PÖTTINGER SERVO 6.50

Semi-mounted ploughs

97+212.02.0209

PÖTTINGER

SERVO 6.50

Productivity for large areas

The farmer‘s most valuable asset is his land. High performance and efficiency are essential to maintain a foothold in the market place. The new SERVO 6.50 semi-mounted plough combines the characteristics of mounted and semi-mounted ploughs. Tractive forces are transferred directly to the plough beam via the main plough frame bearing. The transport wheel is steered by a control rod. Infinitely variable adjustment of control rod length (mechanical or hydraulic) sets front furrow working width.

SERVO 6.50 – The new generation of semi-mounted ploughs from Pöttinger – convincing advantages at a glance:

■ Robust headstock

Double-sided linkage lugs and reversing shafts with robust bearings. Clearly arranged, grouped hoses with a hose bracket. Folding parking leg. Angled reversing shaft for maximum clearance when manoeuvering.

■ Innovative construction for ideal pull line

Minimum side pull and maximum directional stability because headstock turnover shaft is close to the tractor. Ideal pull line.

■ Strong reversing mechanism

The turnover shafts are fitted with large taper roller bearings. Smooth, reliable reversing via two large telescopic cylinders. Excellent stability on all terrain.

■ Intelligent frame construction

Tractive force is transferred directly to the plough beam via the main plough frame bearing right at the front – good tractive force, similar to mounted ploughs. Plough beam: 7 in x 7 in / 180 x 180 mm, beam thickness: 0.4 in / 10 mm.

■ Resilient body mounting

The leg mounting brackets on both sides are designed to take high loads. On both standard ploughs and plus ploughs, a breakaway bolt protects the bodies from overloading.

... for maximum performance in the field.

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Improved traction with Traction Control

"Traction Control" (optional) provides targeted 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.

For tractors up to 265 kW / 360 HP

Soil protection, minimal side pull, minimum landside pressure, very low drag.

Ploughs to meet all requirements

Plough model	Furrows		Underbeam		lbs / kg
SERVO 6.50 standard ploughs with stepped furrow widths: 33–38–43–48–53 cm	6 (5 + 1)	Plough-beam 7.09“ x 7.09“ 180 x 180 mm	Underbeam Clearance 31.5“ 800 mm Option 35.43“ 900 mm	Point to Point Clearance 40.16“ 1020 mm	6658/3020
	7 (6 + 1)				7264/3295
	8 (7 + 1)				7870/3570
	9 (8 + 1)				8476/3845
SERVO 6.50 plus with hydraulic furrow-width adjustment 33 – 53 cm	6 (5 + 1)				6878/3120
	7 (6 + 1)				7518/3410
	8 (7 + 1)				8157/3700
	9 (8 + 1)				8796/3990
SERVO 6.50 nova standard ploughs with hydraulic stone protection,	6 (5+ 1)	Leg 3.15 x 1.38” 80 x 35 mm	Underbeam clearance 31.5“ 800 mm		7716/3500
	7 (6 + 1)				8499/3855
	8 (7 + 1)				9281/4210
SERVO 6.50 plus nova with hydraulic furrow-width adjustment and hydraulic stone protection	6 (5 + 1)				7959/3610
	7 (6 + 1)				8774/3980
	8 (7 + 1)				9590/4350

All data not binding, features may vary from country to country.

- **Robust headstock for long service life**
  Double-sided linkage lugs, cat. 3. The reversing shafts are generously sized and mounted on bearings. Folding parking leg. The angled reversing shafts provide maximum clearance between the tractor and plough for shorter turning manoeuvres.
- **Intelligent frame construction**
  Tractive force is transferred directly to the plough beam via the main plough frame bearing right at the front – positive tractive force, similar to mounted ploughs. The first plough body is a very long way forwards – compact, manoeuvrable design. The transport wheel is steered by a control rod. Quick setting of front furrow width with a large adjustment range – mechanical or hydraulic.
- **Extra-strong plough beam**
  The extremely strong plough beam, made from micro-alloyed fine grain steel, is designed for tractor power of up to 360 HP. Solid leg mountings on both sides with breakaway bolt as overload protection on standard and plus ploughs. The body brackets are hardened – for the hardest of work.
- **The great advantage of Traction Control:**
  No damaging compaction at the headland due to the extreme rear axle loads that occur when lifting mounted ploughs.
  Lighter tractors working with more furrows – more cost-effective.
- **Safe transport**
  For transport, the plough is turned to the central position and both telescopic cylinders are lockable via shut-off valves.

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Optimum plough control

Oversized transport wheel 500/45-22.5

Set working depth via the tractor three-point hitch and adjust the depth via the transport wheel – quick and easy to find the correct position with depth stops at 15 mm intervals. The wheel is inside the plough frame – ideal for fence-line ploughing.

Maximum performance in the field ...

SERVO 6.50 – the new generation of modern, manoeuvrable semi-mounted ploughs.

- **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 furrow width is adjustable in five stages via a hole matrix on the frame and a turnbuckle on the control rod.
  On SERVO 6.50 Plus ploughs furrow width is adjusted hydraulically via the control rod.

- **Front furrow width**
  In the standard plough the front furrow width is adjusted by means of a turnbuckle in the main frame (hydraulic cylinder optional). In plus ploughs hydraulic adjustment is standard. Quick and easy to set the front furrow width required. Maximum adjustment range for front furrow width – ideal on slopes and in difficult soil conditions.

- **Strong reversing mechanism**
  Smooth, reliable reversing via two telescopic cylinders. The turnover shafts are fitted with large taper roller bearings. Separate, accurate camber adjustment via two adjusting screws.
  Easy connection and disconnection with the folding parking leg.

- **Standard hose arrangement**
  All the hydraulic hoses leading to the tractor are clearly grouped in a hose bracket. Coloured markings make connection easier.

- **Optimum pull line**
  Ideal pull line through the rear axle because the headstock turnover shaft is close to the tractor. The result is minimal side pull and maximum directional stability for the tractor.

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SERVO 6.50 Plus – flexible

Hydraulic furrow width adjustment
On the SERVO 6.50 Plus furrow width is adjusted hydraulically via the control rod. The front furrow width is set at the same time and can be fine-tuned hydraulically at the main frame bearing.
Infinitely variable adjustment – Plus adjustment system with parallel lever control and pivot points located outside the frame. The long parallel lever means low forces are required to make adjustments – furrow width can be adjusted during ploughing. Important pivot points have wear-resistant, replaceable spring steel bushes for the highest pressure demands, and the pivot points can be lubricated.

“NON-STOP” ploughing on stony soils

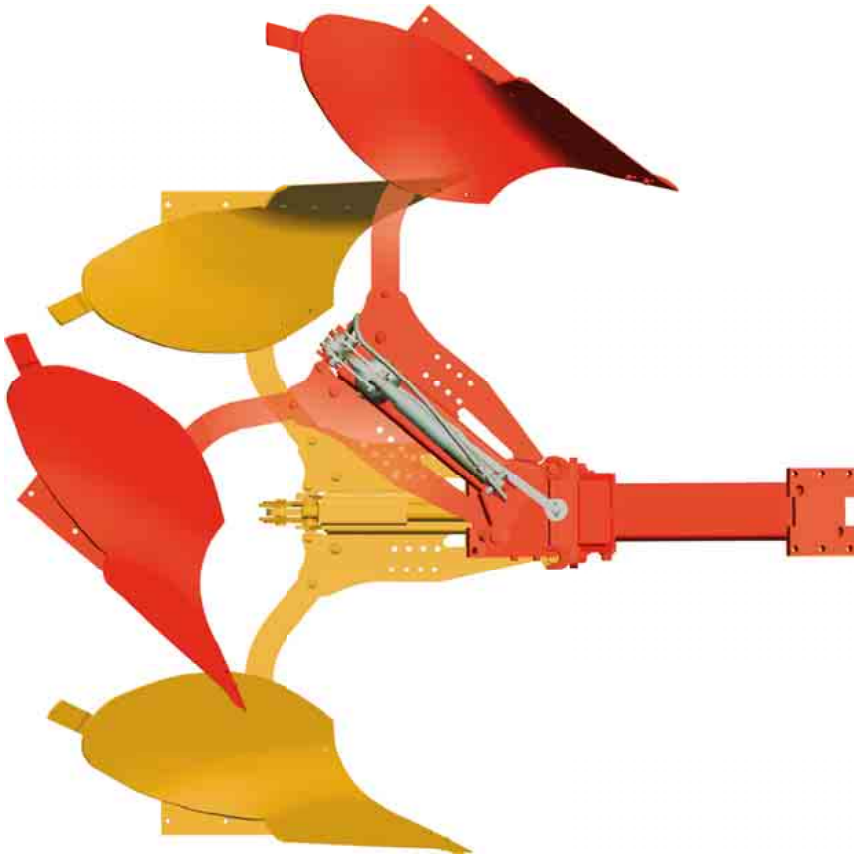
SERVO 6.50 ploughs with nova stone protection give maximum reassurance.

Guaranteed protection even on stony soils.

Non-stop ploughing

SERVO 6.50 nova

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 protects the whole plough.
On re-penetrating the soil, the pressure increases – for reliable penetration on heavy, dry soils.



- **Hydromechanical stone protection – non-stop ploughing**
  With its variable hydraulic triggering pressure, the “nova system” tailors the plough to different soil types.
  Each pair of plough bodies has its own hydraulic accumulator which allows upward movement by up to 40 cm / 15.7” and also lateral movement.
  The lubricated pivot points and additional shear bolts guarantee a long service life.
- **Central adjustment is standard**
  Set the trigger point quickly and easily – and read it off the pressure gauge on the headstock. 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.

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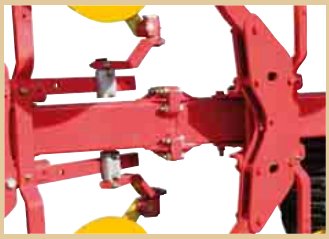
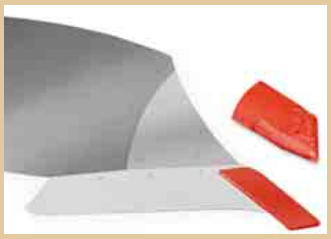
Extendable using flange
6-furrows (5+1)
7-furrows (6+1)
8-furrows (7+1)
9-furrows (8+1)

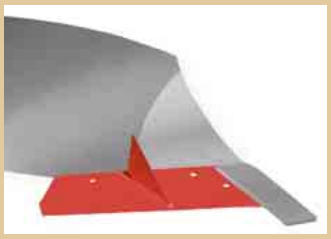
Single-piece points
with optional hard faced welding for extreme wear-resistance.

One-piece share
with combined robust points. A large angle guarantees good penetration. Highly suitable for stony soils and shallow ploughing.

Blade share
Welded cutting blades on the shares give better crumbling as they split the furrow down the middle.

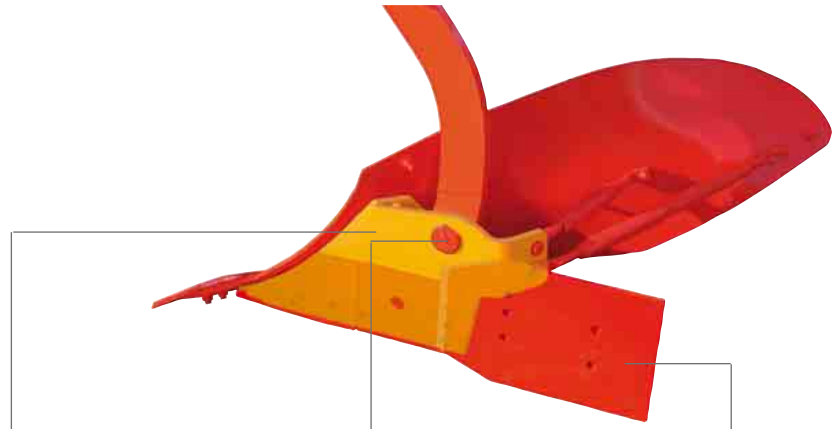




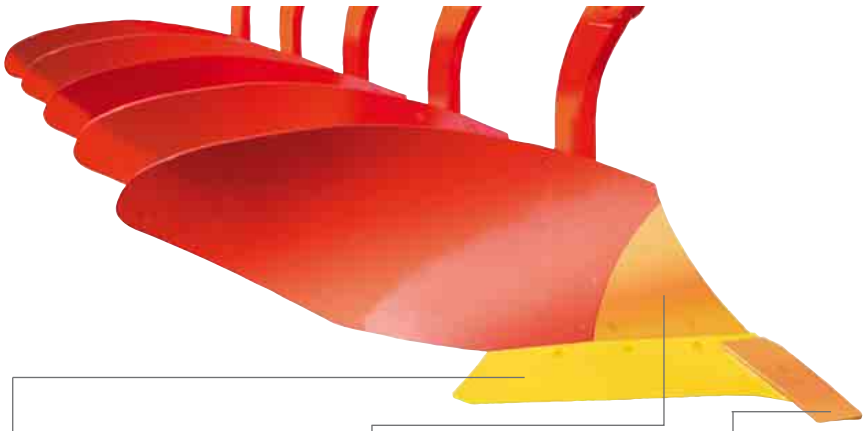


The body a safe combination

Long service life of wearing parts is of utmost importance for more cost-effective tillage implements.
Pöttinger has driven developments in this area with its new durability technology.



- **Frog**
  The frog is hardened, giving maximum strength and reliability for both mouldboards and slats.
  The single-piece shares sit on a forged raised part to give a precise, durable joint.
- **Angle adjustment**
  An eccentric allows adjustment of body angle. For reliable penetration, even on extremely hard, dry soils.
- **Large landsides**
  for reliable plough tracking. The landsides can be used four times to ensure cost efficient use of the parts.



- **Shares**
  All shares are manufactured from hardened boron steel. Increasing the hardened wear zone extends service life by up to 50%. The 11 mm / 0.43” -thick shares have a total depth of 150 mm / 5.9”.
  The forward taper aids good penetration and has the effect of being self-sharpening.
- **Shins**
  made from 8 mm / 0.315” hardened fine-grain steel are used on mouldboards in the area of greatest load. They are quick and easy to replace.
- **Single-piece 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.

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Different soil types and working conditions need different body shapes.

They must be low-drag and offer optimum performance.

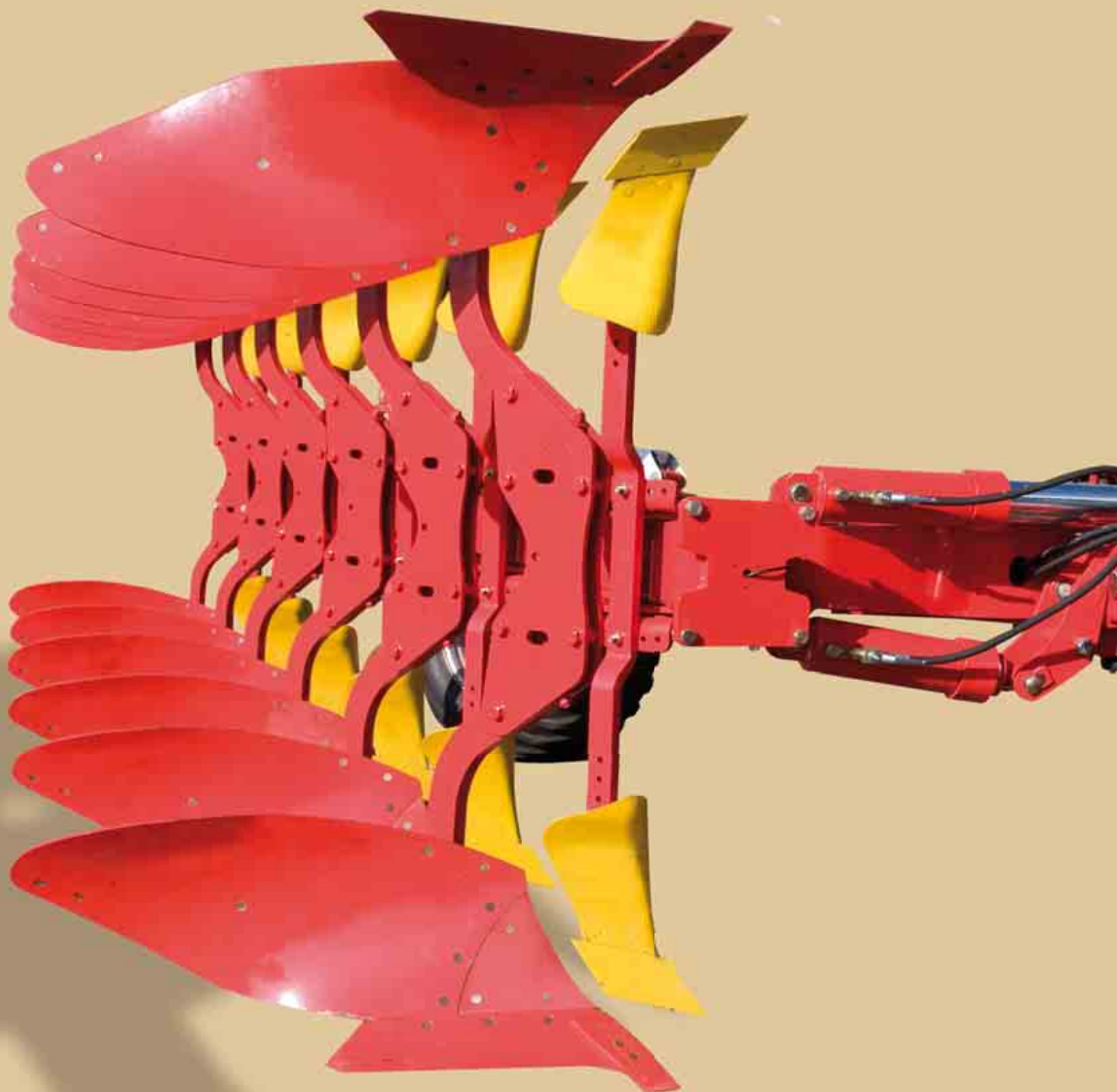
Ideal body shapes

A large selection of modern body shapes to suit every soil type. SERVO bodies meet all the requirements, and years of experience and practical tests testify to the reliability and stability of the material.

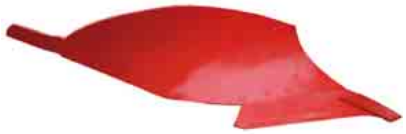
- **Mouldboards –** 8 mm / 0.315” hardened fine-grain steel – extremely resistant to wear
- **Slatted boards**
  Influence the soil flow properties by minimising friction surfaces.
  Slats bevelled and angled backwards – prevent jammed stones.
  Slats 10 mm / 0.394” thick and hardened throughout – extremely resistant to wear.

Harvest residues must be fully incorporated to enable problem-free post-tillage work. Reliable rotting of harvest residues brings life to the soil and plays a large part in a high-yield harvest.

- **Leg mounting**
  The solid leg with mountings on both sides is designed for extreme loads.
  On both standard ploughs and plus ploughs, a breakaway bolt protects the bodies from overloading.
- **Skimmer mounting**
  Distance from the plough body can be adjusted with the hole matrix and locking pin.
  The skimmer is equipped with a shear bolt.



Bodies for all soils

	Body shape	Features	Working width up to	Working depth up to
Long, twisted mouldboards				
	**41 W**	Long, twisted bodies for heavy, sticky soils.	17.7” 450 mm	11.8“ 300 mm
	**46 W**	Good crumbling and suitable for working on slopes, for loam and clay soils, but also for light soils. A body for high working speeds without overlapping. Wide furrow clearing and low drag are the hallmarks of this body.	21.7“ 550 mm	13.8” 350 mm
Universal body				
	**36 UW**	Universal body with very good furrow clearing and excellent crumbling. A low-drag body, suitable for most soils.	17.7” 450 mm	13.8” 350 mm
	39 UW		19.7” 500 mm	15.7” 400 mm
Slatted boards				
	**35 WWS**	Slatted boards, specially for peaty and sticky soils, extremely wide furrow clearing and excellent crumbling.	21.3” 540 mm	15.7” 400 mm
	**38 WWS**	Low-drag body with excellent crumbling effect for medium to heavy soils: Loam, clay. Extremely wide furrow clearing – ideal for wide tyres.	21.3” 540 mm	13.8” 350 mm

SERVO 6.50 – a clean surface and furr

A clean disc-coulter cut guarantees precise turning of the furrow and a clean furrow wall. Important when using wide tractor tyres.
Suitable skimmer shapes mean there are no crop residues on the surface after ploughing.

Skimmer V1 / V2 / V3	Smooth disc coulters	Scalloped disc coulters
		
Standard skimmers and skimmers for maize straw – easy height adjustment, no tools required.	Diameter 19.7 or 23.2” / 500 or 590 mm. Star-shaped indentations keep disc coulters turning. Sprung only 500 mm / 23.2”.	Diameter 19.7 or 23.2” / 500 or 590 mm – good turning characteristics in high levels of organic matter. Sprung only 500 mm / 23.2”.

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Landside knife coulter	Trashboards	Leg protectors	Depth adjustment
			
A low-cost alternative to the disc coulter – from 8.66“ / 220 mm working depth.	Alternatives for deep ploughing and stony soils.	Leg protectors – improves ploughing in large amounts of organic matter and protects the leg.	Quick and easy to find the correct position with depth stops at 0.59” / 15 mm intervals.




Supreme service

You can rely on us.
Wherever they are in the world, our customers can rely on a fully developed network of sales and service partners. This close proximity to the customer guarantees fast delivery of spare parts and also ensures professional machine setup and handover by qualified specialists. We are on hand wherever you happen to be.

Our range of professional services:

- Original Inside parts. 24-hour ordering service online.
- Long-term stock of spare parts.
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- and much more…

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