

# Kongskilde ploughs



Fully mounted reversible ploughs



Kongskilde offers a wide product range of fully mounted reversible ploughs from 2 to 6 furrows. By unique constructions and well thought-out details the Agrolux ploughs are adapted for the rational farmers who aim for cost effective soil preparation.

Kongskilde ploughs are designed to offer farmers quality ploughing results, easy operation and advantageous operational economy. We have achieved this by using modern design principles, agronomic thinking regarding functional details and exploiting optimal material characteristics.

All this is built upon several generations experiences in developing ploughs. This places Kongskilde ploughs in a league of their own.

Heavy duty dimensioning and high quality material ensures a long life time!



# "Easy Set"

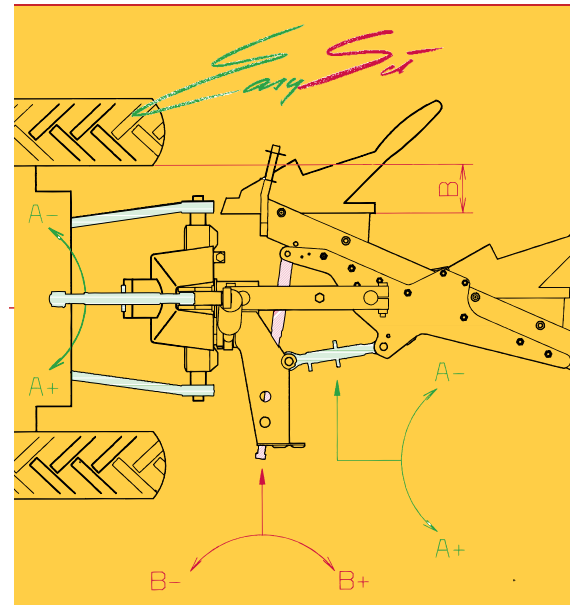
A simple system that ensures correct adjustment of the plough.  
This means excellent ploughing and lower operating costs.

Easy Set automatically adjusts the alignment of the plough as you adjust the front furrow. The system is designed as a parallelogram, where the geometry is calculated in order to adjust the alignment correctly once the basic setting of the plough is correct.

Easy Set offers you many advantages for daily use:

- Easy operation. The front furrow width and the alignment are adjusted to a basic setting using separate spindles not influencing each other.
- Correctly adjusted alignment ensures that the plough moves freely using a minimum of power.
- Manoeuvring is easy once the plough is adjusted correctly.
- On ploughs with hydraulically adjustable furrow width, Easy Set ensures perfect alignment for all furrow widths, which can be freely adjusted.
- The design is flexible, which means that shocks are not transmitted directly to the tractor.
- Correct setting minimizes use of wearing parts.
- Correct setting gives a perfect ploughing result.

*Easy Set*



All Kongskilde fully mounted reversible ploughs have the Easy Set system as standard equipment.



A parallelogram automatically adjusts the alignment.



### Stone release system

Kongskilde offer two kinds of stone release system; hydraulic stone release system and shear bolt system.

### Hydraulic stone release system

Where there are many stones in the soil, the hydraulic stone release system from Kongskilde is efficient for non-stop ploughing. The release pressure for each plough body can be adjusted individually. This means that the pressure can be set higher for the front furrow in order to keep it in the soil, without exposing the plough and the tractor to a higher load. The adjustment possibilities are wide, as the resistance force may range from 950 kg to 1.500 kg for each plough body. The geometry of the release system offers a large release height to ensure non-stop ploughing even in conditions with large stones and for deep ploughing.

### Shear bolt system

This system is most useful in soil with few fixed stones. The design is simple and inexpensive to manufacture. Ploughs with shear bolts have a lower weight, and the centre of gravity is close to the tractor. This reduces the lift requirement. The shear bolts are manufactured from hard steel and dimensioned to burst at a force of 4.000 kg. All other design in the plough is dimensioned to exceed this force. With the high strength of the shear bolt you can plough non-stop even with smaller obstacles. The hard steel shears with a clean break to make it easy for you to replace bolts.



# Furrow width adjustment

Kongskilde ploughs can be ordered in two different executions of furrow width adjustment. Mechanical furrow width adjustment and hydraulic furrow width adjustment.

## Mechanical furrow width

With mechanical adjustment of the furrow width you change the furrow width with a bolt at every single plough body. The eligible furrow width depends on which plough model it is but runs from 30 to 50 cm. These ploughs has a simple and clean construction which are uncomplicated for the user.



## Hydraulic furrow width adjustment

With hydraulically adjustable furrow width you can fully benefit from all the qualities of the Kongskilde plough. Kongskilde offers a complete range of medium and heavy ploughs with adjustable furrow width.

In a single operation you can vary the furrow width whilst ploughing.

This means that you can exploit the tractor pulling power fully and correct the furrow after obstacles.

Wedges and uneven areas become easier to handle, and you obtain a perfect ploughing result.

Hydraulic furrow width is available on all plough models except from RT/S. The furrow width is controlled from 30 to 55 cm on the largest models of ploughs.





### Kongskilde RT/S

RT/S is a plough range aimed for the smaller farmers and suitable for tractors up to 90 kW. The range consists of fully mounted reversible ploughs with low lift requirement. The center of gravity is close to the tractor for minimum lift requirement. The RT/S ploughs "turn under" which means that the bodies pass under the frame and the depth wheel passes up high when the plough is turned. RT is equipped with a fully automatic hydraulic stone release system and RS with fixed beams with individual shear bolts for each leg. The RS is available with 3 and 4 furrows and 90 and 100 cm point to point distance.

The furrow width can easily be adjusted in three steps (30, 35 and 40 cm) to suit different ploughing conditions. In comparison to the weight the ploughs have strong

design manufactured from high grade heat-treated steel in vital parts.

The quick hitch headstock is standard equipment. With the easily detachable cross shaft, hitching of the plough is a lot easier and safer to connect.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Max. effect kW	Approx. lift requirement
RT 3975	3	90-120	970	80	75	90	2100
RS 3975	3	105-135	780	90/100	75/80	90	1700
RS 4975	4	140-180	940	90	75	90	1900

**R** = Reversible **T** = Tripped **S** = Shear bolt



### Kongskilde front mounted plough FMRT

The front mounted reversible plough, FMRT from Kongskilde gives you the opportunity to exploit the tractors on the farm in a more efficient way. By using a front mounted plough in combination with a normal rear mounted reversible plough, better weight distribution is achieved which leads to reduced slip and fuel consumption.

FMRT is available in models of 2 and 3 furrows with individual hydraulic stone release system on each plough body. The point to point distance is 100 cm and the under beam clearance is 75 cm.

This combination of a front- and rear mounted plough offers a great flexibility. In wet conditions in the morning

the front plough can be raised and act as a front weight. When traction conditions improve full capacity can easily be utilized from the driver's seat. In hilly conditions all bodies can be used downhill and the rear plough only when going uphill.

The FMRT works outside of the tractor and therefore it is equipped with an alignment cylinder which is connected in series together with the reversing cylinder. The hydraulic alignment ram automatically centers the plough before turnover, and then swings it out to the new working position.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit
FMRT 21075	2	80-10	990	100	75	2
FMRT 31075	3	120-150	1210	100	75	3

**F** = Front mounted **M** = Classification **R** = Reversible **T** = Tripped



### Kongskilde MRT/S

MRT/S represents the medium class models of Kongskilde ploughs with mechanical furrow width adjustment. The ploughs are available from 3 to 5 furrows and designed for tractors up to 130 kW. It is a simple strong and clean design comparing to the low weight. The range is manufactured from high quality heated steel for strength and reliability to work in tough conditions. The pivot shaft has a diameter of 125 mm and spreads the load on a large surface while the plough is turning over. The direction of turnover can be chosen according to the conditions. The bodies turning under the frame result in good clearance to the ground even at low lifting heights. The bodies turning over the frame is

recommended when using a furrow press. The lift requirement is then approx. 10% higher.

The point to point distance on the MRT/S range is 90 or 100 cm with an underbeam clearance of 75 cm, allow space for effective skimmers to give good weed control and straw incorporation. The furrow width can be adjusted manually in 3 steps. 35, 40 and 45 cm on the ploughs with 90 cm point to point distance and 40, 45 and 50 cm on the plough with 100 cm point to point distance.

The quick hitch headstock is standard equipment. With the easily detachable cross shaft, hitching the plough is a lot easier and safer.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
MRT 3975*	3	105-135	1060	90	75/80	3	130	2500
MRT 31075	3	120-150	1070	100	75/80	3	130	2900
MRT 4975	4	140-180	1280	90	75/80	4	130	3400
MRT 41075	4	160-200	1300	100	75/80	4	130	3900
MRS 3975*	3	105-135	940	90	75/80	1	130	1500
MRS 31075*	3	120-150	950	100	75/80	1	130	2200
MRS 4975*	4	140-180	1110	90	75/80	1	130	2500
MRS 41075	4	160-200	1120	100	75/80	1	130	3000
MRS 5975	5	175-225	1280	90	75/80	1	130	3400

**M** = Classification **R** = Reversible **T** = Tripped **S** = Shear bolt  
 \*Models can be extended with one extra furrow



### Kongskilde MRWT/S

MRWT/S also belongs to the medium class models of Kongskilde ploughs like MRT/S. The ploughs are available in 3 and 4 furrows if you choose the hydraulic stone release and 3, 4 and 5 furrows if it is a shear bolt plough.

MRWT/S has a well thought out construction where the furrow width is hydraulically controlled from 30 to 50 cm and the pivot point for the furrow width adjustment is placed in the pulling line of the plough beam. This minimizes the adjustment forces and the wear of the bearings. By regulating the furrow width the plough can easily be adapted to different ploughing conditions. Wider furrows result in higher output and lower energy consumption. The furrow width resulting in the best quality ploughing for each soil type can easily be found. All pivot points in the furrow width adjustment are also equipped with replaceable bushes with greasing possibility. The greasing reduces the forces required, and prevents dust and water getting in.

The design of the main frame of MRWT/S range has got precision drilling made by high technological CNC machines for the extensive bolt assembly which means that it is possible to use a heat treated steel with 40% higher strength compared to standard frame tubes.

Kongskilde MRWT/S has a high strength compared to the weight ratio!

The direction of turnover can be chosen according to the conditions. The bodies turning under the frame result in good clearance to the ground even at low lifting heights. The bodies turning over the frame is recommended when using a furrow press. The ploughs can be equipped with a double hydraulic ram for alignment before turning the plough which reduces the stress of the tractor.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
MRWT 3875	3	90-150	1140	85	75/80	3	130	2600
MRWT 31075	3	90-150	1150	100	75/80	3	130	3000
MRWT 4875	4	120-200	1370	85	75/80	4	130	3500
MRWT 41075	4	120-200	1380	100	75/80	4	130	4000
MRWS 3975	3	90-150	990	90	75/80	3	130	1600
MRWS 31075	3	90-150	1000	100	75/80	3	130	2300
MRWS 4975	4	120-200	1190	90	75/80	4	130	2600
MRWS 41075	4	120-200	1200	100	75/80	4	130	3100

**M** = Classification **R** = Reversible **W** = Hydraulic furrow width **T** = Tripped **S** = Shear bolt



### Kongskilde HRT/S

HRT/S is a range of ploughs intended for tractors up to 165 kW and heavy duty ploughing. HRT are available with 4 and 5 furrows and HRS 4, 5 and 6 furrows. The point to point distance is electable between 90 and 100 cm and the underbeam clearance is electable between 75 and 80 cm.

The furrow width is mechanically adjustable in 3 steps. 35, 40 and 45 cm with 90 cm point to point distance and 40, 45 and 50 cm with 100 cm point to point distance. The pivot shaft has a diameter of 150 mm and spreads the load on a large surface while the plough is turning over.

The HRT/S has a combi wheel as standard placed at the rear of the plough for the best weight transfer. The large diameter of the tire gives good support and low rolling resistance in field. At the road the plough is transported in butterfly position like a semi mounted plough for less stress on the tractor.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
HRT 4975*	4	140-180	1510	90	75/80	4	165	4000
HRT 41075*	4	160-200	1530	100	75/80	4	165	4300
HRT 5975	5	175-225	1820	90	75/80	5	165	5000
HRT 51075	5	200-250	1840	100	75/80	5	165	5700
HRS 4975*	4	140-180	1420	90	75/80	1	165	3000
HRS 41075*	4	160-200	1350	100	75/80	1	165	3500
HRS 5975	5	175-225	1590	90	75/80	1	165	4000
HRS 51075	5	200-250	1610	100	75/80	1	165	4500
HRS 6975	6	210-270	1760	90	75/80	1	165	5000

**H** = Classification **R** = Reversible **T** = Tripped **S** = Shear bolt  
 \*Models can be extended with one extra furrow



### Kongskilde HRWT/S

HRWT/S is a plough model from Kongskilde in the medium range for tractors up to 165 kW. HRWT/S is a 5 furrow plough in two versions with 85 or 100 cm plough body distance respectively. Both with a under beam clearance of 75 and 80 cm. The plough range is equipped with a heavy duty headstock with a 150 mm pivot shaft and needle bearings.

For good carrying capacity a new depth wheel with wide tire and extended adjustment range has been designed for this model. The turn over movement is effectively damped by an adjustable friction brake. This new wheel can be equipped with rim sides for ploughing in wet conditions.

The working width is hydraulically adjustable within a range of 30 to 50 cm. The favorable geometry in the regulation system makes it possible to adjust the working width on the go with relatively low pressure. All pivot points in the furrow width adjustment are equipped with replaceable bushes with greasing facilities, for less friction and for keeping the dirt and water out.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
HRWT 5875	5	150-250	1530	85	75/80	5	165	4500
HRWT 51075	5	150-250	1540	100	75/80	5	165	5000
HRWS 5975	5	150-250	1400	90	75/80	5	165	3700
HRWS 51075	5	150-250	1410	100	75/80	5	165	4200

**H** = Classification **R** = Reversible **W** = Hydraulically adjustable working width **T** = Tripped **S** = Shear bolt



### Kongskilde XRT/S

The XRT/S series has a simple and clean construction, with few moving parts. XRT/S is suitable for tractors up to 250 kW and are available from 4 to 6 furrows. The working width can be manually adjusted in 5 steps between 35 and 55 cm.

The heavy duty head stock is developed to suit different kinds of tractors. XRT/S is equipped with a quick coupling cross shaft that can be placed in four different positions to be adapted to different tractors. The head stock can be equipped with cat. 3 or 4 cross shaft. The pivot shaft with needle bearings is 180 mm and spreads the forces on a very big surface when turning the plough.

A hydraulic alignment ram automatically straightens the plough behind the tractor to give it a gentle turning action. After the turn the plough automatically returns to working position. This system minimizes the strain of the tractor.

The large combined depth-/transport wheel on XRT/S gives good support and low rolling resistance. A four step disc brake gives the wheel a gentle change of position when turning the plough. XRT/S is transported in butterfly position like a semi mounted plough.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
XRT 4975*	4	140-220	1920	90	75/80	4	250	4800
XRT 41075*	4	140-220	1940	100	75/80	4	250	5200
XRT 5975*	5	175-275	2200	90	75/80	5	250	6000
XRT 51075*	5	175-275	2220	100	75/80	5	250	6600
XRT 6975	6	210-330	2490	90	75/80	6	250	8000
XRT 61075	6	210-330	2520	100	75/80	6	250	8800
XRS 4975*	4	140-220	1760	90	75/80	1	250	4400
XRS 41075*	4	140-220	1780	100	75/80	1	250	4800
XRS 5975*	5	175-275	2040	90	75/80	1	250	5600
XRS 51075*	5	175-275	2060	100	75/80	1	250	6000
XRS 6975	6	210-330	2320	90	75/80	1	250	7000
XRS 61075	6	210-330	2350	100	75/80	1	250	7500

**X** = Classification **R** = Reversible **T** = Tripped **S** = Shear bolt  
 \*Models can be rebuild with one extra furrow



### Kongskilde XRWT/S

XRWT/S is the most heavy-duty plough range Kongskilde offers with hydraulic adjustable furrow width which are designed for tractors up to 250 kW. The XRWT/S range, sized from 4 to 6 furrows, are available with 80 cm under-beam clearance which ensures a good permeability of straws and crop residues. The sturdy main frame on XRWT/S has dimensions of 220\*120 mm, which speaks for a plough who is designed for tough ploughing conditions.

The furrow width can easily be changed from the tractor cabin between 30-55 cm. The geometrical design of the furrow width setting results in easy adjustment on the go with limited pressure needed. All pivot points

are equipped with replaceable bushings with greasing possibility.

The headstock is like XRT/S made really strong with a 180 mm pivot axle placed in needle bearings for an efficient distribution of load. The plough range is equipped with a double cylinder. One half of the cylinder manages the automatic alignment. The other half of the double cylinder is controlling the furrow width adjustment. When the turnover is activated the furrow width is automatically going down to min. position, the plough reverses, and the furrow width comes back to the pre set value again.



### Technical specification

Model	Number of furrows	Working width cm	Weight kg	Point to point clearance cm	Under beam clearance cm	Pairs of Disc coulters possible to fit	Max. effect kW	Approx. lift requirement
XRWT 4975*	4	120-220	1920	90	75/80	4	250	4800
XRWT 41075*	4	140-220	1940	100	75/80	4	250	5200
XRWT 5975*	5	150-275	2200	90	75/80	5	250	6000
XRWT 51075	5	175-275	2220	100	75/80	5	250	6600
XRWT 6975	6	180-330	2490	90	75/80	6	250	8000
XRWS 4975*	4	120-220	1760	90	75/80	1	250	4400
XRWS 41075*	4	140-220	1780	100	75/80	1	250	4800
XRWS 5975*	5	150-275	2040	90	75/80	1	250	5600
XRWS 51075	5	175-275	2060	100	75/80	1	250	6000
XRWS 6975	6	180-330	2320	90	75/80	1	250	7000

**X** = Classification **R** = Reversible **W** = Hydraulically adjustable working width **T** = Tripped **S** = Shear bolt  
 \*Models can be rebuild with one extra furrow

# Accessories

\* Alignment cylinder are standard on the models HR, HRW, XRW and MR 5 furrow



Hydraulic adjustment of front furrow.



Land wheel, steel, for types R and MR. 500 x 160 mm.



Land wheel, rubber, for types R and MR. 7.00-12.



Combiwheel for types R and MR. 10.0/80-12.



Tractor patterned tire for types R, MR, HR (4). 26\*12,00-12



Sidemounted combiwheel for type HR. 10.5/65-16.



Rear mounted combiwheel for type HR and XR. 10.5/65-16 / 340/55-16



Rim side tractor patterned tire. Counteract soil covering.



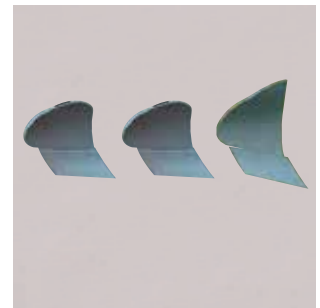
Alignment cylinder for type MR.\*



Packer arm for types MR and HR.



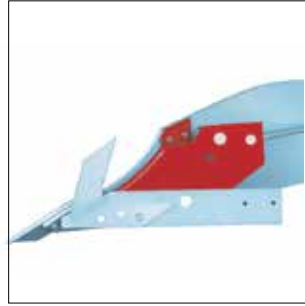
Packer arm for type XRWT.



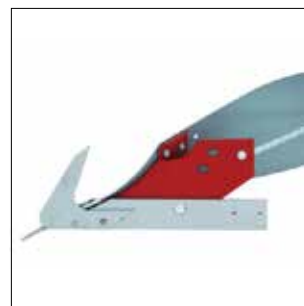
Skimmers  
EG EP EM



Disc coulters are available in plain or grooved, flexible or rigid.



Fin coulters. Low weight and good clearance.



Forwarded sword coulters. Improves the ploughing when the knife cuts before turning the soil.



Knife, coverboard and furrow cleaner.



Kongskilde plough bodies are available in several designs. The common characteristic of all plough bodies are that they offer perfect turn-over of the furrow slice in order to close the furrows and clear a wide furrow bottom with enough space for wide tractor tyres.

The share points on Kongskilde plough bodies are extra long and designed in such a way that wear is equal throughout the lifetime.

The design means good soil contact, and new points will break through the eventual ploughing pan. The long point has exceptional wearing life with homogeneous dimension,

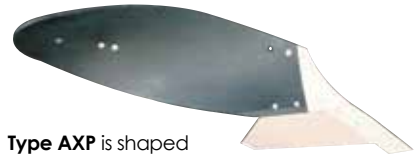
and it has good heat transference in order to reduce wear.

The point, the share and the mouldboard are in the same plane on an Kongskilde body.

This means that wear is distributed evenly, the power requirement is reduced, material expenditure is lower and the risk of soil sticking to the mouldboard is less than for other ploughs. Since the adjustment of an Kongskilde plough is always correct, so that the plough is in balance, a small landside is enough to control the plough. This reduces the use of wearing parts.



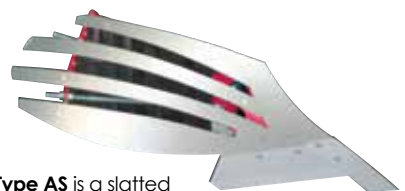
**Type AX** is a turning plough body suitable for most ploughing conditions. It gives a clearly marked furrow and works efficiently when ploughing with 12-28 cm depth. The power requirement is low. Type AX plough bodies are well-suited for work with skimmers.



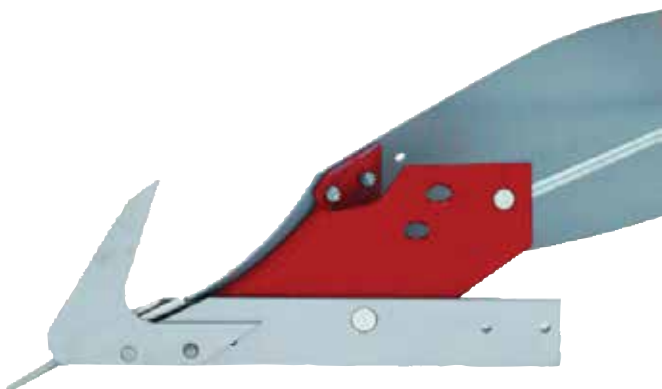
**Type AXP** is shaped like type AX plough body, but has plastic mouldboards for sticky organic soils.



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

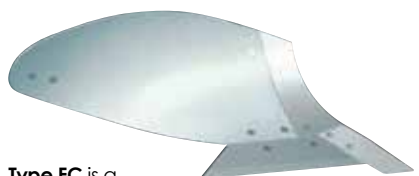


**Type AS** is a slatted plough body with the same shape as AH. This slatted plough body is suitable for ploughing difficult soil with scouring problems.



Kongskilde offers a new forwarded sword coultter. The landside is reconstructed with three holes able to fit both of the fin coulters.

The new coultter cuts the furrow before turning which can improve the ploughing result.



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



## 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.