

The Complete Range of Ploughs



Quality Ploughs for the Professional Farmer



He's Confident. He has the Best Plough in



Kverneland is world renowned and unequalled in producing ploughs with high performance and low operating costs

Innovation from the start

In 1879 at the age of 25, Ole Gabriel Kverneland founded his smithy business in a small village south of Stavanger, Norway. As he was brought up on a farm and educated in agriculture he subsequently understood all the machinery requirements of farmers. He strongly believed in innovation and realized

that a mouldboard plough must be able to withstand the very tough stony soil conditions of Norway. Over the years, he together with his team of engineers developed special steel heat treatment processes to allow his ploughs to work in the toughest types of soil. Using these new steels of unique strength, Kverneland succeeded in manufacturing robust ploughs thus gaining a strong reputation for quality. Today, Kverneland is the leading manufacturer of ploughs and has a very strong market position throughout the world.

The World!



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Customer orientated

The tradition of customer orientated product development has resulted in the long record of innovations and in becoming a leading plough brand in the industry. High priority is given to building close relationships with end users. Systematic follow-up of individual customer experiences helps Kverneland to adapt products to better match farmer's requirements.

Kverneland's unique steel

130 years of experience in developing special steels and heat

treatment processes have resulted in unsurpassed quality and wear resistance - "Kverneland steel" is unique. Lighter than our competitors and extremely robust after Kverneland's special heat treatments. This process is carried out and adapted not to a few selected plough parts but to the complete plough.

Kverneland's unique heat treatment is a guarantee of the Kverneland ploughs outstanding performance, quality and longevity.

Systems That Improve Your Work Day

Systems that – if combined with the right equipment – give the individual farmer the opportunity to carry out his work quicker and more cost efficiently.

Vibromat System

Ploughs with an inbuilt shock absorber system.



Vari-Width® System

Infinitely variable adjustment of furrow width.



Auto-Reset System

Ploughs with a fully automatic auto-reset system.



Kverneland Headstocks

Headstocks that cope with the demand from larger and heavier mounted reversible ploughs and bigger and stronger tractors.



The Kverneland Vibromat System **Eliminates Vibrations in Hard Conditions**

Kverneland's Vibromat system works efficiently even in the harshest of conditions. The vibrations are absorbed which consequently protects the plough and the tractor from excessive wear.



A strong shock absorber is able to absorb vibrations very efficiently. It works on the same principle as the shock absorbers on a car. The legs are fitted with shearbolts for additional safety.

Many Kverneland ploughs work on stone-free land and therefore do not need an auto-reset system. However, on very hard and dry land, and on thin brashy soils, strong vibrations may occur during ploughing.

Both the plough and the tractor are exposed to extraordinary wear and tear, and the vibrations are very irritating to the operator. Kverneland's Vibromat system eliminates this problem and, once again, Kverneland was the first to find a solution, which is clever yet, simple.

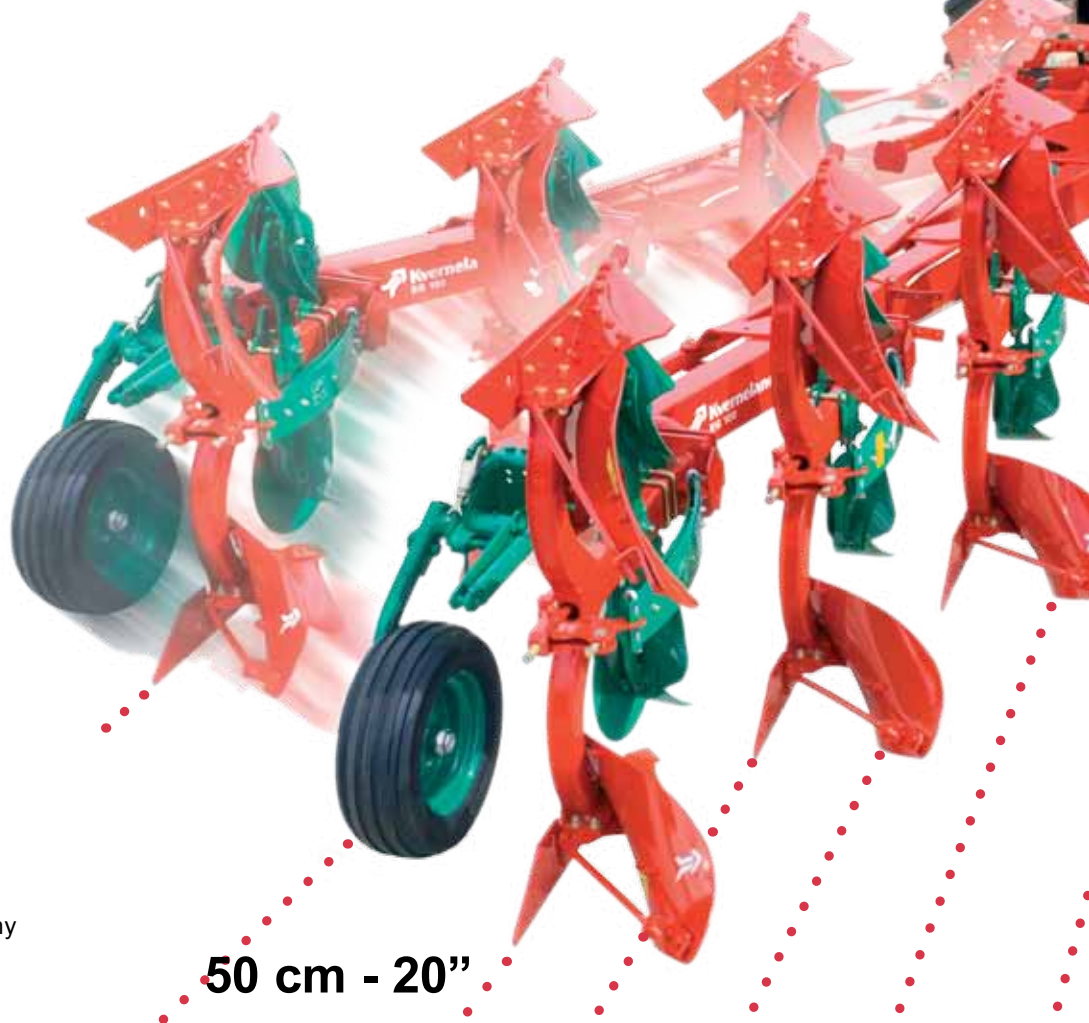
The Vibromat system is available for LD and RN ploughs (mechanical furrow width adjustment models).

The Kverneland Vari-Width® System

Variation On the Move

Kverneland Vari-Width® is a world-patented system for mechanical or hydraulic furrow width adjustment. The system allows the optimal match between tractor, implement and soil conditions. By using the Vari-Width® system, you can plough wider, quicker, better and at lower cost.

The Kverneland Vari-Width® allows a typical increase in output of up to 30%



The system that changed thinking

Kverneland's Vari-Width® system has been the market leader for many years. The experiences of satisfied users and the tests carried out by several international research institutes have demonstrated that the system is without question one which has permanently changed the thinking on ploughing techniques.

Increased capacity by more than 30%

The Vari-Width® concept is based on gaining maximum output. As the ploughing width can be constantly varied, on the move and at will (hydraulic version), the full power and traction of the tractor can be utilised at all times, taking varying soil conditions and difficult terrain in its stride.

50 cm - 20"

Cost saving

Kverneland Vari-Width® offers cost saving and output related advantages in addition to the practical fact that the work can be done more easily. In terms of capacity, it is of great benefit to be able to vary the ploughing width. By increasing the furrow width from 35 cm to 45 cm (14" to 18"), the overall ploughing width is increased by an impressive 30%.

In terms of fuel used, the consumption of diesel in relation to the increased output is reduced by as much as 18%.

Ability to vary the ploughing width

The degree of 'finish' of the furrows and the capacity of the plough can be adjusted by regulating the ploughing width. For example, increasing the ploughing width also gives more 'clearance', making it easier to handle stripped or chopped straw, whereas shallow ploughing with a greater ploughing width is also made possible by increasing the furrow width.



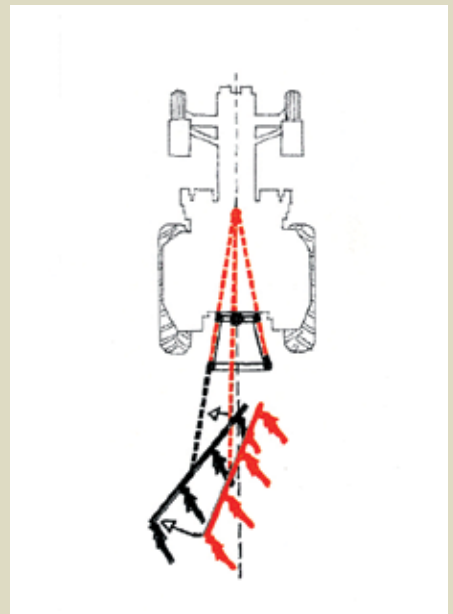
Infinite adjustment of working width from 30 to 50 cm (12"-20"), depending on models.

With Kverneland Vari-Width®, the working width can be infinitely hydraulically adjusted from the driver's seat while on the move.

Kverneland's patented Vari-Width® system has the correct parallel linkage along the whole length of the plough. That is why you always get the right line of pull, which in turn leads to a lower draft requirement and less wear and tear.

Two different systems

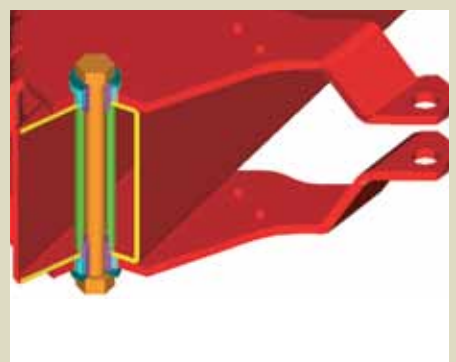
Kverneland Vari-Width® is available in two variants – with hydraulic or mechanical adjustment of the furrow width. The hydraulic variant allows adjustment of the furrow width from the driver's seat 'on the move'. The practicality of being able to determine not only the depth, but also the width of the furrows is crucial if the best results are to be achieved.



Minimum wear

The Kverneland Vari-Width® system has a unique non-wearing linkage joint between the beams and the mainframe section.

The system consists of a robust 24mm bolt, a distance tube, and two special heat-treated cones and hardened replaceable bushes.



The heat-treatment of high quality steels, and exacting manufacturing accuracy, guarantee perfect beam and body alignment with minimum wear.



The heat-treated mainframe together with the bolt, distance tube, two cones and hardened bushes ensure a unique non-wearing pivot joint between the beams and the mainframe.

30 cm - 12"

Easier to make a better job

With Kverneland Vari-Width® it is easier to make a better job. The work can be kept straighter more easily, and it is easier to work up to hedges, fences, trees and ditches.

Vari-Width® saves time

By increasing the ploughing capacity by more than 30%, the work can be finished quicker.

The Kverneland Auto-reset System

Unbeatable in Stony Conditions

The simplest and most reliable auto-reset system on the market.

With Kverneland's auto-reset system, you just keep on going. Whenever the plough meets an obstruction, each leg releases over it and then returns to the correct ploughing depth. Simple and efficient.



jolts and possible damage. Once the obstruction has been passed, the plough body automatically returns to the correct ploughing depth.

Quicker than ever

With today's demands for higher output, both tractor and plough are expected to perform quicker than ever before. This makes more arduous demands on the equipment, particularly on the safety systems designed

Kverneland's fully automatic non-stop auto-reset system has always been unbeatable when it comes to trouble-free ploughing in stony conditions.

The simple multi-leaf spring system allows the plough legs to release over stones and other solid objects in the ground in a smooth and efficient manner. This avoids sudden



Taylor-made boron steel

+ Unique Kverneland heat treatment technology

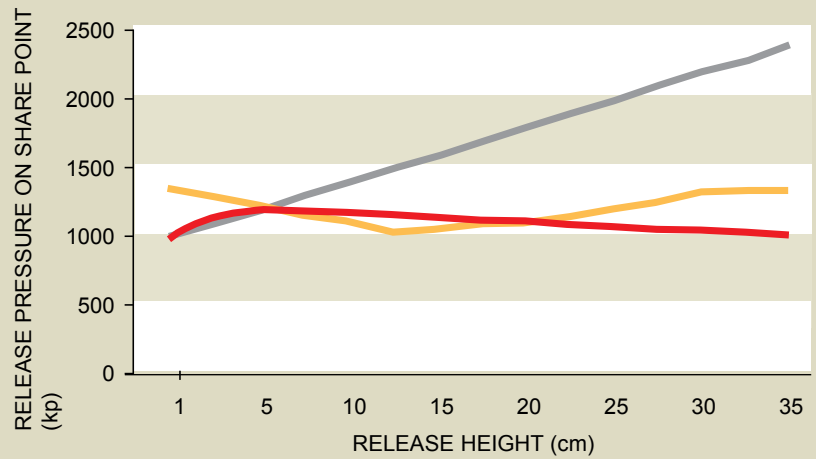
= Kverneland unequalled strength



Release characteristics

The diagram shows:

- the differences between three different auto reset systems, (Hydraulic system, Coil spring system and the Unique Kverneland leaf spring system)
- how the pressure varies as the body rises (1 cm)



● Hydraulic System ● Coil Spring System ● Kverneland Auto-Reset

Benefits

● The Kverneland leaf spring Auto-Reset system is highly recommended. When hitting an obstacle, the pressure on the point, frame, plough parts, decreases. The stress on the plough is therefore reduced which guarantees a longer life to the plough and ensures a better ploughing.

Extra leaves when needed

The standard Auto-Reset system includes 7 Kverneland heat treated springs (640Kp). For heavier to extreme soil conditions, extra leaf springs are added for up to 1400kp. The leaves are easily fixed with one central bolt only.



Standard spring
- with 7 leaves (640 kp)



Double spring package
- with 14 leaves (1400 kp)

to protect the tractor, plough and driver against the dangers encountered whenever the plough meets hidden obstructions in the ground.

Simple and easy

Kverneland's auto-reset system is a very simple construction and yet is able to withstand these punishing forces year in, year out, with a minimum of maintenance.

Kverneland Headstocks To Meet the Demand of Modern Farming



Kverneland headstocks

are designed to cope with the increasing demand from bigger and heavier mounted reversible ploughs and bigger and stronger tractors with up to 300 HP.

They are manufactured from the highest quality steel, and heat-treated for maximum strength according to Kverneland's exacting standards.

Headstock 200

To ensure years of trouble-free operation, the headstock is mounted on a robust 120mm shaft fitted with sealed roller bearings.

Headstock 300

A robust 150mm, specially heat-treated main shaft with sealed roller bearings will provide years of trouble-free work. The significant development here is that the shaft is fixed, with the front support moving around it. Headstock 300 is for bigger 5-, 6- and 7-furrow mounted reversible ploughs and should be the first choice for large scale farms and for contractors planning intensive use. Those that value an efficient work and cost efficiency.

Smooth and safe turnover

Both headstocks employ a strong 80-mm turnover cylinder positioned at the rear of the headstock mast, to give correct and safe turnover, even for the largest ploughs. The design retains the proven Kverneland concept of having the centre of gravity close to the tractor in order to minimise lift requirement and to improve stability.

Front furrow width adjustment

As standard equipment, front furrow width adjustment is via a turnbuckle. Hydraulic cylinders can be specified as an option.

Elegant layout of hoses

To avoid the risk of hose damage during the turnover operation, the majority of the hoses pass through the main support axle – no hoses pass over the turning point of the headstock. Even the valve block is integrated.

Transport lock

All big and heavy mounted reversible ploughs should be transported on a combined depth and transport wheel. Therefore the headstocks are equipped with an integrated transport lock to transport the plough in the "butterfly" position.

Turnover flexibility

The headstocks allow turning of the plough either with the bodies over or under the frame.

Very easy individual level adjustment

The adjustment of the plough's operating angle can be easily achieved with individual manually altered screw adjusters on each side.

Packomat suitability

Both headstocks are suitable for immediate use with a Packomat or trailed soil packers.

Cross shaft

For headstocks 150 and 200, Cat II and Cat III are available. For headstock 300, Cat III and IV are available.



Headstock 200



Headstock 300

Kverneland Headstocks

Bring the Centre of Gravity of the Plough Nearer to the Tractor



Headstock 150



Heat-treated for maximum strength

The quality and service life of a reversible plough is largely dependent on the headstock. During both work and transport, the headstock is exposed to enormous stresses.

This means that the plough is mounted as close to the tractor as possible, thereby reducing the tractor lift requirement, especially when compared with other makes.

It also means that Kverneland ploughs can be handled by many different tractors.

Three different headstocks

The Kverneland program has three different headstocks with the designations 150, 200 and 300. All of them are constructed from the highest quality steel and are subjected to Kverneland's special heat treatment processes which infuse additional properties such as strength and hardness. Strong sealed roller bearings are used for years of trouble-free and maintenance free service.

Headstock 150

"One piece concept" and specially heat treated 110 mm Ø main shaft for better resistance. Cross shaft category II or III with possible quick coupling.

Headstock 200

The 200 headstock is recommended for ploughs up to five furrows and for tractors up to 200 HP.

Headstock 300

The 300 headstock is designed for the largest ploughs and for tractors with up to 300 HP. To make the turning as even, smooth and safe as possible, the 200 and 300 headstocks can be supplied with a sequential valve and an alignment valve.

Sequence valve

The sequence valve controls the reversing cycle of the plough. It automatically activates an alignment valve which 'narrows' the plough prior to reversal. After reversal, the plough returns to its working position. This system gives a smoother reversal of the plough bodies and is supplied as standard on all five and six furrow ED/LD ploughs.

Memory valve

The memory valve together with the memory-sequence valve, which is used on the large Vari-Width® ploughs, is also activated during reversal; it closes the plough down to the narrowest ploughing width of 12" (30cm) before reversing.

Once the cycle is completed, it returns automatically to the pre-set furrow width.

The memory valve is fitted to all five and six furrow EG/LB models. Also available for 4 furrow EG/LB and 4-5 furrow ES/LS models, depending on countries.

Kverneland AB/AD Vari-Width® Ploughs

Strong and efficient

Conventional mounted ploughs with stepless furrow width adjustment, manual or hydraulic.

Increase your capacity up to 30% with 20% less fuel.

Robust construction

The Kverneland AB & AD are known for their simple but strong and reliable construction. They are an answer to the modern farmer who demands easier adjustment, greater efficiency and better profit.

A robust 100x200 mm square frame, which is induction heat-treated by a special method developed by Kverneland, gives the necessary strength. This together with the heavy duty beams, the Kverneland auto-reset system and the well known Kverneland bodies gives an effective plough for ploughing in most conditions.

Kverneland Vari-Width®

Both models have the efficient Vari-Width® system, which allows infinite furrow width adjustment from 30 to 50 cm (12" to 20").

The main difference between the two models is that model AB has a mechanical furrow width adjustment, while model AD has a fully hydraulic furrow width adjustment system. On the AB model the furrow width adjustment is done by using two turnbuckles - one to angle the main frame and the other to correct the width of the front furrow. On the AD model, a special frame construction with one hydraulic cylinder enables the operator to hydraulically adjust all furrows, including the first one, plus the realignment of the rear wheel, with a single lever operation from the tractor seat.

On the AB model all adjustments have to be done manually while setting up the plough. The AD system however provides "On the Move" adjustment - hydraulically from the tractor seat.

Up to 30% increase

The Vari-Width® system gives new possibility in ploughing. The concept behind these ploughs is that they give the possibilities of optimal furrow width for all types of soil, moisture conditions and tractor capacity. By increasing from 35 to 45 cm (14" to 18") the working capacity will be increased by up to 30%.

Kverneland Auto-Reset system

The Kverneland auto-reset system, the simplest and most reliable system in the world, ensure trouble-free work in stony fields for years.

Very easy to operate

Furthermore both models are easy to adjust to all types of tractors and are very easy to operate, only a few adjustments, and the plough is ready for work.

Under difficult conditions one or more bodies can be locked in a parked position. All models except the largest are extendable by one furrow. This means that the plough can grow with the size of your tractor.

Kverneland AB is available as: 2-, 3- and 4 furrows, while Kverneland AD is available as: 3-, 4- and 5 furrows.

Mechanical front furrow width adjustment is standard. However, a hydraulic cylinder is available and is recommended for ploughing on side slopes to control the front furrow width "on the move".





Kverneland BE

Robust semi-mounted ploughs



Strong design

The Kverneland BE model has an upgraded design to better withstand the ever increasing demand from the market. The dimensions of the main beam is 200 x 200 mm using a special induction heat-treated tube. In addition, the whole front and hitch system is also upgraded and strengthened.

The model is available in sizes from 5 to 7 furrows and both have the unique Kverneland Auto-Reset system allowing perfect Non-Stop ploughing in most conditions.

The Kverneland BE model has a hydraulically operated rear wheel. Both models are available in "In-Furrow".

Kverneland BE Vari-Width®

The system allows the user to select and change working widths "On the Move" between 35 and 55 cm (14 and 22 inches). The Vari-Width® system ensures perfect ploughing in any conditions by giving possibilities for adjusting the ploughing width according to the ploughing conditions. On heavy soils, it may be advantageous to use

a narrow ploughing width of 35 cm (14"), while ploughing in light and sandy conditions, allows you to go up to the maximum width of 55 cm (22").

The adjustment of the ploughing width is done hydraulically from the tractor seat. This makes selection of the desired working width effortless and uncomplicated.



Technical Specifications

Models					Weight (kg)								Recommended Horse Power (hp)							
Type	Interbody Clearance (cm)	Underbeam clearance (cm)	Number of Furrows	Furrow Width (cm)	2-F	3-F	4-F	5-F	6-F	7-F	8-F	2-F	3-F	4-F	5-F	6-F	7-F	8-F		
AB	85	70 / 80	2 - 4	30 - 50	425	508	750					35-45	50-60	68-80						
AB	100	70 / 80	2 - 4	30 - 55	440	605	800					40-50	60-70	80-90						
AD	85	70 / 80	3 - 5	30 - 50		730	900	1090					60-70	80-90	90-100					
AD	100	70 / 80	3 - 5	30 - 55		750	920	1120					70-80	90-100	100					
BE	100	80	5 - 8	35 - 55				2135	2350	2600	2850				90-100	120-180	140-190	160-200		
BE	115	80	5 - 7	35 - 55				2210	2440	2705	2970				90-110	120-180	140-190	160-200		

Very easy to operate

The Kverneland BE is very easy to adapt to different tractor wheel settings, so once the plough is initially adjusted for a specific tractor wheel width, the Vari-Width® system ensures that the lines of draft remain correct even when widening the furrows to the maximum size, thus eliminating any need to readjust the tractor wheel settings.

With an underbeam clearance of 80 cm (32") and a interbody clearance of 100 (40"), the Kverneland BE plough will operate in all ploughing conditions with perfect results.

The Kverneland BE model is available with: 5-, 6-, 7- and 8 furrows.

Mechanical front furrow width adjustment is standard. A hydraulic cylinder is available as an option and is recommended for ploughing in hilly conditions to adjust the furrow width "on the move".

Easy front furrow adjustment

The Kverneland BE plough has got a heavy front and hitch attachment making it easier to fit to all tractors and making it easier to adjust the width of the front furrow.

Manual front furrow adjustment is standard equipment, but a hydraulic cylinder is available as option for hydraulically operations from the tractor seat. Can also be adjusted under work and is very advantageous when working across sloping grounds.

Kverneland beams

The standard beam on the Kverneland BE and other models are extremely strong. The steel quality together with the special heat treatment provides maximum strength. The beams have been used for many years on thousands of ploughs and are working in all conditions all over the world.



As standard, 2 accumulators are fitted to the BE plough for safe steering



Under the Paint Only Heat Treated Parts

Kverneland Heat Treatment Technology

130 years of experience in developing unique heat treatment processes for unsurpassed quality and wear resistance.

Kverneland is unequalled in producing ploughs with high performance and low operating costs.





Kverneland 150 B

Perfect Choice for Light to Medium Soil Conditions



KVERNELAND 150 B

is a light and robust mounted reversible plough with shear bolts. Its specific design guarantees low lift requirements and an easy pulling for high performance in light to medium soils.

The Kverneland 150 B is also easy to operate and economic to run.

Light, robust, long lasting

The combination of lightness and robustness results from Kverneland's 130 year expertise in developing unique heat treatment processes for unsurpassed quality and wear resistance. Such treatments apply to the complete plough from bolt to frame.

Since every part of a plough endures different stress conditions during its working life, Kverneland uses close to 100 machines for customized steel heat treatments.

Taylor-made boron steel

+ Unique Kverneland heat treatment technology

= Kverneland unequalled strength

For example :



Frame induction heat treatment.



12 hours carburising heat treatment for each mouldboard.



100% heat treated.

New design for high performance

New leg system for the 150 B

The leg is produced from a hollow rectangular tube (80 x 40 mm). Kverneland heat treatment technology reduces even more the weight of the legs while guaranteeing the necessary strength and flexibility to withstand the toughest soil conditions. Such hollow legs have therefore a favorable lift requirement.

The shape and the length of the legs together with the flexibility of the heat treated tubes enable the plough to handle big amounts of straw and residues.

Shear bolt protection : 3.400 kg

Headstock 150 designed for tractors up to 150 HP

“One piece concept” with a specially heat treated 110 Ø main shaft for maximum strength. Choice of cross shaft, category II an III or quick coupling option. Independent left/right adjustments.

New frame section

100x150mm for 3-4 furrows or 150x150mm for 3-5, extendable by one furrow (max 5 furrow plough). The main frame is induction heat treated thus providing the necessary strength and support for the toughness of conditions.

For technical specifications, see page 25.



Easy to operate

Easy front furrow adjustment. The front furrow can easily be adapted to different tractor brands and wheel width settings. This is done via a parallelogram, manually adjusted by a turnbuckle. An optional hydraulic cylinder can be ordered.

The working width is adjustable in steps of 5cm (2”) by simply repositioning the bolt in each leg assembly.

The manual furrow width adjustment not only increases ploughing output but reduces fuel consumption in relation to output. This means greater utilization of the tractor according to field conditions. Independent left / right settings for the depth wheel.

The Kverneland auto-line system always provides the correct pull line irrespective of wheel settings. Optional hydraulic alignment of the frame.



Options : déport hydraulique
réalignement hydraulique



Kverneland ES & LS variable width plough

Easily Adaptable to Different Soils and Tractors

Strong main frame, 150x150mm for 3, 4 and 5 furrow models. LS also available with 6 furrows. Robust front support assembly together with the options of 85cm or 100cm interbody clearance.

The ES model is fitted with the well proven Kverneland auto-reset system for stony conditions, whilst the LS has shearbolt protection.

Both models are fitted with variable furrow width adjustment, operated by means of a turnbuckle or a hydraulic cylinder. With the hydraulic version, the working width can be adjusted on the move. It saves you time and maximises efficiency. The furrow width can be changed from 30 to 50cm (12 - 20") on ES 85, and 35 to 55cm (14 - 22") on ES 100, by simply adjusting the frame angle according to the field conditions. Front furrow width adjustment is by means of a separate turnbuckle or hydraulic cylinder.

Advantages

The first assembly, being mounted to the main support, allows the plough to be as close as possible to the tractor. Therefore the lift requirements are significantly reduced compared to other brands. Both models can be ordered with a frame mounted wheel and with Packomat.

Constructed for year in, year out performance

For maximum strength and durability, the mainframe of the plough is constructed from one piece induction heat-treated box-section steel.

Robustly constructed for year in, year out performance with a mini-

mum of maintenance, the mainframe is attached directly to the headstock-mounting bracket. This design moves the weight of the plough forward, considerably reducing the lift requirement. Tractor and plough stability is therefore greatly improved - a particularly valuable feature on hilly ground. The ES/LS is available with the 200 headstock, see page 39.

3-furrow ES/LS models are fitted with headstock 200, main frame 100 x 150 mm, interbody clearance 80/95 cm.

Suits all tractor models

The reliability and service life of a reversible plough is largely dependent on the headstock. During both work and transport, this critical part of the plough is exposed to enormous stresses. The design of the headstock means that the plough can easily be adapted to suit all tractor models, irrespective of wheel widths or linkage geometry.

Add-on system

The ES/LS ploughs, 150 x 150 mm frame, are supplied with the same add-on body system as other Kverneland ploughs. Any 3, 4 and 5 furrow models can be extended by one body.





The variable width adjustment enables you to maximise your ploughing efficiency.

20 - 40% extra performance can be achieved when compared to a plough with fixed furrow width.



All models can be equipped with different types of disc coulters, skimmers and depth wheels.

For technical specifications, see page 25.

Kverneland EG & LB Vari-Width®

Save Time, Fuel and Money

Available from: 3 to 6 furrows.



The Kverneland EG & LB have become an important factor in making soil preparation more profitable.

They are built around a specially heat-treated box section frame, giving the necessary strength and durability when working in arduous conditions.

EG & LB are available in a standard version with a mainframe of 100 x 200 mm as 3-4 furrows, and in a heavy-duty version with a mainframe of 120 x 200mm as 5-6 furrows. The HD version also features a reinforced front section and the robust headstock 300.

Increased output with Vari-Width®

All models feature the Kverneland Vari-Width® system, which not only increases output but also saves time, fuel and money while improving ploughing and trash burying performance.



The ingenious linkage system allows infinite hydraulic adjustment of the furrow width, from 30 to 50cm (12" to 20"), depending on model, by using a single lever with fingertip control, all from the tractor seat.

Automatic front furrow adjustment

The Vari-Width® system on EG&LB allows the front furrow to be automatically repositioned. Therefore, the working width is kept equal from first to last body. It guarantees the precision of the overall ploughing performance.

Kverneland Vari-Width® also means that the increased output is achieved by consuming less fuel per hectare.

EG/LB main differences

The LB plough is equipped with fixed legs protected by individual shearbolts, while the EG model is fitted with the well proven Kverneland auto-reset system : fully automatic non-stop ploughing in all conditions; no maintenance.



Reduced stress during turnover

As with other Kverneland heavy duty mounted reversible ploughs, an alignment cylinder is incorporated within the mainframe to reduce stress on both the tractor and the plough during turnover. This, together with a unique memory system, ensures that the desired furrow width setting is always maintained following the plough's reversing cycle.

Mechanical front furrow width adjustment is standard. However, a hydraulic cylinder is available and is recommended for ploughing on side slopes to control the front furrow width 'on the move'.

The Kverneland EG/LB is available with the 200 or 300 headstock depending on the version and on the size of the plough, see page 25.

Most models can be equipped with Kverneland Packomat. For different equipment, see pages 36 to 43.

The Kverneland LB : a robust and efficient reversible plough for medium to heavy soil conditions.



Special Heat Treatment

The EG & LB models benefit from a specially heat-treated box section mainframe. This gives the necessary strength to withstand working in the toughest conditions, year after year.

Kverneland EO & LO Heavy-Duty Vari-Width® The High Performance Plough for On-Land and In-Furrow Operations

EO/LO meet all the criteria necessary for modern farming. Available from 4 to 7 furrows.



Unique construction

The designers at Kverneland have succeeded in constructing this ultimate large plough by using the highest steel quality which combined to the unique Kverneland heat treatment technology guarantees the plough and tractor longevity.

One of the main features when ploughing in the furrow, is that the special hydraulic and parallel linkage system move the main frame into a

balanced position to enable the correct turnover operation in a smooth manner (optional sequence valve is required for this operation). This alignment function avoids high turnover forces and extra tractor linkage loading. It's hard to believe that such a large reversible plough can be turned so easily.

The turning effort is comparable to the one required for a 4 or 5 furrow Kverneland plough only.

On-land/In-furrow

The model EO and LO are specially constructed with the necessary strength for in-furrow and on-land ploughing for tractors having dual wheels or rubber tracks. For the on-land configuration the ploughs massive offset, up to 1.42m from the headstock center to the point of the first furrow (depending on model and ploughing width) allows the tractor to be positioned exactly to the drivers' requirements.



To convert the EO/LO from on-land to in-furrow operations, the driver has fingertip control. He simply hydraulically moves the mainframe to the desired position.

Low lift requirement

The lifting requirement for a 3 point linkage tractor for a 7 furrow mounted reversible plough can be enormous. The special construction and clever design of the EO/LO plough, reduces the weight by 10-20% and hence the overall lifting demand when compared to many other ploughs on the market.

Headstock 300 provides the necessary turning power for both EO and LO ploughs. Its robust design is centred on a 150mm fixed axle, allowing the plough to rotate effortlessly and smoothly yet having the capacity of tractors of 300 horsepower. Together with the special heat-treated 120x200mm mainframe and heavy-duty 300 headstock, the EO/LO plough is built to withstand all the forces encountered during operation for trouble-free ploughing.

Increase output - save time, fuel and money

Both models feature the unique Kverneland Vari-Width® system. Hydraulic furrow width adjustment which not only increases ploughing output, but also saves time, fuel and money whilst improving ploughing and trash burying performance. The ingenious linkage system allows infinite hydraulic adjustment of the furrow width from 30 to 50cm (12"-20") using a single lever with fingertip control, all from the tractor seat.

EO/LO differences

LO is equipped with individual leg protection via a shearbolt, while the EO model is equipped with the well known Kverneland auto-reset system allowing Non-Stop ploughing in stony conditions; and no maintenance. All Models can be extended by 1 body to a maximum of 7 furrows (85 cm).

Stepwise furrow width adjustment

The EO/LO is also available with manual furrow width adjustment from 30 to 45 cm (12-18") in steps of 5 cm (2").

All models can be equipped with disc coulters and skimmers.

See pages 36 to 43.

Specifications

TYPE	MODEL		Type of beam	Working width cm	Under-beam clearance	No. of furrows	Weight (Kg)					Lift requirement (Kg)				
	Interbody clearance cm	Head-stock					2-F	3-F	4-F	5-F	6-F	2-F	3-F	4-F	5-F	6-F
ES	85/100	200	Autom.	30 - 50	70/75	3 - 5	-	1200	1360	1700	-	-	2700	3900	5200	-
EG	85/100	200	Autom.	30 - 52	70/75	3 - 5	-	1180	1470	-	-	-	3100	4300	-	-
EG	85/100	300	"	30 - 52	70/75	4 - 6	-	-	1700	2000	2300	-	-	4900	6300	8200
EG	115	200	"			3 - 4										
150B	100	150	Shearbolt	35 - 50	80	3 - 5	-	820	1050	1165	-	-	1700	3100	3700	-
EO	85/100	300	Autom.	30 - 50	70/75	4 - 7		2000	2200	2400	2680		5500	6200	7700	10300

Semi-mounted Reversible ploughs

Kverneland PG/RG

For easy ploughing right out to the field edge:



PG/RG offer good stability in work and in transport, tight turning circle for narrow headlands and the opportunity to plough right up to field boundaries.

Easy on-the-move working width adjustment.

Kverneland Vari-Width® adjustment is standard. Infinitely variable furrow widths from 35 to 50 cm (14 to 20"). The work rate can therefore be increased up to 30%.

Vari-Width® is a patented design in which a hydraulic adjustment cylinder is contained within a telescopic towing frame. This design protects the cylinder and hoses from possible damage and provides operational simplicity.

The mid-frame wheel position and the compact headstock design (which places the front bodies as close to the tractor as possible) ensures tight turning ability both on headlands and into narrow gateways.

- **Vari-Width[®]**
furrow width
adjustment
- **center-mounted**
wheel



Easy adjustable skimmers



The PG version is fitted with the well-known Kverneland Auto-Reset system, while the RG version has rigid legs with shearbolt protection.



Model					Weight in kg				Recommended Horse Power			
Type	Interbody Clearance in cm	Underbeam Clearance in cm	Number of Furrows	Furrow Width in cm	5-F	6-F	7-F	8-F	5-F	6-F	7-F	8-F
PG	100	70/75	6 - 8	35-50 (14-20")	-	2940	3370	3800	-	150	175	200
PG	115	70/75	5 - 8	35-50 (14-20")	2970	3060	3150	3240	125	150	175	200
RG	100	70/80	6 - 8	35-50 (14-20")	-	2760	3150	3570	-	150	175	200
RG	115	70/80	5 - 8	35-50 (14-20")	2470	2880	3290	3700	125	150	175	200

Kverneland PB/RB

Low operating cost and better weight transfer to the tractor



- **Vari-Width® furrow width adjustment**
- **rear-mounted wheel**



Looking ahead, the professional farmer requires more power, all-purpose applications and improved quality of the work. Equipment must be durable, easy to operate, less fuel consuming. In short : more efficient.

All these considerations have been taken into account in the development of the Kverneland Vari-Width® ploughs which fulfil tomorrow's requirements today.

Differences between PB & RB models

The PB is equipped with the famous Kverneland auto-reset system. The RB model is equipped with fixed legs, protected by individual shear bolts for those occasional unexpected obstructions.

Kverneland Vari-Width® ploughs

are ideal for large acreages. The PB/RB consist of robust 4-8 furrow reversible models designed for use with higher horsepower tractors.

Universal joint attachment

The plough is linked to the tractor by means of a universal joint for improved manoeuvrability and protection of the transmission and of the tyres during use. Furrow width adjustment can be achieved manually or hydraulically.

Better weight transfer to the tractor's rear wheels

The plough is designed specifically for use with 4 wheel drive tractors. The special three-point linkage feature prevents high forces on the tractor during ploughing or transportation.

Protection of tractor linkage during turnover

When reversing on headlands, the optimal angle is obtained between the tractor and the plough. This reduces the load on the two tractor lift arms. The robust turnover mechanism reverses the plough with precision in any conditions.

Hydraulic control

The rear wheel assembly is linked hydraulically to the turnover mechanism ensuring that the plough is always positioned correctly for re-entry into work. Kverneland's patented hydraulic system provides a small reversing radius and an excellent manoeuvrability during work and transportation.

Easy changeover from work to transport position

Vari-Width® ploughs can be changed over to the transport position within seconds. In the half-reversed position the plough can be transported safely due to its low centre of gravity. Even where space is restricted, the plough can be steered with ease around obstacles.

Front furrow width adjustments

As with all Kverneland ploughs, manual front furrow width adjustment is by means of a turnbuckle. For 'on the move' adjustment when ploughing on sloping ground an hydraulic cylinder can be fitted as an alternative.

Looking ahead, the professional farmer requires more power, all-purpose applications and improved quality of the work. Equipment must be durable, easy to operate, less fuel consuming. In short : more efficient.



Easy adjustable skimmers

Models					Weight (kg)				Recommended Horse Power (hp)			
Type	Interbody Clearance (cm)	Underbeam Clearance (cm)	Number of Furrows	Furrow Width cm(in)	5-F	6-F	7-F	8-F	5-F	6-F	7-F	8-F
PB	100	70/75	5 - 8	30-50 (12-20")	2990	3340	3720	4100	125	150	175	200
PB	115	70/75	5 - 7	35-55 (14-22")	3060	3430	3820	-	125	150	175	-
RB	100	70/80	5 - 8	30-50 (12-20")	2940	3200	3455	3890	125	150	175	200

Kverneland PW/RW

Efficient, flexible, easy to operate



A unique, patented concept in building a semi mounted reversible plough.

Kverneland "3 in 1" Concept

The Kverneland PW/RW "three-in-one" semi-mounted ploughs consist of a robust central wheel wagon plough in the front and a standard mounted reversible plough at the rear.

Flexibility

This unique design gives you the flexibility to choose the right combination of ploughs to suit any soil conditions: either the whole wagon plough or only the front or the rear plough.

In some situations, it may be advantageous to use only the front part due to very wet or very hard conditions, or the availability of a tractor.

The heavy front section alone will provide optimum performance in any conditions. It may be beneficial to use only the rear part as a normal mounted plough for ploughing some smaller areas or the headlands.



- **Vari-Width®**
or manual furrow width adjustment
- **centre-mounted wheels**



The rear part of the plough

is a standard mounted reversible plough : you can either choose Kverneland EG 200/100 or Kverneland LB 200/100.

Simple and quick

The rear plough can be uncoupled within a few minutes and be ready for use. Likewise, it only takes a short time to join them together. At any time, you have the freedom to choose.

Quality ploughing

The wagon plough follows the ground undulations in a smooth way thanks to the centre section consisting of a 3-point linkage system. It therefore behaves like a normal mounted plough.

Increased output

The plough is available with either manual adjustable working width or with the famous Kverneland Vari-Width® system, allowing on-the-move furrow width adjustment from the tractor seat. The ploughing width can be adjusted from 35 to 50 cm (14-20"). The output is then increased up to 30%.

Robust design and very easy to operate

To withstand the high stresses on such a large reversible plough, particularly when ploughing at depth and at speed, Kverneland engineering skills have made it possible to construct a plough capable of withstanding these forces, but at the same time, ensuring that the plough is easy to operate.

The Kverneland PW/RW "three-in-one" consists of a robust front section with a main frame that is heat treated by induction. Dimensions of the frame vary according to the number of furrows.



IsoMatch Tellus Terminal



ATS display control

Easy to operate

A large plough may look very difficult to manage, but the Kverneland PW/RW 'three-in-one' model is equipped with an advanced management system which makes it very easy to operate.

Kverneland PW/RW

- Vari-Width® or manual furrow width adjustment
- centre-mounted wheels



You can choose between different systems :

- ATS Control (Automatic-Turning-Sequence), option: ISOBUS compatible.
- Manual management with the addition of a valve controller.
- Manual management via tractor control.

When equipped with the ATS system, the plough is very easy to operate on the headlands. It is only necessary to lift the plough at the front, press the ATS button 3 times and the plough reversing functions operate automatically in accordance to the driving on the headland. The plough will then be ready for the next ploughing operation.

The rear plough section, equipped with an hydraulic topline, is held in a raised position during the turning phase.

This secures perfect “ins” and “outs” at the headlands.



Easy management

Equipped with the advanced ATS control, it is only necessary to press a control button: the auto hydraulic system will turn the plough and bring it into the right position. The plough can also be equipped with ISOBUS control, or, a full manual turning/operating system for manual management.

Safe and easy turning

Unbelievably easy to operate! When turning on the headland, the specially designed centre section lowers the plough for optimum stability - and safety. With 80% of the plough's weight on the centre section, the tractor is free to make tight turns. The centre section design also provides excellent manoeuvrability during work and transport.

Generous clearance

Having a choice of underbeam clearance of 70 or 75cm on the PW and 70 or 80cm on the RW, for trashy conditions. The PW/RW 'three-in-one' plough is available with a choice of bodies, skimmers, disc coulters and wheel equipment to suit all soils and tractor types.



**Kverneland PW/RW
- On-land version**

- The PW/RW is available in 3 versions:
- In furrow
 - In furrow and narrow on-land (approx. 3.2 m track width)
 - On-land (approx. 4.5 m track width)

Off-set adjustment to correct the driving position is via in-cab hydraulic control.

- **Vari-Width®**
or manual furrow width adjustment
- **centre-mounted wheels**

Stable and safe in transport

Changeover from work to transport is carried out in a few seconds : the plough is turned half way and then lowered on its centre section.

In 'butterfly' position the plough is very stable and manoeuvrable with approximately 20% of its weight being transferred on to the tractor's linkage. As an option, both PW/RW can be equipped with brakes and full road lighting.



Model Stepwise					Weight in kg						Recommended Horse Power					
Type	Interbody Clearance (cm)	Underbeam Clearance (cm)	Number of Furrows	Furrow Width cm (in)	7-F	8-F	9-F	10-F	11-F	12-F	7-F	8-F	9-F	10-F	11-F	12-F
PW	100	70/75	7 - 12	35-50 (14-20")	5045	5510	6015	6480	6945	7440	210	240	270	300	330	360
RW	100	70/80	7 - 12	35-50 (14-20")	4695	5130	5565	6050	6495	6940	210	240	270	300	330	360

Model Vari-Width					Weight in kg						Minimum recommended Horse Power									
Type	Interbody Clearance (cm)	Underbeam Clearance (cm)	Number of Furrows	Furrow Width cm (in)	7-F	8-F	9-F	10-F		12-F	13-F	14-F	7-F	8-F	9-F	10-F	11-F	12-F	13-F	14-F
PW	100	70/75	7 - 14	35-50 (14-20")	5150	5630	6150	6630	HD=	7620	8100	8580	210	240	270	300	-	360	390	410
PW	115	70/75	7 - 10	35-50 (14-20")	5185	5670	6195	6680	-	-	-	-	210	240	270	300	-	-	-	-
RW	100	70/80	7 - 14	35-50 (14-20")	4800	5250	5700	6200	HD=	7120	7570	8020	210	240	270	300	-	360	390	410
RW	115	70/80	7 - 10	35-50 (14-20")	4835	5290	5745	6250	-	-	-	-	210	240	270	300	-	-	-	-

HD: Heavy Duty.

Kverneland Options

Extras That Keep Your Business Running

Kverneland offers improved systems and unbeatable ploughs.

**We have a complete range of accessories.
Our original wearing parts are always available.**

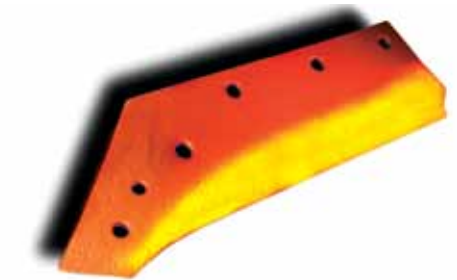
Full range of plough bodies

A complete range of bodies to suit all types of conditions. They are renowned all over the world for their excellent ploughing quality, outstanding wear resistance and low draft requirements.



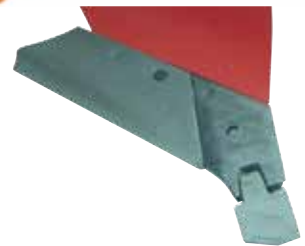
Original wearing parts

Through a revolutionary new process Kverneland has developed a brand new plough share with outstanding wear characteristics. The result is a share hard enough to withstand the most punishing conditions.



Kverneland Quick-Fit

A complete new plough share system allowing share point change within a few seconds. The only tools needed are a special taper drift and a hammer.



Accessories

Kverneland offers a complete range of accessories for all the different plough models.



Kverneland Plough Bodies

Excellent Ploughing Quality

A complete range of bodies to suit all types of conditions. They are renowned all over the world for their excellent ploughing quality, outstanding wear resistance and low draft requirements.



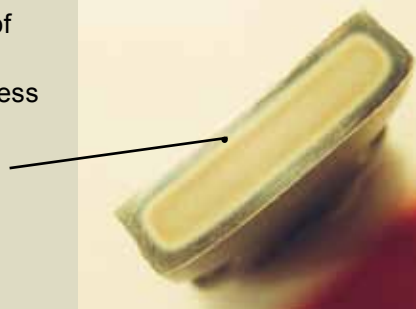
Body 28

Especially for tractors with wide tyres. It gives good turning and produces a wide furrow bottom.



Kverneland plough bodies are made of the unique Kverneland steel. The 12 hours carburising heat treatment process result in:

- the optimum wear resistance (sharp as a diamond)
- the necessary flexibility to absorb impacts



Body No. 8

A general purpose body from medium to light soils. Capable of working at varying depths 15cm to 30cm (6 to 12 inches) and widths 30cm to 50cm (12 to 20 inches) with good cleaning and soil inversion characteristics.



Body No. 9

Like the No. 8, but even more highly "tuned". Designed for wider and deeper ploughing at depths of 15 to 35 cm (6 to 14 inches). Suitable for heavier land where well turned and packed furrows are required.



Body No. 14

A plough body with a plastic mouldboard, for use in organic soils where sticking can be an acute problem. Similar performance to body No.19



Body No. 19

Specially designed for heavy soil, No.19 is also very good for burying large quantities of chopped or stripped straw. The angle of the mouldboard increases the clearance between the bodies in a very efficient manner. It also gives a totally inverted furrow which seals in the trash. The finished work is more broken, making secondary cultivation operations more efficient.



Body No. 28

Body No. 28 suits all soil types. Longer than body No.8, it creates a flatter profile for improved tilth. Its shape and action moves the soil further away from the landside, increases the furrow bottom width by as much as 25%. This allows wide tractor tyres to work in the furrow without rolling down the previous furrow. Suitable for depths of 15 to 30cm (6 to 12 inches) and widths from 35 to 50cm (14 to 20 inches).



Body No. 30

Finger mouldboard especially designed for sticky-stony soils. Capable of working between 20 cm and 35 cm deep (8 to 14").

Kverneland original wearing parts **Make Life Much Easier**

The plough shares from Kverneland are well known for their outstanding wear characteristics. At each share's heart is the finest steel in Europe, which undergoes a revolutionary process of induction heat treatment.

The result is a share hard enough to withstand the most punishing conditions, yet with the flexibility to resist impact shock loading and cracking.



Look for the Kverneland arrow. It's your guarantee of fitting Original Parts. - The Best Parts on Earth.

Revolutionary new heat-treatment process

A secret process

The outstanding wearing characteristics can be explained by two factors. First of all, the wearing regions of the share are hardened far beyond any levels achieved previously. A second hardening process guarantees a certain degree of flexibility around the bolt holes to avoid stress fractures. This subtle hardening combination ensures an extended life of the shares of at least 20-25%. The soil gets penetrated just as efficiently.

The benefits :

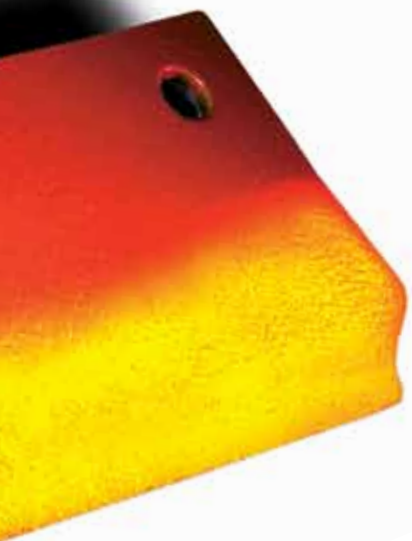
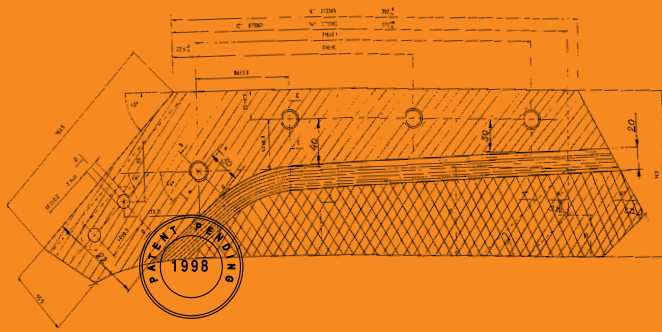
The extended life time to Kverneland shares makes you save time by not having to replace them so often, get the work finished earlier, in order words, contribute to keep costs low.

Quality and reliability

Kverneland has been developing its unique steel heat treatment methods for more than 130 years. The millions of mouldboards still turning soil around the world are acknowledging the quality and reliability of these techniques. The wear rates less than half of competitors'.

The heat is on

Kverneland succeeded in developing a special new way of heat treating reversible plough share points, to give them dramatically better life expectancy without increasing the incidence of stress fractures. The task for the engineers was extremely difficult, because the improvements that technology could achieve at that time were near the limit. The breakthrough came with an ingenious new method of induction heat treatment, which was able to confer varying degrees of hardness to different parts of the metal under test.



New share



Used share - how to increase life time

The Wearing Parts Competitors cannot Match

The big challenge was to make shares with the greatest resistance in the wearing regions. How could we adapt the process to treat shares in the same way as the points? After an investment of more than € 1,5 M. , Kverneland engineers have managed to refine the technique into a revolutionary new heat-treatment process. New and more resistant shares are now available from your Kverneland dealer.

In their attempt to produce wearing parts with the same hardness and wear resistance as ours, competitors frequently resort to the use of thicker steel, albeit of

lower quality. More steel may look initially appealing. But the result is invariably very disappointing. The shares wear more quickly and the plough becomes unbalanced, as many of the forces and loads act against the natural line of draft, hampering penetration and making the plough harder to pull.

The plough shares from Kverneland have been designed from the outset to maintain consistent penetration as they gradually wear. They are specifically designed to fit Kverneland plough bodies and should in all conditions give the best results.

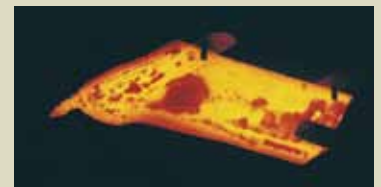
Production of shares - stage by stage



Stage 1



Stage 2



Stage 3



Stage 4



Stage 5



**Still a
secret**

Stage 6

Kverneland Quick-Fit System

The fastest Pit Stop for plough point change ever

**Kverneland
Pit-Stop**

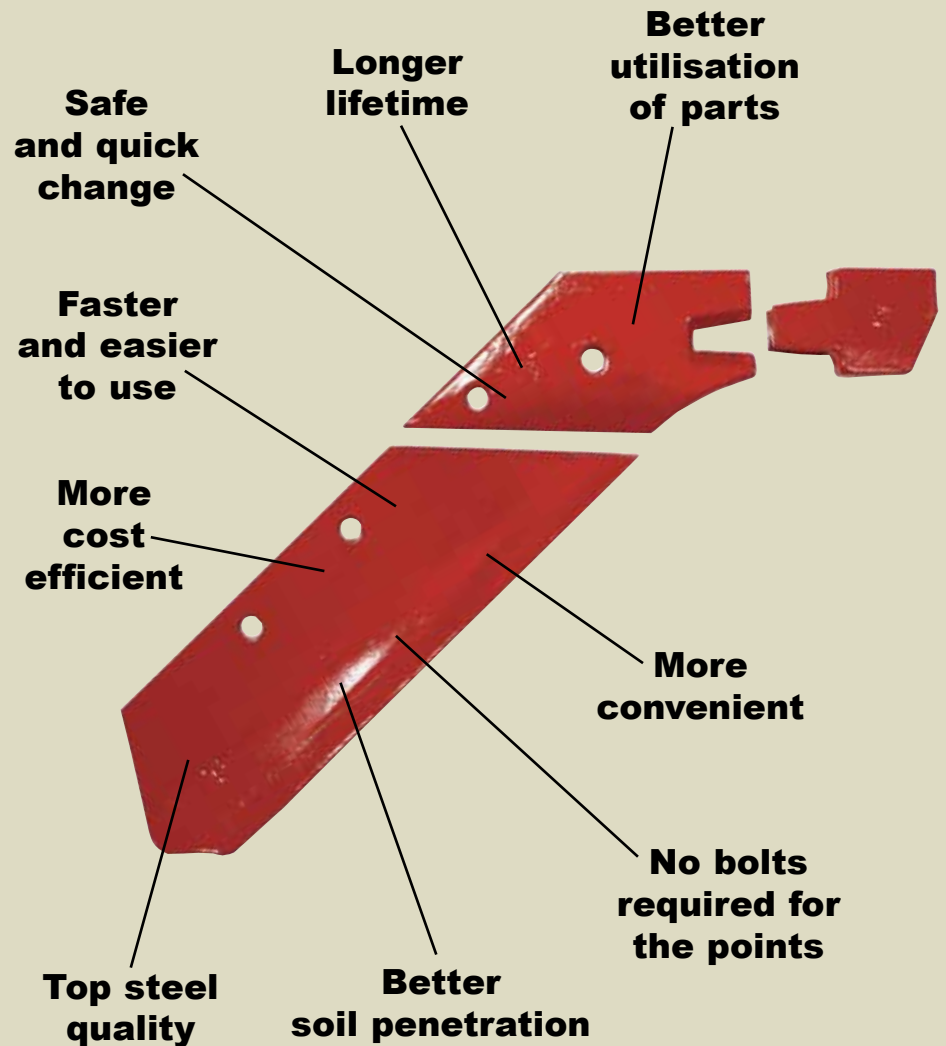


**Within a few minutes
change to a new set of points.
The only tools needed are a hammer and a chisel !**



Kverneland Quick-Fit

The unique plough share system



The patented Quick-Fit system from Kverneland consists of a share, a special holder and a very unique point. All made of Kverneland Top Quality Steel and heat-treated after Kverneland special recipe.

The share and the holder are bolted to the body, while the Quick-Fit point is fitted to the holder by a unique locking system. Just by a few sharp taps with the hammer and it is fitted. And not to forget, when the points need

to be changed, it is simply removed by means of the taper drift and the hammer.

Back in work quicker when the points wear

The Quick-Fit points take far less time to change than conventional equivalents, so the machine is back in work much quicker.

Ian Hall from Warter Priory Farm, North Yorkshire, UK comments "We have reduced downtime from about 30

minutes to 5 minutes when changing points on our 8-furrow reversible plough.

And the knock-on system is also quite versatile. If we are in some very hard, dry conditions and are struggling for penetration, we can simply knock-off a set of partly worn points and put on new ones while in the field, to get the plough in the ground,"

Full range of Accessories

For optimal operations, the plough needs to be equipped with the correct accessories to suit the particular soil type and field conditions.

Kverneland offers a complete range of accessories for all the different plough models.



Hydraulic Front Furrow Width Adjustment

For easier "on the move" adjustment especially when ploughing on sloping ground.



Quick Release Coupling (Headstock 200 only)

All headstocks can be supplied with a quick release coupling to facilitate easy hitching and unhitching.



Trashboards

Particularly useful when large quantities of surface trash - manure, straw, etc. are present. The use of trashboards increases the clearance between the bodies when compared to the use of skimmers.



Depth and transport wheel, double

All large mounted reversible ploughs should be transported on a combined depth and transport wheel. This combined depth and transport wheel is fitted on all 5 -, 6 - and 7-furrows EO/LO models. Can also be fitted on other large * models. (200 x 14,5)



Depth and transport wheel, rear mounted

A robust rear mounted depth/transport wheel for most plough models. Easy adjustment from working to transport position. Equipped with shock absorber in working position. For transport in 'butterfly' position. (200 x 14,5) *



Cross Shafts

Kverneland headstocks are built with simple adjustments to suit all types of tractors and wheel width settings. Cat. II and Cat. III cross shafts are available in various lengths - 825, 860, 935 and 965mm.



Depth wheel

A simple depth wheel for smaller models with steel wheel (165 x 500).



Hydraulic depth and transport wheel

Designed for in-cab hydraulic control of the ploughing depth. Ideal for ploughing headlands when a shallowing finish is required. (320/60-12)



Sword Share Knives

These are an alternative to disc coulters, where reduction in weight may be necessary or where blockage from trash or stones is likely. Can only be used on ploughs fitted with reversible points.



Shares with Reversible Points

The most cost effective 'share' system for ploughing hard and abrasive soil and under generally difficult conditions.

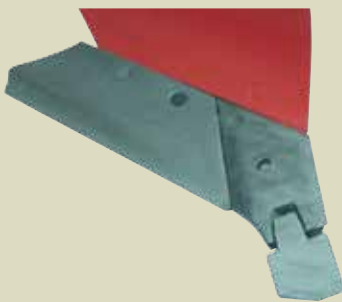
Shares with Flush Fit Points

Recommended for ploughing in sticky soil conditions. The point is fixed by means of a single bolt and is therefore quickly replaced.



Landside Knives

A very good alternative to disc coulters, where reduction in weight may be necessary or where blockage from trash or stones is likely. Good in combination with skimmers.



Quick-Fit

The Quick-Fit point system can be fitted to all Kverneland plough bodies and reduces the down time in replacing earth wearing parts.



Disc Coulters

Disc coulters are available in sizes of 45 and 50cm (18 or 20 in.) diameter, plain or notched. They are mounted on single arms and are easy to adjust to suit all conditions.



Eco share

A special new share for working 10cm below the normal ploughing depth. Also as an alternative for up to 10cm narrower ploughing depth.



Furrow Splitter

Bolted to any part of the mouldboard or share, the furrow splitter is designed to cut through heavy soils making it easier for following operations.



Furrow Opener

For use on the rear body to increase the width of the furrow bottom in order to accept tractors with larger tyres - up to 30" wide, for example. Particularly for use in conjunction with the No.19 body.



Kverneland Group

Kverneland Group is a leading international company developing, producing and distributing agricultural machinery and services.

Strong focus on innovation allows us to provide a unique and broad product range with high quality. Kverneland Group offers an extensive package of systems and solutions to the professional farming community. The offering covers soil preparation, seeding, forage- and bale equipment, spreading and spraying.



Original Spare Parts

Kverneland Group spare parts are designed to give reliable, safe and optimal machinery performance - whilst ensuring a low cost life-cycle. High quality standards are achieved by using innovative production methods and patented processes in all our production sites.

Kverneland Group has a very professional network of partners to support you with service, technical knowledge and genuine parts. To assist our partners, we provide high quality spare parts and an efficient spare parts distribution worldwide.



Kverneland Group Canada Inc.

1200, Rocheleau
 Drummondville (Quebec)
 J2C 5Y3, Canada
 Phone.: +1 819 477-2055, Fax: +1 819 477 9062



www.kverneland.com