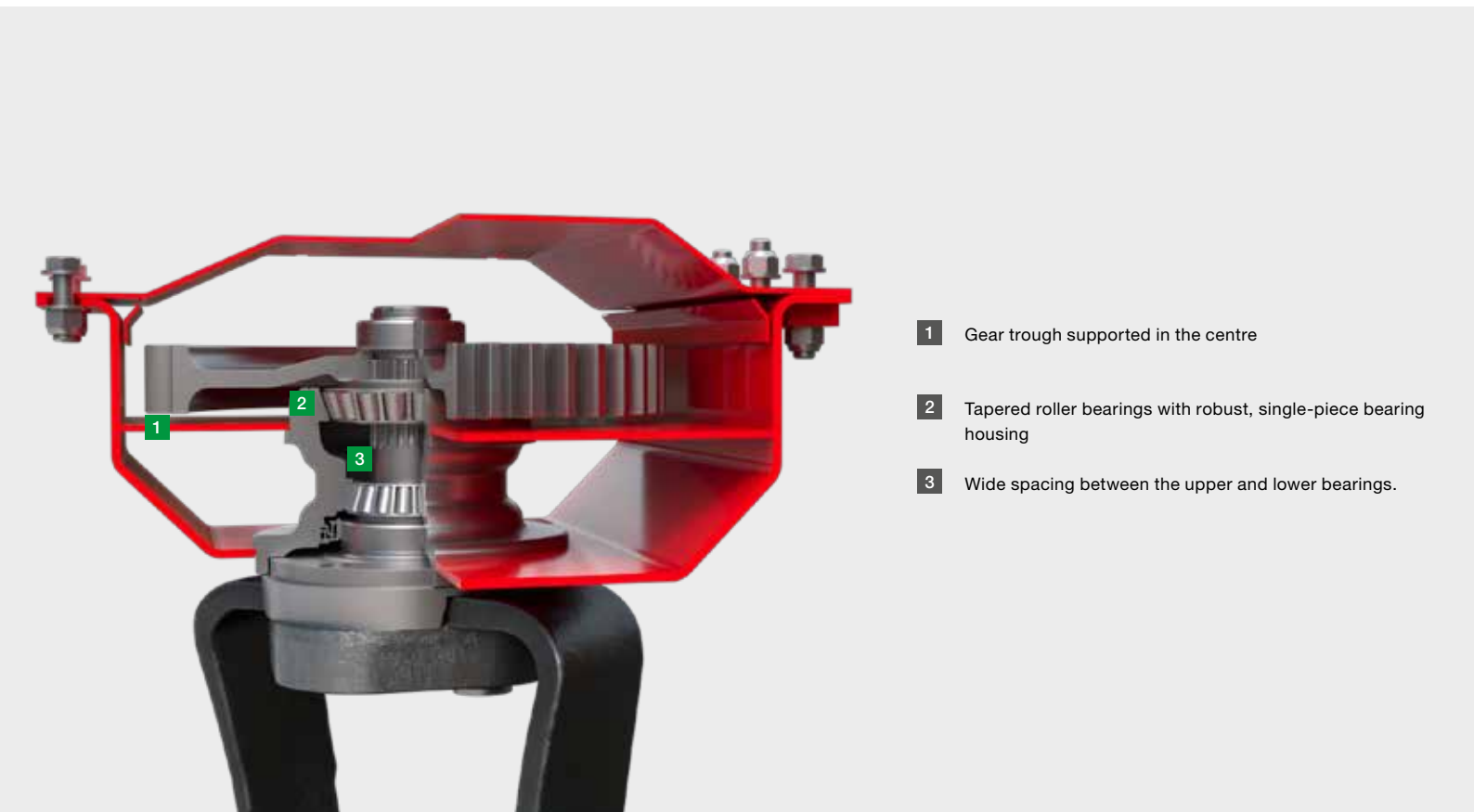
## LION manual gearbox

- For the folding LION models up to 270 hp



More reliability in the field

LION power harrows

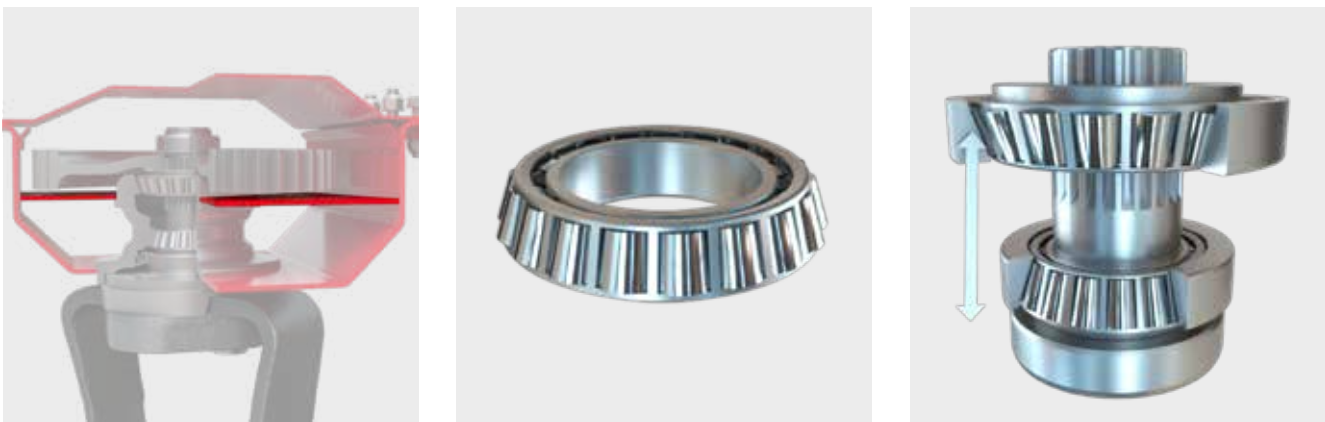


Impressive technology

An extended service life is only possible thanks to precision machining and strong connections. At PÖTTINGER this level of high quality goes without saying.

Robust, smooth-running, durable

The LION power harrows provide the highest strength, smooth-running and long service life, an excellent combination for more reliability in the field.



Gear trough supported in the centre

The deep gear trough is formed from a single piece. The welded central brace provides additional stability. Above the central brace the gears and bearings run submerged in semi-liquid grease.

Tapered roller bearings with robust, single-piece bearing housing

The bearing housings are welded into the box section with the central brace before being milled on the CNC machining centre. This ensures exact rotor-to-rotor spacing and guarantees smooth-running and a long service life.

A bearing for eternity

A wide support distance between the upper and lower tapered roller bearings reduces the load. The lower bearing is located close to the tine carrier. This takes the stress off the bearing and reduces wear. The labyrinth seal carefully seals inwards and outwards, no ingress of dirt.

Dimensions of tine rotor shaft:

- 50 mm on LION up to 200 hp
- 60 mm on LION above 200 hp

PTO speed table for LION models

	LION 253 CLASSIC / 303 CLASSIC / 303.12 CLASSIC	LION 303 / 303.12 / 353.14 / 403 LION 3002 / 4002						LION 5000 / 6000		
Gear combination/ manual gearbox	- Standard	29/36 Standard	36/29	26/39 Option	39/26	31/34 Option	34/31 Option	Speed 1 / Standard	Speed 2 / Standard	Speed 3 / Standard
540 rpm	185 Standard	185	285	-	343	209	251	-	-	-
750 rpm	256	256	395	212	-	290	349	-	-	-
1000 rpm	342	342	527	283	-	387	456	215	296	393

Recommended: at 540 rpm - gear combination 39/26



For tractors up to 140 hp

LION 253 CLASSIC / 303 CLASSIC / 303.12 CLASSIC





For tractors up to 140 hp



## LION 253 CLASSIC / 303 CLASSIC / 303.12 CLASSIC

### 103 Classic series - our lighter weight power harrows

With the LION CLASSIC series PÖTTINGER offers slightly lighter weight models. On CLASSIC versions you can choose from working widths of 2.50 m with 8 rotors and 3 m with 10 or 12 rotors.



### CLASSIC gearbox up to 140 hp

- PTO input shaft mounted far back, gearbox equipped with cooling fins
- Fixed rotor speed
- No rear PTO shaft

### Side boards

On LION CLASSIC models, the height of the side boards is adjusted precisely and easily using slotted holes.

Folded up for road transport without the need for tools, transport width less than 2.50 m or 3.0 m.



For tractors up to 200 hp

LION 303 / 303.12 / 353.14 / 403





For tractors up to 200 hp

LION 303 / 303.12 / 353.14 / 403



Series 103 - robust and cost effective power harrows

With the LION 103 series, PÖTTINGER offers robust and cost effective models for tractors up to 200 hp.

The LION 103 comes with working widths of 3.0 m, 3.5 m and 4.0 m.

LION changeable speed gearbox up to 180 hp / 200 hp

- Proven changeable speed gearbox
- Variable rotor speed
- PTO input shaft mounted far back, gearbox equipped with cooling fins
- Alignment of PTO shaft almost horizontal between tractor and LION
- rear PTO shaft optional

Best results guaranteed

Thanks to the changeable speed gearbox the rotor speed can be adjusted to suit any soil conditions and PTO shaft rpm. The fully hardened tines ensure a long service life.

LION 303 / 403

- With 10 or 14 rotors per metre of working width and tine dimensions of 18 x 340 mm
- These power harrows guarantee best results on heavy clay soils and dry ground
- Reliable operation even in stony conditions thanks to the strong tines

LION 303.12 / 353.14

- With 12 or 14 rotors per working width and tine dimensions of 15 x 330 mm
- For a working depth of up to 26 cm
- A very fine soil structure is achieved because more tines are in use than on 10-rotor machines
- The ideal machine for potato and vegetable beds



For tractors up to 250 hp

LION 3002 / 4002





For tractors up to 250 hp

LION 3002 / 4002



These professional machines have working widths of 3.0 and 4.0 m and are equipped with advanced technology to handle all soil conditions. You can rely on this LION in the most demanding situations.



1002 series - the professional class for the toughest demands

- High strength wide headstock, with additional side struts on LION 4002
- Clevis type category 2 and 3 mounting lugs with integrated sway movement and 3-fold length adjustment are designed to match every tractor
- Side boards are spring-mounted and can be folded up, parallel linkage optional

Power harrow technology for the highest power class

- Changeable speed gearbox with large cooling fins for maximum heat dissipation
- A cam type clutch is integrated into the PTO shaft to protect the gearbox
- Rear PTO shaft optional
- The large-dimensioned, heat-treated precision bevel gears are submerged in semi-liquid grease
- 60 mm diameter rotor shaft with robust tapered roller bearings



For tractors up to 270 hp

LION 5000 / 6000







Folding series up to 270 hp

These power harrows with working widths of 5.0 m to 6.0 m can be folded vertically for road transport.

Compact design

- The link to the tractor is via Cat. 3 mountings
- Two large hydraulic cylinders fold each half of the power harrow through 90°, this provides a transport width of just 2.7 metres
- Thanks to the compact design, the centre of gravity is close to the tractor.
- Two individual extremely twist-resistant units are mounted in the robust folding frame

LION gearbox for large area output

- 3-speed gearbox for the best possible power transfer, rear PTO shaft as standard
- Side drive shafts with cam-type clutch with long lubrication intervals

High strength design to meet performance requirements

- Heat treated bevel gears run submerged in semi-liquid grease; low noise, durable quality
- Large dimensioned tapered roller bearings in single-piece bearing housings
- Heat-treated 18 mm thick tines for a working depth of up to 28 cm
- The rear levelling boards are adjustable vertically and horizontally





Precision sowing

The seed material is distributed evenly with the TEGOSEM. The metering system is driven electrically. Two different metering shafts are provided as standard to ensure precision distribution for fine or coarse metering, even at low seed flow rates. Eight outlets handle seed distribution.

Calibration

Calibration is easy: the calibration procedure is started at the press of a button. A calibration bag is provided as standard equipment. A logical guide makes each calibration step easy to follow.

Hitching and detaching

- The sowing unit including distribution rail is mounted and removed without the need for tools
- Mounted on coupling points on the rear roller and top link
- Parking stands are standard

Metering start/stop

A sensor on the top link detects when to start and stop metering.

Helps you save time

The TEGOSEM cover crop sowing unit combines soil cultivation and sowing a catch crop in a single pass to save time and costs. The TEGOSEM can be combined with PÖTTINGER LION power harrows as well as with FOX compact combinations. This seed drill can be used together with three-point mounted implements and trailed machines.

Precision distribution

The seed material is distributed pneumatically through eight outlets. This guarantees pinpoint precision over the whole working width regardless of the wind conditions. The distributor plates are adjusted by changing the shaft angle.

Your advantages with TEGOSEM LION at a glance:

- Seedbed preparation and sowing in a single pass
- Fast and cost-effective sowing of cover crops
- Seed is deposited in front of the rear roller, the seed is then pressed down and emergence is accelerated
- The outlets are located close to the rear roller to guarantee uniform seed germination
- Loading platform with handrail for convenient and safe filling
- Can be retrofitted to all existing rear rollers

The TEGOSEM can be combined with LION power harrows:

	For machine type	Tractor mounting	Fan drive system	Hopper location	Hopper location (litres)	Weight
TEGOSEM 200	LION 3.0 / 3.5 / 4.0 m	Rigid 3-point	Electric fan drive	Rear rollers	200	145 kg





Your tailor made solution

Whether used in medium or high moisture soil, light or heavy soil conditions, PÖTTINGER offers you tailor-made roller solutions.

The scrapers can be adjusted individually by rotating the scraper tube. They can simply be pivoted away for cleaning. The coated scraper plates are reversible, which leads to a longer service life.



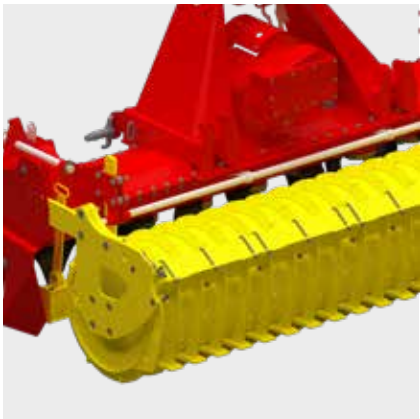
Overview of roller types

Requirements	Cage roller	Tooth packer roller	Crumbling packer roller	Pack ring roller	Prism packer roller	Rubber packer roller
Consolidation	o	o	+	++	++	++
Damp conditions	o	o	o	++	+	+
Dry conditions	++	++	++	++	++	++
Crumbling effect	+	++	++	++	++	++
Load capacity	+	++	+	++	++	++
Suitability for stones	+	o	–	++	++	o
Scrapers (coated)	no	no	yes	yes	yes	yes

- ++ highly suitable
- + very suitable
- o suitable
- not suitable

	2.50 m	3 m	3.50 m	4 m	5 m	6 m
Cage roller 420 mm	148 kg	195 kg	–	–	–	–
Cage roller 540 mm	–	325 kg	–	–	–	650 kg
Tooth packer roller 420 mm	332 kg	365 kg	–	–	–	–
Tooth packer roller 500 mm	440 kg	525 kg	580 kg	600 kg	784 kg	920 kg
Tooth packer roller 550 mm	–	547 kg	600 kg	690 kg	–	1056 kg
525 mm crumbling packer roller	–	520 kg	–	750 kg	–	–
Pack ring roller 550 mm	493 kg	550 kg	655 kg	740 kg	–	1100 kg
Prism packer roller 500 mm / 12.5 cm	–	560 kg	640 kg	735 kg	–	–
Prism packer roller 500 mm / 15 cm	–	530 kg	–	695 kg	–	–
Rubber packer roller 585 mm	–	575 kg	–	–	–	–





Prism packer roller

This roller handles all operating conditions, including stony ground and larger quantities of harvest residues.

Consolidation in strips promotes drainage and breathability of the soil in the area between the rings, which has been subject to less precompaction.

- Prism rings spaced at 12.5 or 15 cm
- Diameter: 500 and 600 mm
- Coated scrapers are standard



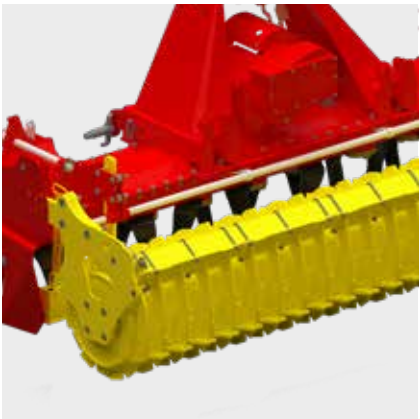
Tooth packer roller

This roller is suitable for all types of soil. The roller leaves behind a perfectly consolidated seedbed with loose, fine soil at seed level.

This ensures no clods can be lifted away, even in wet conditions, and a perfect capillary structure remains intact for optimum germination.

The hardened scraper plates are reversible which leads to a longer service life, these can also be simply pivoted away for cleaning.

- Diameter: 420 mm, 500 mm and 550 mm
- Coated scrapers optional



Crumbling packer roller

This roller is especially suitable for heavy, clay soils.

The result is a deep packing effect with loose crumbling effect just under the surface. Scrapers prevent soil sticking to the roller.

- Diameter: 525 mm
- Coated scrapers are standard

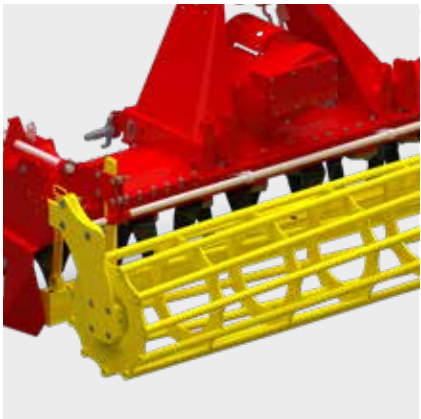


Pack ring roller

Ideal for stony, damp conditions and heavy organic residues. Harvest residues remain on the surface of the soil and protect the soil against drying.

The roller produces a corrugated consolidation effect to promote drainage and allow the soil to breathe.

- Diameter: 550 mm
- 8 rings per metre of working width for 12.5 cm row spacing
- Coated scrapers are standard



Cage roller

The ideal roller for dealing with dry, non-sticky soils.

The roller is fitted with strong bars for optimal consolidation.

- Diameter: 420 mm, 8 bars
- Diameter 540 mm, 11 bars



Rubber packer roller

This roller is ideal for widely varied ground conditions.

Specially designed for use with trailed equipment that when used with other rollers can be limited.

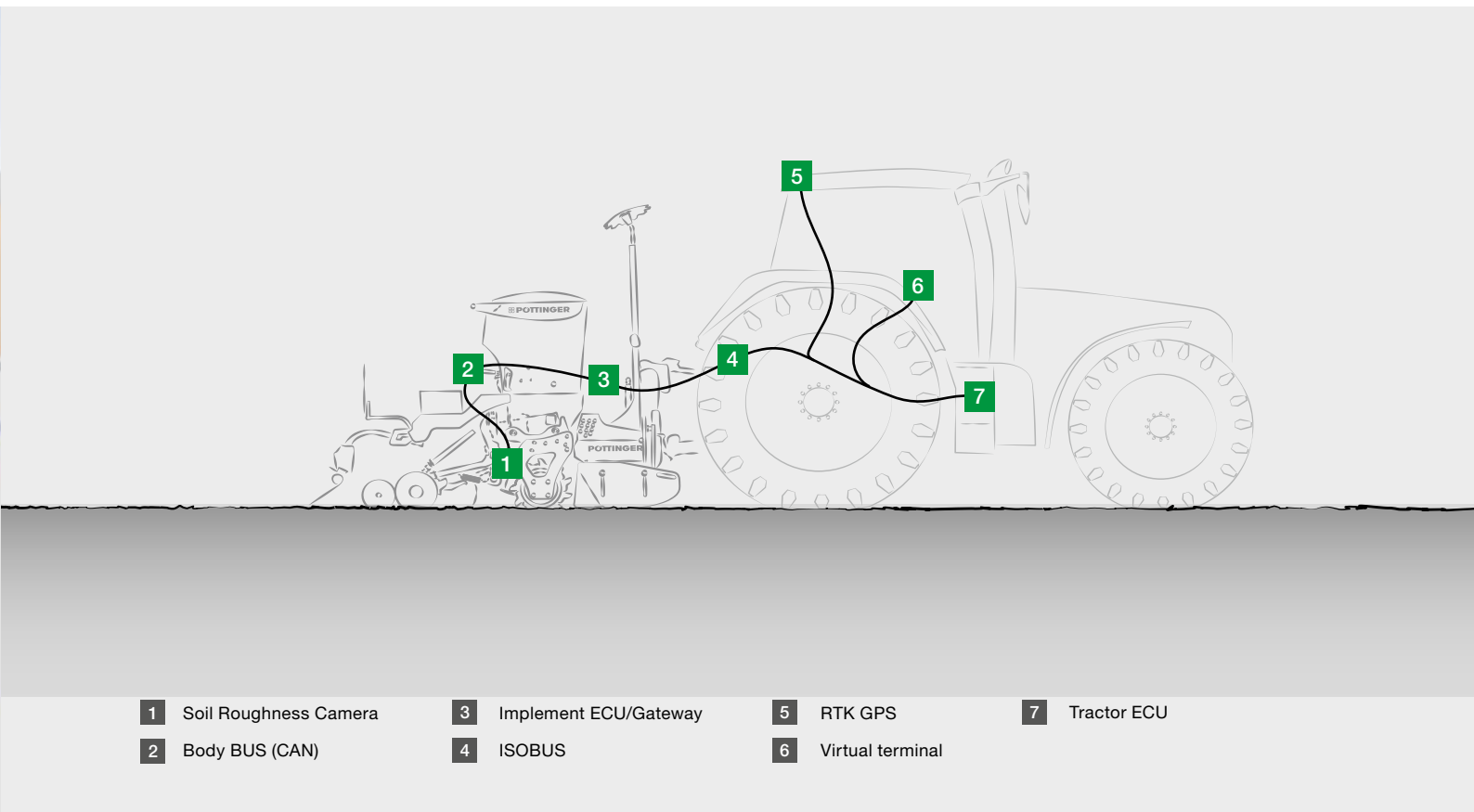
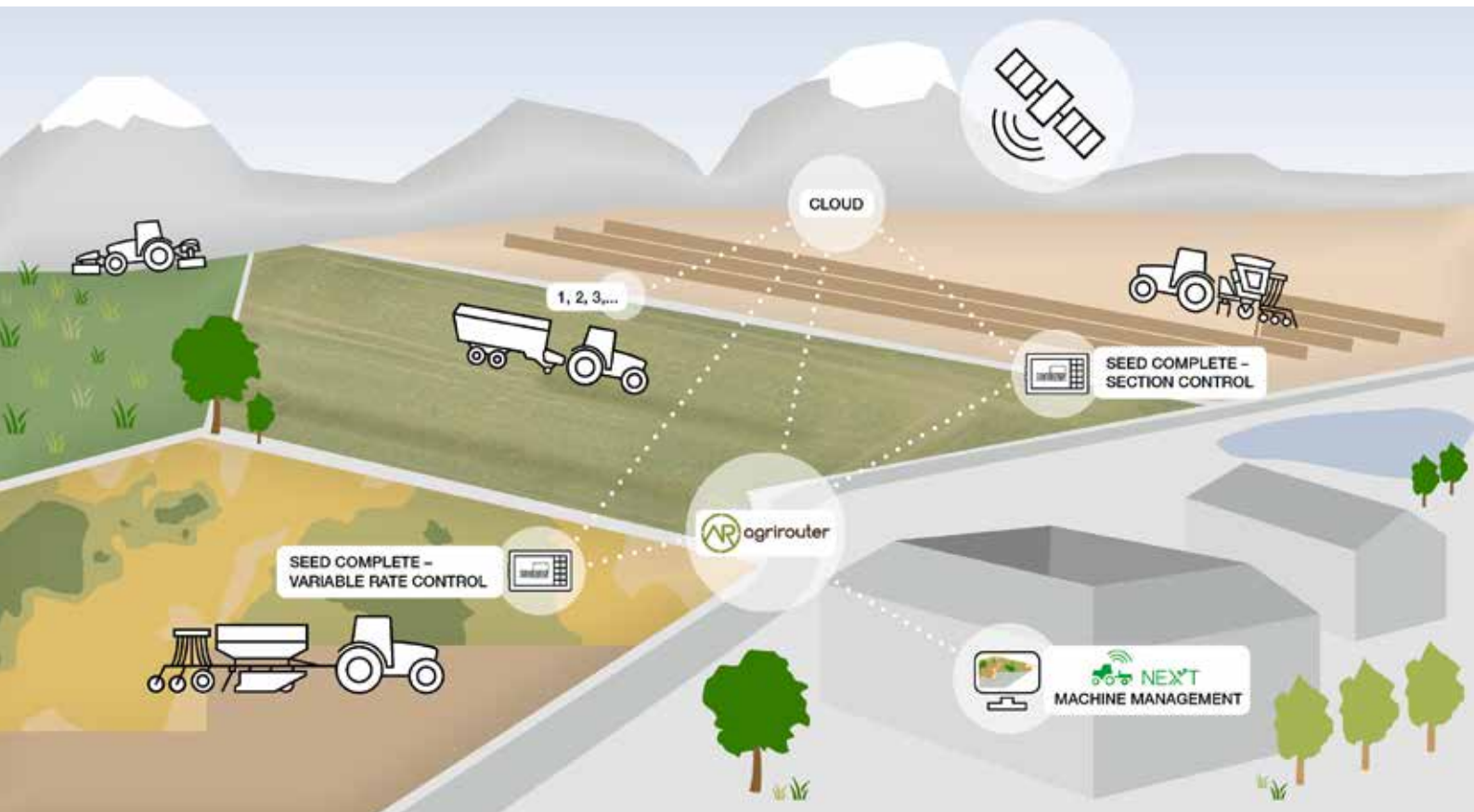
The special profile produces consolidated ridges

- Diameter: 585 mm
- Coated scrapers are standard



Our input - your output.

Digital agricultural technology



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. This enables you to operate more efficiently and conveniently.

Ultimately, it's all about making your job easier and enjoying cost effective benefits through the use of intelligent technologies. Together with PÖTTINGER, being a modern, networked company becomes reality. This means more convenience, time and profit.

Your way to the best working results

Best quality tilth and optimum preparation of the seedbed are key to successful seed germination and growth. The seedbed should ideally be as coarse as possible and as fine as necessary. In practice, it is a challenge to select the right tillage intensity of the soil to match each crop.

The main issue is to avoid ponding and crusting on silty soils. That is because cultivating the soil too finely leads to erosion, making it easier for fine soil particles to be washed away. However, eroded soil is valuable capital that the farmer then loses.

The award-winning camera assisted seedbed preparation development by PÖTTINGER, focusses precisely on this issue. The aim is to enable consistent seedbed preparation and seed placement depending on the condition of the soil. The system measures in real time the surface roughness of the soil using images from a camera mounted between the power harrow and the seed drill that detects depth differences. The PTO speed and driving speed of the tractor\* are regulated as a function of the roughness values recorded. The unit therefore controls the tractor automatically to adapt to changing soil conditions. The working results are an optimised seedbed with uniform tilth across the entire field.

\* only with CNH tractors (Class III)

Perfect seedbed thanks to real-time measurement

- Stereo camera and computer determine the roughness of the soil surface
- The roughness value is transferred to the machine computer
- The required surface setpoint is specified using the control terminal in the tractor or by the application card
- The implement and tractor communicate with each other and set the PTO speed and driving speed using ISOBUS Class III

Our innovation for camera-assisted seedbed preparation was awarded the DLG Silver Medal at Agritechnica 2017. This system is available as an option for LION power harrows.

As coarse as possible, as fine as necessary

- Optimum soil structure, exact depth placement, ideal germination conditions, rapid emergence, stress resistant plants for plant protection applications
- Minimises proportion of fine soil: Erosion reduction
- Less driver fatigue: Fully automated work sequence, no visual check of the seedbed necessary any more
- Optimisation of diesel consumption: No more manual adjustment of rotor speed and driving speed required
- Night work is also possible because the system does not rely on daylight
- Possible to create a surface roughness map of the field: Useful for subsequent processes
- Intensity matched to the crop for homogeneous crop density



Standard & Optional Equipment

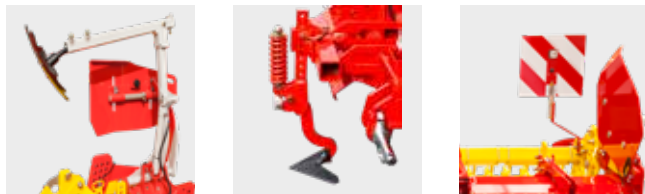
Often ordered together



	Quick-change tines	DURASTAR tines	Front levelling board	spring-loaded side boards
LION 253 / 303 / 303.12 CLASSIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
LION 303 / 303.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 353.14 / 403	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 3002 / 4002	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 5000 / 6000	<input type="checkbox"/>	<input type="checkbox"/>	-	■



parallel guided side boards	HYDROLIFT for mounted seed drills	PTO through shaft	Components for mounted seed drills
-	<input type="checkbox"/>	-	-
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	-	-	-



	Bout markers	Spring-mounted track eradicators	Warning sign and lighting
LION 253 CLASSIC			
LION 303 / 303.12 CLASSIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 303 / 303.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 353.14 / 403	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 3002 / 4002	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LION 5000 / 6000	<input type="checkbox"/>	<input type="checkbox"/>	-

More equipment options

- PTO shaft 1 ¼" 6 spline (except 253/303/303.12 Classic)
- PTO shaft 1 ⅝" 21 spline
- Stroke limiter for HYDROLIFT

■ = Standard, □ = optional

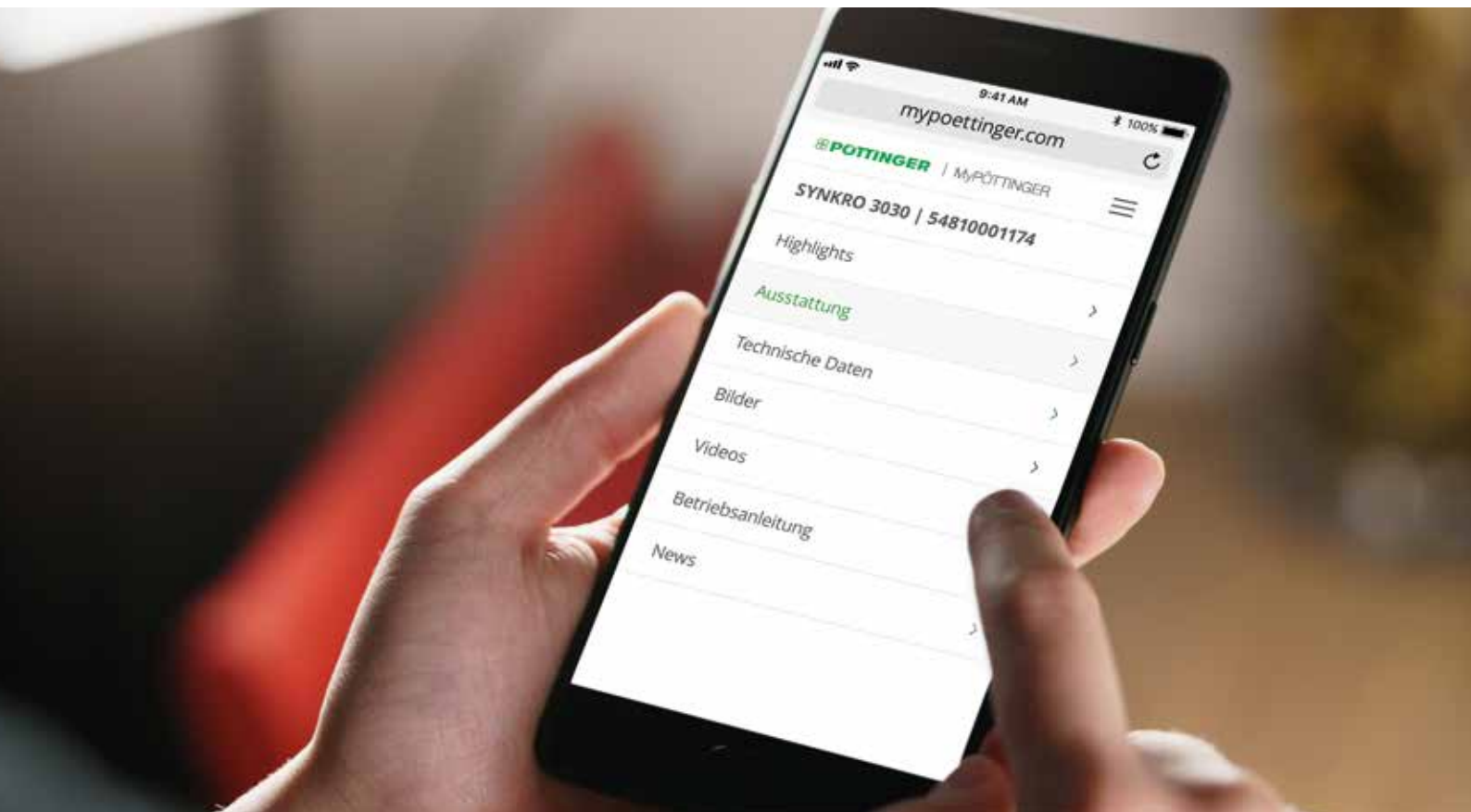


Mounting		Working width	Transport width	Rotor
<b>103 Classic series</b> Lighter weight power harrows				
LION 253 CLASSIC	Cat. 2 and 3	2.5 m	2.5 m	8
LION 303 CLASSIC	Cat. 2 and 3	3.0 m	3.0 m	10
LION 303.12 CLASSIC	Cat. 2 and 3	3.0 m	3.0 m	12
<b>103 series</b> Robust and cost effective power harrows				
LION 303	Cat. 2 and 3	3.0m	2.5 m	10
LION 303.12	Cat. 2 and 3	3.0 m	3.0 m	12
LION 353.14	Cat. 2 and 3	3.5 m	3.5 m	14
LION 403	Cat. 2 and 3	4.0 m	4.0 m	14
<b>1002 series</b> Professional class for the toughest demands				
LION 3002	Cat. 2 and 3	3.0m	3.0 m	10
LION 4002	Cat. 2 and 3	4.0 m	4.0 m	14
<b>1000 series</b> Machines for high outputs				
LION 5000	Cat. 3	5.0m	2.7 m	16
LION 6000	Cat. 3	5.0 m	2.7 m	20

Working depth	Tines	Recommended PTO speed	Rotor speed standard	For tractors up to	Weight without roller
28 cm	18 x 340 mm	1,000 rpm	342 rpm	103 kW / 140 hp	908 kg
28 cm	18 x 340 mm	1,000 rpm	342 rpm	103 kW / 140 hp	1,020 kg
28 cm	15 x 330 mm	1,000 rpm	342 rpm	103 kW / 140 hp	1,010 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	132 kW / 180 hp	1,070 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	132 kW / 180 hp	1,060 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	147 kW / 200 hp	1,190 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	147 kW / 200 hp	1,300 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	184 kW / 250 hp	1,190 kg
28 cm	18 x 340 mm	1,000 rpm	342 / 527 rpm	184 kW / 250 hp	1,450 kg
28 cm	18 x 340 mm	1,000 rpm	215 / 296 / 393 rpm	184 kW / 250 hp	1,190 kg
28 cm	18 x 340 mm	1,000 rpm	215 / 296 / 393 rpm	184 kW / 250 hp	1,450 kg



# All machine information at a glance



## MyPÖTTINGER – Simple. Anytime. Anywhere.

### For all PÖTTINGER machines 1997 models onwards

We have created MyPÖTTINGER as a tool to provide machine specific information for all machines from year of build 1997 onwards.

Simply scan the QR code on the data plate with your smartphone or tablet or enter your machine number at [www.mypoettinger.com](http://www.mypoettinger.com).

### Your machine goes online

You will immediately receive all the information on your machine.

- Instruction manual
- Optional equipment information
- Brochures
- Photos and videos.

# ORIGINAL PARTS



## 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.

We 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.





## More Success with PÖTTINGER

- A family-owned company since 1871  
Your reliable partner
- Specialist for tillage, seed drills  
Hay and harvesting machines
- Future-safe innovation for outstanding working results
- Roots in Austria - at home throughout the world

## Prepare the perfect seedbed

- LION power harrows deliver the best working results for seedbed preparation.
- Maximum flexibility - tailor-made systems for every type of soil and every size of operation.
- Making work easier for you with technology at the highest level.
- Extremely smooth operation with the greatest strength and reliability.

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