Pöttinger SERVO

Mounted ploughs

PÖTTINGER

97+210.02.0209

Successful cropping with SERVO plough

Arable farming has experienced a huge upturn in recent years. Breeding, fertiliser application, crop protection and advanced technology have helped to treble yields in the last 50 years. But the position of arable farming has also changed. Sustainable, integrated farming is now the focus of attention.

Pöttinger has analysed these developments and translated them in to its **"clever farming"** concept.

The three strands of this concept are: **cost-effectiveness, soil protection and intelligent technology for optimised farming.**

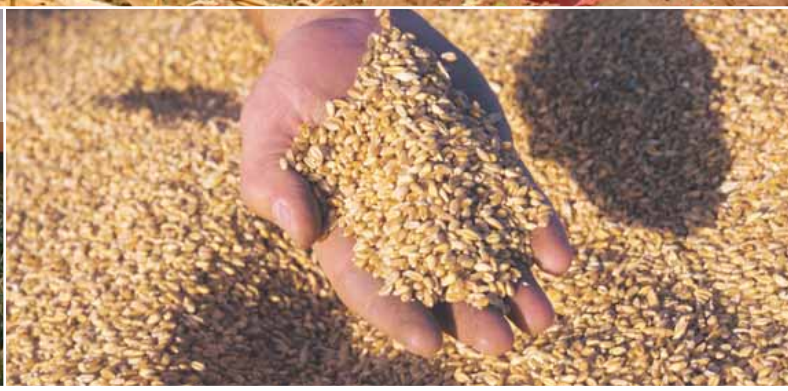
Cost-effectiveness: Farmers are under pressure to keep costs down and therefore they demand technology that brings a significant reduction in costs. Modern agricultural technology supports this through more efficient working practices.

Soil protection: Soil protection is the basic principle of sustainable agriculture; it influences yield and therefore farm profits. Design details and functions on ploughs and soil-working machinery all help to protect the soil. Pöttinger's range of high-value technical functions demonstrates its problem-solving ability and its leading role in customer-oriented, market-driven solutions.

Intelligent technology: Technology – inspired by advanced electronics – will bring about fundamental changes in many work processes in agriculture. "Intelligent technology" brings increased performance, improved comfort and accurate machine control and monitoring. Pöttinger has undertaken detailed studies in this area. With its developments in electronic solutions, the Austrian machinery manufacturer is a pace-setter in its sector.

"The plough buries the past, whilst preparing for the future"

technology...



The right plough for every farm...

Sustainable solutions
for successful farming

The Pöttinger cropping concept is based on the principle of sustainable soil management.
The aim: Maintain soil fertility and create optimum conditions for soil-crop establishment

In modern farming, new tillage systems have reinforced the trend for reduced tillage. However, the focus must be on maintaining and improving soil health. Costs are not the only consideration. The focus must be on increasing productivity per unit of area – because yield stability and sustainable farming must be considered alongside optimised production costs. The great direct-drilling euphoria of the 90s is therefore a thing of the past.

We must take a more comprehensive view. The economic and ecological effects must be taken into account. The farmer **must choose the appropriate technology for his soil and crop.** Pöttinger offers farmers a number of different methods:
Conventional **ploughing, mulch drilling** and **direct mulch drilling.**
Conservation tillage must not have a negative effect on yield and soil health.
The ploughing method selected for a given soil and in different regions is therefore highly important.

Ploughing methods

- ***with high disease issues (e.g. mycotoxins)***
- ***on soils prone to compaction and waterlogging***
- ***for deep-rooted crops***
- ***with serious weed issues***

The plough loosens the soil and increases its pore volume. *Even where there are high disease and weed problems, the SERVO plough is still the best implement for basic tillage. For example, overwintering fusarium spores on dead crop residues.* ***Deep incorporation removes the natural habitat of the fungi.***
The plough provides a "clean sheet" for the next crop and therefore guarantees good yields in nearly all soils and working conditions.
No-plough systems require a certain set of conditions. Economic success is only guaranteed if appropriate technology is tailored correctly to the site. In wet, low-oxygen soils no-plough farming is likely to cause compaction and waterlogging.

Mulch drilling

- ***with a small amount of harvest residue***
- ***on heavy soils***
- ***on biologically active soils***

Activating soil fauna and promoting weed seed germination *by mixing soil and straw close to the surface. The TERRADISC short-disc harrow works from a depth of 40 mm / 1,6". The alternative is the SYNKRO cultivator with flat shares.*

Surface spreading of the mulch for subsequent drilling *(2-4 weeks later). The more the topsoil is enriched with organic matter, the greater the filtering effect of the soil. SYNKRO cultivators with removable spread-wing shares are particularly recommended for this job. The working depth should be approximately 100 mm / 4". A catch crop may be sown when planting green crops.*

Where there is a lot of straw *LION rotary harrow-drill combinations also incorporate the straw. But the TERRASEM universal seed drill's leading tillage implements also have an excellent incorporating effect. Effective disc-coulter-systems are important. The straw must not be pressed into the soil but moved aside to give a straw-free slot for drilling. Pöttinger single-disc coulters are ideal for this work.*

Direct mulch drilling

- ***on sites with low yields***
- ***on light soils***
- ***with small amounts of harvest residue***
- ***in dry areas***
- ***with low weed and disease issues***

The TERRASEM mulch drill is ideal for direct mulch drilling. The leading tillage implements loosen, mix and chop. The result: ***A perfect mix of soil particles and harvest residues.*** *A tyre packer firms the soil evenly. Depending on working conditions and forward speed, the drill coulters may be hydraulically loaded at between* ***40 and 110 kg / 88 and 243 lbs per coulter****.*

But the rotary harrow-drill combination is also ideal for direct mulch drilling over smaller areas. The ***mulch drilling tines*** *break up the soil from underneath and the harvest residues are distributed over the soil surface.* ***Fine soil particles are concentrated in the seed zone, coarser particles and harvest residues remain on the surface to prevent erosion.***

SERVO mounted reversible ploughs

Plough model	Recommended for Tractor kW / PS	37 50	59 80	74 100	81 110	88 120	76 130	103 140	110 150	118 160	125 170	147 200	162 220	176 240	199 270
SERVO 25		2-furrow													
			3-furrow												
			4-furrow												
SERVO 35			3-furrow												
				4-furrow											
					5-furrow										
SERVO 35 PLUS			3-furrow												
				4-furrow											
SERVO 35 S					4-furrow										
						5-furrow									
							6-furrow								
SERVO 35 S PLUS					4-furrow										
						5-furrow									
SERVO 45							4-furrow								
								5-furrow							
SERVO 45 PLUS							4-furrow								
								5-furrow							
SERVO 45 S								3-furrow							
									4-furrow						
										5-furrow					
											6-furrow				
SERVO 45 S PLUS									4-furrow						
										5-furrow					
											6-furrow				

for every farm and every tractor

	Furrows	Body distance cm / in.	Frame height cm / in.	Plough beam dimension	for tractors up to kW/HP
SERVO standard ploughs with stepped furrow widths - manual adjustment					
SERVO 25	2 / 3 / 4	85*/95/102 / 33.5*/37.4/40.2	74/**80** /29.1/**31.5**	100 x 100	88 / 120
SERVO 35	3 / 4 / 5	95/102* / 37.4/40.2*	80 / 31.5	120 x 120	103 / 140
SERVO 35 S	4 / 5 / 6	95 / 37.4	80 / 31.5	120 x 120	125 / 170
SERVO 45	4 / 5	95/102 / 37.4/40.2	**80**/90 / **31.5**/35.4	140 x 140	125 / 170
SERVO 45 S	4 / 5 / 6	95/102/ / 37.4/40.2	**80**/90 / **31.5**/35.4	140 x 140	200 / 270
SERVO plus with infinitely variable hydraulic furrow-width adjustment					
SERVO 35	3 / 4	95/102 / 37.4/40.2	80 / 31.5	120 x 120	103 / 140
SERVO 35 S	4 / 5	95/102 / 37.4/40.2	80 / 31.5	120 x 120	125 / 170
SERVO 45	3 / 4 / 5	95/102/115* / 37.4/40.2/45.3*	**80**/90 / **31.5**/35.4	140 x 140	125 / 170
SERVO 45 S	4 / 5 / 6	95/102 / 37.4/40.2	**80**/90 / **31.5**/35.4	140 x 140	200 / 270
SERVO nova standard ploughs with hydraulic stone protection					
SERVO 25	2 / 3 / 4	85*/95/102* / 33.5*/37.4/40.2*	74/**80** / 29.1/**31.5**	100 x 100	88 / 120
SERVO 35	3 / 4 / 5	88*/95/102 / 34.6/37.4/40.2	80 / 31.5	120 x 120	103 / 140
SERVO 35 S	4 / 5	88/95 / 34.6/37.4	80 / 31.5	120 x 120	125 / 170
SERVO 45	4 / 5	95/102* / 37.4/40.2*	80 / 31.5	140 x 140	125 / 170
SERVO 45 S	4 / 5	95/102* / 37.4/40.2*	80 / 31.5	140 x 140	200 / 270
SERVO plus nova with hydraulic furrow-width adjustment and hydraulic stone protection					
SERVO 35	3 / 4	88*/95/102 / 34.6*/37.4/40.2	80 / 31.5	120 x 120	103 / 140
SERVO 35 S	4 / 5	95/102* / 37.4/40.2*	80 / 31.5	120 x 120	125 / 170
SERVO 45	4 / 5	95/102* / 37.4/40.2*	80 / 31.5	140 x 140	125 / 170
SERVO 45 S	4 / 5	95/102 / 37.4/40.2	80 / 31.5	140 x 140	200 / 270

*restricted number of furrows

All information is provided without obligation.

SERVO 35 S

Bodies
for all soils

Different soil types and working conditions need different body shapes. They must be low-drag and give 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.

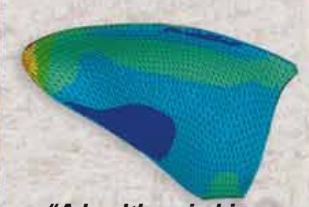
Harvest residues must be fully incorporated to enable problem-free post-tillage work. Reliable rotting of harvest residues brings life to the soil and plays a large part in a high-yield harvest.

These bodies are in shape...

Wearing parts are constantly working under rough, tough conditions.

*Every millimetre of our high-quality material **is hardened** – in our durability centre using a unique heat treatment method.*

Real added value for your long-term success!



"A healthy mind in a healthy body"

Our designers' long experience and ultra-modern 3D design have created the perfect bodies.

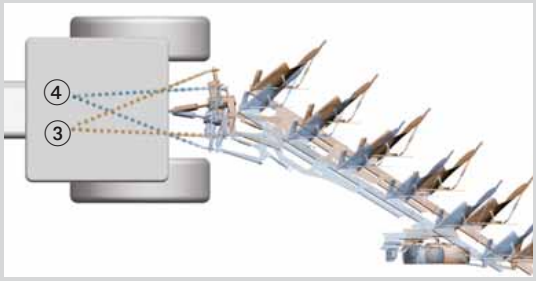
... fully hardened through and through

Body shape		Features	Working width to	Working depth to
Long, twisted mouldboards				
27 W		Low-drag bodies, highly suited to slopes. Ideal for ploughing up pasture and topsoil ploughing, wide furrow clearance. Suitable for higher forward speeds.	450 mm 17.7″	250 mm 9.8″
36 W		Long, twisted bodies for heavy, sticky soils.	450 mm 17.7″	250 mm 9.8″
41 W			450 mm 17.7″	300 mm 11.8″
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 these bodies.	540 mm 21.3	350 mm 13.8″
Universal body				
36 UW		Universal body with very good furrow clearing and excellent crumbling. A low-drag body, suitable for most soils.	500 mm 19.7″	300 mm 11.8″
39 UW			540 mm 21.3	350 mm 13.8″
Slatted boards				
30 UWS		A small, steeply angled slatted board for shallow working depths and good crumbling	400 mm 15.7″	200 mm 7.9″
35 WSS		Slatted boards, specially for peaty and sticky soils, extremely wide furrow clearing and excellent crumbling.	540 mm 21.3″	350 mm 13.8″
38 WWS		Low-drag bodies with excellent crumbling effect for medium to heavy soils: Loam, clay. Extremely wide furrow clearing - ideal for wide tyres.	540 mm 21.3″	300 mm 11.8″

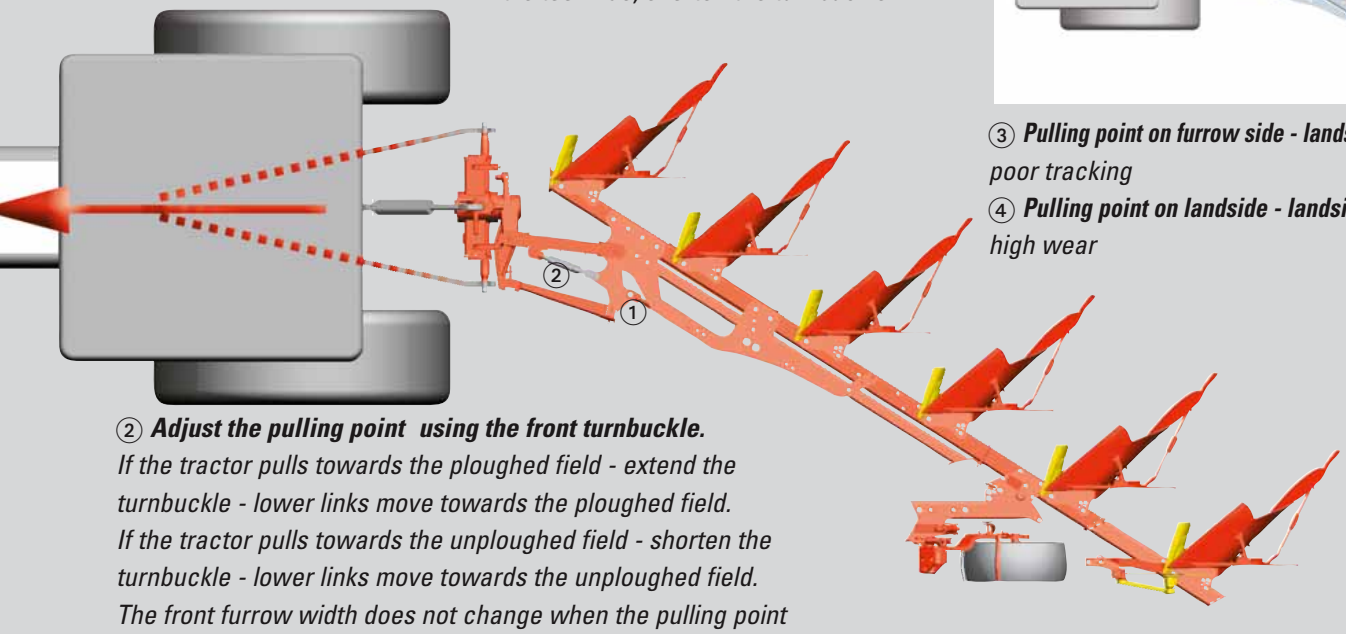
SERVOMATIC

The right setting:

① ***Adjust front furrow width using the rear turnbuckle:***
If the front furrow width is too narrow, extend the turnbuckle.
If it is too wide, shorten the turnbuckle.



③ ***Pulling point on furrow side - landside pressure too low***
poor tracking
④ ***Pulling point on landside - landside pressure too high***
high wear



② ***Adjust the pulling point using the front turnbuckle.***
If the tractor pulls towards the ploughed field - extend the turnbuckle - lower links move towards the ploughed field.
If the tractor pulls towards the unploughed field - shorten the turnbuckle - lower links move towards the unploughed field.
The front furrow width does not change when the pulling point setting is changed.

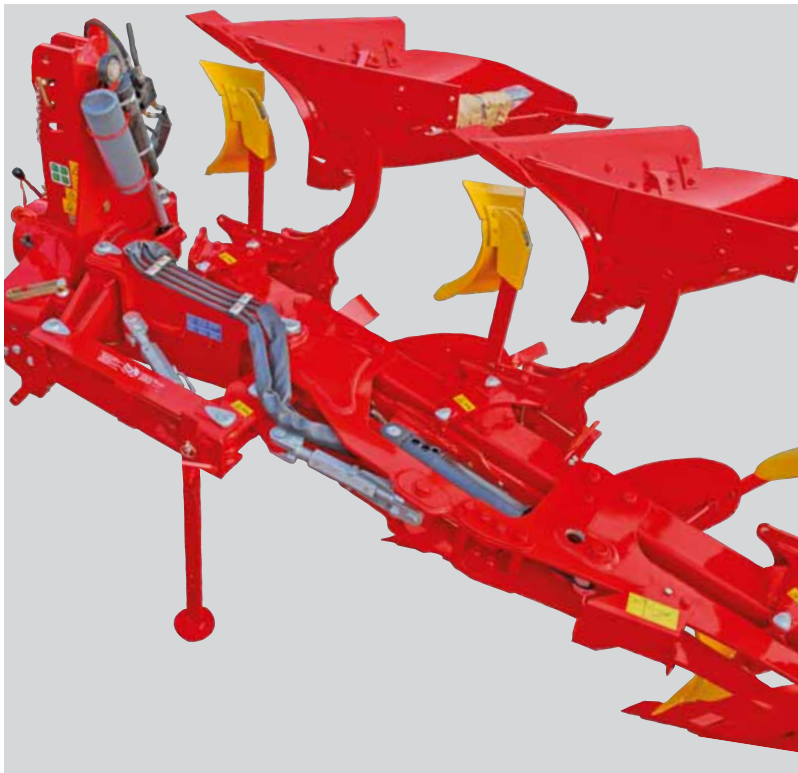
The only accurate control centre

Correct plough settings mean perfect, satisfying ploughing.
With Pöttinger, the plough is simply and easily adjusted to tractor and soil conditions using the SERVOMATIC setting system.
This system brings particular benefits to large farms, machinery rings and machinery cooperatives.

It's unique...
Front furrow width and pulling point are adjusted separately with ease and precision. The two functions do not influence each other; no need for corrective adjustment. A few simple adjustments and the plough is set correctly the first time. The wide, infinitely variable range allows rapid setting for all conditions.
Optimum pulling point adjustment guarantees low landside pressure, giving less wear and low fuel consumption.

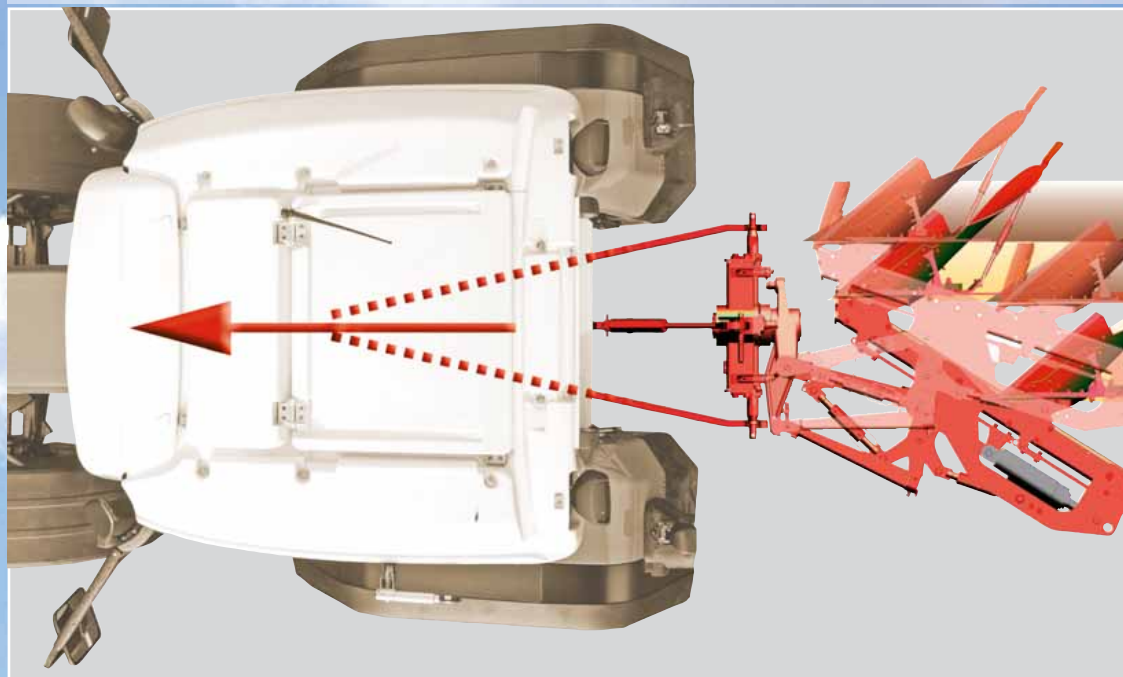
Turnbuckles with anti-twist locks allow easy, accurate plough setting.

SERVOMATIC control centre
for SERVO standard ploughs



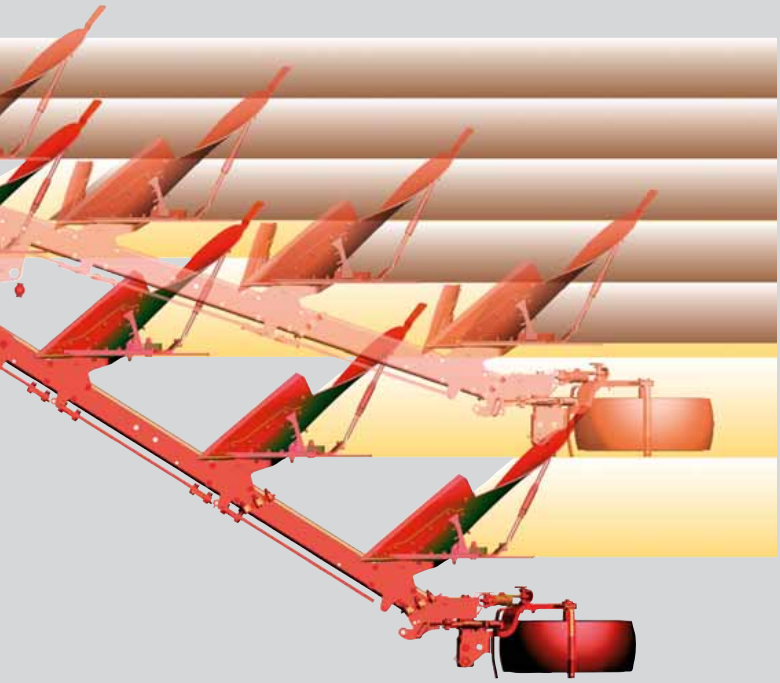
SERVOMATIC control centre
for SERVO ploughs with "plus" hydraulic furrow width adjustment

PLUS –



SERVO 45 S

... intelligent adjustment technology



Furrow-width adjustment without wandering lower links - unique.

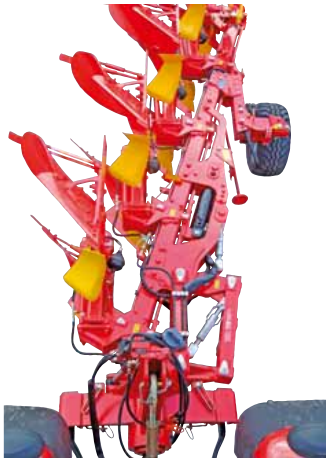
Fine adjustment gives unique, 100% basic adjustment to varying tractor lower linkage dimensions which deviate greatly from the norm - power class up to 150 HP.

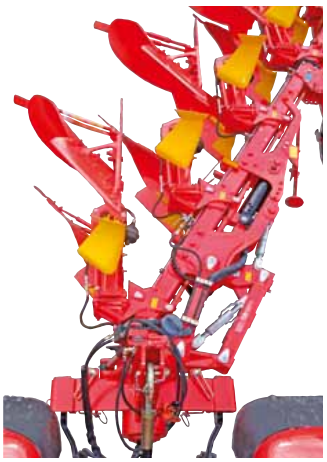
Furrow-width adjustment is accompanied by 100% adjustment of **front furrow width and pull line.** The lower links stay parallel with no side pull – essential for a straight furrow. Consistent landside pressure at all furrow widths.
Optimum adaptation to tractor power, hillsides and field shapes.
Easy ploughing of tight corners and headlands.
Optimum fence-line ploughing from three furrow models and above.

Different working conditions and soil structures require different tractive powers.
With hydraulic SERVO plus furrow-width adjustment the plough is always precisely matched to soil conditions.
Optimum tractor efficiency and ploughing at all times.

Infinitely variable adjustment

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.
All additional adjustments adapt to it automatically.
Important pivot points have wear-resistant, replaceable spring-steel bushes for the highest pressure demands, and the pivot points can be lubricated.
Memory cylinder technology for two functions (option): Beam pivot system and furrow-width – the plough is pivoted and rotated, then readjusted to the preselected furrow width.





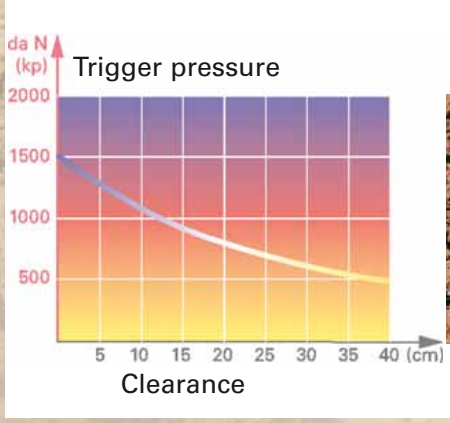
SERVO plus adjustment system with parallel control linkage and pivot point located outside the frame
Long adjusting lever means low force needed to make adjustments. Protects the parallel linkage and pivot points.

“NON-STOP”

SERVO 35 nova

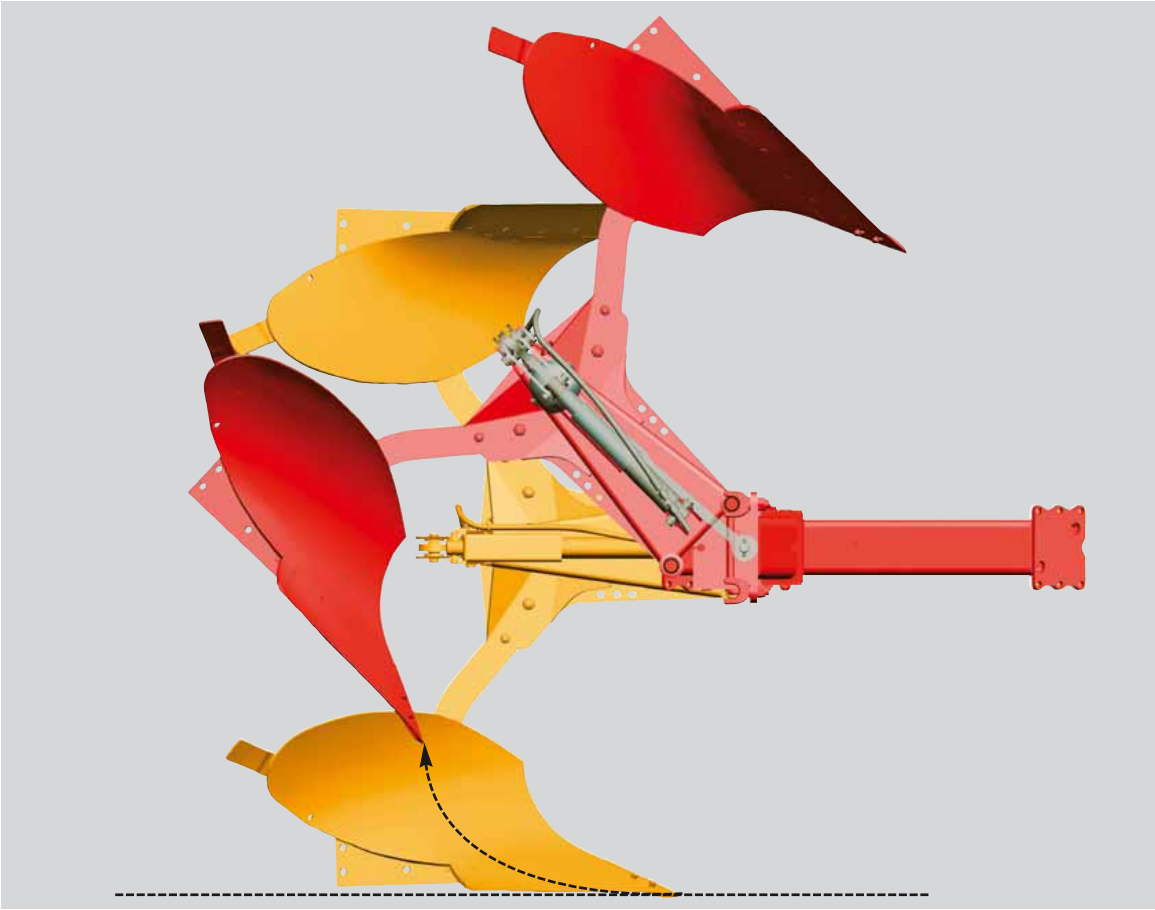
Indirect triggering

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.



... ploughing on stony soils

SERVO ploughs with "nova" stone protection give maximum reassurance. Guaranteed protection even on stony soils. Non-stop ploughing



Hydromechanical stone protection – so the stones don't grow!
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 or lateral movement by up to 400 mm / 15.7".
The lubricated pivot points and additional shear bolts guarantee a long service life.

Central adjustment is standard in all SERVO nova ploughs.

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.

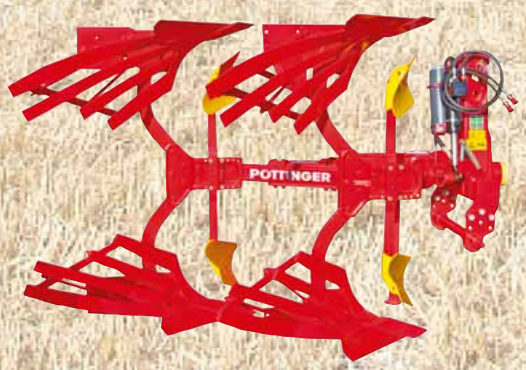
Spring-mounted disc coulters roll over rocks without the risk of damage.

SERVO 25

SERVO 25

Entry-level range, 2-4 furrows

Plough-beam	100 x 100 x 10 mm / 3.94 x 3.94 x 0.39″
Frame height	74 cm and 80 cm / 29.1″ and 31.5″
Leg	80 x 30 mm / 3.15 x 1.18″
Working width per body	
Furrows	2 / 3 / 4
Body distance 85 cm / 33.5″	33/36/40/43 cm / 13/14.1/15.7/16.9″
Body distance 95 cm / 37.4″	33/37/41/45 cm / 13/14.6/16.1/17.7″
Body distance 102 cm / 40.2″	35/40/44/48 cm / 13.8/15.7/17.3/18.9″



The stable light-weight

SERVO 25 – the lighter range for use with tractors up to 120 HP.
2 and 3 furrow and extendable.

Headstock: The forged moulded headstock continues under the reversing axle, for greater stability.
A dual-action turn-over cylinder with check valve is standard; hoses are not under pressure during ploughing.

Three top-link positions, including a slot for faster penetration and lower link sensing.

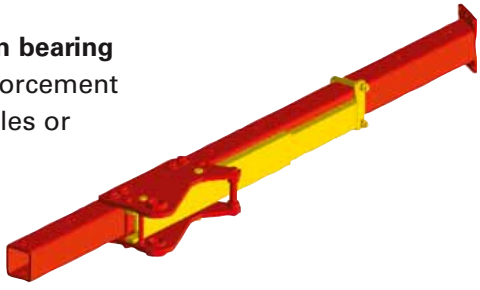
Cross Shaft Cat. 2, optional Cat. 3
The continuous cross shaft can be adjusted to four positions and has an anti-twist lock. Correct positioning on the tractor and optimum clearance at all times.

Reversing unit and reversing axle:
The reversing axle is a full, 80 mm / 3.15" diameter shaft.
The tapered roller bearings are tensioned by a castellated nut.
Camber adjustment via two turnbuckles.

Forged moulded leg mounting brackets
The bracket surrounds the plough beam with a large contact area to transfer forces to the frame.

Solid body mountings on both sides
Double-sided shear protection via shear bolts.
Four furrow widths easily selected via hole matrix by moving a bolt.

Bolted reinforcement in main plough beam bearing
For 4-furrow option, additional frame reinforcement bolted onto the plough beam tube – no holes or welds that might weaken the beam.
Plough beam made of SG 50 steel



SERVO 25 nova – Hydromechanical stone protection

SERVO 35 and 35 S

SERVO 35

One range up to 140 HP

Plough beam	120 x 120 x 10 mm / 4.72 x 4.72 x 0.39″
Frame height	80 cm / 31.5″
Leg	80 x 30 mm / 3.15 x 1.18″
Furrows	3 / 4 / 5
Working width per body	
Body distance 95 cm / 37.4″	30/35/40/45/50 cm / 11.8/13.8/15.7/17.7/19.7″
Body distance 102 cm / 40.15″	32 / 38 / 43 / 48 / 54 cm / 12.6/15/16.9/18.9/21.3″
plus 95 cm / 37.4″	23 – 49 cm / 9.05 – 19.29″
plus 102 cm / 40.15″	25 – 53 cm / 9.84 – 20.86″

SERVO 35 S

The middle range up to 170 HP with the SERVO 45 headstock

Plough beam	120 x 120 x 10 mm / 4.72 x 4.72 x 0.39″
Frame height	80 cm / 31.5″
Leg	80 x 30 mm / 3.15 x 1.18″
Furrows	4 / 5 / 6
Working width per body	
Body distance 95 cm / 37.4″	30/35/40/45/50 cm / 11.8/13.8/15.7/17.7/19.7″
Body distance 102 cm / 40.15″	32 / 38 / 43 / 48 / 54 cm / 12.6/15/16.9/18.9/21.3″
plus 95 cm / 37.4″	23 – 49 cm / 9.05 – 19.29″
plus 102 cm / 40.15″	25 – 53 cm / 9.84 – 20.86″

The tractors used on medium-sized arable farms are steadily increasing in size so demands on the plough are also increasing. The SERVO 35 range up to 140 HP this bill. And for tractors up to 170 HP the SERVO 35 S range is an ideal match.

Headstock: Double-acting turn over cylinder with check valve; hoses are not under pressure during ploughing.

Cross shaft SERVO 35
Cat. 2, 5-share Cat. 3

Cross shaft SERVO 35 S
Cat. 2, Width 2
The continuous cross shaft can be adjusted to four positions and has an anti-twist lock. Correct positioning on the tractor and optimum clearance at all times.

Three top-link positions, including a slot for faster penetration and lower link sensing. The extra-thick top link retention plate is hardened and guarantees a snug fit for the top link pin.

SERVO 35 S

Reversing axle and reversing unit
SERVO 35 reversing axle 100 mm / 3.94"
SERVO 35 S reversing axle 110 mm / 4.33"
The reversing unit, made from tempered cast steel, is not welded to the reversing axle. The hydraulic hoses pass through the hollow shaft preventing trapping of the hoses during reversing.
The heavy-duty tapered roller bearings are reliably protected from dirt and locked with an adjustable castellated nut.
Camber adjustment via two turnbuckles.

The heat-treated steel leg mounting brackets are large and will resist high loads.
The bracket surrounds the plough beam with a large contact area for optimum transfer of forces to the beam.

Solid leg-mounting on two sides.
Double-sided shear protection via shear bolts.
Five furrow widths easily selected via hole matrix by moving a bolt.

SERVO 35 / 35 S plus – hydraulic furrow-width adjustment

SERVO 35 / 35 S nova – hydromechanical stone protection

SERVO 45 and 45 S

Servo 45 S

SERVO 45

The robust range up to 170 HP

Plough beam	140 x 140 x 10 mm / 5.51 x 5.51 x 0.39"
Frame height	80/90 cm / 31.5/35.4″
Leg	80 x 35 mm / 3.15 x 1.38″
Furrows	3 / 4 / 5
Working width per body	
Body distance 95 cm / 37.4″	30/35/40/45/50 cm / 11.8/13.8/15.7/17.7/19.7″
Body distance 102 cm / 40.15″	32 / 38 / 43 / 48 / 54 cm / 12.6/15/16.9/18.9/21.3″
plus 95 cm / 37.4″	23 – 49 cm / 9.05 – 19.29″
plus 102 cm / 40.15″	25 – 53 cm / 9.84 – 20.86″

SERVO 45 S

The top range up to 270 HP with a particularly robust headstock

Plough beam	140 x 140 x 10 mm / 55.1 x 55.1 x 0.39″
Frame height	80/90 cm / 31.5/35.4″
Leg	80 x 35 mm / 3.15 x 1.38″
Furrows	4 / 5 / 6
Working width per body	
Body distance 95 cm / 37.4″	30/35/40/45/50 cm / 11.8/13.8/15.7/17.7/19.7″
Body distance 102 cm / 40.15″	32 / 38 / 43 / 48 / 54 cm / 12.6/15/16.9/18.9/21.3″
Body distance 115 cm / 45.27″	36/38/43/48/54/60 cm / 14.2/15/16.9/18.9/21.3/23.6″
plus 95 cm / 37.4″	23 – 49 cm / 9.05 – 19.29″
plus 102 cm / 40.15″	25 – 53 cm / 9.84 – 20.86″

Increasingly powerful tractors carry ploughs with up to six furrows on the three-point linkage. Fast road travel and large body distances demand a robust headstock, a strong reversing mechanism and plough-beam.

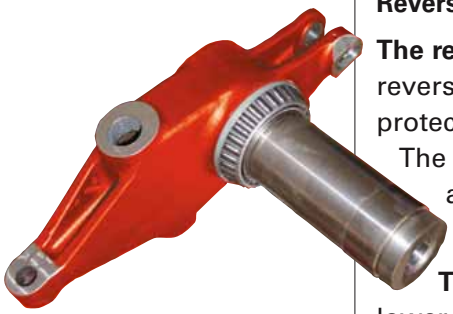
Servo 45

Servo 45 S

Headstock: Double-acting reversing cylinder with check valve; hoses are not under pressure during ploughing.

Cross Shaft SERVO 45 Cat. 3, Width 2, **SERVO 45 S** Cat. 3, Width 3
The continuous lower link bar can be adjusted to four positions and has an anti-twist lock. Correct positioning on the tractor and optimum clearance at all times.

Reversing axle SERVO 45 Ø 110 mm / 4.33", SERVO 45 S Ø 150 mm / 5.9”



The reversing unit, made from tempered cast steel, is not welded to the reversing axle. The hoses pass through the headstock giving optimum protection. Hoses are protected from being trapped during reversing.
The heavy-duty tapered roller bearings are reliably protected from dirt and locked with an adjustable castellated nut.
Camber adjustment via two turnbuckles.

Three top-link positions, including a slot for faster penetration and lower link sensing. The extra-thick top-link retention plate guarantees a snug fit for the top link pin.

The heat-treated steel leg-mounting brackets are large and will resist high loads.
The bracket surrounds the plough beam with a large contact area for optimum transfer of forces to the beam.

Solid leg mountings on both sides, double-sided shear protection via shear bolts. **5 furrow widths** easily selected via hole matrix by moving a bolt.

SERVO 45 / 45 S plus – hydraulic furrow-width adjustment

SERVO 45 / 45 S nova – hydromechanical stone protection

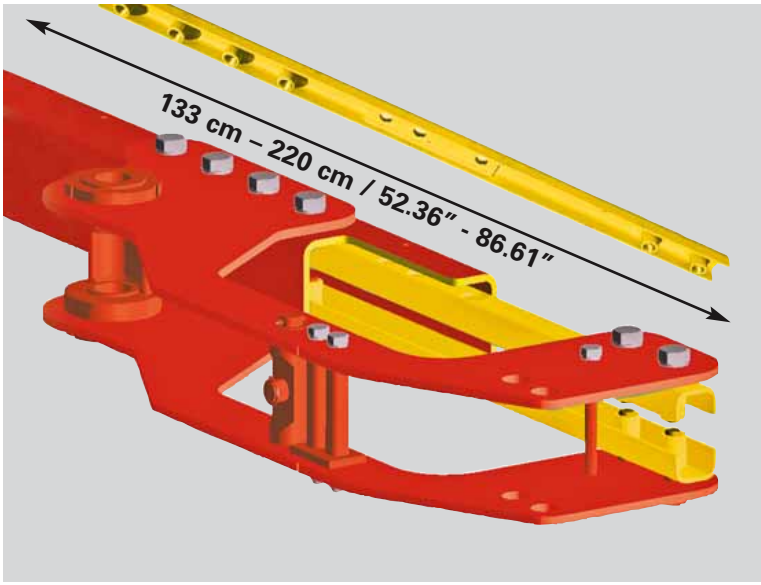
Ploughs with backbone

SERVO 35 S

SERVO 35, 35 S and 45, 45 S

In the SERVO Series 35 and 45, the inside of the continuous plough beam, made from micro-alloyed fine-grain steel, is additionally strengthened by two bolted reinforcements..
The thick walls of the plough beam guarantee a robust seat for plough leg mountings and attachments.

Unique amongst all ploughs: Bolted reinforcements where the load on the beam is greatest
The large main frame reinforcements with 1.33 – 2.20 m / 52.36″– 86.61″ seat length (S version) gives the best distribution of forces up to well beyond the second body.
Intelligent solution:
Maximum plough-beam rigidity at the point of maximum bending. The inner web increases resistance to flexing by up to 25%.
The firm seating of the high-specification individual bolts gives a robust, highly stable unit. No through bolts that could work loose.



Plough-beam pivot system available on standard ploughs
At large furrow-widths and body distances, and when clearance is too low, the beam is hydraulically pivoted on reversing but furrow width adjustment remains unchanged. The plough is narrow for road transport and parking.
The hydraulic cylinder has a check valve so that the hoses are not under pressure during ploughing.

The beam link – a central component
The conical shape of the beam link with wide-spaced mounting on the reversing unit means that high load torques can be absorbed.
The pins in the lubricated pivot points have anti-twist locks. Replaceable bushes in the reversing unit and pivot points guarantee a long service life.

SERVO 45 S Traction Control

With the optional traction control module the weight of the SERVO 45 S mounted plough is transferred from the plough to the tractor. Force transmission via the traction system means that the load is always on the rear wheels when the plough's ground hugging system is optimally adjusted. Slip and the damaging compaction caused by the rear wheels are therefore reduced. This ensures optimum tractor efficiency. The trigger pressure can be adjusted from the tractor. The pressure remains the same, even at the headland.

Improved traction in the SERVO 45 S with Traction Control

Wheel slip can be reduced by a perfect match between power requirement and rear axle load. This saves fuel and conserves the soil

Permanent loading of the rear wheels
Reduced slip
Prevents damaging compaction
Saves fuel
Improves the environment and energy situation

Ploughing with a furrow press

When ploughing with a furrow press the furrows created by the plough are consolidated straight away. On lighter soils the result is a firm, level seedbed, allowing cultivation passes to be reduced.

... for SERVO 25 to 45 S

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

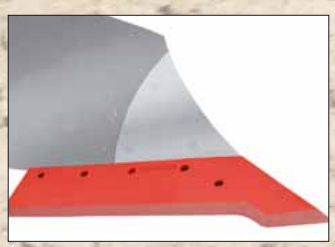
The body

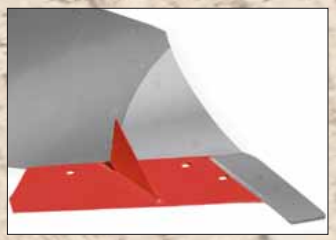
SERVO 45

Optional *single-piece points with additional hard faced welding for extreme wear-resistance.*

One-piece share *with 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.



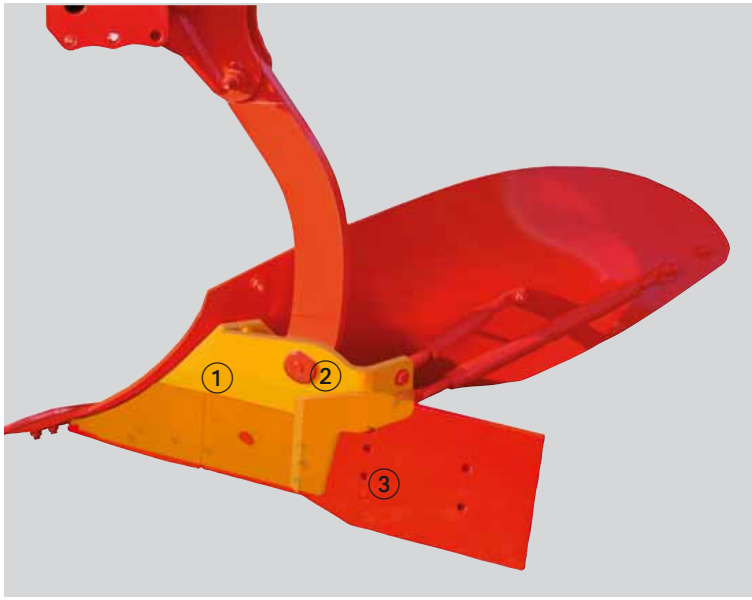


a safe combination

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.

① **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.

② **Angle adjustment**
An eccentric allows adjustment of body angle.
For reliable penetration, even on extremely hard, dry soils.



③ **Large landsides** for reliable plough tracking.
The landsides can be used four times to ensure cost efficient use of the parts.

④ **Single-piece reversible 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.

⑤ **Shares**
All shares are manufactured from hardened boron steel. Increasing the hardened wear zone extends service life by up to 50%. The 11 mm / 0.433" -thick shares have a total width of 150 mm / 5.905".
The forward taper aids good penetration and has the effect of being self-sharpening.

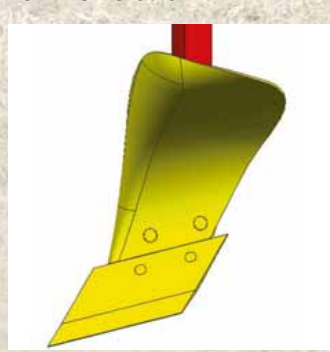
⑥ **Shins**
made from 8 mm / 0.315" hardened fine-grain steel are used on mouldboards in the area of greatest wear. They are quick and easy to replace.

Skimmers and disc coulters

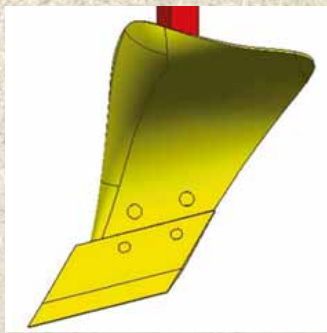
SERVO 35 S

Same shank for all skimmers with multi-stage depth adjustment – without tools.
Distance from the plough body is adjustable via the hole matrix.
Skimmers are secured by shear bolts.

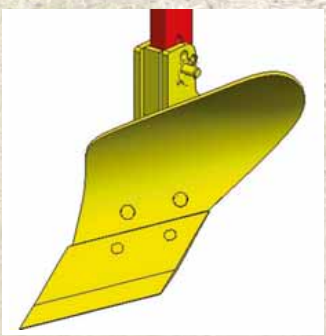
V 1 Standard skimmer
Standard skimmer for all incorporation tasks and for maize straw.



V2 Maize skimmer for large amounts of organic matter and for larger working depths.



V3 Universal skimmer
suitable for all incorporation tasks



A clean surface and furrow

A clean disc-coulter cut guarantees precise turning of the furrow and a clean furrow wall. Important when using wide tractor tyres.

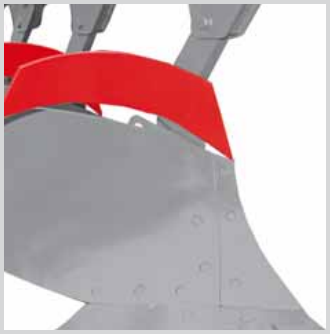
Suitable skimmer shapes mean there are no crop residues on the surface after ploughing.

Disc coulters, smooth or scalloped
A mounting bracket for standard and SERVO plus ploughs with depth adjustment via toothed segments.
Bracket moved forward – disc coulter in front of skimmer, large clearance - no blocking with large amounts of maize straw.
Bracket moved backwards – disc coulter close to skimmer for light, free-flowing soils and shallow ploughing.
Spring-mounted disc coulter (smooth or scalloped) for ploughs with trip-leg system.

Smooth disc coulters
Diameter 500 or 590 mm / 19.7 or 23.2" with good self-cleaning characteristics. Star-shaped indentations keep disc coulters turning.
Scalloped disc coulters
Diameter 500 or 590 mm / 19.7 or 23.2" – good turning characteristics in high levels of organic matter.

Landside knife coulter – a low-cost alternative to the disc coulter – from 220 mm / 8.66" working depth.

Trashboards – Alternatives for shallow ploughing and stony soils.



Leg protectors – improves ploughing in large amounts of organic matter and protects the leg.

SERVO Depth wheels

SERVO 35 S

Rear reversible transport wheels

offer the best plough tracking and optimum road performance.

Transport setting by pivoting the wheel unit and moving the pin - only in conjunction with transport interlock on headstock (unlocked from the driver's seat).
The transport function may be retro-fitted.

Self-aligning and transport wheel – pneumatic tyre with transport function
SERVO 35: *Ø 579 x 264 mm*
SERVO 45: *Ø 705 x 277 mm, tyres 10.0/75-12*

Forward-mounted reversible transport wheel – ideal for fence-line ploughing

The self-aligning wheel is hydraulically damped and swings backwards smoothly. On the mechanical version, two turnbuckles are used for depth adjustment. The comfort version offers hydraulic adjustment from the driver's seat. The wheel can be converted into the transport wheel with a few simple adjustments.

from 5 shares:
SERVO 35 *(except plus and nova)*
SERVO 35 / 45
Ø 705 x 277 mm, tyres 10.0/75-12

for good tracking

Precise depth control of the plough is important. Quick, easy adjustment is essential. Depending on options and plough type, Pöttinger offers both dual depth wheels and self-aligning wheels.

Dual-depth wheels

From the 4-furrow version, the wheel may be positioned at the last or penultimate body. The bracket may be mounted at the back or moved forward for fence-line ploughing. The wheels are infinitely adjustable via turnbuckles. The brackets for the standard and SERVO plus ploughs are identical.

Dual-depth wheel – metal
SERVO 25 / 35 / 45: *ø 505 x 185 mm / 19.88 x 7.28"*

Dual depth wheel - pneumatic tyre
SERVO 35 / 45: *ø 579 x 264 mm / 22.8 x 10.4"*
Tyres 23 x 10.50–12

Undamped self-aligning wheels

The depth wheel pivots during reversing. A pin moves it into the correct position for travel close to the beam. Depth adjustment via a turnbuckle.
From the 4-furrow version, the wheel may be positioned at the last or penultimate body.

Self-aligning wheel - metal
SERVO 25 / 35: *Ø 505 x 185 mm / 19.88 x 7.28"*

Self-aligning wheel - pneumatic tyre
SERVO 25 / 35: *Ø 579 x 264 mm / 22.8 x 10.4"*

Hydraulically damped self-aligning wheels

During reversing, pivoting of the wheel is hydraulically damped – jolt-free pivoting gives smooth reversing and therefore longer service life. Wheel position at the last body.

Self-aligning wheel – metal
SERVO 25 / 35: *Ø 505 x 185 mm / 19.88 x 7.28"*

Self-aligning wheel - pneumatic tyre
SERVO 25 / 35: *Ø 579 x 264 mm / 22.8 x 10.4"*
Tyres 23x10.50–12, convertible to transport wheel

SERVO 45: *Ø 705 x 277 mm / 27.756 x 10.906"*
without transport function

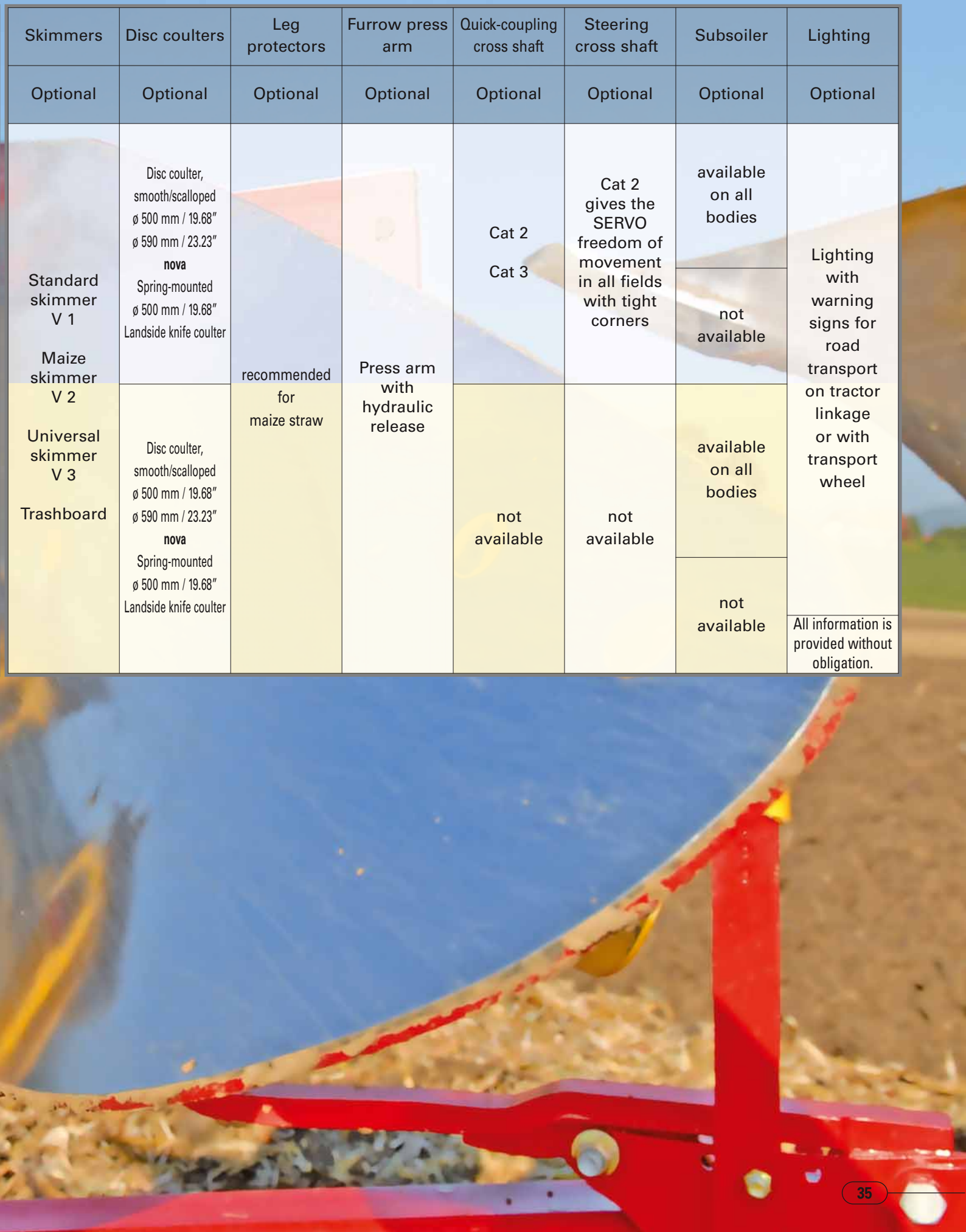
SERVO 35 / 45
Ø 750 x 340 mm, tyres 13.0/55–16

Types Fittings	Furrows	Body distance	Basic weight	Cross shaft	Body shapes	Points/shares	Depth wheels
	Specify	Choose from	Mouldboards	Standard Optional	Specify	Standard Optional	Optional
SERVO 25	2 3 4 (3+1)	95/102 / 37.4/40.2 85/95/102 / 33.5/37.4/40.2 85/95/102 / 33.5/37.4/40.2	591 kg / 1303 lbs 795 kg / 1753 lbs 986 kg / 2174 lbs	Cat. 2 Optional: Cat. 3	27 W		Dual-depth wheel Self-aligning wheel undamped damped Metal 505x185 mm Pneumatic 579x264 mm
nova	2 3 4 (3+1)	95/102 / 37.4/40.2 85/95/102 / 33.5/37.4/40.2 85/95/102 / 33.5/37.4/40.2	679 kg / 1497 lbs 1016 kg / 2240 lbs 1159 kg / 2255 lbs				
SERVO 35	3 4 5 (4+1)	95/102 / 37.4/40.2 95/102 / 37.4/40.2 95 / 37.4	882 kg / 1944 lbs 1091 kg / 2405 lbs 1215 kg / 2679 lbs	Cat. 2 Optional: Cat. 3 (5 shares standard)	36 W 41W 46 W 36 UW 39 UW 30 UWS 35 WSS 38 WWS	Standard: Reversible points Optional: Blade share One-piece share	Dual-depth wheel Self-aligning wheel undamped damped Metal 505x185 mm Pneumatic 579x264 mm Self-aligning and transport wheel 579x264 mm forward-mounted reversible transport wheel (from 5 shares) 705x277 mm 750x340 mm
plus	3 4	95/102 / 37.4/40.2	998 kg / 2200 lbs 1160 kg / 2257 lbs				
nova	3 4	95/102 / 37.4/40.2 88 / 95 / 102	1010 kg / 2227 lbs 1262 kg / 2782 lbs				
plus **nova**	3 4	95/102 / 37.4/40.2	1126 kg / 2482 lbs 1416 kg / 3122 lbs				
SERVO 35 S	4 5 / 5 (4+1) 6 (5+1)	95/102 / 37.4/40.2 95/102 / 37.4/40.2 95 / 37.4	1186 kg / 2615 lbs 1310 kg / 2888 lbs 1580 kg / 3483 lbs	Cat. 3 width 2 Optional width 3			
plus	4 5 / 5 (4+1)	95/102 / 37.4/40.2	1249 kg / 2754 lbs 1499 kg / 3305 lbs				
nova	4 5 (4+1)	95/102 / 37.4/40.2	1357 kg / 2992 lbs 1524 kg / 3360 lbs				
plus **nova**	4 5 (4+1)	95/102 / 37.4/40.2	1511 kg / 3331 lbs 1739 kg / 3835 lbs				

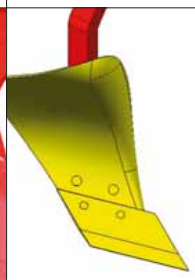
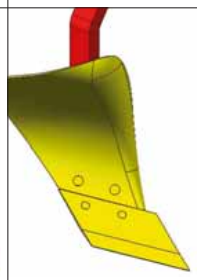
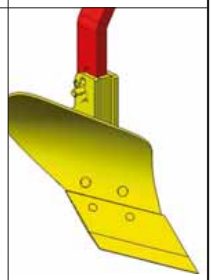
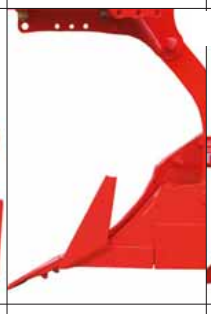
Skimmers	Disc coulters	Leg protectors	Furrow press arm	Quick-coupling cross shaft	Steering cross shaft	Subsoiler	Road Lighting
Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Disc coulter, smooth/scalloped ø 500 mm / 19.68″ ø 590 mm / 23.23″ nova Spring-mounted ø 500 mm / 19.68″ Landside knife coulter					available on all bodies	
						not available	
Standard skimmer V 1 Maize skimmer V 2 Universal skimmer V 3	Disc coulter, smooth/scalloped ø 500 mm / 19.68″ ø 590 mm / 23.23″ nova Spring-mounted ø 500 mm / 19.68″ Landside knife coulter	recommended for maize straw	Press arm with hydraulic release	Cat 2 Cat 3	Cat 2 gives the SERVO freedom of movement in all fields with tight corners	available on all bodies	Lighting with warning signs for road transport on tractor linkage or with transport wheel
						not available	
Trashboard	Disc coulter, smooth/scalloped ø 500 mm / 19.68″ ø 590 mm / 23.23″ nova Spring-mounted ø 500 mm / 19.68″ Landside knife coulter					available on all bodies	
						not available	

All information is provided without obligation.

Types	Furrows	Body distance	Basic weight	Cross shaft	Bodies	Points/Shares	Depth wheels
	Specify	Specify cm / in	with mouldboards	Standard Optional	Specify	Standard Optional	Optional
SERVO 45	4 5 (4+1)	95/102 / 37.4/40.2	1306 kg / 2879 lbs 1463 kg / 3226 lbs	Cat. 3 Width 2 Optional: Width 3)	27 W 36 W 41W 46 W	Standard: Reversible points	Dual-depth wheel Self-aligning wheel damped Pneumatic 705x277 mm
plus	3 4 5 (4+1)	95/102 / 37.4/40.2	1055 kg / 2326 lbs 1321 kg / 2913 lbs 1577 kg / 3477 lbs				
nova	4 5 (4+1)	95/102 / 37.4/40.2 95 / 37.4	1339 kg / 2952 lbs 1677 kg / 3967 lbs				
plus nova	4 5 (4+1)	95 / 37.4	1492 kg / 3290 lbs 1791 kg / 3949 lbs				
SERVO 45 S	4 5 / 5 (4+1) 6 (5+1)	95/102 / 37.4/40.2	1286 kg / 2836 lbs 1581 kg / 3486 lbs 1875 kg / 4134 lbs	Cat. 3 Width 3	36 UW 39 UW 30 UWS 35 WSS 38 WWS	Optional: Blade share One-piece share	Forward-mounted reversible transport wheel (from 5 shares) 705x277 mm 750x340 mm
plus	4 5 / 5 (4+1) 6 (5+1)	95/102 / 37.4/40.2	1605 kg / 3539 lbs 1890 kg / 4167 lbs 2130 kg / 4697 lbs				
nova	4 5 (4+1)	95/102 / 37.4/40.2	1457 kg / 3213 lbs 1795 kg / 3958 lbs				
plus nova	4 5 / 5 (4+1)	95/102 / 37.4/40.2	1776 kg / 3916 lbs 2020 kg / 4454 lbs				



Skimmers	Disc coulters	Leg protectors	Furrow press arm	Quick-coupling cross shaft	Steering cross shaft	Subsoiler	Lighting
Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Standard skimmer V 1 Maize skimmer V 2	Disc coulter, smooth/scalloped ø 500 mm / 19.68″ ø 590 mm / 23.23″ **nova** Spring-mounted ø 500 mm / 19.68″ Landside knife coulter	recommended for maize straw	Press arm with hydraulic release	Cat 2 Cat 3	Cat 2 gives the SERVO freedom of movement in all fields with tight corners	available on all bodies	Lighting with warning signs for road transport on tractor linkage or with transport wheel
						not available	
Universal skimmer V 3 Trashboard	Disc coulter, smooth/scalloped ø 500 mm / 19.68″ ø 590 mm / 23.23″ **nova** Spring-mounted ø 500 mm / 19.68″ Landside knife coulter			not available	not available	available on all bodies	
						not available	All information is provided without obligation.

Quick-coupling cross shaft	**Steering cross shaft**	**Traction Control SERVO 45 S**	**Trashboards** Pair 9 kg / 19.8 lbs	**Standard skimmer V 1** Pair 25 kg / 55.1 lbs	**Maize skimmer V 2** Pair 28 kg / 61.7 lbs	**Universal skimmer V 3** Pair 26 kg / 57.3 lbs
						
Leg protectors Pair 3 kg / 6.6 lbs	**Landside heel** add-on Pair 3 kg / 6.6 lbs	**Landside knife coulter** Pair 6 kg / 13.2 lbs	**Disc coulter** smooth 500/590 mm / 19.7/23.2" Pair 75/82 kg / 165/181 lbs	**Disc coulter** scalloped 500/590 mm / 19.7/23.2" Pair 72/80 kg / 159/176 lbs	**Disc coulter** smooth, spring-mounted 500/590 mm / 19.7/23.2" Pair 81/86 kg / 179/190 lbs	**Disc coulter** scalloped, spring-mounted 500/590 mm / 19.7/23.2" Pair 77/85 kg / 170/187 lbs
			**SERVO 25** 			
Dual-depth wheel 505 x 185 mm / 19.9 x 7.3" 86 kg / 190 lbs	**Dual-depth wheel** 579 x 264 mm / 22.8 x 10.4" 85 kg / 187 lbs	**Self-aligning wheel** 505 x 185 mm / 19.9 x 7.3" 54 kg / 119 lbs	**Self-aligning wheel** 579 x 264 mm / 22.8 x 10.4" 60 kg / 132 lbs	**Self-aligning wheel** 505 x 185 mm / 19.9 x 7.3" hydraulically damped 115 kg / 254 lbs	**Self-aligning wheel** hydraulically damped Pneumatic 130 kg / 287 lbs	**Self-aligning and transport wheel** 705 x 277 mm mechanical 170 kg / 375 lbs
						
Reversible transport wheel 705 x 277 mm hydraulic 185 kg / 408 lbs	**Reversible transport wheel** 750 x 340 mm mechanical 203 kg / 507 lbs	**Reversible transport wheel** 750 x 340 mm hydraulic 218 kg / 481 lbs	**Plough-beam pivot system** Pair 45 kg / 99 lbs	**Subsoiler** Pair 32 kg / 70 lbs	**Hydraulic press arm** 95 kg / 209 lbs	**Warning signs and road lighting**
						

SERVO 35 S




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.
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Alois Pöttinger Maschinenfabrik GmbH
Industriegelände 1
A-4710 Grieskirchen
Telefon +43 (0) 7248/600-0
Telefax +43 (0) 7248/600-2513

Pottinger UK
Redlake Trading Estate
Ivybridge
Devon PL21 0EZ – England
Phone: 01752 891375
Fax: 01752 891379
www.pottingeruk.co.uk

Poettinger Canada Inc.
650, Route 112
St-Cesaire, J0L 1 T0, PQ
Canada
Phone: (450) 469-5594
Fax: (450) 469-4466
E-Mail: sales.canada@poettinger.ca
Web: www.poettinger.ca

Poettinger US Inc.
107 Eastwood Road
Michigan City, IN 46360
USA
Phone: 219 879-8597
E-Mail: sales.us@poettinger.us
www.poettinger.us

Poettinger Australia P/L
15 Fordson Road
Campbellfield, VIC 3061
Australia
Phone: +61 3 9359 2969
Fax: +61 3 9359 6962
e-mail:
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