

# SERVO 6,50

PÖTTINGER Semi-mounted ploughs





# Output for large areas

## SERVO 6.50

The SERVO 6.50 semi-mounted ploughs combine the characteristics of a mounted plough with those of a semi-mounted plough. Tractive force is transferred directly to the plough beam by the main beam bearing, whilst the land wheel is guided by a steering linkage.

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All information on technical data, dimensions, weights, output, etc. is approximate and is not binding.

# SERVO 6.50

For tractors up to 265 kW / 360 hp



## Robust headstock for long service life

The headstock consists of Cat. 3 clevis type mounting lugs, with a fold away parking stand. The ploughs heavy duty turn over shaft is equipped with mounted bearings which allow smooth turn over. Manoeuvres are made easier and the tractors turning angle is increased dramatically due to the wide angled turn over shaft.

## Intelligent design

Minimum crabbing and maximum directional stability thanks to reversing axle headstock being close to the tractor and providing ideal straight pull line. Tractive force is transferred directly to the plough beam via the main plough beam bearing right at the front – positive pull line similar to a mounted plough.

- The first plough body is positioned far forwards – compact, manoeuvrable design.
- The support wheel is guided by a steering linkage.
- Quick setting of front furrow width with a large adjustment range – mechanical or hydraulic.

### **Extra strong plough beam tube 7x7" / 180 x 180 mm (1)**

The extremely strong plough beam, made from micro-alloyed fine grain steel, is designed for tractors up to 265 kW / 360 hp.

- Solid leg mountings on both sides with replace with shear bolt as overload protection on standard and PLUS ploughs.
- The body brackets are hardened for the hardest of work.



## Support wheel 500/45-22.5

Set working depth using the tractor hitch and fine tune at the land wheel – quick and easy to find the correct position with swing clips at 0.59" / 15 mm intervals. The wheel is within the path of the plough beam – ideal for fence line ploughing.



## TRACTION CONTROL

TRACTION CONTROL is available as an option to provide defined loading of the tractor rear axle. A cylinder connected to gas accumulators transfers constant weight to the tractor's rear wheels. The loading pressure can be adjusted from the tractor. The great advantage with TRACTION CONTROL: Less wheel slip; greater fuel savings.

- Lighter tractors can work with more furrows – more cost effective.
- Switches off automatically in the transport position and while turning.

### Assessment of the influence of TRACTION CONTROL on fuel consumption and wheel slip:

Performance and consumption data for medium-heavy soil, working width 8.52' / 2.60 m, working depth 9.84" / 250 mm

Driving strategy	without TRACTION CONTROL	with TRACTION CONTROL	Efficiency
Performance	4.79 acres/h / 1.94 ha/h	6.67 acres/h / 2.07 ha/h	+ 0.32 acres/h / 0.13 ha/h
Diesel consumption	1.82 gal/acre / 20.5 l/ha	1.63 gal/acre / 18.4 l/ha	- 0.19 gal/acre / 2.1 l/ha
Diesel consumption	8.73 gal/h / 39.7 l/h	8.36 gal/ha / 38.0 l/h	- 0.37 gal/h / 1.7 l/h
Wheel slip	4.8 %	3.3 %	- 1.5 %

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# SERVO 6.50

Impressive advantages



## Optimum landside pressure

The large wheel absorbs lateral pressure for low drag, low wear ploughing. Landside heels on the last furrow are standard.



## Furrow width adjustment

On standard ploughs the furrow width can be adjusted in five stages using a hole matrix on the beam and a turnbuckle on the control rod. On the SERVO 6.50 PLUS ploughs, the furrow width is adjusted using a hydraulic cylinder.



## Front furrow width

On the standard version, the furrow width of the leading body is set using a turnbuckle on the main beam, with hydraulic adjustment available as an option. On SERVO 6.50 PLUS ploughs, hydraulic adjustment is standard equipment.

- Set the desired furrow width of the plough smoothly and swiftly.
- Widest possible range of furrow width for the leading body – ideal on slopes and in difficult soil conditions.



## Powerful reversing system

The turnover shaft is equipped with large dimensioned tapered roller bearings. The reversing operation of the plough is carried out smoothly and reliably by two large telescopic cylinders.

- Separate and accurate camber adjustment if completed via two adjusting screws.
- Easy mounting and dismounting of the plough is achieved with the parking leg in position.

## Optimal pull line

The pull line runs ideally through the rear axle because the turnover shaft on the headstock is located so close to the tractor. This results in minimum crabbing and maximum traction performance.



## Practical hose arrangement

Hydraulic connections are made easier with coloured markers and all hoses intuitively grouped through a hose bracket.

## Safe transport

For transport, the plough is turned to the central position and both telescopic cylinders are lockable via shut-off valves.



# SERVO 6.50 PLUS

With hydraulic furrow width adjustment



## Infinitely variable adjustment

### SERVO 6.50 PLUS / SERVO 6.50 PLUS NOVA

**On the SERVO 6.50 PLUS, furrow width is adjusted hydraulically via the hydraulic cylinder. Unique system: The furrow width of the leading body is set at the same time and can be fine tuned hydraulically at the main beam bearing.**

- This provides optimum tractor efficiency and maintains excellent ploughing results at all times.
- All additional adjustments adapt to it correctly and automatically.

SERVO PLUS adjustment system with lever control and pivot point located away from the plough beam.

- Smooth adjustment thanks to long adjusting lever.
- Protects the parallel linkage and pivot points.

The SERVO PLUS system is designed to allow hydraulic furrow width adjustment during ploughing. The hydraulic cylinder has a check valve so that the hoses are not under pressure during ploughing.

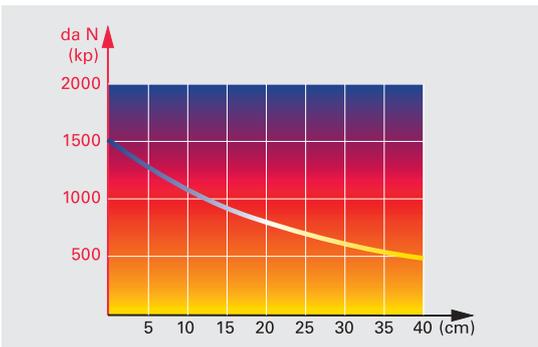
### Durable construction

All important pivot points have the ability to be lubricated and also have wear resistant, replaceable spring steel bushes for the highest pressure demands.



# SERVO 6.50 NOVA

Hydro-mechanical stone protection



## NONSTOP ploughing in stony soil

### SERVO 6.50 NOVA / SERVO 6.50 PLUS NOVA

With its variable hydraulic triggering pressure, the SERVO NOVA system adapts the plough to different soil types. Each pair of plough bodies has its own hydraulic accumulator which allows upward movement of up to 15.7" / 400 mm. The lubricated pivot points and additional shear bolts guarantee a long service life.

- Individual accumulator for each pair of bodies; the central filling system is standard on all SERVO 6.50 NOVA ploughs.
- Smooth, flexible triggering protects both plough and tractor.
- The gas accumulators are mounted on the inside of the plough legs for protection.
- Spring-mounted disc coulters roll over rocks without the risk of damage.

This system has a very clever triggering pressure system: The leg does not trip until the set resistance has been reached. Then the pressure required to trigger the leg reduces as the leg rises. This leads to no digging or loosing of big rocks and therefore protects the whole plough.

- On re-penetrating the soil, the pressure increases to ensure reliable penetration in heavy, dry soil.
- Set the trigger point quickly and easily using the pressure gauge on the headstock.

### Proven system

SERVO 6.50 NOVA ploughs with stone protection provide maximum reassurance. Ploughing without stopping means full productivity even in stony soil.

# SERVO technology

Durable – Reliable – High quality



## Proven plough body configuration

### Body

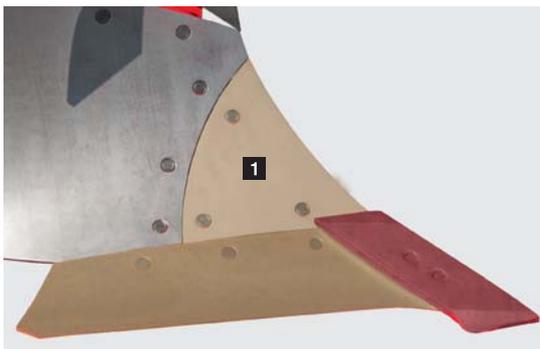
The frog is tempered to provide maximum strength and stability for mouldboards or slats. The single piece shares sit on a forged raised part to give a precise, durable joint.

### Large landsides for reliable plough tracking

The landsides can be used four times to ensure cost efficient use of the parts. Landside protector standard on last body – great stability on slopes.

### Share blades (1)

Share blades made from 0.31" / 8 mm hardened fine grain steel are used on mouldboards in the area of greatest wear. They are quick and easy to replace.



## Angle adjustment

An offset allows adjustment of body angle (2). For reliable penetration, even on extremely hard, dry soils.





## Share and point options

### Chisel points

Single piece points are reversible for reduced operating costs. The single piece points are manufactured from hardened boron steel and guarantee good plough penetration in all soil conditions.

Chisel points with deposition welding available as an option.

### Shares

All shares are manufactured from hardened boron steel. Increasing the hardened wear zone extends service life by up to 50%. The 0.43" / 11 mm thick shares have a total width of 5.91" / 150 mm.

The forward taper aids good penetration and has the effect of being self-sharpening.

### Full-length share points

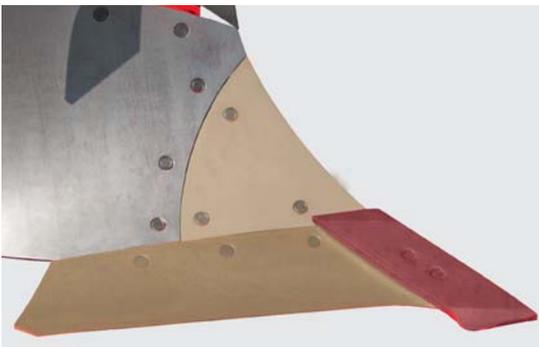
with powerful wear points. A large angle guarantees good penetration. Highly suitable for stony soils and shallow ploughing.

- Armoured share points are available as an option.
- Recommended especially for SERVO 6.50 NOVA ploughs with hydraulic stone protection.

### Knife share

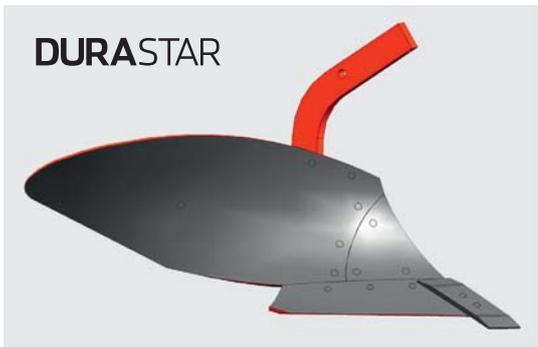
Vertical blades welded to the shares improve crumbling as they split the furrow ridge down the middle.

- Promotes frost action and increases post drying effect.
- Reversible chisel points



# SERVO technology

Durable – Reliable – High quality



**DURASTAR**



## DURASTAR

### **Hardened right through and carbonised**

Hardened right through means consistent hardness across the whole cross-section. Carbonised: Substrate material core is elastic. Proven plough mould boards, hardened right through, guarantee excellent results in compact soils (heathland, black-earth soil, etc.). Mouldboards with a special carbonised layer are characterised by impressive durability thanks to a super-hard 09" / 2.3 mm-thick surface on both sides of the board and a more elastic core. This combination ensures optimum ploughing results in soils with a variable or sticky structure.

- Longer service life than 3-layer plate.
- Improved soil flow reduces sticking.
- Developed and manufactured by PÖTTINGER.
- Available for 27 Wc, 46 Wc, 36 UWc, and 39 UWc mouldboards.

### **Mouldboards**

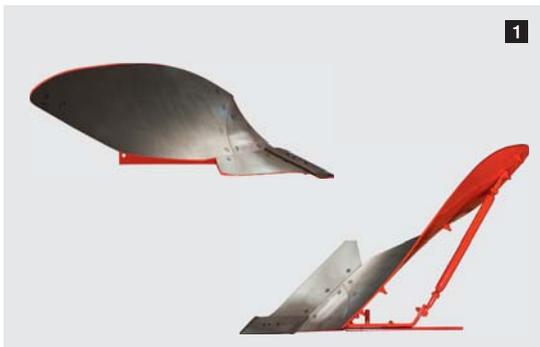
0.32" / 8 mm hardened fine grain steel – extremely resistant to wear.

### **Slatted boards**

Slats 0.39" / 10 mm thick and hardened right through – extremely resistant to wear. Gap between slats gets wider further back to prevent stones from becoming trapped.

### **Armoured chisel points and chisel shares**

Chisel points and shares with deposition welding are also available for extreme wear resistance.



1

## Long, curved, mouldboard

### **27 Wc DURASTAR (1)**

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

- Working width up to 17.2 inch / 450 mm
- Working depth up to 9.84 inch / 250 mm
- Furrow clearance up to 18.9 inch / 480 mm

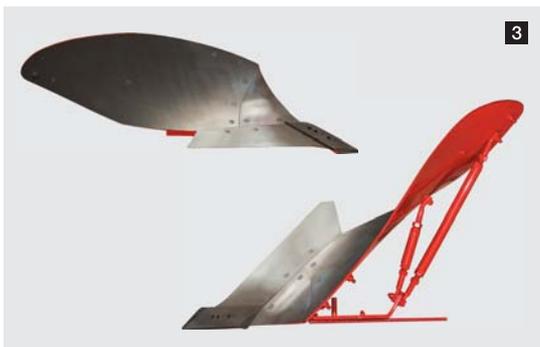


2

### **41 W (2)**

Long, curved mould board for heavy, sticky soil. Moderate working speed.

- Working width up to 17.2 inch / 450 mm
- Working depth up to 11.81 inch / 300 mm
- Furrow clearance up to 17.2 inch / 450 mm



3

### **46 Wc DURASTAR (3)**

Good crumbling effect and suitable for slopes, low drag resistance in loam and clay soils, also light soil types. A body for high working speeds without overlapping. Wide furrow clearance, low draft and excellent turning of the soil ridge are the hallmarks of this mouldboard.

- Working width up to 21.26 inch / 540 mm
- Working depth up to 13.78 inch / 350 mm
- Furrow clearance up to 20.87 inch / 530 mm



## Universal body

### **36 UWc DURASTAR (1)**

Universal mouldboard with very good furrow clearance and excellent crumbling 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 9.68 inch / 500 mm
- Working depth up to 11.81 inch / 300 mm
- Furrow clearance up to 18.90 inch / 480 mm



### **39 UWc DURASTAR (2)**

Large universal mouldboard with very good furrow clearance and excellent crumbling 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 21.26 inch / 540 mm
- Working depth up to 13.78 inch / 350 mm
- Furrow clearance up to 9.68 inch / 500 mm



3

## Slatted boards

### 35 WSS (3)

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

- Working width up to 21.26 inch / 540 mm
- Working depth up to 13.78 inch / 350 mm
- Furrow clearance up to 20.87 inch / 530 mm



4

### 38 WWS (4)

Low-drag resistance body with curved slats for excellent crumbling effect in medium to heavy soils (loam, clay). Good furrow clearance – ideal for wide tyres.

- Working width up to 21.26 inch / 540 mm
- Working depth up to 11.81 inch / 300 mm
- Furrow clearance up to 19.68 inch / 500 mm

# SERVO technology

For a tidy surface and furrow



## Disc options

**A clean disc coultter cut guarantees precise turning of the ridge and a clean furrow.**

## Disc coultters, smooth or scalloped

- 19.68 or 23.23" / 500 or 590 mm diameter with good self-cleaning characteristics.
- Star-shape indentations keep disc coultters rotating.
- Especially wide bearing spacing for highest durability.
- Scalloped disc coultters rotate well in high levels of organic matter.
- One bracket for Standard and PLUS ploughs. Depth is adjusted using toothed segments.
- Adjustable bracket.



## Spring-mounted coultter disc

Spring-mounted coultter discs are available for SERVO NOVA ploughs with overload protection.

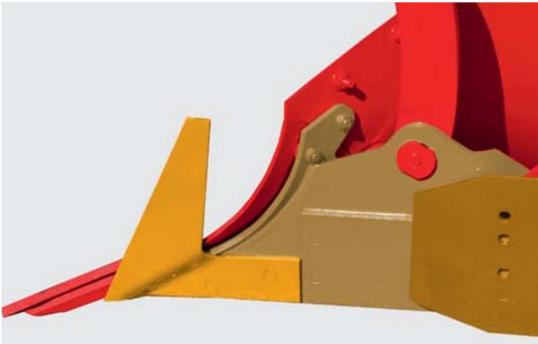
### Adjustable bracket

- Mounting moved forward so the disc coultter is in front of the skimmer. Plenty of space for large quantities of maize straw and organic matter. **(1)**
- Mounting moved back so the disc coultter is close to the skimmer for light, free flowing soil and shallow ploughing. **(2)**



## Knife couler

The landside knife couler is a cost effective alternative to the disc couler – from 8.66" / 220 mm working depth.



## Trashboards

The alternative to skimmers for shallow ploughing and stony soil. **(3)**



## Leg deflector

Leg deflectors improve ploughing results in large quantities of organic matter while protecting the leg. **(4)**



# SERVO technology

For a tidy surface and furrow



## Skimmer adjustable without tools

Same shank for all skimmers with multi-stage depth adjustment – no tools required. Distance from the plough body is adjustable via the hole matrix. Each skimmer is equipped with its own shear bolt.

**Suitable skimmer shapes mean there are no crop residues on the surface after ploughing.**

### V1 universal skimmer

- Suitable for all conditions including maize straw.

### V2 maize skimmer

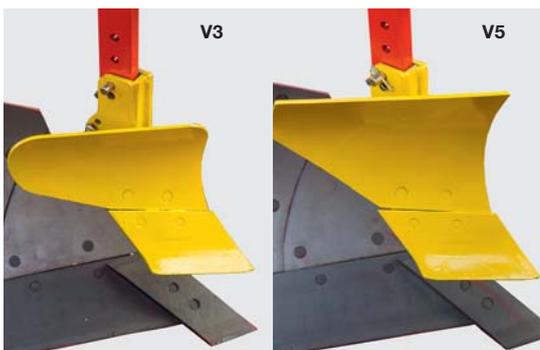
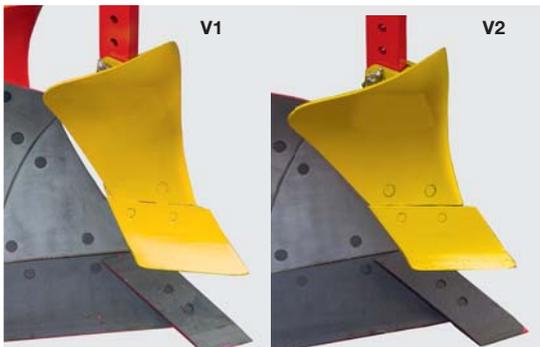
- For large quantities of organic matter, catch crops and deep tillage.

### V3 universal skimmer

- Suitable for shallow working depths.

### V5 maize skimmer

- Large, high skimmer board suitable for working in high volume harvest residues and for very deep ploughing.





## Ploughing with a furrow press

- The press is collected by the press arm's large jaw. It is hydraulically released before the plough is reversed.
- A five-position mounting bracket means the press can be set for different working widths. A tension spring pivots the press arm into the set catching position after releasing.
- On SERVO PLUS ploughs, the catching position is maintained precisely even if the furrow width is changed.
- The press arm can be fixed within the tractor width for road transport.
- The entire press arm can be removed quickly and easily.

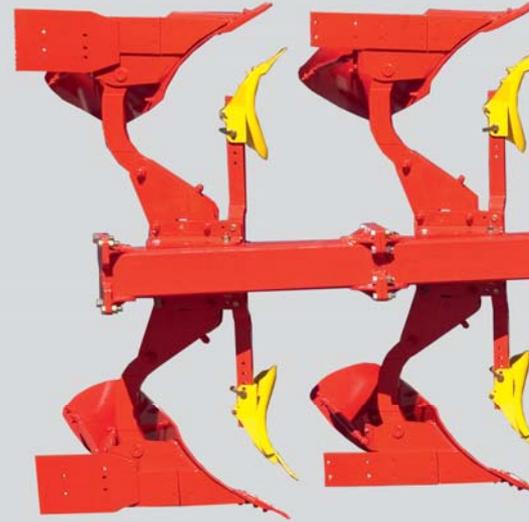


## Furrow widener for wide tyres

Furrow wideners are available as an option for all ploughs and mould boards. These can only be used without disc coulters.



# SERVO technology



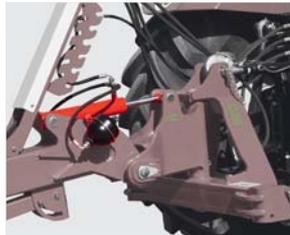
	<b>SERVO 6.50</b>	<b>SERVO 6.50 PLUS</b>	<b>SERVO 6.50 NOVA</b>	<b>SERVO 6.50 PLUS NOVA</b>
Furrow width, inch	12.6 / 14.96 / 16.92 / 18.90 / 21.26	9.84 – 21.26	12.6 / 14.96 / 16.92 / 18.90 / 21.26	9.84 – 21.26
Furrow width, mm	320 / 380 / 430 / 480 / 540	250 – 540	320 / 380 / 430 / 480 / 540	250 – 540
Beam cross-section, inch / mm	7.09 x 7.09 x 0.39 / 180 x 180 x 10		7.09 x 7.09 x 0.39 / 180 x 180 x 10	
Body mounting (leg), inch / mm	3.15 x 1.38 / 80 x 35		3.15 x 1.38 / 80 x 35	
Underbeam clearance, inch / mm	31.5 / 800, option 35.4 / 900		31.5 / 800, option 35.4 / 900	
Inter-body spacing, inch / mm	40.2 / 1020		40.2 / 1020	
Weight 6-furrow, lbs / kg	6658 / 3020	6878 / 3120	7716 / 3500	7959 / 3610
Weight 7-furrow, lbs / kg	7264 / 3295	7517 / 3410	8499 / 3855	8774 / 3980
Weight 8-furrow, lbs / kg	7870 / 3570	8157 / 3700	9281 / 4210	9590 / 4350
Weight 9-furrow, lbs / kg	8477 / 3845	8796 / 3990	–	–



**SERVIO**  
Hydraulic furrow width adjustment of leading body



Furrow widener



TRACTION CONTROL



Landside protector on all bodies

6.50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 PLUS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 NOVA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 PLUS NOVA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

■ = standard, □ = optional



**SERVIO**  
Furrow press extension arm



Subsoiler



Marker boards and lighting

6.50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 PLUS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 NOVA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.50 PLUS NOVA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

■ = standard, □ = optional



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