

SERVO  
Hitch-mounted reversible ploughs

 **PÖTTINGER**

# Perfect ploughing



# Perfect ploughing



# SERVO

## Hitch-mounted reversible ploughs

A straightforward and innovative control centre, an extremely robust turnover mechanism and a durable plough beam as well as optimised mounting geometry that can be adapted to any tractor: these are all essential factors that were taken into account during the development of these SERVO hitch-mounted reversible ploughs. Teamed up with proven mouldboards and tillage tools made by PÖTTINGER, these ploughs have been engineered to deliver perfect working results year after year.

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# The best soil for perfect plant growth



## Designed for success

Primary tillage lays the foundation in agronomic terms for the subsequent crop, which is why it has a decisive influence on the growth of the plants. To develop properly, these require an optimum supply of water and nutrients.

A loose soil structure with a natural pore distribution and no harmful compaction effects lets the crop develop strong and deep roots. The large amount of space available for roots is essential for taking in nutrients and groundwater during the principal growth stages. The risk of under nourishment or a shortage of water is minimised because the soil has plenty of capacity for storing water and nutrients. It means that the plants can bridge extreme conditions much better.

Crops that have a sufficient supply of water and nutrients are healthier and more resilient to pathogens. As a result, less plant protection measures are needed for a high yield, which forms the basis for a successful harvest.

## Site-specific tillage

Tillage is about changing the structure of the soil. Site-specific tillage improving the soil structure to actively influence the function of the soil.

During this process, the plough loosens the soil over the full depth of the tilth and eliminates any compaction in the topsoil. As the soil passes the mouldboard, the furrow ridge breaks along its natural structure. Depending on the type of soil and its condition, the plough is set up to create a tilth that encourages downward root penetration and growth.

In loosened soils, the size distribution and volume of the pores also changes. The higher proportion of large pores leads to faster warming of the soil due to the larger air content, and water can infiltrate faster.

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### A good start

Primary tillage using a plough does more than loosen the soil for the next crop. The plough furrow creates a “clean slate”, bringing additional agronomic advantages that directly affect subsequent passes and crop development.

The plough turns the soil over so that there are no harvest and plant residues at seed slot level, because these are reliably incorporated by the plough. Reliable seed emergence following lower demands on the seed drill technology is guaranteed.

In addition, the threat of weeds is reduced because weeds and their seeds are ploughed in and completely covered well below the surface. Especially in organic farming, the plough is still the tillage method of choice for a pre-emptive and active reduction of weeds, where weeds have become resistant and on problem sites.

### For a healthy crop

Surface plant material and crop residues often result in increased phytosanitary risks for the next field crops. The organic material can harbour various diseases that go on to survive until the next round of infection.

The proven mouldboards from PÖTTINGER, together with an extensive range of skimmer tools, ensure that organic matter is incorporated without leaving any residues on the surface. Consequently, this reduces the risk of wheat becoming infected by fungal diseases such as fusarium ear blight (*fusarium graminearum*) or tan spot (*drechslera tritici-repentis*), and leads to a healthier and more resilient crop that requires less plant protection measures.

In addition, clean and tidy incorporation of organic residues also facilitates the control of animal pests. It can suppress the spread and reproduction of the European corn borer, for example.

# Convenient flexibility



## Simplified set-up

A correct plough set-up is the basis for efficient and uniform work. The innovative SERVOMATIC control centre with four-joint linkage makes it even easier and quicker to set up the plough correctly and adjust it to the tractor. This is especially important when the plough is used with different tractors.

Beam angle, front furrow width and pulling point can be adjusted in just a few steps. All the necessary setting points are intuitively configured, easily accessible and finely adjustable. The geometry of the headstock can also be adapted to the tractor using different attachment positions. Easier lifting of the plough is ensured.

The PLUS hydraulic furrow width adjustment enables quick adaptation to soil conditions. The triggering pressure of the NOVA stone protection system can be conveniently changed using the spool valve on the tractor.

## Seamless merging between passes

While designing the SERVOMATIC control centre, great importance was placed on a large adjustment range of the front furrow width. This means that SERVO hitch-mounted reversible ploughs cover tractor inside track widths from 1,000 to 1,500 mm. This facilitates the use of tractors with different track widths or tyre dimensions as well as different power classes.

Adjustment of the front furrow width is performed mechanically, or, as an option, hydraulically without having to leave the tractor cab. A clearly visible scale helps to quickly find the correct position based on the inner track width of the tractor.

On SERVO P and N ploughs with hydraulic furrow width adjustment, the four-joint linkage automatically adjusts the front furrow when the furrow width is adjusted. Uniform turning of the furrow ridge from the first to the last mouldboard ensures excellent working results.

# SERVO

## Hitch-mounted reversible ploughs



### Variable width

A high degree of flexibility is a basic requirement for efficient work in the field. While working around obstacles is often difficult with a rigid plough, only one adjustment of the spool valve needs to be made with the PLUS hydraulic working width adjustment system. This allows the plough to be steered with accuracy around obstacles. The PLUS system also comes into a class of its own when ploughing triangular field sections, because it makes it a lot easier.

In addition to being more convenient, the furrow width can be quickly and precisely adjusted to different working conditions. Especially when the furrow depth is changed, adaptation of the furrow width is useful to make sure you always get the furrow ridge turned over properly to produce perfect quality tilth. Organic material is reliably incorporated and the soil surface is finished with minimal voids.

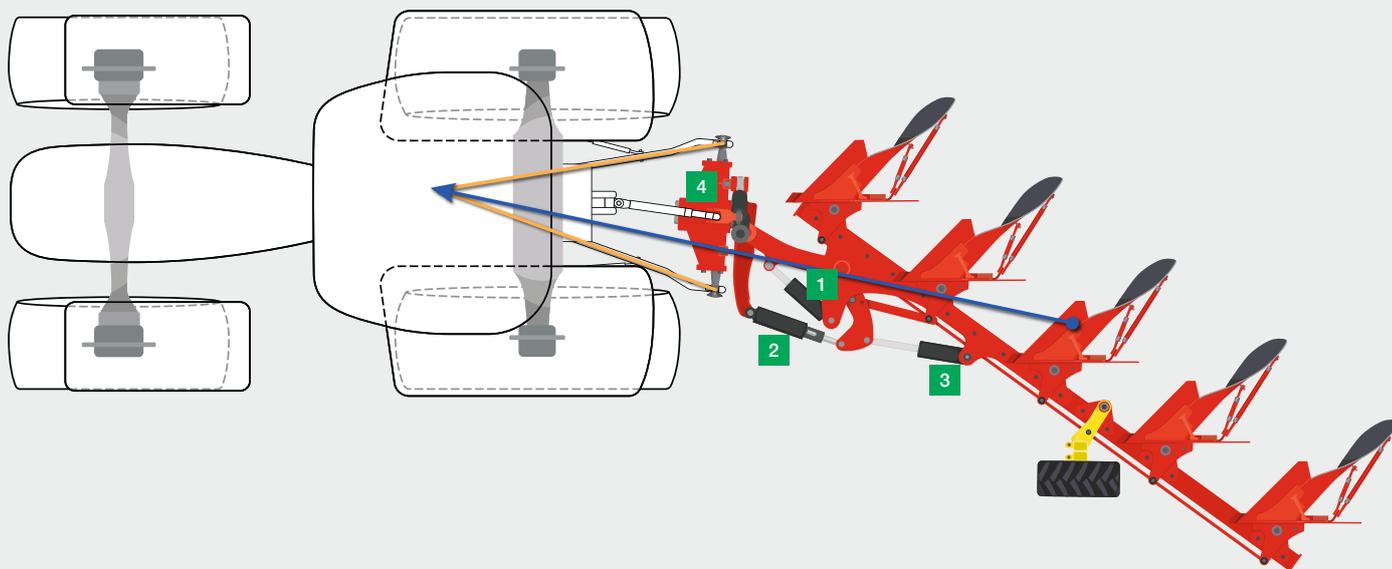
### Always on course

To achieve optimum power transmission and to reduce wear and fuel consumption, it is essential that the pulling point of the plough is set up perfectly. A pull line running through the middle of the tractor's rear axle results in a centred power transfer without the plough crabbing to one side or the other.

That is why the pulling point on SERVO hitch-mounted reversible ploughs is preset at the factory and requires no adjustment under normal conditions. Adjustment is still possible if needed.

Just as with the front furrow width, hydraulic furrow width adjustment automatically adjusts the pulling point, eliminating the need for readjustment. This way, once the plough is set up, you always achieve the best transfer of power and minimum wear.

# Convenient flexibility



## 1 First furrow width

The main setting of the updated SERVOMATIC control centre is based on the inside track width of the tractor and is set mechanically using the inside turnbuckle. As an option, this can be done conveniently with a hydraulic cylinder. The swept shape of the cast yoke covers a wide adjustment range for different tractor inside track widths between 1,000 and 1,500 mm.

## 2 Pulling point correction

The pulling point on SERVO ploughs is factory set for normal working conditions. The tractor's lower linkage arms sway so that the plough is automatically aligned along the optimal pull line, which intersects the middle of the tractor's rear axle. This ensures optimum power transmission without side pull.

For special requirements, such as ploughing on steep ground, or to change the landside pressure, the pulling point can be adjusted using a turnbuckle. If a plough beam pivot cylinder is fitted, the pulling point correction is integrated into this by a stop that limits cylinder travel when pivoting in.



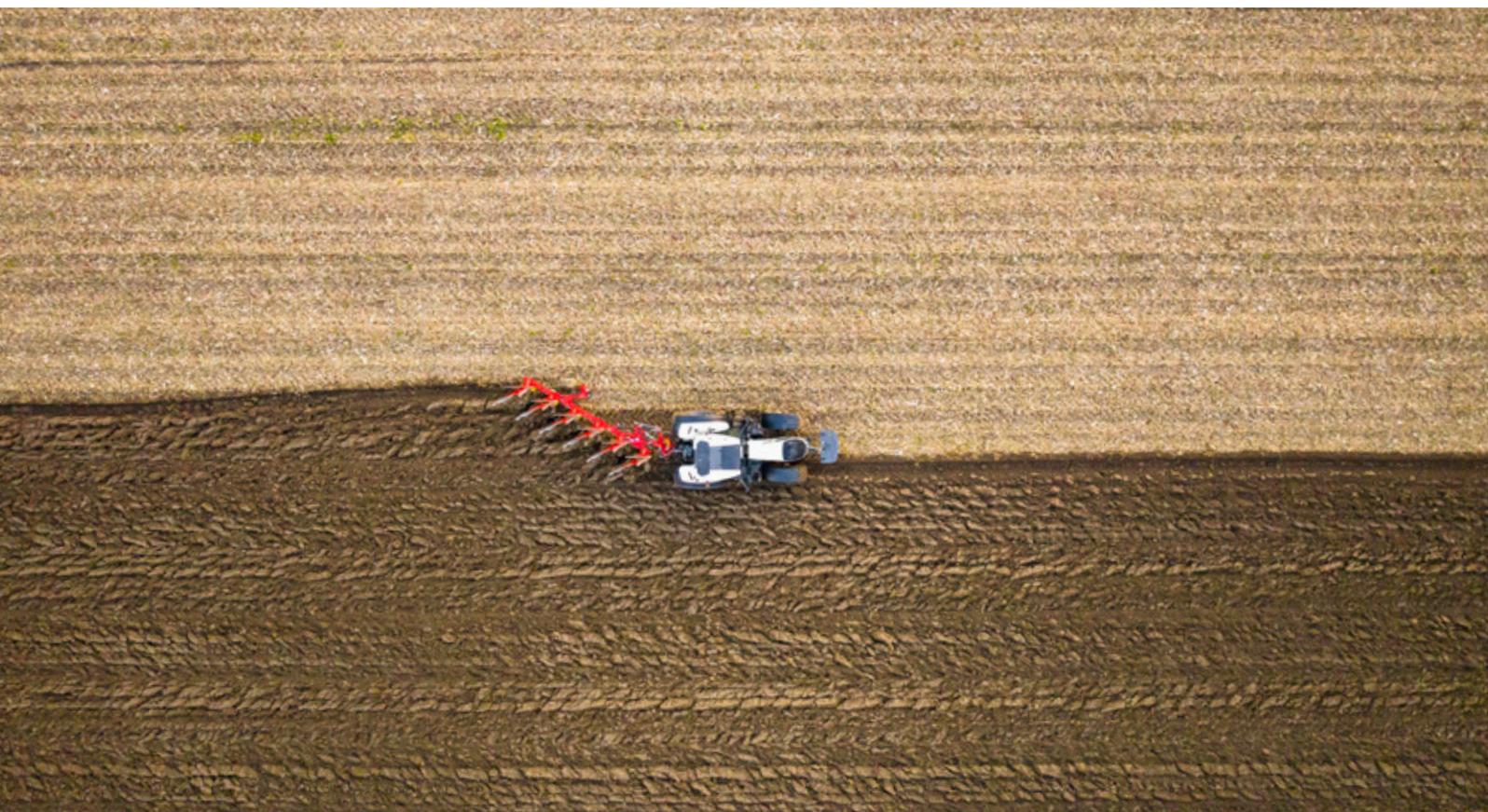
### 3 Hydraulic furrow width adjustment

As an option, the furrow width of the individual bodies can be adjusted hydraulically. Depending on the point-to-point spacing, different furrow widths are possible. The front furrow is adjusted by the four-joint linkage of the SERVOMATIC control centre so that it is synchronous with the rest of the bodies, and the pulling point is optimised accordingly.

### 4 Beam angle

The plough beam angle is set using the beam angle lift, and needs to be adjusted if the furrow depth is changed. The beam angle lift spindle is protected inside a closed guide and can be set without the need for tools.

# Convenient flexibility



## Variable furrow width

Taking into consideration the conditions in the field in terms of the type of soil and its characteristics, it may be necessary to adjust the furrow width accordingly to achieve the ideal working results. Depending on the point-to-point spacing, different furrow widths can be achieved.

To achieve a consistent turnover of the furrow ridge, the furrow width needs be adapted when the furrow depth is changed, in order to ensure a constant ratio of ploughing depth to furrow width.

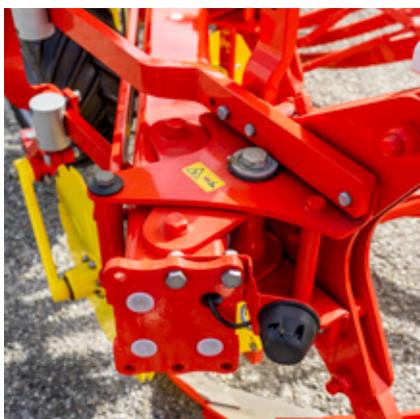
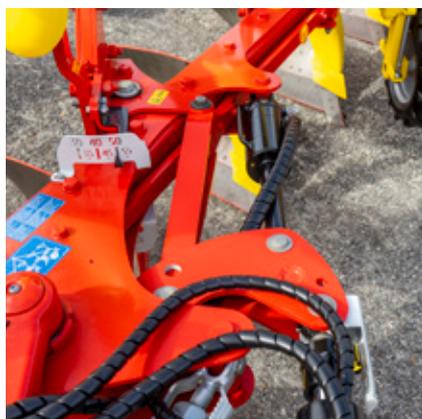
It is also possible to change the formation of the furrow ridge for agronomic reasons by changing the furrow width.

## The convenient PLUS

Adapting the furrow width on SERVO ploughs using the PLUS hydraulic furrow width adjustment system is easy, convenient and can be done on the move. This is so convenient that it allows the furrow width of the plough bodies to be adjusted without the need for tools. The disc coulters and the depth wheels are also adjusted automatically.

To manage this, the tractor requires a double-acting spool valve. Once it has been set to the inside track width of the tractor, the front furrow width is automatically adjusted when the furrow width is changed. This is done by the four-joint linkage at the control centre in accordance with the remaining furrows.

# PLUS hydraulic furrow width adjustment



## Indirectly controlled

The furrow width of each body on ploughs with hydraulic furrow width adjustment is controlled indirectly by a lever actuated by a hydraulic cylinder. When actuated, every change in the hydraulic cylinder is transmitted extremely smoothly and precisely to the plough body by the furrow width control lever.

## Located alongside

On the PLUS adjustment system, the plough body pivot points are located alongside the plough beam tube. This means that no large holes are required through the tube, increasing plough beam strength. For an extended service life, the bearings of the pivot points are designed to be lubricated.

## Several positions

On SERVO ploughs without hydraulic adjustment of the furrow width, the plough bodies are adjusted manually. This is done to match on-site requirements using a bolt and a hole matrix.

## Furrow width on demand

	<b>Furrow width</b> Point to point 88 cm	<b>Furrow width</b> Point to point 95 cm	<b>Furrow width</b> Point to point 102 cm
SERVO 3000		30, 35, 40, 45, 50 cm	32, 38, 43, 48, 54 cm
SERVO 3000 N	28, 32, 37, 42, 46 cm	30, 35, 40, 45, 50 cm	32, 38, 43, 48, 54 cm
SERVO 3000 P		30 – 50 cm	32 – 54 cm
SERVO 3000 PN	28 - 46 cm	30 – 50 cm	32 – 54 cm
SERVO 4000		30, 35, 40, 45, 50, 55 cm	32, 38, 43, 48, 54, 59 cm
SERVO 4000 N		30, 35, 40, 45, 50, 55 cm	32, 38, 43, 48, 54, 59 cm
SERVO 4000 P		30 – 55 cm	32 – 59 cm
SERVO 4000 PN		30 – 55 cm	32 – 59 cm

## Convenient flexibility



### Attaching the machine

The SERVO hitch-mounted reversible ploughs are attached to the tractor using a three-point linkage. In addition to the standard mounting axles in various categories, a mounting axle with double bearings and a steered axle are also available. The optional steered axle is especially recommended for ploughing fields with irregular shaped boundaries or many obstacles.

The mounting axles can be adjusted in four positions using the lower linkage plates. Two slotted holes and two fixed holes are provided for mounting the top link. This enables a precise match to the geometry of the tractor linkage. In addition, the TRACTION CONTROL unit can be integrated into the headstock.

A pivoting parking stand is mounted on the plough beam for convenient handling while attaching and detaching the plough. This makes attachment and stowage safe and easy.

### In the field and on the road

The integrated plough beam pivot cylinder not only supports the turnover process with increased ground clearance and optimum centre of gravity, but also ensures smooth road transport with an enhanced level of safety. As the plough beam rotates towards the centre, the transport width is narrow even with a higher number of furrows. The plough remains within the width of the tractor and road safety is enhanced.

# SERVO

## Hitch-mounted reversible ploughs



### Safe transport

Thanks to their large dimensions, the transport pivot wheels do more than ensure precise depth control. In a few simple moves they can also be used as transport wheels for road transport. This means that the weight is taken off the rear tractor linkage whilst driving on the road and there is more weight acting on the front axle. This improves handling and safety on the road. During transport that plough is rotated into the centre position.

### Turns night into light

The optional lighting rig is easily attached to the rear of the plough for road transport. Especially when driving at dusk or at night, the lighting rig provides excellent illumination of the plough to the rear so it is clearly visible to other road users.

### Overview of hydraulic connections

A different number of hydraulic connections is needed on the tractor to operate the plough depending on the equipment options. In order to keep a clear overview even with many hydraulic functions, the hydraulic connections are clearly marked.

SERVO	SERVO N	SERVO P	SERVO PN
1 DA <sup>1</sup> for turnover	1 DA for turnover	1 DA for turnover	1 DA for turnover
	1 SA <sup>2</sup> for triggering pressure	1 DA for furrow width	1 DA for furrow width
			1 SA for triggering pressure

As an option, 1 DA spool valve is required for the front furrow and for the depth wheel setting, as well as 1 SA for TRACTION CONTROL. Thanks to the ingenious combination of hydraulic functions, no additional connection is required for the press arm when ploughing with a furrow press. All the hydraulic hoses are routed through the hollow turnover shaft to protect them from damage and chafing. For added durability and safety, in-line filters are integrated into the hydraulic system to prevent component damage from contamination.

<sup>1</sup> DA = 1 double-acting spool valve

<sup>2</sup> SA = single-acting spool valve

# Reliability for the toughest conditions



## For new challenges

The SERVO 3000 and SERVO 4000 series combine many years of experience in building ploughs, the needs of farmers and contractors in the field, and the very latest technical expertise. Strong components ensure reliability and robustness in the field.

The main beam, the components in the turnover mechanism and the headstock have been updated to meet current requirements and deliver reliable operation. On soils with a high stone content or rocks in the subsoil, SERVO ploughs with NOVA hydraulic stone protection deliver an impressive performance and guarantee reliable and uninterrupted operation without damage to the plough.

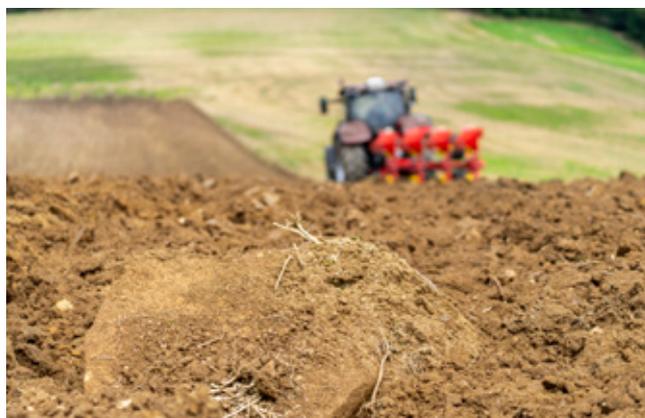
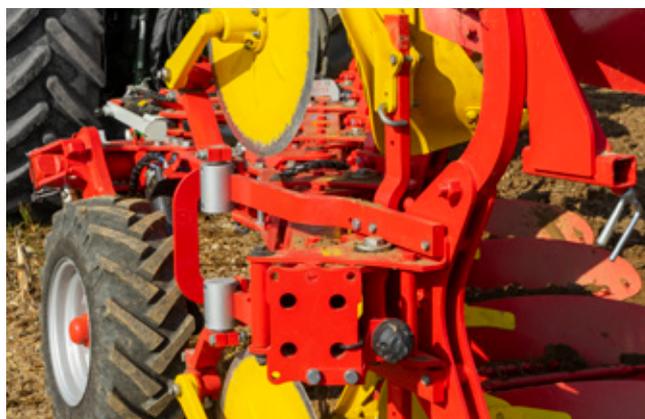
## Robust frame construction

The plough beam and turnover unit have been engineered to absorb the loads acting on them during operation even better. The large-dimension main beam section absorbs tensile forces efficiently. In addition, the construction reduces loads acting on all bearing points to protect the plough components.

- Large dimensioned main beam section with robust design for high strength
- Enormous strength and the capacity to absorb bending forces ensure reliability
- Protects components and mounting elements

# SERVO

## Hitch-mounted reversible ploughs



### For high outputs

For a wide range of applications, SERVO 4000 ploughs are designed (depending on the equipment options fitted) for tractors between 140 and 360 hp. SERVO 3000 ploughs for the medium power segment are designed for tractors from 80 to 200 hp. The SERVOMATIC control centre makes it quick and easy to adapt to different tractors and bring you maximum efficiency in the field.

The geometry of the headstock and the control centre is optimised for use with different tractors. With four possible top link mounting positions on the headstock and the height-adjustable mounting axle, the right mounting position can always be found. As a result of the new mounting geometry, the plough is easy to lift away.

### Ready for the toughest jobs

The NOVA hydraulic stone protection system has been further developed to meet the toughest challenges. The configuration of the NOVA unit ensures a high triggering pressure and the best entry into the soil. The integrated cylinder is protected against dust and dirt. The central hydraulic accumulators are located close to the plough beam so that they are well protected to ensure even pressure distribution in the system.

- Hydraulically adjustable triggering pressure
- Rapid soil re-entry due to increasing pressure after tripping
- High and wide trip clearance
- Additional shear bolt for extreme loads

# Reliability for the toughest conditions



## For the toughest conditions

The plough beam tube has been optimised to absorb the loads acting on it during operation even better. To ensure the high strength of the beam, holes have been reduced to a minimum and arranged along the low-stress beam centreline. The beam material and strength are not compromised unnecessarily as a result. That is also the reason that the body mountings are also located outside the frame tube on ploughs equipped with hydraulic furrow width adjustment.

### Extra rigid

The large-dimensional main beam section ensures smooth transmission of the pulling power from the headstock and beam link to the plough beam. The main beam section extends from the first to the third plough body and is bolted to the plough beam on both sides by a bolted reinforcement bar. This increases strength without squashing the beam profile.

## Reliable turnover

The turnover mechanism on SERVO hitch-mounted reversible ploughs features a turnover shaft and a large-dimensional turnover unit. Due to the wide bearing spacing and the large taper roller bearing, the forces on the bearing are reduced. In addition, the turnover shaft is designed as a hollow shaft and serves as a lead-through for hydraulic hoses, providing them with the best protection against damage.

The steel casting of the turnover unit ensures a high material quality for a long service life. The turnover unit is generously dimensioned to reduce the forces acting on the bearings. A double-sided lug on the turnover cylinder distributes the turnover force evenly. The bearing journal for the turnover cylinder is a forged component and integrated over a large area into the headstock tower.

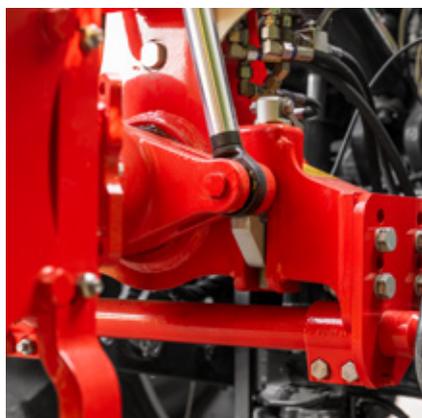
# SERVO

## Hitch-mounted reversible ploughs



### Durable and dynamic

The large dimensioned beam link is made of high quality cast steel and is slightly curved. This ensures high strength and durability. The curved cast beam link provides more space for the front furrow to give the SERVO a wide range of front furrow adjustment. This makes it adaptable to a wide range of tractors.



### Ready for action

The beam angle lift spindle is enclosed within the beam angle lift guide. Thanks to the enclosed design, the spindle is protected against contamination. Easy adjustment is guaranteed at all times.

In addition, stress on the turnover unit is prevented because the turnover cylinder rests on the beam angle lift during the turnover sequence.

### Increased strength

For increased strength, the mounting brackets are bolted instead of welded. By deliberately avoiding weld seams, the material is not weakened at this point and retains its full strength.

### Easy replacement

To prevent overloading and possible damage, standard and PLUS models feature shear bolts. When the shear bolt is triggered, there is no transverse deformation of the bolt so it does not jam between the leg and the mounting, and no damage is caused. Easy replacement ensures that the plough is back in action quickly after the shear bolt has been triggered. This saves time and increases output.

Reliability for the toughest conditions

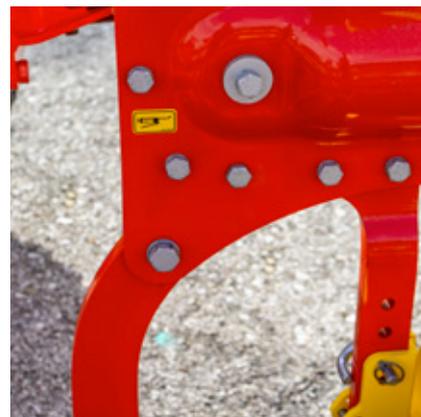
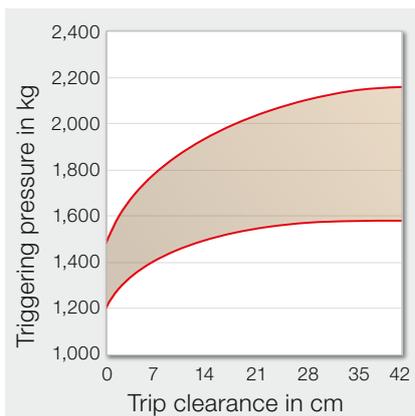


# NOVA hydraulic stone protection



## Ready for the toughest jobs

Uniform, trouble-free operation in areas with a high stone content or a rocky subsoil is not a contradiction in terms thanks to the reliable NOVA stone protection system. A selection of highly resilient materials combined with finely controllable hydraulics makes the system an indispensable tool for challenging conditions. Being able to work continuously while outputting high quality working results increases productivity and contributes to a higher area output.



## Innovative

The optimised design of the system brings significant advantages in the field. The integrated cylinder is protected against dirt and damage by the pressed mounting bracket. The components are configured to ensure a large trip clearance height of 42 cm and a sideways deviation of 20 cm. The NOVA element has a compact arc of movement to reduce the amount of weight transferred to the rear, and is positioned close to the frame.

## Controllable power

With a single-acting connection, the pressure in the hydraulic system can be adjusted accurately and quickly. This results in a setting range of the triggering pressure between 1,200 kg and 1,500 kg. As the trip clearance increases, the force increases to ensure rapid soil re-entry. A central pressure control bank with a total of three or four hydraulic accumulators reliably absorbs high load peaks to protect the machine.

## Safety first

In addition to the NOVA element, a shear bolt is installed to prevent damage to the plough in the event of it colliding with large obstacles. This ensures that the plough bodies and beam are protected from excessive loads. The shear bolt is hardened to ensure clean shearing so that it is easy to replace.

# Cost effectiveness and efficiency



## More traction

Especially in challenging conditions, it is essential to get enough traction to reduce wheel slip. If the tractor wheels slip, they can cause damage to the soil structure with smearing and compaction, which forms a barrier to water, nutrients and plant growth. Boosting traction to achieve efficient progress also reduces fuel consumption per hectare and increases area output.

In addition to optimising tyre pressure and fitting sufficient ballast, SERVO hitch-mounted reversible ploughs offer an extra technical feature to help achieve this. With the integrated TRACTION CONTROL traction booster, power transfer from the tractor to the ground is improved by transferring weight from the plough to the rear axle of the tractor.

## Wear resistant

A high wear resistance of the tillage tools is decisive for a long service life and ensures low wear costs. DURASTAR points and share blades ensure enhanced durability in the most difficult conditions and contribute to long replacement intervals and cost effective ploughing. In addition to reversible points, a particularly robust combined share and point is also available, which demonstrates incredible strength when working in soil with high levels of stones. Reliable soil penetration and perfect work quality are always guaranteed as a result.

- Long service life of the reversible points thanks to tungsten carbide armour plating
- Shares made of hardened boron steel

# SERVO

## Hitch-mounted reversible ploughs



### Easy turnover

The number of days available for working in the field are often limited and need to be used with the highest possible efficiency. Turning the plough over at the headland takes up valuable working time and affects overall output. For large furrow widths and a high number of furrows as well as low lift travel of the tractor hydraulics, the optional plough beam pivot cylinder makes the turnover sequence efficient and trouble-free. Pivoting the entire plough beam towards the centre axis creates a small diameter arc of rotation. The tractor linkage and the turnover mechanism are protected by the lower forces acting on them, and ground clearance is significantly increased. In combination with the hydraulic furrow width adjustment, the servo system only rotates through the necessary arc according to the set furrow width. This saves unnecessary travel. In addition, it is not necessary to reduce the furrow width to a minimum, and the components of the hydraulic furrow width adjustment system are not stressed during the turnover process.

### Ploughing with a furrow press

Ploughing with a furrow press combines two work steps that can be carried out at the same time. Following immediately after ploughing, the loosened soil is consolidated. This helps to protect valuable moisture in the soil from evaporation and make it available to the seed that is going to be sown next, and also also saves on the number of passes, time and money.

The furrow press is drawn along by a large press arm. This is hydraulically decoupled at the headland. The catching position can be adjusted in several steps to guarantee smooth operation with different furrow widths. On SERVO PLUS ploughs with hydraulic furrow width adjustment, the catching position of the press arm is adjusted automatically according to the furrow width. For safe road transport, the press arm can be fixed within the width of the tractor.

# Cost effectiveness and efficiency



## Powerful work

The optional TRACTION CONTROL traction booster can optimise the power transfer from the tractor to the ground. The additional weight applied to the rear axle of the tractor improves the traction of the tractor. The improved traction in turn results in less wheel slip and prevents harmful soil compaction due to smearing. In addition, fuel consumption per hectare ploughed is reduced and output is increased thanks to effective progress.

- Fuel consumption per hectare reduced by up to 10%
- Wheel slip reduced by up to 50 %
- Increased output

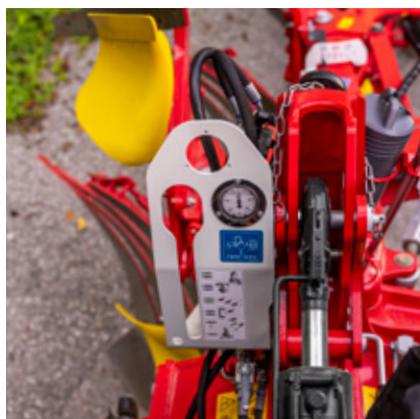
TRACTION CONTROL is available for the SERVO 3000 5-furrow models and all SERVO 4000 models from four to six furrows.

## Increased traction against soil compaction

If the plough is operated using the tractor's active draft control, the electronics permanently regulate the height of the tractor linkage based on the draft required by the plough. This means that the plough is raised slightly in compacted areas to ensure the power requirement remains the same.

With the additional traction provided by TRACTION CONTROL, the plough can be pulled with more control over its position. This reduces the control intensity of the tractor linkage, and the linkage deviates less from its set lifting height. The result is that the plough maintains the same working depth even in compacted areas and the soil is ploughed and loosened at a consistent depth.

# TRACTION CONTROL



## Simple but ingenious

The hydraulic cylinder in the headstock moves the pin of the top link ball in the slotted hole backwards using a lever as soon as the system is under pressure. This pulls the tractor toward the plough slightly using the top link, similar to shortening the top link. This has the effect of applying weight to the rear axle of the tractor. Nevertheless, the plough is free to move within the slotted hole and can adapt to the contours of the ground.

## Weight finely tuned

The additional weight on the tractor's rear axle is finely regulated using the hydraulic system and a single-acting cylinder. The clearly visible pressure gauge on the headstock shows the preloaded pressure in the system. This makes it easy to react to different situations. The load applied to the rear axle can be increased by up to 1,440 kg.

## Constant

To keep the weight transferred to the rear axle of the tractor constant, a hydraulic accumulator filled with nitrogen is integrated into the hydraulic system. This ensures a constant pressure even when driving through dips or over rises. The accumulated compensates for fluctuations in the system pressure.

## TRACTION CONTROL in the field

The Austrian University of Natural Resources and Life Sciences (BOKU)\* in Vienna has tested the system in the field using a SERVO 45 S on medium-heavy soils. They investigated the influence on fuel consumption and on the wheel slip characteristics of the tractor at a working width of 2.60 m and a working depth of 25 cm. The following positive influences with the active traction boost system were determined:

Investigated parameter	without active TRACTION CONTROL	with active TRACTION CONTROL	Efficiency
Fuel consumption	20.5 l/ha	18.4 l/ha	- 2.1 l/ha
Rear wheel slip	4.8%	3.3%	- 1.5% points
Area output	1.94 ha/h	2.07 ha/h	0.13 ha/h

\* Markus Schüller, Gerhard Moitzi, Institute of Agricultural Engineering  
Helmut Wagentristsl, Groß Enzersdorf experimental farm

# Cost effectiveness and efficiency



## Unavoidable but can be mitigated

When ploughing the soil, the tillage tools are subject to unavoidable wear. This depends on various factors. Factors that cannot be influenced are the soil type and the different grain size distributions of the mineral fraction in the soil, and the mineral composition of the soil. In addition, soil density and soil moisture play an important role. In terms of the ploughing process, the driving speed and the ploughing depth also affect the rate of wear of the wear parts.

Tillage tools change their shape and geometry as they become more affected by wear, which can also influence the soil penetration angle, the ploughing effect and pulling power requirements. Special alloys, coatings and armour plating guarantee additional wear protection for more consistent work quality and long tool life.

## Mouldboards to meet all expectations

The requirements placed on mouldboard materials are heavily influenced by the soil conditions. That is why PÖTTINGER offers mouldboards made of different materials that have undergone additional treatment to increase wear resistance.

All mouldboards with the designation Wc DURASTAR and UWc DURASTAR feature an extremely hard outer layer combined with a flexible core. These properties are achieved by carbonising the mouldboard. The softer and more flexible core prevents fractures and cracks. The carbonising process makes the surface finish smoother, reducing wear and preventing soil from sticking.



## Shins

On full metal plate mouldboards, i.e. without slats, the shins are mounted at the point of highest stress. That is why they are made of 8 mm thick fine-grained steel. Components are through-hardened for additional wear resistance. To ensure the best working results over the long term, the shins can be replaced quickly and cost-effectively.



## Share blades

Hardened boron steel is also used for the share blades with a material thickness of 11 mm. For good soil penetration performance, even in hard soil conditions, the share blades are angled forwards along the shin. Depending on the shape of the mouldboard, they are offered with a length of 16 or 18 inches.

## DURASTAR reversible points

The share blades are used in combination with DURASTAR reversible points. These are thermally coated with armoured layers using deposition welding. During this process, tungsten carbide particles are embedded on the surface to form an extremely effective wear protection layer. Because the points can be turned over, it is possible to use both sides, which ensures optimum utilisation of the material and leads to a longer service life. Reliable soil penetration is ensured because the point retains its shape for a long time.

## DURASTAR combined shares and points

For extremely hard and stony soils, DURASTAR combined shares and points are recommended. The full length share with a powerful wear tip guarantees penetration into the soil. Combined shares and points are particularly suitable for shallow ploughing.

# Precise incorporation



## Perfect results

To ensure the best ploughing pattern, PÖTTINGER offers the right mouldboards for all soil types and ploughing strategies. The different lengths and curvatures are available as sold as well as slatted mouldboards. Shallow as well as deep ploughing can be achieved with consistent quality to match your requirements. This creates a “clean slate”. This is the basis for a good start for the next crop.

## More space

The wide furrow bottom clearing of the plough bodies means that wide tractor tyres can be used to conserve the soil. A subsoiler can be added to loosen previous compaction and give plants access to deeper soil layers. As a result, there is then a higher volume of soil to accommodate roots, and there are more nutrients available for the crop.

## For high volumes of residues

Incorporating large quantities of straw and plant residues places special demands on a plough. The underbeam clearance and point-to-point spacing are selectable. As a result, with a high underbeam clearance and sufficient point-to-point spacing, organic matter is reliably conveyed under the soil without blockages. Skimmers and trashboards provide additional assistance with this task. This creates the best conditions for subsequent work steps and has a positive phytosanitary effect. The risk of fungal disease from crop and stubble residues on the soil surface infecting subsequent crops is reduced.

- Underbeam clearance 74, 80 or 90 cm, depending on the model
- Point-to-point spacing 88, 95 or 102 cm, depending on the model
- Wide selection of additional tillage tools for different requirements

# SERVO

## Hitch-mounted reversible ploughs



### Clean and tidy results

The optional disc coultter and landside knife coultter provide a well-defined furrow edge. This is particularly important for field edges and ploughing grassland or whole forage crop fields for clean and tidy working results.

### Up to the edge of the field

The depth wheels mounted close to the plough beam improve fenceline performance. Ploughing to the very edge of the field is possible even with small furrow widths. This means that plant residues and weeds can be incorporated cleanly without crossing the field boundary. This is essential for grasses such as couch grass, which often spread from outside the field. Clean and tidy work from the first to the last furrow is ensured.

### Precision guidance

To achieve satisfactory and uniform working results, constant depth control of the plough is indispensable. The working depth is controlled on the one hand by the tractor's hitch hydraulics, and on the other hand by the depth control wheels on the plough. Depending on the requirements, a choice of proven pivot depth wheels, dual depth wheels and transport pivot wheels are available. To ensure maximum soil conservation, the depth control wheels can be fitted with large pneumatic tyres as an option.

# Precise incorporation

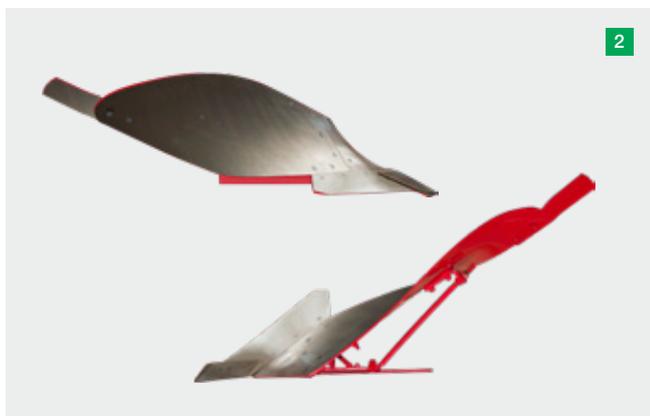


## Long mouldboards

### 1 27 Wc DURASTAR

Low drag resistance, well suited to working on slopes. Ideal for ploughing meadow and flat land with good furrow clearing. Suitable for higher forward speeds.

- Working width up to 45 cm
- Working depth up to 25 cm
- Furrow clearing up to 48 cm



### 2 36 W

Long, curved mouldboard for heavy, sticky soil. Suitable for moderate operating speeds.

- Working width up to 45 cm
- Working depth up to 25 cm
- Furrow clearing up to 40 cm

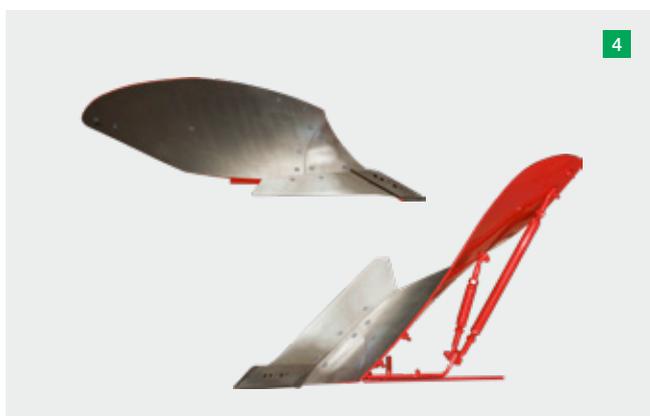


### 3 41 W

Long, curved mouldboard for heavy, sticky soil. Suitable for moderate operating speeds.

- Working width up to 45 cm
- Working depth up to 30 cm
- Furrow clearing up to 45 cm

# Mouldboards



4

## 4 46 Wc DURASTAR

Carbonised mouldboards with highly wear-resistant surfaces for maximum service life. Good tilth and suitable for slopes, low draft in loam and clay soils, also light soil types. A mouldboard for high working speeds without overlapping. Wide furrow clearing, low draft and excellent turning of the furrow ridge are the hallmarks of this mouldboard.

- Working width up to 54 cm
- Working depth up to 35 cm
- Furrow clearing up to 53 cm

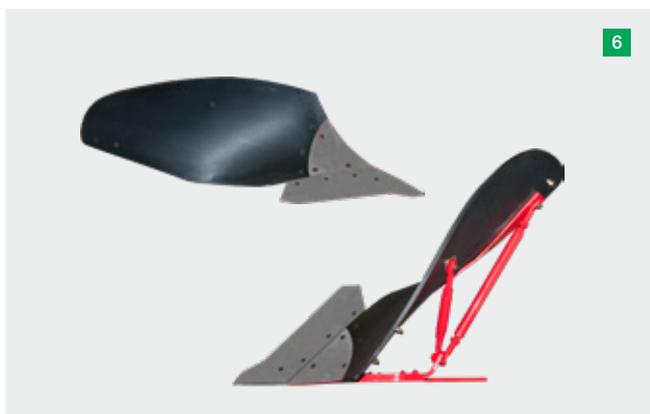


5

## 5 46 Wd

The through-hardened mouldboards are hard and tough across the whole cross-section. Good tilth and suitable for slopes, low draft in loam and clay soils, also light soil types. A mouldboard for high working speeds without overlapping. Wide furrow clearing, low draft and excellent turning of the furrow ridge are the hallmarks of this mouldboard.

- Working width up to 54 cm
- Working depth up to 35 cm
- Furrow clearing up to 53 cm



6

## Synthetic mouldboard

### 6 50 RW

Material Robalon S, 15 mm thick, metal shin, geometry and frog same as the 46 W. Long, curved, high synthetic mouldboard for soils with low stability. Provides wide furrow clearing and soil flows easily along the surface. The 50 RW mouldboard is to be used only with a combined share and point and is not suitable for stony areas.

- Working width up to 54 cm
- Working depth up to 35 cm
- Furrow clearing up to 53 cm

# Precise incorporation



## Universal mouldboard

### 1 36 UWc DURASTAR

Universal mouldboard with very good furrow clearing and excellent tilth at normal working speed. Large quantities of harvest residues are ploughed in tidily. A low draft mouldboard suitable for most soils.

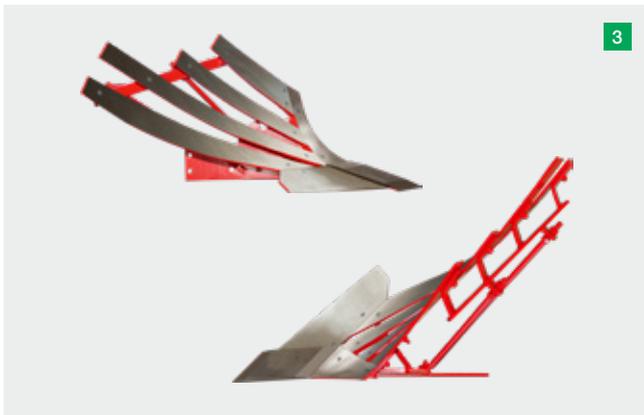
- Working width up to 50 cm
- Working depth up to 30 cm
- Furrow clearing up to 48 cm



### 2 39 UWc DURASTAR

Large universal mouldboard with very good furrow clearing and excellent tilth at normal working speed. Large quantities of harvest trash are ploughed in tidily. A low draft mouldboard suitable for most soils.

- Working width up to 54 cm
- Working depth up to 35 cm
- Furrow clearing up to 50 cm



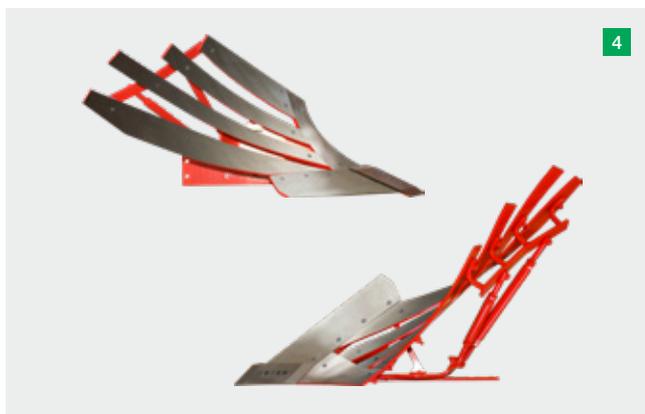
## Slatted mouldboards

### 3 35 WSS

Slatted mouldboard with strong turning characteristics, specially suitable for peaty, medium-density and sticky soil. Especially wide furrow clearing and excellent tilth.

- Working width up to 54 cm
- Working depth up to 35 cm
- Furrow clearing up to 53 cm

# Mouldboards



4

## 4 38 WWS

Low draft slatted mouldboard for excellent crumbling effect in medium to heavy soils (loam, clay). Good furrow cleaning for wide tyres.

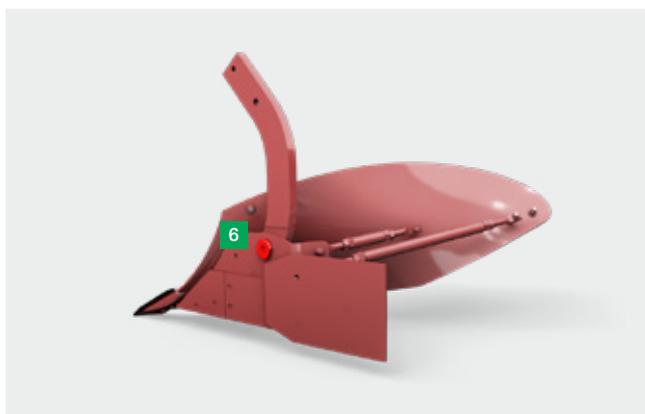
- Working width up to 54 cm
- Working depth up to 30 cm
- Furrow clearing up to 50 cm



5

## 5 DURASTAR mouldboards

DURASTAR mouldboards are carbonised. This does more than just optimise wear resistance. The extremely hard and therefore smooth outer layer ensures a solid working results even when ploughing soils with poor flow characteristics and varying structures.



6

## 6 Angle adjustment

For use on hard and dry soils, the angle of all the plough bodies can be adjusted in relation to the ground in the direction of travel. Each body is tilted forwards or backwards using an offset bolt located on the spindle, which changes the soil penetration characteristics.

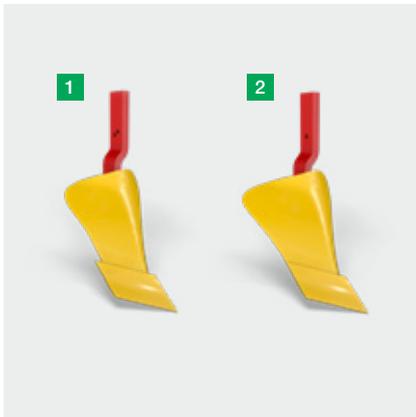
# Precise incorporation

## Skimmer

A wide choice of skimmer geometries achieves the best ploughing pattern for all conditions. The tools support the reliable incorporation of various plant residues for blockage-free work.

### Skimmer adjustable without the need for tools

The depth is adjusted using the hole matrix on the leg without the need for tools. The position of the leg in relation to the mouldboard can be adjusted using the hole matrix on the plough frame. The skimmer is protected against stones by a shear bolt.

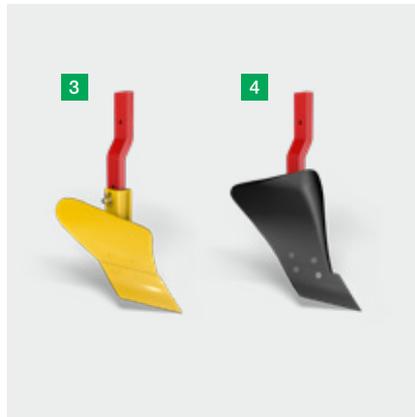


#### 1 V1 skimmer

Designed for all skimmer applications.

#### 2 V2 skimmer

Designed for high volumes of organic matter and deep ploughing.



#### 3 V3 skimmer

Good working results especially when shallow ploughing.

#### 4 V4 RW skimmer

Special synthetic material especially for use on very sticky soils in combination with the 50 RW mouldboard.



#### 5 V6 skimmer

Large, high shape with additional trashboard for incorporating large quantities of organic matter, especially maize straw.

## Skimmers

The various shapes of skimmer are designed to cut the furrow ridge vertically ahead of the plough share. The clean cut makes it easier for the mouldboard to turn the ridge and clear the bottom of the furrow, especially when ploughing crops with high density roots or grassland. This also helps the depth control of the plough because the tractor then drives at a consistent depth with the plough being guided by the tractor hitch.

## Landside knife couler

A simpler alternative to the disc couler is the knife couler, which thanks to its low weight delivers excellent results in soil with low levels of organic residues. Can be mounted on the last furrow, or on all furrows.



### Plain or scalloped disc coulters

- Diameter 500 or 590 mm for optimum adjustment to the working depth with good self-cleaning properties
- Star-shape indentations for added strength
- Especially wide bearing spacing for the highest durability
- Scalloped disc coulters for good rotation in high levels of organic matter

### Spring-mounted couler disc

- Special linkage combined with spiral spring
- Pre-tension adjusted using spindle
- Simple method of avoiding stones and roots
- Only in combination with the NOVA stone protection system
- Plain or scalloped discs

### Adjustable bracket

The horizontal position of the disc couler can be varied using the bracket. Depth is adjusted using toothed segments. On PLUS ploughs the disc couler adjusts automatically according to the furrow width.

- Bracket positioned forward: The disc couler is located in front of the skimmer. Plenty of free space for large volumes of organic matter (such as maize straw, for example).
- Bracket positioned back: The disc couler is close to the skimmer for light, free-flowing soil and shallow ploughing.

# Precise incorporation

In order to ensure precise depth control during ploughing, it is essential that the plough is aligned parallel to the soil surface. In addition to being guided by the tractor linkage, support provided by the depth wheel is also decisive. There is a choice of depth wheel versions available. Depending on the application, model and number of furrows, there is a choice of pivot depth wheels, dual depth wheels and transport pivot wheels. The location of the depth wheel on the plough depends on the version, and can be in front or behind the last furrow. Placing the depth wheel in the forward position supports good fenceline ploughing performance. In this case, the clamping bracket is mounted close to the beam. This means it can plough right up to the edge of the field. Large tyres distribute the weight of the plough over a large surface area to conserve the soil. Optional scrapers are available to keep the tyres clean.



## Pivot depth wheels

The pivot depth wheels are a popular equipment option, especially on smaller ploughs due to their lighter design. The pivot wheel can be positioned in front or behind the last furrow. These are available with pneumatic tyres or a steel rim. When the plough is turned over, the pivot depth wheel pivots to the other side. When the wheel enters the furrow, a mandrel brings it into position. The depth is set using a spindle.

## Dual depth wheels

The dual depth wheel can be positioned in front or behind the last furrow. The forward position is particularly suitable for fenceline ploughing. The wheels are infinitely adjustable separately using spindles, or a convenient hydraulic system is also available. In order to protect the top soil and ensure reliable guidance, the dual depth wheels are available with tyres that conserve the soil and have a large contact surface.

## Transport pivot wheels

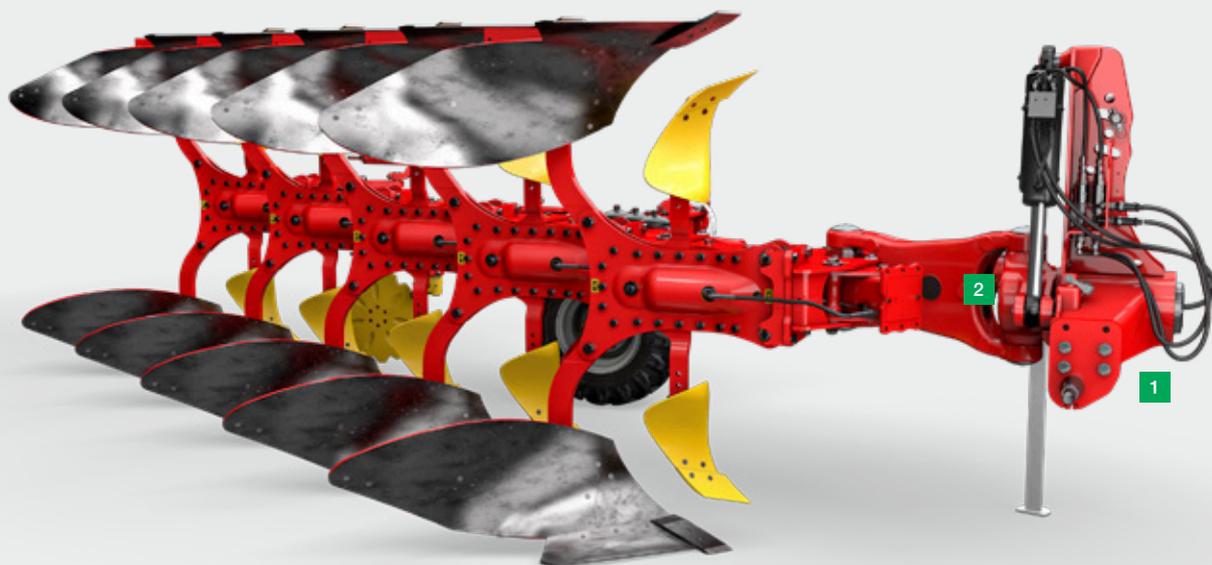
The transport pivot wheels can be positioned behind the last furrow, or in front of it. The rear position provides the best depth control, while the forward position enables good fenceline ploughing. Used as a transport wheel, it enables optimum driving performance on the road for more convenience and enhanced safety. Changing from depth wheel mode to transport wheel mode is done simply by pivoting the wheel unit. Large volume tyres are used for low ground pressure. The mechanically adjustable pivot wheels are hydraulically damped for jolt-free pivoting when turning over the plough.

# Depth and transport wheels

<b>Depth and transport wheels Equipment versions</b>	<b>Available with number of furrows</b>	<b>SERVO 3000</b>	<b>SERVO 4000</b>
Pivot depth wheel 505 x 185 mm steel, plain mechanically adjustable	3 – 5	<input type="checkbox"/>	–
Pivot depth wheel 579 x 264 mm pneumatic tyre, farm cleat profile mechanically adjustable	3 – 5	<input type="checkbox"/>	–
Pivot depth wheel 660 x 305 mm pneumatic tyre, farm cleat profile mechanically adjustable	4 – 5	<input type="checkbox"/>	–
Dual depth wheel 505 x 185 mm steel, plain mechanically adjustable	3 – 5	<input type="checkbox"/>	–
Dual depth wheel 579 x 264 mm pneumatic tyre, farm cleat profile mechanically adjustable	3 – 5	<input type="checkbox"/>	<input type="checkbox"/>
Dual depth wheel 660 x 305 mm pneumatic tyre, farm cleat profile mechanically adjustable	3 – 5	<input type="checkbox"/>	<input type="checkbox"/>
Dual depth wheel 579 x 264 mm pneumatic tyre, farm cleat profile hydraulically adjustable	4 – 5	<input type="checkbox"/>	<input type="checkbox"/>
Dual depth wheel 660 x 305 mm pneumatic tyre, farm cleat profile hydraulically adjustable	4 – 5	<input type="checkbox"/>	<input type="checkbox"/>
Transport pivot wheel behind 579 x 264 mm pneumatic tyre, farm cleat profile mechanically adjustable, hydraulically damped	3 – 5	<input type="checkbox"/>	–
Transport pivot wheel behind 780 x 264 mm pneumatic tyre, farm cleat profile mechanically adjustable, hydraulically damped	4 – 5	–	<input type="checkbox"/>
Transport pivot wheel forward 780 x 264 mm pneumatic tyre, farm cleat profile mechanically adjustable, hydraulically damped	5 – 6	<input type="checkbox"/>	<input type="checkbox"/>
Transport pivot wheel behind 780 x 264 mm pneumatic tyre, farm cleat profile hydraulically adjustable	5 – 6	<input type="checkbox"/>	<input type="checkbox"/>
Transport pivot wheel forward 780 x 340 mm pneumatic tyre, implement profile mechanically adjustable, hydraulically damped	5 – 6	<input type="checkbox"/>	<input type="checkbox"/>
Transport pivot wheel forward 780 x 340 mm pneumatic tyre, implement profile hydraulically adjustable	5 – 6	<input type="checkbox"/>	<input type="checkbox"/>

= optional

# All the advantages at a glance



## 1 Mounting

Versatile three-point headstock can be individually adapted to the tractor with different mounting system categories. Optimised geometry for easy lifting away and perfect power transfer.

## 2 Turnover mechanism

A large turnover unit reduces bearing forces. Reliable beam angle setting thanks to closed beam guide and beam angle lift. The turnover shaft is a thick hollow shaft that also serves as a leadthrough for the hydraulic hoses. These are optimally protected against possible damage.

## 3 SERVOMATIC control centre

The main setting of the SERVOMATIC control centre is based on the inside track width of the tractor. The pulling point is automatically adjusted by the optimised four-joint linkage. Thanks to the floating lower linkage, the plough aligns itself along the ideal tractor-plough pull line.

Thanks to the neat layout of the control centre, each of the adjustment points is easily accessible. The front furrow width is easily adapted mechanically or hydraulically. The pulling point correction take place mechanically and in combination with a plough beam pivot cylinder is integrated into this function. The plough beam pivot cylinder guarantees easy turnover even with a high number of furrows and a large furrow width, while minimising wear.

# SERVO

## Hitch-mounted reversible ploughs



### 4 PLUS

The furrow width of the individual bodies can easily be adjusted from the tractor seat. Depending on the point-to-point spacing and the plough series, different furrow widths can be achieved. The furrow width of the front plough body is adjusted automatically.

### 5 Frame

Thanks to the ingenious plough beam concept and the large main beam section with a reduced number of holes, the frame is extremely robust and resilient to stress. All bearing points and mounted tillage tools are protected by a design that is engineered to minimise the forces acting on them.

### 6 Depth and transport wheels

For perfect depth control, a wide choice of dual depth wheels through to large transport pivot wheels is available, depending on your requirements. The depth control wheels are mounted close to the plough beam to improve fenceline ploughing performance. For a quick change of the working depth, hydraulic depth wheel adjustment is available as an option.

### 7 NOVA stone protection

The hydraulic stone protection system ensures reliable operation in areas with a high number of stones. The integrated hydraulic cylinders are optimally protected and ensure a smooth response when triggered thanks to the central accumulators.

- Triggering pressure can be adjusted between 1,200 kg and 1,500 kg
- Rapid soil re-entry due to increasing pressure after tripping
- Trip clearance 42 cm

## Medium weight reversible ploughs



# SERVO 3000



# Medium weight reversible ploughs



## Universal mid range

The SERVO 3000 represents the mid range of PÖTTINGER hitch-mounted reversible ploughs. Matched to tractors in the medium power class up to 200 hp, this plough features a simple yet impressive control centre and a wide choice of customisable options, tailored to meet your needs.

The plough is available with three to five furrows. Choose between the standard plough, the SERVO 3000 N with innovative NOVA stone protection, the SERVO 3000 P with convenient PLUS furrow width adjustment and the SERVO 3000 PN as the top model with PLUS adjustment and NOVA trip leg system. Ultimately, there is always the right plough to meet your specifications.



## Matches the tractor

The headstock on the SERVO 3000 is specially designed to match the geometry of the linkages on mid-range tractors between 80 and 200 hp. Plough set-up can be optimised using the various adaptation options for the attachment points. This means that the plough is easy to lift away even for tractors with a lower hitch capacity.



## Reliable turnover

The hollow turnover shaft with a diameter of 110 mm ensures a long service life of the turnover mechanism on the SERVO 3000. The hydraulic hoses for the optional hydraulic functions are routed through the shaft so that they are protected. This prevents kinking and damage to the hoses during the turnover process.

## Choice of point-to-point spacing

To meet a wide range of practical requirements, three different point-to-point spacings are available on the medium series hitch-mounted reversible ploughs. The wide spacing of 102 cm is designed particularly for incorporating high volumes of organic matter and features impressive clearance. On ploughs with hydraulic stone protection, in addition to a point-to-point spacing of 95 cm, a shorter spacing of 88 cm is also available, making the plough more compact to the rear and reducing the leverage forces. The point-to-point spacing of 95 cm combines a large clearance with a compact design.

## Versatile depth control

In addition to adjusting the tractor hitch, the depth wheel on the plough is essential for optimum depth guidance. The SERVO 3000 offers a choice of configurations, ranging from the straightforward pivot depth wheel and dual depth wheel, to the transport pivot wheel located in the forward or rear position. Positioning the pivot wheel further forward is perfect for fenceline work so that it is possible to plough right up to the edge of the field. This enables the entire field to be cultivated, preventing the spread of weeds from the edge of the field.

## Heavy reversible ploughs



# SERVO 4000



# Heavy reversible ploughs



## Power without compromise

Engineered to handle the toughest work and highest loads, working with powerful tractors, delivering an impressive output: these SERVO 4000 hitch-mounted reversible ploughs combine everything in one implement. With four to six furrows and a furrow width of up to 59 cm, an overall working width of up to 3.54 metres can be achieved. To do this, the plough can be pulled by tractors with up to 360 hp.

In order to make the most cost effective use of this tractor power, even in stony soils, SERVO 4000 N ploughs are available with NOVA hydraulic stone protection. For maximum flexibility, the SERVO 4000 P is available with the proven PLUS furrow width adjustment system. The SERVO 4000 PN combines both systems for maximum flexibility as well as efficient and reliable operation in the field.



## Successful turnover

The heart of the turnover mechanism on the SERVO 4000 is a hollow shaft with a diameter of 130 mm. Due to the wide bearing spacing and the large taper roller bearing, the forces on the bearing are reduced, resulting in a long service life. At the same time, the hollow shaft serves as a leadthrough for the hydraulic hoses.



## More pull

All SERVO 4000 models can be equipped with the optional TRACTION CONTROL system to boost power to the ground. Transferring weight to the rear axle of the tractor improves traction. The result is reduced wheel slip, which guarantees efficient forward movement. In addition, reduced wheel slip results in lower fuel consumption and less soil compaction due to smearing.

## Full-length strength

The full length 140 x 140 mm plough beam tube is specially built to remain completely straight and achieve even tighter bolted connections. To ensure the increased strength of the beam, the number of holes in the centre of the tube have been reduced to a minimum. The large dimension main beam section ensures optimum power transmission from the tractor to the plough.

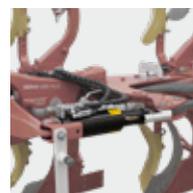
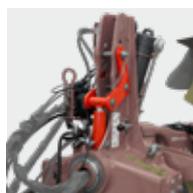
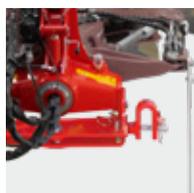
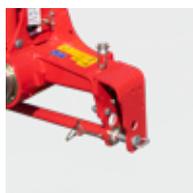
## Pivot to the centre

The optional plough beam pivot cylinder, which is standard on 6-furrow ploughs, makes the turnover process more efficient and easier. Pivoting the beam to the centre before the plough is turned over reduces its outreach while increasing ground clearance.

The hydraulic furrow width adjustment remains completely unaffected. This protects the bearing points on the individual bodies and prevents wear.

In addition, the integrated hydraulic servo system ensures that SERVO 4000 P and PN ploughs are only pivoted by exactly the necessary amount. By interacting with the PLUS cylinder, the movement of the plough beam pivot cylinder is controlled by the set furrow width.

# Accessories



SERVO (number of furrows)	Mounting axle with double bearing	Steered axle Cat. II	TRACTION CONTROL	Hydraulic first furrow setting	Plough beam pivot cylinder
SERVO 3000 (3/4/5)	- / - / -	□ / □ / □	- / - / □	□ / □ / □	□ / □ / □
SERVO 3000 N (3/4/5)	- / - / -	□ / □ / □	- / - / □	□ / □ / □	□ / □ / □
SERVO 3000 P (3/4/5)	- / - / -	□ / □ / □	- / - / □	□ / □ / □	□ / □ / □
SERVO 3000 PN (3/4/5)	- / - / -	□ / □ / □	- / - / □	□ / □ / □	□ / □ / □
SERVO 4000 (4/5/6)	□ / □ / □	□ / □ / -	□ / □ / □	□ / □ / □	□ / □ / ■
SERVO 4000 N (4/5/6)	□ / □ / □	□ / □ / -	□ / □ / □	□ / □ / □	□ / □ / ■
SERVO 4000 P (4/5/6)	□ / □ / □	□ / □ / -	□ / □ / □	□ / □ / □	□ / □ / ■
SERVO 4000 PN (4/5/6)	□ / □ / □	□ / □ / -	□ / □ / □	□ / □ / □	□ / □ / ■



SERVO (number of furrows)	Leg deflector	Trashboard	Landside protector on all bodies <sup>1</sup>	Furrow widener	Subsoiler
SERVO 3000 (3/4/5)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 3000 N (3/4/5)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 3000 P (3/4/5)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 3000 PN (3/4/5)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 4000 (4/5/6)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 4000 N (4/5/6)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 4000 P (4/5/6)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □
SERVO 4000 PN (4/5/6)	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □	□ / □ / □

■ = Standard, □ = Optional

N = NOVA, P = PLUS, PN = PLUS NOVA

<sup>1</sup> Landside protector on last body as standard

# Often ordered together



DURASTAR point	Combined share and point	Skimmer	Plain or scalloped disc coulters	Plain or scalloped spring mounted disc coulters	Landside knife coulters
■/■/■	□/□/□	□/□/□	□/□/□	-/-/-	□/□/□
■/■/■	□/□/□	□/□/□	-/-/-	□/□/□	□/□/□
■/■/■	□/□/□	□/□/□	□/□/□	-/-/-	□/□/□
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■/■/■	□/□/□	□/□/□	-/-/-	□/□/□	□/□/□



Scraper on transport pivot wheel	Press arm	Lighting
-/-/□	□/□/□	□/□/□
-/-/□	□/□/□	□/□/□
-/-/□	□/□/□	□/□/□
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□/□/□	□/□/□	□/□/□

# Technical data



## Medium weight hitch-mounted reversible ploughs

	Number of furrows	Underbeam clearance	Point-to-point spacing	Frame gauge
SERVO 3000	3	80 cm	95 / 102 cm	120 x 120 x 10 mm
	4		95 / 102 cm	
	5		95 / 102 cm	
SERVO 3000 N	3	74 / 80 cm	88 / 95 / 102 cm	120 x 120 x 10 mm
	4		88 / 95 / 102 cm	
	5		88 / 95 cm	
SERVO 3000 P	3	80 cm	95 / 102 cm	120 x 120 x 10 mm
	4		95 / 102 cm	
	5		95 / 102 cm	
SERVO 3000 PN	3	74 / 80 cm	88 / 95 / 102 cm	120 x 120 x 10 mm
	4		88 / 95 / 102 cm	
	5		88 / 95 cm	



## Heavy hitch-mounted reversible ploughs

SERVO 4000	4	80 / 90 cm	95 / 102 cm	140 x 140 x 10 mm
	5		95 / 102 cm	
	6		95 / 102 cm	
SERVO 4000 N	4	80 cm	95 / 102 cm	140 x 140 x 10 mm
	5		95 / 102 cm	
	6		95 cm	
SERVO 4000 P	4	80 / 90 cm	95 / 102 cm	140 x 140 x 10 mm
	5		95 / 102 cm	
	6		95 / 102 cm	
SERVO 4000 PN	4	80 cm	95 / 102 cm	140 x 140 x 10 mm
	5		95 / 102 cm	
	6		95 cm	

<sup>1</sup> Minimum transport length with 95 cm point-to-point spacing incl. lighting

<sup>2</sup> Basic weight without additional tools

# SERVO

## Hitch-mounted reversible ploughs

Turnover shaft diameter	Mounting category	Power requirement	Transport length <sup>1</sup>	Basic weight <sup>2</sup>
110 mm	Cat.II/2 / Cat.III/2 / Cat.III/3	80 – 110 hp	3.1 m	1,130 kg
		90 – 140 hp	3.9 m	1,300 kg
		120 – 200 hp	4.8 m	1,480 kg
110 mm	Cat.II/2 / Cat.III/2 / Cat.III/3	90 – 120 hp	3.6 m	1,330 kg
		100 – 160 hp	4.4 m	1,530 kg
		140 – 200 hp	5.3 m	1,740 kg
110 mm	Cat.II/2 / Cat.III/2 / Cat.III/3	80 – 110 hp	3.1 m	1,170 kg
		90 – 140 hp	3.9 m	1,370 kg
		120 – 200 hp	4.9 m	1,580 kg
110 mm	Cat.II/2 / Cat.III/2 / Cat.III/3	90 – 120 hp	3.6 m	1,480 kg
		100 – 160 hp	4.4 m	1,680 kg
		140 – 200 hp	5.4 m	1,900 kg
130 mm	Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 3 / Cat. IV / 3	140 – 280 hp	4.2 m	1,630 kg
		170 – 320 hp	5.2 m	1,900 kg
		180 – 360 hp	6.2 m	2,120 kg
130 mm	Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 3 / Cat. IV / 3	180 – 300 hp	4.9 m	1,830 kg
		200 – 360 hp	5.8 m	2,160 kg
		220 – 360 hp	6.7 m	2,460 kg
130 mm	Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 3 / Cat. IV / 3	140 – 280 hp	4.0 m	1,650 kg
		170 – 320 hp	5.0 m	1,930 kg
		180 – 360 hp	6.0 m	2,200 kg
130 mm	Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 2 / Cat. III / 3 / Cat. IV / 3 Cat. III / 3 / Cat. IV / 3	180 – 300 hp	4.7 m	1,850 kg
		200 – 360 hp	5.6 m	2,180 kg
		220 – 360 hp	6.5 m	2,520 kg



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# ORIGINAL PARTS



CLASSIC

**DURASTAR**

**DURASTAR PLUS**

## Rely on the original

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

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

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 arable and grassland
- Future-safe innovation for outstanding working results
- Roots in Austria - at home throughout the world

## SERVO hitch-mounted reversible ploughs

- A robust frame construction and NOVA stone protection system ensure relentless operation in all conditions.
- Easy adjustment of all the relevant settings assisted by hydraulics and easy accessibility.
- The best quality tilth with reliable incorporation of plant residues and straw produce a clean and tidy ploughing pattern.

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