Quality Ploughs for the Professional Farmer
Kverneland is the world’s leading plough manufacturer with a dominant market share in Europe and exports to more than 40 countries around the globe. The company has more than 125 years’ experience with working the soil. Ever since Ole Gabriel Kverneland opened his village smithy in 1879, research, development and production have been geared to the making of ploughs. From one of many small Norwegian village smithies, Kverneland has developed into the world’s biggest plough manufacturer. This demonstrates the company’s determination and ability to think innovatively and to have the conviction to believe in and go for its own particular vision. It also demonstrates an ability to achieve goals, as well as creativity and quality engineering design at a very high level.

Cultivating close contacts with end users
Deliberately acquiring and building up competence in the company have obtained our No.1 position. From the very beginning, Kverneland has given high priority to cultivating close contacts with end users. Systematic follow-up and documentation of the experiences of individual customers have allowed us to adapt our projects to the changing needs and requirements of those farmers.

The world’s leading producer
Kverneland’s overall objective is to maintain and support its position as the world’s leading producer of soil-preparation equipment. However, there is more to being the market leader than just having high market shares. As a leading manufacturer, Kverneland also takes responsibility for developing new, improved soil-preparation systems.

Development is a way of life
In plotting the company’s success, there are many examples of technical innovation and milestones to choose from in Kverneland’s history. For years and years, the company has spearheaded the development of ideas that have become the standards for the industry. In this brochure we are proud to present some examples.
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.

Available for LD and RN models

Vibromat, quite simply, is a strong shock absorber, fitted on the legs of the reversible bodies, absorbing all the vibration that occurs during ploughing. The Vibromat system is available for LD and RN models with mechanical furrow width adjustment.

Kverneland Headstocks

Headstocks that cope with the demand from bigger and heavier mounted reversible ploughs and bigger and stronger tractors.
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. Using the Vari-Width® system, you can plough wider, quicker, better and at lower cost.

Infinite adjustment of working width

from 30 to 50 cm (12”-20”)

The Kverneland 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.

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

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. Most importantly, however, Vari-Width® saves time. Particularly when the window of opportunity is very narrow and it is crucial to get the work done as quickly as possible.

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.

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.

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.

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

50 cm - 20”

30 cm - 12”

Increased capacity by more than 30%

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.

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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.

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%.

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.

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.

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

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The Kverneland Auto-reset System
Unbeatable in Stony Conditions
The simplest and most reliable auto-reset system on the market.

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 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 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 of very simple construction and yet is able to withstand these punishing forces - year in, year out - with a minimum of maintenance.

Release characteristics
The diagram shows the differences between the three different auto reset systems: Hydraulic systems, coil spring systems and the unique Kverneland leaf spring system and how the pressure increases as the body rises.
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 farmers and contractors planning intensive use and who value efficiency, maintenance-free and cost effectiveness.

Smooth and safe turnover
Both headstocks employ a strong 80-mm turnover cylinder positioned at the rear of the headstock mast. Therefore the headstocks are equipped with an integrated transport lock for transporting the plough in the “butterfly” position.

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

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

Cross shaft
Headstock 300 has the Cat. III (965mm) cross shaft fitted as standard, while the Cat. III turning cross shaft is available as an option.

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

Three different headstocks
The Kverneland program has three different headstocks with the designations 110, 200 and 300. All of them are constructed from the highest quality steel and are subjected to Kverneland’s special heat treatment process which infuses additional properties such as strength and hardness. Strong sealed roller bearings are used for years of trouble-free and maintenance-free service.

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 300 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.

Headstock 110
The headstock 110 is used for some two and three furrow ED/LD ploughs.

Three different headstocks
The 110 headstock is recommended for ploughs up to five furrows and for tractors up to 200 HP.

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

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.

Headstock 110
The 110 headstock is used for some two and three furrow ED/LD ploughs.

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 for transporting the plough in the “butterfly” position.

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.

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 preferred for all five and six furrow EG/LB models. Also available for four furrow EG/LB and four and five furrow ED/LB models, depending on markets.

Dye treatment
Steel, and heat-treated for maximum strength according to Kverneland's exacting standards.

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Kverneland Headstocks

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Ploughs that Show on the Bottom-Line

Kverneland offers a plough range from small to big, from simple to advanced and articulated, from two to fourteen furrows.

They all have the ability to make soil preparation more profitable. The Kverneland ploughs increase output and save time, fuel and money.

Excellent Ploughing Quality

Over the years Kverneland has developed 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.

Kverneland plough bodies are made of special steel, which is heat-treated and then subjected to the special Kverneland process which gives maximum wear resistance combined with the flexibility necessary to absorb impacts.

Kverneland EM&LM
Designed for farmers who want a robust reversible plough with fixed ploughing width.

Kverneland ES&LS
Fitted with variable furrow width adjustment. Can easily be adapted to suit different soil types regardless of weather or crop conditions.

Kverneland ED&LD
A range of heavy duty ploughs with manual furrow width adjustment. Strongly built for efficient low cost ploughing in medium to heavy soil conditions.

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

Kverneland EO&LO
This on-land/in-furrow version was the very first 7-furrow mounted reversible plough with auto-reset system in the world. Designed for high output and bigger tractors with wheel or tracks.

Kverneland VX
Designed for light to medium soil conditions and smaller tractors.

The complete range
Kverneland’s plough range consists of ploughs of all types and sizes – from the small two-furrow plough to the biggest, most advanced, trailed, articulated reversible fourteen furrow plough.

Body No. 8
A general purpose body which is suited to both heavy and 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. This body is the most popular in the range and was specially designed to work with Vari-Width ploughs.

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

Body No. 28
The body No. 28 is suitable for all soil types. Longer than body No.8 it creates a flatter profile for improved tilth. Also, its shape and action moves the soil further away from the landside increasing the furrow bottom width by as much as 25%. This allows wider 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
Special bodies designed with a finger mouldboard giving improved cleaning when working in very sticky soils. Capable of working between 20cm and 35 cm deep (8 to 14 inches).
Kverneland EM & LM

Simple and User-friendly

A reversible plough that is constructed using the essential components from other proven models in the Kverneland range, yet without some of the more complex features.

Available as: 2- to 5-furrows

Maximum strength and durability

Construction is very simple - it is designed for farmers who want a robust reversible plough with fixed ploughing width, who don’t need the flexibility of adjustable working widths.

For maximum strength and durability, the EM/LM has a one-piece 150 x 150-mm box section mainframe. Induction heat-treated for extra

Fixed ploughing width

The working width is 35 or 40 cm (14” or 16”) on ploughs with 85 cm interbody clearance and 40 or 45 cm (16 or 18”) for ploughs with 100 cm.

The ploughs are equipped with either the 110 or the heavy duty 200

headstock, depending on the number of furrows, see page 40.

Efficiently equipped

The EM is equipped with the simplest and most efficient auto-reset system on the market. The unit comprises a robust multi-leaf spring, which allows non-stop ploughing in stony conditions. The system allows the plough to release one or more bodies at the same time, whilst continuing to plough efficiently. The Kverneland LM is equipped with fixed legs, with shearbolt protection.

2-, 3-, 4- or 5-furrows

The Kverneland EM/LM is available as: 2-, 3-, 4- and 5-furrow models. The 2-, 3- and 4-furrow models can be extended by one body. All models are suitable for use with the Kverneland Packomat without modification.

All models can be equipped with different types of disc coulters, skimmers and depth wheels. See pages 38, 39 and 41. For technical specifications, see page 40.
Kverneland ES & LS variable width plough

Easily Adaptable to Different Soils and Tractors

Improved specification with stronger main frame, 150x150mm for 2, 3, 4 and 5 furrow models and redesigned front support assembly together with the option of 85cm or 100cm interbody clearance.

Available from 2- to 5-furrows.

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 hydraulic cylinder. With the hydraulic version, working width can be adjusted on the move, saving you time and maximising efficiency. The furrow width can be changed from 30 - 50cm (12 - 20”) on ES 85 and 35 - 55cm (14 - 22”) on ES 100 simply by adjusting the frame angle according to the field conditions. Front furrow width adjustment is by means of a separate turnbuckle or hydraulic cylinder.

Increased interbody clearance
A choice of interbody clearance of 85cm or 100cm makes the ES/LS models more suited to large amounts of surface residue as well being better matched to plough bodies, especially Body 28, which is designed for those tractors fitted with wide tyres.

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 minimum 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 110 or 200 headstock depending on the number of furrows, see page 40.

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.

New add-on system
The new ES/LS ploughs employ the same add-on body system as other Kverneland ploughs. Any 2-, 3-, and 4-furrow models can be extended by one body. All models can be equipped with different types of disc coulter, skimmers and depth wheels.

See pages 38, 39 and 41. Both models are designed to work with Kverneland Packeromat. For technical specifications, see page 40.
Kverneland ED & LD

Superb Strength to Weight Ratio

Both models are strongly built for efficient low cost ploughing in medium to heavy soil conditions.

Available from 2- to 6-furrows.

Heavy construction
They are constructed around a heavy duty specially heat-treated frame made of 100 x 200-mm box section tube. The design is very similar to that used in the technically advanced EG and LB Vari-Width® ploughs. For working in extra heavy conditions, a special heavy-duty version, ED/LD HD, with 120 x 200mm mainframe, heavier front support and headstock 300 is available.

Equipped with unique system
The Kverneland ED is equipped with the unique Kverneland auto-reset system, whereas the LD has replaceable shearbolt protection. In addition, a special version of the LD is available with the Vibromat system for hard dry conditions. All models give peace of mind and the confidence that Kverneland has designed a tough range of reversible ploughs for outstanding all round performance.

Reduced stress
Generally, large ploughs impose high forces on the tractor’s transmission and rear linkage, especially during turnover. To avoid this potential problem, Kverneland offers on its 5 to 6 furrow models a frame alignment cylinder, which automatically narrows the plough prior to turnover, thus centralising the mainframe to reduce the stress on both the tractor and the plough.

Manual Furrow Width Adjustment
These models can operate with ploughing widths from 30 to 50cm (12”-20”), depending on the type of body, and ploughing width. By repositioning a locating bolt in each leg assembly, the ploughing width can be adjusted in steps of 5cm (2”) from 30cm to 50cm (12” to 20”), depending on model. In this way ploughing output can be maximised in relation to soil conditions and tractor size.

Standard and available equipment
The ED is fitted with the 200 and the 300 headstock, while the LD has either the 110, 200 or 300 headstock depending on the size of the plough, see page 40. As with all Kverneland reversible ploughs, manual front furrow width adjustment is standard, but a hydraulic cylinder for ‘on the move’ adjustment is available as an option.

Most models can be equipped with Kverneland Packomat. Both models can be fitted with different types of disc coulter, skimmers and depth wheels. See page 38, 39 and 41. For technical specifications, see page 40.

Kverneland ED/LD-FR
The ED/LD ploughs are available in a front mounted version with 2- or 3-furrows. By using a front mounted plough the capacity can be increased by more than 50% without increasing the tractor size.

For further information, see pages 38, 39 and 41. For technical specifications, see page 40.
Kverneland EG & LB Vari-Width®

Save Time, Fuel and Money

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.

Available from: 3- to 6-furrows.

The Kverneland EG & LB are available in a standard version with a mainframe of 100 x 200mm, 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 whilst 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, using a single lever with fingertip control, all from the tractor seat.

Precision performance

At the same time, the front leg assembly is automatically repositioned to maintain a furrow width equal to that of the remaining bodies - a special Kverneland feature - essential for precision and overall ploughing performance. Kverneland Vari-Width® also means increased output with a considerable relative reduction in fuel consumption.

The main difference

The main difference between the two models is that the LB is equipped with fixed legs protected by individual shearbolts, while the EG model is equipped with the well proven Kverneland auto-reset system.

Reduced stress during turnover

As with other heavy duty, fully mounted reversible ploughs in the Kverneland range, 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 version and the size of the plough, see page 40.

Most models can be equipped with Kverneland Packomat. For different equipment, see pages 38, 39 and 41.

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.

If the plough hits an obstruction, the Kverneland LB is protected by shearbolts, whilst the Kverneland EG is equipped with the unique Kverneland auto-reset system, which means fully automatic non-stop ploughing in all conditions.
Rubber tracks. When in its on-land configuration the plough’s 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 driver’s requirement. Converting the EO/LO from on-land to in-furrow operation, the driver has fingertip control and simply hydraulically moves the mainframe to the desired position.

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

Headstock 300 provides necessary turning power
To provide the necessary turning power and strength required both the EO/LO ploughs are fitted with the latest 300 headstock. 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.

Unique construction
The designers at Kverneland have succeeded in constructing this ultimate large plough by using the highest steel quality and technology available together with the use of special heat treatment processes.

One of the main features when ploughing in the furrow, is that the special hydraulic and parallel linkage system moves the main frame into a balanced position to enable smooth and positive turnover action (optional sequence valve is required for this operation). This alignment function avoids high turnover forces and tractor linkage loading. It’s hard to believe that such a large reversible plough can be turned so easily.

On-land/in-furrow
The model EO and LO ploughs are specially constructed with the necessary strength for in-furrow ploughing or on-land ploughing for tractors having dual wheels or rubber tracks. When in its 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’ requirement. Converting the EO/LO from on-land to in-furrow operation, the driver has fingertip control and simply hydraulically moves the mainframe to the desired position.

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Differences between EO and LO
The difference between the two models is that model 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.

LO 4-, 5- and 6-furrow and EO 4 and 5 furrow models can be extended by one body.

Stepwise furrow width adjustment
The EO/LO is also available with manual furrow width adjustment furrow width adjustment between 30, 35, 40 and 45 cm (12", 14", 16", 18") in steps of 5 cm (2").

All models can be equipped with disc coulters and skimmers. See pages 38, 39 and 41.

Increases output - saves 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 save 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.

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Kverneland VX

The Perfect Choice for Medium to Light Soil Conditions

The Kverneland VX is a strong, but lightweight plough built for efficient, low cost ploughing.

Available from 3- to 5-furrows.

Designed for light to medium soil conditions, this plough offers most of the proven features of the larger and heavier Kverneland reversible ploughs. The Kverneland VX is constructed around a specially heat-treated 100x150mm mainframe and utilises the 200 headstock. As option a heavier type of leg is available.

Equipped for effective work
The VX model is equipped with manual furrow width adjustment, which not only increases ploughing output, but also cuts fuel costs in relation to the increased output. The furrow width adjustment is carried out simply by loosening the fixing bolt in an eccentric plate which can then be rotated to provide a furrow width of 30, 35, 40 or 45cm (12”, 14”, 16” or 18”).

Compatible with low horsepower tractors
Having a maximum lift requirement of only 1900 kg for a 3 furrow and 3500 kg for a 5 furrow, this model is compatible with a wide range of low horsepower tractors.

Smooth operation
The VX model is also equipped with a special lightweight depth wheel complete with a shock absorber for smooth operation.

As standard the Kverneland VX is supplied with a turnbuckle for front furrow width adjustment. For ploughing on sloping ground a hydraulic cylinder can be fitted as an alternative to the standard turnbuckle to give ‘on the move’ adjustment.

Kverneland Packomat
The Packomat is making the soil preparation much easier. This special packer is integrated in the plough and follows the plough in work, in turning and in transport.

Soil packer arm
Our full range of strong and dependable soil packer arms are attached directly to the headstock to reduce plough side forces.

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 tool needed is a special taper drift and a hammer.

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

We have a complete range of accessories, and our original wearing parts are always available.

Extras That Keep Your Business Running

Kverneland offers improved systems and unbeatable ploughs. Equipment like our Packomat and soil packers make soil preparation even more cost effective.
The complete range

Different Needs, Different Ploughs

Kverneland's plough range consists of ploughs of all types and sizes – from the small two-furrow plough to the biggest, most advanced, trailed, articulated reversible fourteen-furrow plough.
The Perfect Seedbed While You Plough

Kverneland has developed a piece of equipment to make soil preparation even more cost effective. Packomat is an integrated soil packer which is coupled directly to the plough.

On many soils a perfect seedbed is made whilst ploughing. This combination of plough and packer is both efficient and environmentally friendly, because it combines the advantages of the plough and the packer. Weeds are controlled mechanically, the number of operations is reduced and the soil structure is immediately re-established. The traditional packer is a trailed implement which is towed by the plough. Kverneland has refined this implement and made it an integral part of the plough.

Important advantages

Kverneland’s Packomat offers a number of advantages. One is that whatever is ploughed is also packed. Another is that you need not worry about releasing the packer and reconnecting it on the headland.

It changes sides automatically in the plough reversing process.

The Packomat follows the plough

Compared with traditional packers which are trailed behind the plough, the integrated Packomat is rigidly mounted via a packer arm made of specially hardened spring steel. By means of this arm, weight transfer takes place from the plough to the Packomat to ensure that the packer works the soil with the right ‘field pressure’. This pressure, more than 1,000 kgs, is easily regulated by means of a turnbuckle or an optional hydraulic cylinder. The small diameter of the packer wheels gives an excellent levelling effect. In fact the wheels carry a small amount of soil in front of them which also helps with the packing effect.

Fine and smooth seedbed

The geometric relationship between the plough and the packer is constant at all times. This means effective crushing of clods, and when combined with a simple finger harrow, the packer makes a fine and smooth seedbed. On light and medium soils, the resulting work is simply ready for the seed drill. And even on heavy soils, the system reduces the time it takes to make the eventual seedbed.

Less wear and pulling effort

With the support of the depth wheel on the one side and the Packomat on the other, the plough is better balanced and there is less landside pressure. This results in less wear and helps to reduce the draft requirement. If compared with a conventional soil packer, Kverneland’s Packomat requires as much as 25% less pulling effort.

Specially hardened spring steel

Kverneland’s Packomat works with a pressure of more than 1,000 kg. The wedge-shaped discs cut their way through the furrows, crushing clods, pushing down stones, levelling and packing the soil, and ensuring that the capillary water conductivity is quickly re-established.

This is the best way to get germination started and the plants off to an early start. It also reduces the problems associated with post-drilling droughts.

Kverneland offer two different Packomat models. One with manual arm and one with fully hydraulic operation of all functions. Single or double rollers, with Ø 480mm or Ø 600mm. With different front and rear finger harrows.

Kverneland’s heat treatment process gives added strength to the headstock and packer arm to ensure trouble-free operation.

For quick and easy operation the Kverneland soil packer arm is supplied with a hydraulic release system and a hydraulic alignment cylinder is also available as an optional extra.

Kverneland offer a full range of soil packers. Ask for a special leaflet.
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.

The secret is in the way the process hardens the wearing regions far beyond any level previously achieved. At the same time it affords those areas around the bolt holes the necessary flexibility to avoid stress fractures. Striking this balance means the share will last up to 20-25% longer, but will be just as effective at penetrating the soil. The benefit is a much longer interval before the shares have to be changed, and over the life of the plough, a lot less time spent replacing wearing metal. Which is good news when you're trying to keep machinery costs low.

Quality and reliability
For more than 30 years, Kverneland engineers have been developing their unique steel heat treatment methods. The millions of mouldboards still turning soil around the world are testament to the quality and reliability of these techniques, with wear rates less than half those of many 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 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.

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 NOK 10 million, 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.

The Wearing Parts Competitors Cannot Match

Production of Shares - Stage by Stage

Stage 1
Stage 2
Stage 3
Stage 4
Stage 5
Stage 6

Still a Secret
The unique plough share system

**Kverneland Quick-Fit™**

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

The share and 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 a special 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.

“We have reduced downtime from about 30 minutes to five minutes when changing points on our 8-furrow semi-mounted reversible plough. And the knock-on system is also quite versatile. If we’re 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,” tells Ian Hall, Warter Priory Farm, North Yorkshire, UK.

**Full Pit-Stop Within a Few Seconds ...**

.... may be not that quick, but within a few minutes you can turn or knock on a new set of points. ...

... and the only tools needed is a hammer and a special taper drift

**Kverneland Quick-Fit™ System**
- the fastest Pit Stop for plough point changeever!

- Faster and easier to use
- Safe and quick change
- Longer lifetime
- Better utilisation of parts
- More cost efficient
- Top steel quality
- Better soil penetration
- No bolts required for the points
- More convenient

**Kverneland Group 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.

The 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 parts distribution network.

*A part of your day*
Choose the Correct Equipment

In order for the plough to operate optimally, it 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.

New easy adjustable skimmer

To ensure optimum positioning of the skimmer a new quick adjusting system is now incorporated on all plough models. The new skimmer is very easy to adjust and can be moved in all directions to suit field conditions. Special indentations on the skimmer arm provide positive location and depth setting. As the fixing bracket and stalk is fixed to the plough’s leg assembly, the skimmer is easily adjusted up or down by loosening only one bolt. Once adjusted the bolt is tightened and locked to ensure a positive and rigid assembly.

The new skimmer will be available in two versions: standard manure and maize skimmer for those difficult conditions with large amounts of trash. Skimmers are recommended for effective burial of stubble, grass, straw and weeds to provide a trash free finish prior to seed bed preparation.

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Eco share

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

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

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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.

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.

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Specifications

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<th>Headstock</th>
<th>Type of beam</th>
<th>Working width cm</th>
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<td>2200</td>
<td>2400</td>
<td>2680</td>
<td>5500</td>
</tr>
<tr>
<td>EO HD 85/100</td>
<td>300</td>
<td>70/80</td>
<td>4 - 7</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>4700</td>
</tr>
</tbody>
</table>

Most models can be extended by one body. All weights are given without optional equipment (net weights).
The lift-requirements are given with the following equipment: depth wheel, one coulter and skimmers for all furrows.
Weights and lifting requirements are given for ploughs with 85cm ‘interbody clearance’. For ploughs with 100cm clearance, please adjust according to the following: Weight + 15 Kgs/body, lifting requirement + 10 Kgs/body.
Most ploughs with stepless ploughing width and interbody clearance of 85 cm have a working width between 30-45 cm, while ploughs with 100 cm have a working width between 35-50 cm.

Accessories – wheels

Depth wheel
A simple depth wheel for 2 and 3 furrow models and for 4-furrow VX models with rubber or steel wheel.

Depth wheel, rear mounted
A robust rubber depth wheel for all models and sizes. With mechanical or hydraulic shock absorber to prevent shock loads when turning.

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.

Depth and transport wheel, frame mounted
This frame mounted depth wheel is available for most 4 and 5 furrow ploughs and 6 furrow LD models.

Depth and transport wheel, frame mounted
A robust frame mounted depth/transport wheel for most 4 and 5 furrow ploughs and 6 furrow LD ploughs. For ES/LS a special rear bracket is necessary for transport.

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.

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 - 8 - 9 and 7-furrow ES/LD models. Can also be fitted on other large models.

Depth and transport wheel
Recommended for large mounted reversible ploughs. For use in combination with the Packomet S and for ploughs turning with the wheel over the frame. For transport in the ploughing position.
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.

The Product Range

The Kverneland product range is designed to work under the toughest conditions, day after day, year after year. The wide range includes forage harvesting and feeding equipment, ploughing equipment, soil cultivation, seeding systems, sprayers and fertiliser spreaders.

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