

Kongskilde ploughs



Semi-mounted reversible ploughs



The range of Kongskilde ploughs includes ploughs up to ten furrows adapted for large farms. The ploughs combine great strength and easy handling with perfect ploughing features.

Kongskilde semi-mounted ploughs are developed for hard work on big farms. The ploughs are available with a working width up to 5 meters.

Eventhough the capacity is enourmous we have not compromised when it comes to the ploughing features.

The result is a plough which is easy to set to correct depth and width. The big wagon ploughs have a strong joint in the middle which enables them to maintain a constant depth even in undulating fields.

The hydraulic stone trip system can be adjusted so that the bodies don't trip until they hit an obstacle. This system protects both tractor and plough from high stress.

Even when ploughing in heavy soil with a lot of trash and stones the ploughing is nonstop. Bodies with different design and a vide range of accessories ensure perfect ploughing result in all conditions.

Kongskilde semi-mounted ploughs are Perfect ploughing easy to manoeuvre thanks to hydraulics.



Joint attachment

The drawbar on Kongskilde semi-mounted ploughs is of heavy duty design, allowing superior manoeuvrability.

Transport: Comfortable and safe transport thanks to easy locking of the plough in butterfly position and low point of gravity.



Strong design

Kongskilde SRS, SRT

SRS and SRT models are the lightest semimounted reversible ploughs from Kongskilde. The ploughs are designed for tractors up to 132 kW (180 hp). The furrow width is easy to adjust between 35, 40, 45 cm (14", 16", 18"). Main frame dimension is 150x150 mm. The design and stability of the plough makes it easy to handle.



Supporting wheel

The large wheel 400/55x22.5 (1000x400mm) on the plough gives low rolling resistance, exact working depth and efficient weight transfer. When reversing on the headlands it is possible to steer the wheel in order to get the plough in correct position. The wheel comes automatically to ploughing position after reversing.



Only one double acting and one single acting valve are needed for reversing, steering of the wheel and adjusting of the front furrow, if a pressure controlled diverter valve is used.

The pressure controlled diverter valve is automatically controlling that the oil is going to the right valve in the different cycles (accessory).

Kongskilde HSRS, HSRT – models

HSRS and HSRT ploughs are developed for larger farms and for tough conditions. Strong flangeless frames (250x150x10 mm). The ploughs are dimensioned for tractors up 180 kW (250 hp).

The interbody clearance is 100 cm and the under beam clearance is 80 cm.

This gives a plough with a lot of space, which makes it easy to plough without interruptions even in lots of trash and difficult conditions.

The furrow width is adjustable in steps 40, 45 and 50 cm (16", 18" and 20").

HSRS and HSRT models are equipped with a large wheel 420/70 R24 (1245x420 mm). This wheel gives very good carrying capacity and steering.

The hydraulics have the same features as on SRS/SRT models.



A new generation

Kongskilde HSRWT, HSRWS

A new generation of semi mounted ploughs with hydraulic adjustable furrow width. The new semi mounted plough from Kongskilde is developed for the larger farms where focus is at high capacity and low cost.

Kongskilde HSRWT/S is available in three sizes, 6-8 bodies, and designed for tractors up to 270kW (370 hp). HSRWT/S can handle the toughest conditions thanks to the strong design and the clever position of joints for adjusting furrow width which gives low stress.



Beamhouses: The beamhouses on HSRWT/S are based on the same strong ones as used on the fully mounted XRWT/S.

The geometry gives low forces in beam houses and cylinders.

The beam houses and the other moving parts on the plough are greaseable and equipped with replaceable bushings.

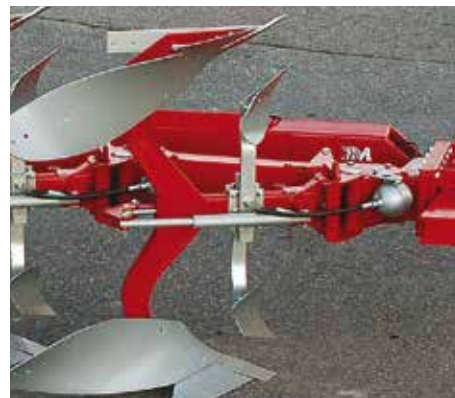
Furrow width: The new range of semi mounted ploughs from Kongskilde has a well thought out design for altering the furrow width. During ploughing the furrow width can easily be adjusted from 30-55cm in order to achieve flexibility wedge shaped fields or when the soil is varying.

Residue handling: The HSRWT/S can handle large amounts of straw and residues thanks to the large dimensions, interbody clearance 100cm and underbeam clearance 80cm.

Wheel: The plough is equipped with a large rear mounted wheel for best weight distribution and trouble free ploughing in tough conditions. The wheel is always kept parallel to the landsides when the working width is changed.



Points: The points on Kongskilde ploughs have long lifetime and are designed so that they wear evenly and stays sharp. The point is in the same level as the share and the mouldboard which gives a good flow of soil over the body, also it gives even wearing and low draft requirement.



Stone trip system: Kongskilde ploughs can be equipped with gas hydraulic stone trip system for nonstop ploughing even in tough conditions with large stones, or shear bolt protection for conditions with few fixed stones. The hydraulic system offers the opportunity to set the trip force individually for each pair of bodies. This makes it possible to set the pressure higher for the front furrow in order to keep it still in the soil without exposing the plough and the tractor to higher load.

Clever details

Stone release

The stone release system protects the plough from damages. On the Kongskilde ploughs the stone trip safety system is top class. When the plough hits a firm obstacle the disc coulter follows the body. For extra protection of the disc coulter there is a spring loaded version.

Fully automatic non-stop system

Kongskilde semi – mounted reversible ploughs is equipped with automatic gashydraulic safety system, which is separately adjustable for each component.

The hydraulic stone protection system works perfectly under almost all different ploughing conditions.

The system works independent even if several bodies are tripping at the same time. The tripping force is adjustable and ungraduated.

The plough is equipped with charging hose, valve and a pressure gauge as a standard.



If the highest recommended oil pressure (14.5 Mpa) is too low it is easy to increase stone trip force by 20 %.

This is easily done by moving the cylinder to its outer position.

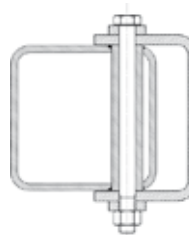
The shearbolt

In areas where there is no need for automatic stone release system the shearbolt is a good safety system.



Bushings

To achieve maximum stability and safety each component is assembled with bushings through the frame. The bushings are pressed and welded, and support the bolt under all circumstances.



The point does the work

The point performs most of the work and is a very important part of the body. The point is also the part that wears most when ploughing.

Use of original spare parts guarantees highest quality and perfect fit.



Perfect ploughing



Type AX is a turning plough body suitable for most ploughing conditions. It gives a clearly marked furrow and works efficiently when ploughing with 12-28 cm depth.

The power requirement is low.

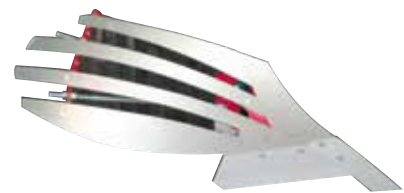
Type AX plough bodies are well-suited for work with skimmers.



Type AXP is shaped like type AX plough body, but has plastic mouldboards for sticky organic soils.



Type AH is a large cylindrical plough body suitable for covering large amounts of crop residues. Working depth down to 35 cm.



Type AS is a slatted plough body with the same shape as AH. This slatted plough body is suitable for ploughing difficult soil with scouring problems.



Type FC is a cylindrical plough body which is smaller than type AH. Type FC is suitable for ploughing down to 28 cm depth.

Wagon plough



THSRT is the biggest and strongest of all Kongskilde ploughs. THSRT is available from 7 to 10 furrows and is dimensioned for tractors up to 258 kW (350 hp). The plough consists of two parts, one semimounted and one mounted. These two parts are attached by a very robust joint.

The main frames are very strong, the front frame is 250x150x10 mm and the rear frame is 150x150x10 mm. The furrow width is adjustable between 40, 45 or 50 cm (16", 18" or 20").



Transport in butterfly position

When transporting the bodies are turned facing up with the reversing cylinders and the plough is locked in "butterfly position" by two valves.

In this position the plough is narrower than the tractor. Also you can lower the plough as much as the road allows, which gives a low centre of gravity and makes the plough stable when transporting.

Large wheels

The wagon of the plough is equipped with two large wheels (400/60x26,5, Ø1160 x 400 mm). When ploughing one wheel is in the furrow and one is on land.

The large wheels ensure good function even in rough conditions. With an interbody clearance of 100 cm and an underbeam clearance of 80 cm, the plough can handle a lot of trash.

Even ploughing depth

When ploughing the front part works similar to a semi-mounted plough. For the rear part a special joint is designed, this joint makes it possible for the rear part to follow the ground even in undulating fields.

The ploughing depth is adjusted with the three-point linkage on the tractor, the cylinders on the wagon and the depth wheel 10,0/80-12 (Ø 710x264mm) on the rear part.

Easy to handle

Handling the plough is easy even though it is big and robust. Thanks to that the plough is controlled from the three-point linkage, the cylinders on the midsection and the robust joint it's easy to achieve even headlands. The wagon plough is lifted and lowered by two hydraulic cylinders. The rear part of the plough can if necessary be lifted by hydraulic cylinders which are fitted in the joint. The reversing mechanism consists of three cylinders. The three cylinders secure a safe and smooth reversing even in tough conditions.

Simple adjustment of the wagon plough.

The wagon-plough is as standard equipped with hydraulic front furrow and EASY SET adjusting system on the midsection for adjusting the rear part of the plough. This makes it easy to set the plough correct.



Lifting cylinders



Reversing mechanism with three cylinders



Cylinder for adjustment of front furrow



Easy Set system for rear part

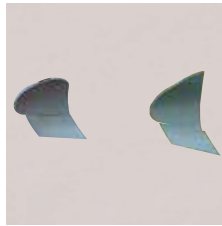
Accessories



Packerarm for model SRS/SRT.



Packerarm for model HRSR/HSRT and THSRT.



Skimmers.
EG EM



Disc coulters are available plain, notched or rippled, spring loaded or fixed.



Knife coulters and coverboards.



Furrow widener.



Semi-mounted reversible ploughs				No. of furrows					
				5	6	7	8	9	10
Plough type	Distance cm	Clearance height, cm	Transport width, cm	Weight app. kg	Weight app. kg	Weight app. kg	Weight app. kg	Weight app. kg	Weight app. kg
S R S	90	75	210	2100					
S R S	90	75	210		2300				
S R S	90	75	210			2500			
S R T	90	75	210	2300					
S R T	90	75	210		2500				
H S R S	100	80	220		2630				
H S R S	100	80	220			2770			
H S R S	100	80	220				2910		
H S R T	100	80	220		2900				
H S R T	100	80	220			3100			
H S R T	100	80	220				3300		
H S R W T	100	80	xx		3200				
H S R W T	100	80	xx			3450			
H S R W T	100	80	xx				3700		
H S R W S	100	80	xx		3000				
H S R W S	100	80	xx			3250			
H S R W S	100	80	xx				3500		
Wagon plough						4+3	5+3	6+3	6+4
T H S R T	100	80	240			4400			
T H S R T	100	80	240				4800		
T H S R T	100	80	240					5100	
T H S R T	100	80	240						5400

- Stone release system: S = Shearbolt, T = Hydraulic stone release
- R = Reversible plough
- S = Semi-mounted
- H = Heavier model
- T = Wagon plough



Computer technique and craftsmanship

A combination of modern computer technique and reliable craftsmanship regarding material knowledge, heat treatment and hardening are the key elements in the success of the Kongskilde plough range.

The design engineers work in a three dimensional computer environment. Every detail is designed as a solid prepared to make movement and strength calculations on.

This makes it possible to test every function and movement in the computer before constructing the first prototype. Directly linked to the design computer there is a numerically controlled mill which produces a model of the detail.

When the designer is satisfied with the model, the tools forming the different parts of the plough body are designed.

The information is transferred to the mill which produces the exact tools used for hot bending and hardening of the parts. Despite all modern techniques, of course all new products are rigorously tested in comprehensive laboratory and field tests.

The concentration on product development represents a solid ground for the future and gives the Kongskilde products **Quality, Strength and Precision.**