



**2300 S / 3300 S / 3400 S**

NEW GENERATION OF PLOUGHS



# WHEN FARMING MEANS BUSINESS

Realising the full potential of farming is about growing and developing your business, not only your crop or livestock, but also your profit. Improve productivity and profitability by focusing on the positives and minimising disadvantageous aspects, through strong, dedicated management.

Success springs from determination and clear targets, from laying down the appropriate strategy and allocating correct investments for the future. Quality results require the right ideas and equipment. When there is work to be done, you need the optimal setup and smart solutions that support you towards an easier, more profitable way of working. You need solutions that make tough and demanding conditions less complicated.





## TILLAGE

Preparing and cultivating your soil in order to achieve the highest possible yield is about choosing the correct tillage system.

# YOUR KVERNELAND INTELLIGENT FARMING SOLUTIONS

Choose the best farming solution for you and your land. Combine the highest possible yields with sustainability. This will start with the correct tillage. The choices you make depend on various factors and should match your specific circumstances, like soil structure, crop rotation, residue management, economic and ecological viabilities.

*The choice is yours!*

You must consider environmental and legal issues. From conventional methods to conservation tillage: the balance of operations at the right time has to be found to achieve high yields with the best soil condition (air, moisture, biological activity, etc.) with a minimum amount of energy, time and investment. For this, Kverneland offers a full range of intelligent farming solutions.

## CONVENTIONAL TILLAGE

### Conventional Tillage

- Intensive method of cultivation
- Complete soil inversion e.g. by a plough
- Less than 15-30% crop residues left on soil surface
- Seedbed preparation done by an active tool or special seedbed harrow
- High phytosanitary effect by reduced pressure of weed and fungi diseases - fewer herbicides and fungicides needed
- Better dry-off and faster increase of soil temperature for better nutrients absorption

## CONSERVATION TILLAGE

### Mulch Tillage

- Reduced intensity in terms of depth and frequency
- More than 30% of residues are left on soil surface
- Extended repose period of the soil
- Cultivator and/or discs incorporate the crop residues within the top 10cm of soil for stable bearing soil
- Full-width tillage - seedbed preparation and seeding in one pass
- Protection against soil erosion; reduce soil loss by run-off and improve water storage capacity
- Improvement of soil moisture retention






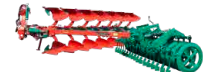
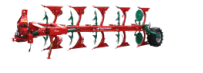


















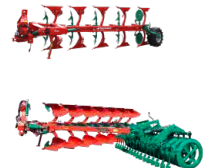




### Strip Tillage

- Zonal strip loosening before or during seeding of up to 1/3 of the row width (Loibl, 2006). Up to 70% of the soil surface remains untouched
- Strip-till combines the soil drying and warming benefits of conventional tillage with the soil-protecting advantages of no-till by disturbing only the area of the soil where the seeds are placed
- Exact fertilising deposit
- Soil protection against erosion and drought

### Vertical Tillage / No-Till

- Extensive method
- Working soil vertically avoids additional horizontal layers or density changes
- Increasing water infiltration, root development and nutrient take-up
- Plants' roots dictate the overall health of the plant, as they deliver nutrients and water throughout the season, contributing to a higher yield
- A strong set of roots make plants more resistant to wind and drought
- Lower energy input required



CROP ESTABLISHMENT SYSTEMS		KVERNELAND'S INTELLIGENT FARMING SOLUTION												
		Method	Deep Tillage (not a must)	Basic Tillage	Seedbed Preparation	Seeding	Spreading	Spraying						
CONSERVATION	extensive	> 30%	Vertical Tillage shallow tillage											
			Strip Tillage stripwise loosening											
	intensive	Soil coverage after Seeding	Mulch Seeding without soil inversion											
			Reduced Till without soil inversion											
CONVENTIONAL	intensive	up to 15%	Conventional with soil inversion											

CLASSIFICATION OF TILLAGE METHODS KVERNELAND (Source: adapted from KTBL)

## PERFORMANCE DRIVEN FOR THE FARMERS SATISFACTION



Ole Gabriel Kverneland

Kverneland is world renowned and unequalled in producing robust & light ploughs for high performance with 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. Brought up on a farm and educated in agriculture, he subsequently understood all the machinery requirements of farmers. He strongly believed in innovation and manage to produce a mouldboard plough 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 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 with a very strong market position throughout the world.



Ole Gabriel Kverneland: black smith & ploughman. Here demonstrating how well balanced his ploughs are. Even today Kverneland R&D employees are ploughmen.



# THE CONTEXT

typical arable land in Norway





# PERFORMANCE DRIVEN FOR THE FARMERS SATISFACTION

## 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 experience helps Kverneland to adapt products to better match farmer's requirements.



Kverneland plough factory (Norway)



Forge (1879)





# THE RESULT

high performance ploughing





ROBUST

HIGH PERFORMANCE

ECONOMIC TO RUN





## OPTIMISED ROBUSTNESS TO MAXIMISE PROFITABILITY

### **Robust**

Developed over 140 years, the Kverneland Steel Technology remains unsurpassed within the plough industry. It guarantees extra robustness for extra life time to the plough.

### **Economic to run**

The design of a Kverneland plough combined to the specific heat treatments of each and every part ensures low running cost. Easy to lift, easy to pull for a low fuel consumption; optimised low wearing of parts...

### **High performance**

Kverneland innovations and design of parts enable a quick set up and adjustments for the perfect ploughed field.

*Kverneland ploughs adapt to any tractor brands!*







# KVERNELAND AUTO-RESET SYSTEM

## EFFICIENT AND MAINTENANCE FREE

### Release characteristics

The diagram shows the differences between three different Auto-reset systems, and how the pressure varies as the body rises (1 cm).

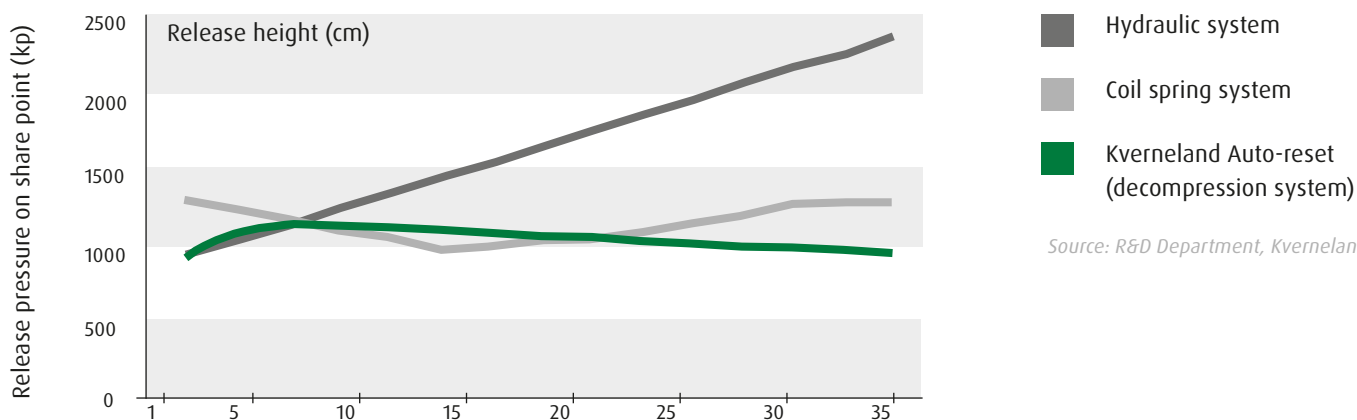
### Conclusion

The unique Kverneland leaf spring Auto-reset system is highly recommended.

### Benefits from Kverneland Auto-reset

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.

Each body releases independently one from another and come back to the correct ploughing depth once the obstacle has been passed. This ensures a quality ploughing.

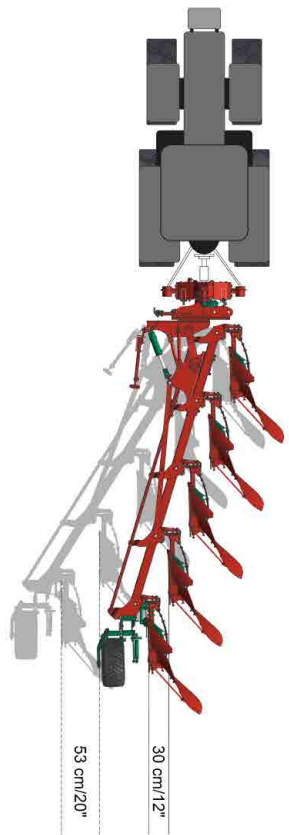


Source: R&D Department, Kverneland Group, Klepp 2002



# VARIOMAT®

## OPTIMISED PRODUCTIVITY



### Efficient

The patented Kverneland Variomat® is the most reliable system on the market. It allows the optimal match between the soil conditions, the plough and the tractor for the optimal output. By varying the furrow width, the work can be kept straighter. It is also easier to work up to the hedges and around obstacles.

By being able to adapt not only the depth but also the width of the furrows, the best results can hence be achieved.

### Two different systems

Kverneland Variomat® is available in two variants: with hydraulic or mechanical adjustment of the furrow width. The hydraulic variant allows adjustments of the furrow width easily from the driver's seat "On the Move". The pulling line adjusts automatically thanks to the auto-line.

### Straight pull at all times

The position of the headstock remains in the center of the tractor, all the time, ensuring a favorable and an even geometry of the three point linkage. Side pull and unnecessary high landside pressure are therefore avoided. Consequently: reduced wearing of parts, reduced fuel consumption and increased profits.

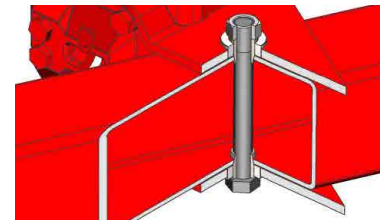
### Optimise fuel consumption

By adapting the working width to the soil conditions, the fuel consumption is optimised. Furthermore, when increasing the ploughing width, the fuel consumption per Ha gets reduced and hence profits are maximised.

### Maintenance free

The Kverneland Variomat® system is maintenance free thanks to a unique non wearing linkage joint between the beams and the mainframe section. The system consists of a robust 24 mm bolt, a distance tube, two special heat-treated cones and replaceable bushes. No need to spend time on lubrications.

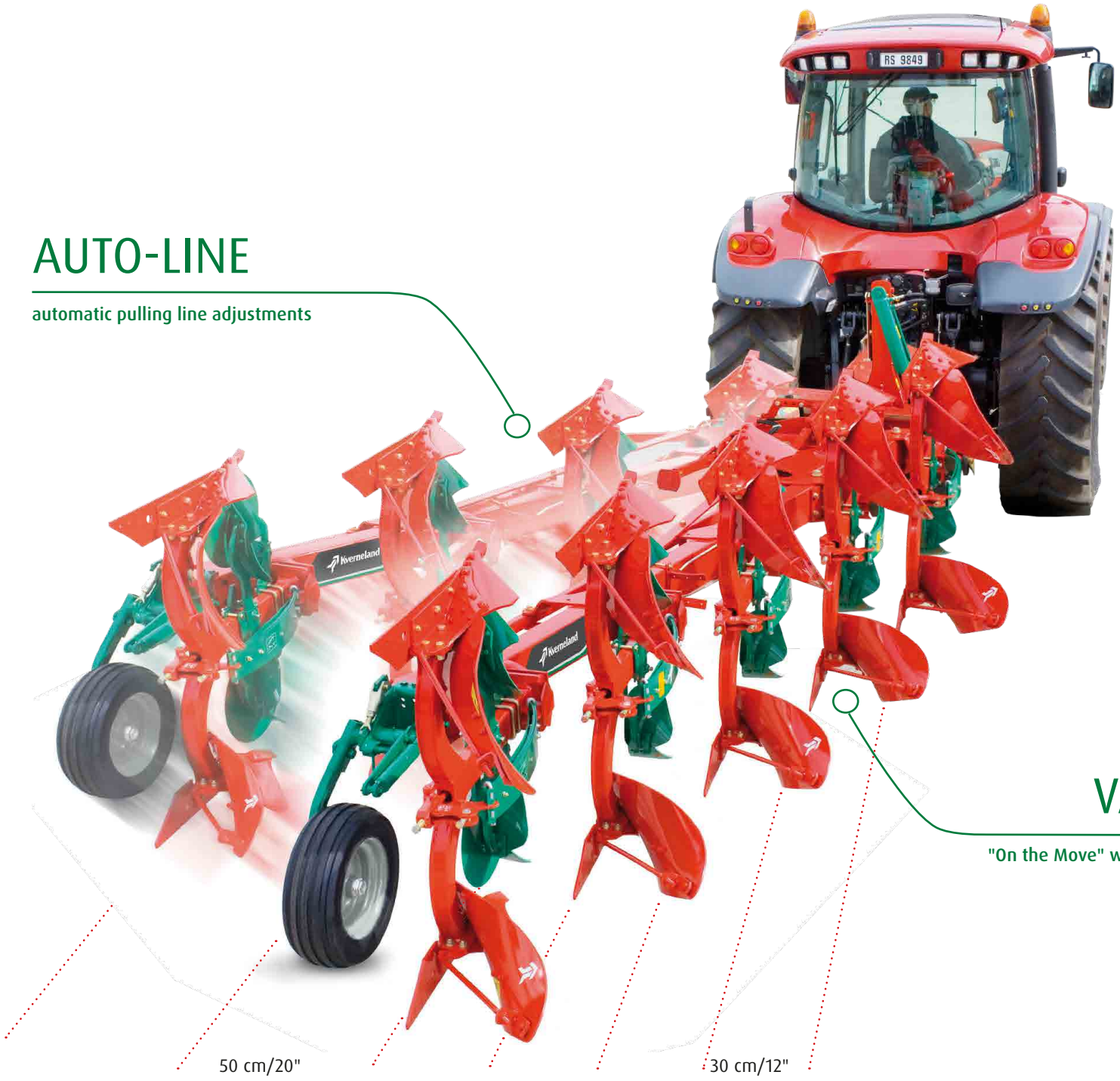
The heat-treatment of high quality steels and exacting manufacturing accuracy guarantee perfect beam and body alignment with minimum wear.





# AUTO-LINE

automatic pulling line adjustments



# VARIOMAT®

"On the Move" working width adjustments

50 cm/20"

30 cm/12"



## KVERNELAND STEEL TECHNOLOGY FOR THE COMPLETE PLOUGH

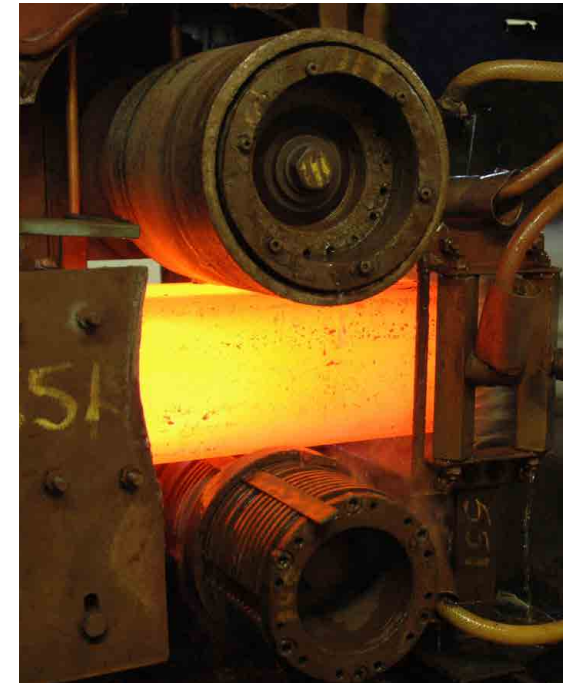
### **Kverneland's unique steel**

More than 140 years of experience in developing special steels and heat treatment processes have resulted in an unsurpassed quality and wear resistance.

The heat treatment processes are carried out and adapted not only to a few selected parts but to the complete plough. This results in ploughs lighter than competitors' and extremely robust while delivering outstanding performance.

### **Induction hardened frame**

To guarantee the durability of the plough, Kverneland heat treats the frame as well. Most competitors do not. The induction process allows using lesser steel than competitors, therefore less weight to pull and lift while ensuring a higher resistance.



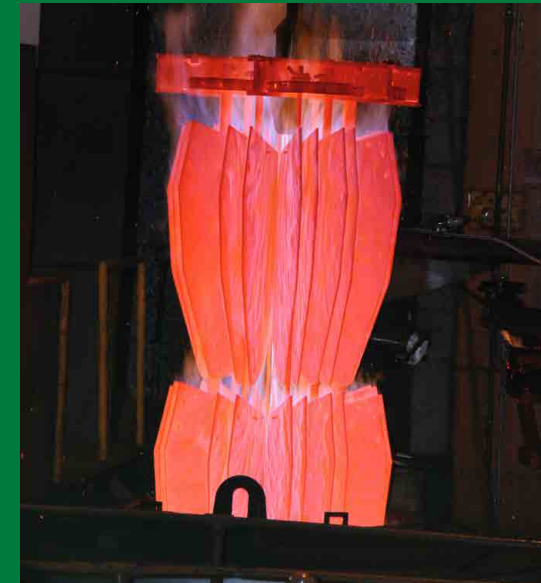
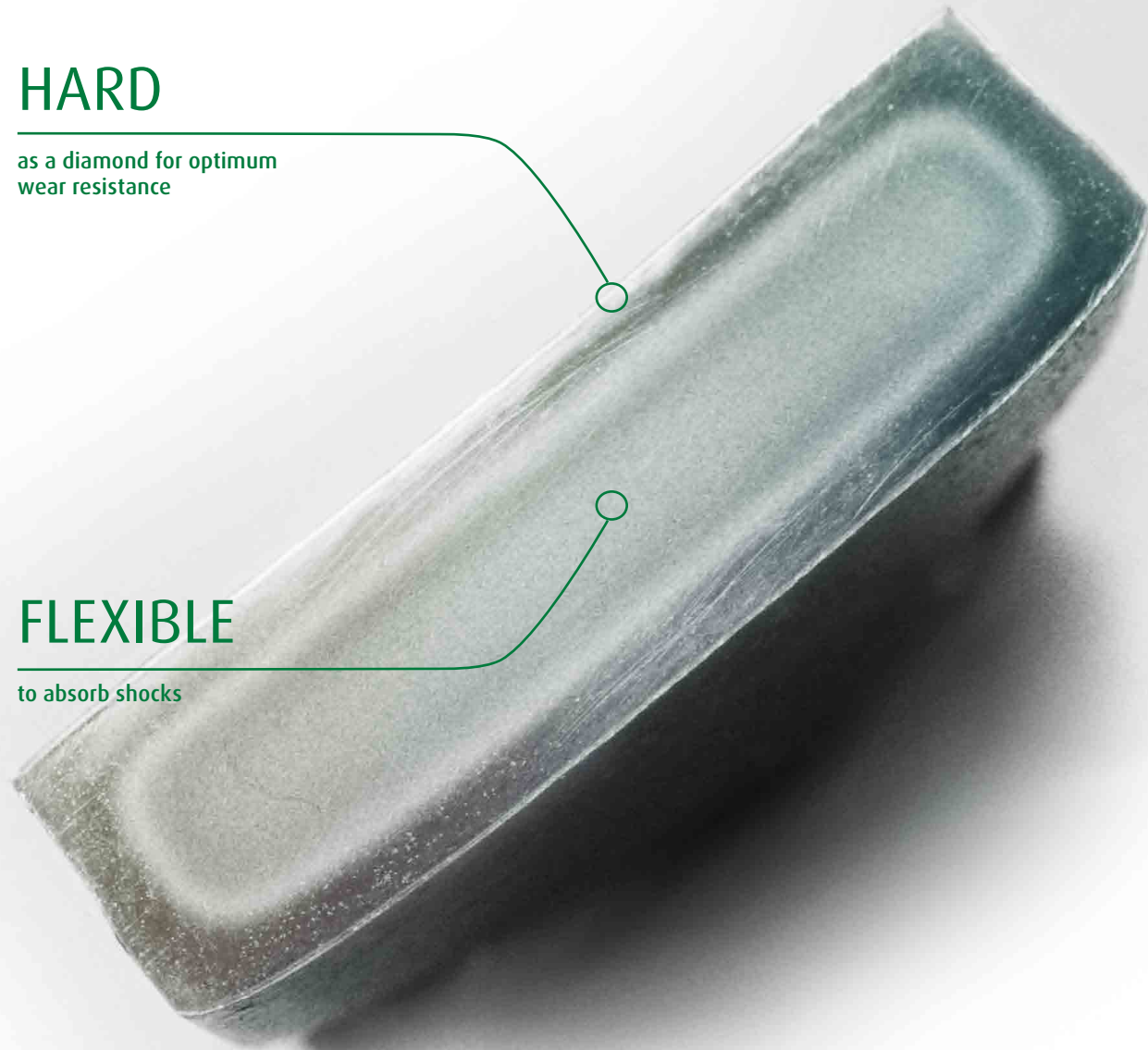


# HARD

as a diamond for optimum wear resistance

# FLEXIBLE

to absorb shocks



**Kverneland 12 hours carburising process results in creating 2 steels in 1 sole mouldboard.**

For the highest ploughing performance, Kverneland also grinds the body to ensure a uniform surface for an even furrow.



## BODY NO. 28 AND BODY NO. 38

### THE ANSWER FOR PLOUGHING WITH WIDE TYRES

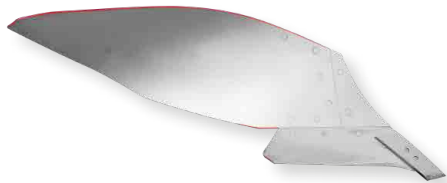
Bodies No. 28 and No. 38 are Kverneland's answer to ploughing with modern farm tractors equipped with wide tyres.

#### Wide empty furrow

Bodies No. 28 and No. 38 shape and action move the soil further away from the landside, increase the furrow bottom width by as much as 25% compared to body No. 9. This allows wide tractor tyres, like a 710 serie type, to work in the furrow **without rolling down the previous furrow**. Body No. 38 enables ploughing from shallow to deeper than body No. 28.

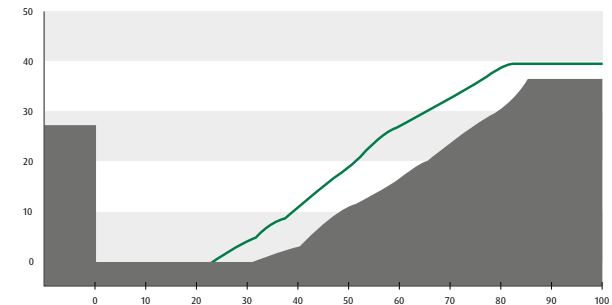
#### Low pulling forces

Body No. 28 is suitable for depths from 12 to 30 cm (5 to 12 inches) and widths from 30 to 55 cm (12 to 22 inches). Longer than body No. 8, it creates a flatter profile for an improved tilth. The furrow is well turned and packed. Bodies No. 28 & No. 38 clever design will require **as little pulling force as body No. 8 or 9**.



#### Body No. 28

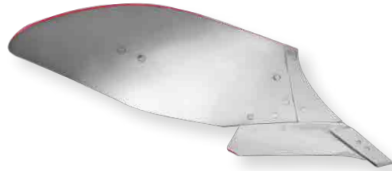
- universal body – easy to pull
- for any soil conditions
- **recommended for tractors with large tyres**
- creates a flatter profile for improved tilth
- perfect turning of the furrow slice
- working depth: 12-30 cm
- working width: 30-55 cm
- landside / mouldboard: 40°



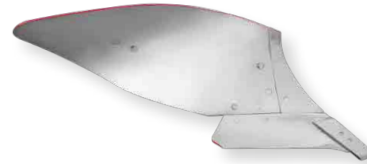
furrow profile body No. 28  
working depth: 26 cm, bottom: 30 cm, width 73 cm





**Body No. 8**

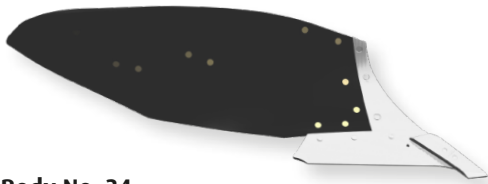
- general purpose body
- for light to heavy soils
- working depth: 15-28 cm
- working width: 30-50 cm
- landside / mouldboard: 40°

**Body No. 9**

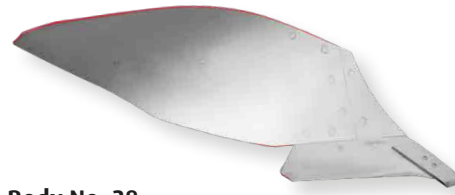
- universal body
- for light and medium soil
- easy to pull
- working depth: 18-30 cm
- working width: 30-50 cm
- landside / mouldboard: 40°

**Body No. 30**

- finger mouldboard with 4 exchangeable strips
- plastic spacers
- shape of body no.19
- for any soil conditions
- intensive crumbling
- working depth: 18-35 cm
- working width: 30-55 cm
- landside / mouldboard: 46°

**Body No. 34**

- plastic mouldboard
- long and slim shape (similar to body No. 28)
- for soils with high humus content without stones
- advised for tractors with large tyres
- easy pulling
- working depth: 12-35 cm
- working width: 30-55 cm
- landside / mouldboard: 40°

**Body No. 38**

- universal body – easy to pull
- for any soil conditions
- recommended for tractors with large tyres
- from deep to shallow ploughing
- perfect turning of the furrow slice
- working depth: 12-35 cm
- working width: 30-55 cm
- landside / mouldboard: 40°

## OVERVIEW

### INNOVATIONS THAT COUNT

The new generation of Kverneland ploughs integrate innovations designed for the Kverneland 2500 i-Plough®. The latter received awards all over Europe in 2017. Each and every developed innovation benefit the users working life: reach the perfect ploughed field in the most efficient and easy manner.

1

#### **Trailer Transport Solution (TTS)**

The plough actually behaves like a trailer. Optimised safety for the driver and for anything/anyone around.

2

#### **Aero-profile legs**

This new design prevents potential blockages when ploughing in high residue fields.

3

#### **Central adjustment of skimmers**

Save time for the perfect ploughing. The 2 skimmers adjust simultaneously.

4

#### **Swivel depth wheel mechanism**

This principle increases the driver's comfort at headlands.

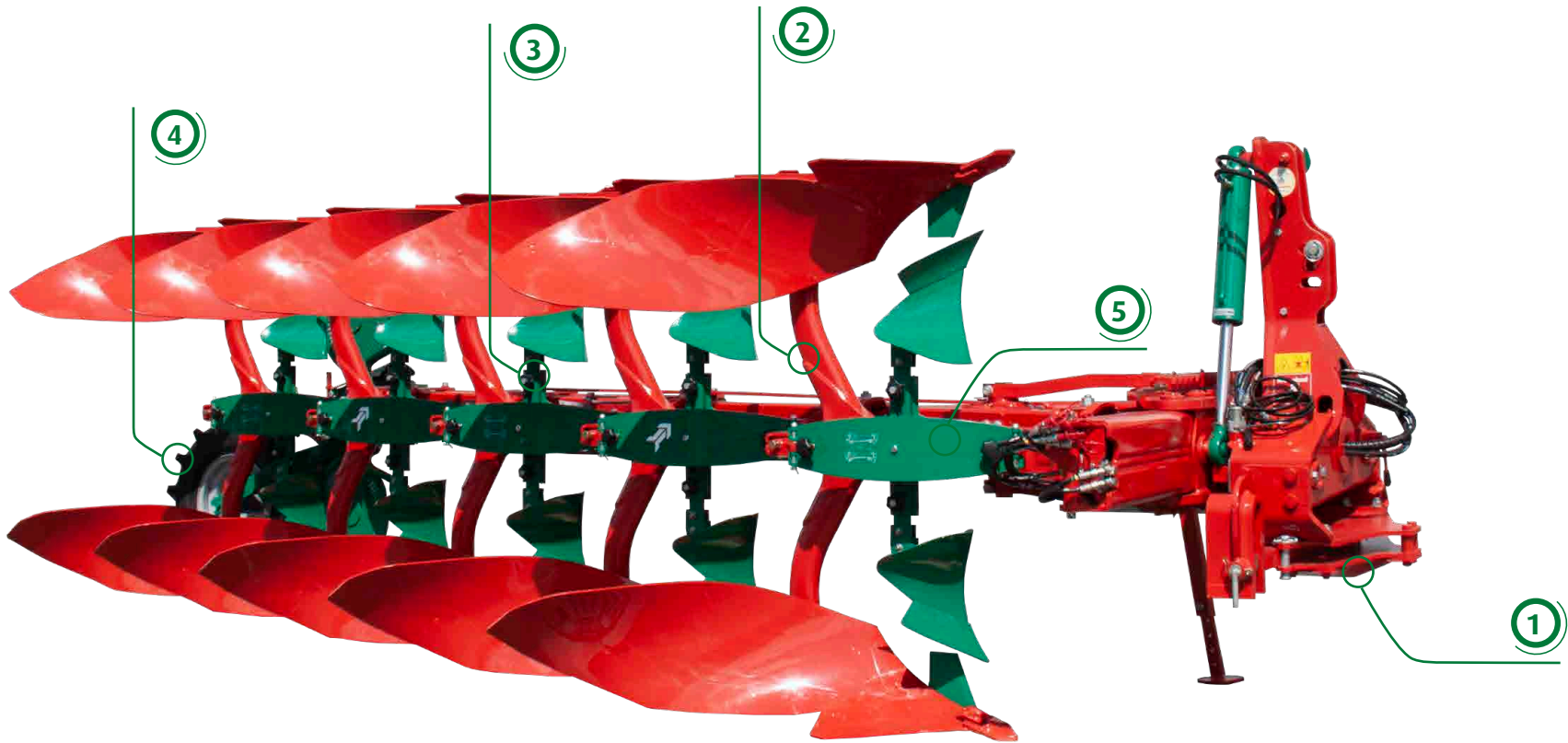
5

#### **Add on leaf spring system**

Easy adjustment of the leg releasing forces.

*Maximise productivity*







# EFFICIENT

"aero-profile" legs 80 cm high

# EASY

add-on leaf spring system



## EFFICIENT PLOUGHING

### NEW DESIGNS FOR HIGHER PERFORMANCE



The new generation of Kverneland ploughs feature legs with a new design, called "aero-profile". Not only higher than the standard Kverneland legs, these new legs improve the soil flow. Heavy residues are pushed out, hence limiting possible blockages even with 85 cm interbody clearance.

The "aero-profile" legs are hollow and robust thanks to the Kverneland heat treatment technology. By limiting the weight of the legs, the Kverneland plough are lighter and easy to pull. Low pulling requirements saves fuel consumption.

In the heavy/stony conditions, the world renowned Kverneland auto-reset system combines efficiency with no maintenance cost. For the new generation of Kverneland ploughs the leaf springs have a new design. They can be added in an easy manner, by unscrewing 2 bolts manually.

The release forces are identical to the standard Kverneland auto-reset. The decompression solution lengthen the plough and tractor life times compared to other systems.

*Tested in different heavy soil conditions in Europe.*

## INCREASE PRODUCTIVITY CENTRAL ADJUSTMENT OF SKIMMERS



### **The correct depth**

For the perfect ploughing, adjusting the depth of the skimmers is important. Uncorrect adjustment of skimmers causes unfavorable placement of residues in the ploughed soil. This new solution contributes to making ploughing more efficient.

### **Quick adjustment**

100% higher productivity in adjusting skimmers. Smart and easy, The right and left skimmers depth are adjustable from the center, simultaneously and identical. Use the spanner and just screw or unscrew the central bolt.

This prevents the operation having to be repeated for each leg, saving time and contributes to a perfect soil preparation.

Manure and maize skimmers plus trash boards are available as well as plain or notched disc coulters in 18" or 20"

*100% higher productivity*





## SMART & SAFE TRANSPORT

### THE TRAILER TRANSPORT SOLUTION (TTS)

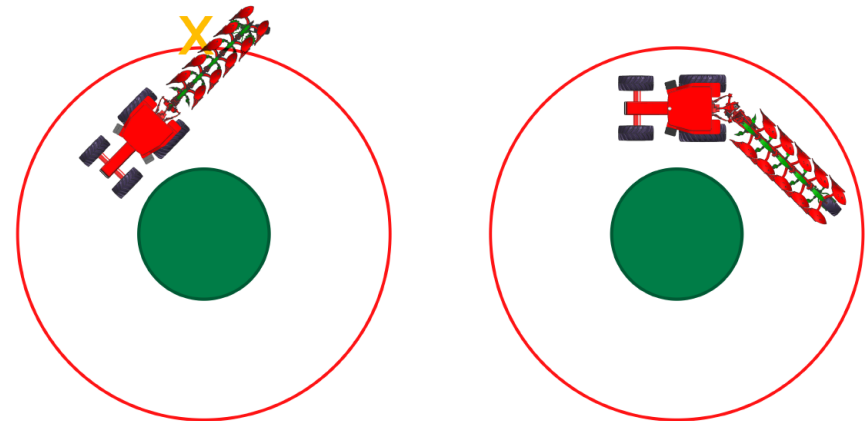
Kverneland revolutionises the transport of mounted reversible ploughs with 2 innovations.

#### TTS

Safety during transport is optimised for the driver and for anyone/anything around. The new generation of Kverneland ploughs behave like a trailer thanks to a turnable cross shaft (45 degree mutual offset). No tilting when driving in curves.

#### Quick and easy

One can change the plough position from transport to ploughing and vice versa via two pins placed in the headstock.



Maximise safety with the Kverneland Trailer Transport Solution (TTS)





**Kverneland Trailer  
Transport Solution:**

- Safe
- Smart
- Quick & easy



Rear mounted wheels for a quality ploughing





# KVERNELAND WHEELS

## EASY ADJUSTMENTS AND HIGH PRODUCTIVITY



### High stability

Choose either a rear mounted wheel for the best ploughing performance or a frame mounted wheel to optimize the ploughed area. The rear mounted wheel 420/55 x 17 offers a high stability in any conditions; particularly appreciated for 5-6 furrow ploughs. The frame mounted wheel is available for the 5 and 6 furrow ploughs.

### Maximise comfort.

The soft swivel movement of the wheel, during turning at headlands, reduces tiredness and makes days more productive.

### Handy

There is a full offer of rear and frame mounted wheels designed for either depth control only, depth control and transport or compatible with the Trailer Transport Solution (TTS). These wheels are adjustable mechanically or hydraulically.

### Unique memory cylinder

The hydraulic wheel ensures the control of the ins and outs. Hence the triangles at headlands are limited, and so the potential overwork. The agronomic benefits are optimised: better control of weeds, reduced risk of compaction, flatter headlands for a quality seed bed. Not least, a memory cylinder maintains the defined ploughing depth after reversal.





EASY

HIGH PRODUCTIVITY



# KVERNELAND 2300 S VARIOMAT®

## FOR EASY ADJUSTMENTS IN TOUGH CONDITIONS

### Optimised robustness

The Kverneland steel heat treatment technology applies to the complete plough to ensure its robustness and durability. The frame is not an exception.

The 100 x 200 mm one box section frame is induction heat treated to gain the necessary strength for arduous conditions. No welding in order to avoid weaknesses. The headstock No 200 with its mono block turnover axle guarantees the required robustness for trouble free operations.

Built for tough conditions, the Kverneland 2300 S Variomat® is available as a 3, 4, 4+1 and 5 furrow plough, recommended for 25-45 Hp per body. The Kverneland steel heat treatment technology and the design of the plough guarantee low lift and pulling requirements.

### Comfort with easy adjustments

The Kverneland 2300 S Variomat® adapts to any tractors. When activating the Variomat®, the front furrow is repositioned automatically. Therefore, the working width is kept equal from first to last body. It guarantees the precision of the overall ploughing performance. The working width will vary from 30-50 cm or 35-55 cm for 85 cm or 100 cm interbody clearance. In addition, the Auto-line system corrects the pulling line automatically.

This provides a real working comfort to the driver and low wear to soil parts.

During turnover at headlands, an alignment cylinder incorporated within the main frame reduces stress on both tractor and plough. This optional memory system ensures that the desired furrow width setting is maintained following the plough reversing cycle.

On sloping grounds, if the mechanical front furrow width adjustment is standard, a hydraulic cylinder is recommended. It controls the front furrow width "on the Move".

A perfect ploughing implies setting skimmers at the correct depth. The skimmers slice off the top soil to place it efficiently at the bottom of the furrow. The adjustment of the depth of the Kverneland skimmers is central, easy and quick.

### High productivity

The Variomat® system allows easy adjustments to the preferred working widths. It optimises the fuel consumption in respect to the output, soil conditions and tractor capacity. One field can offer different soil conditions. The Variomat® enables easy ploughing by changing the working width for the best result. The Auto-reset enables ploughing non

stop in stony and heavy conditions. The plough and the tractor are protected while legs release independently one from another for a quality ploughing. The aero-profile legs limit potential blockage in high residues, manure, cover crops. Keep on ploughing efficiently with improved trash burying performance.

Direct re-consolidation also contributes to a high productivity. Where you can plough, you can also use the Packomat. Save time: 2 operations in 1 pass only. Re-consolidating while ploughing. Cost efficient, Packomat does not increase pulling forces. The Kverneland packer arm and a wide range of Kverneland packers are also available.





ROBUST

HIGH EFFICIENCY



# KVERNELAND 3300 S VARIOMAT®

## DESIGNED FOR MODERN FARMING AND BIGGER TRACTORS

### Profitable investment

Investing in an equipment which has the reputation to last long is worthwhile. The Kverneland steel heat treatment technology guarantees the robustness of the plough. It does not concern a few parts but the complete plough.

The Kverneland 3300 S Variomat® is equipped with the headstock No 300, meant for trouble free operations in the toughest conditions. The 120 x 200 mm induction heat treated frame is made of a single box section. No welding that could weaken the frame.

Designed for up to 6 furrows, this plough offers ploughing capacity in any soil conditions. Reputed for its low lift requirements and very low pulling forces, the fuel consumption is minimized. The low draft implies low wearing of soil parts and high ploughing performance.

Tractor wise, 30-55 Hp per body are recommended for the KV 3300 S Variomat®.

### Optimized efficiency

The average plough size for a mounted reversible model is 5-6 furrows in Europe. Kverneland 3300 S model are extendable from 4 to 6 furrows max. plough. Your plough can grow with your fields. Depending on the configuration

of your fields, 2 positions for the wheel are possible. The rear mounted wheel provides the best stability for the highest ploughing performance. The frame mounted wheel enables ploughing more at the closest to fences, ditches etc...

The Variomat® contributes to an efficient ploughing. Soil conditions can vary a lot field to field and even in the same field. Keep on ploughing by adjusting the ploughing width "On the Move". Likewise, the working window for ploughing is sometimes fairly short and conditions not optimal. The Variomat® is the solution to plough in all type of soil conditions with the Kverneland 3300 S models.

The design of the aero-profile legs can handle large residues even with 85 cm interbody clearance . The choice of 85/100 interbody clearance and the 80 cm underbeam clearance facilitate ploughing for high performance.

To ensure a high quality ploughing, Kverneland has also developed a central adjustment of the right/left skimmers working depth. Easy and efficient.

The Kverneland 3300 S Variomat® enables a direct re-consolidation. Either choose the Packomat as a integrated packer or a Kverneland packer (or packer arm) depending

on your cultural habits and soil requirements. Re-consolidating ploughing in only one pass is efficient. The agronomic benefits are equally important.

### "On the Move" adjustments

Modern farming implies that the best ploughing performance can be achieved in a simple manner. Easy and precise "On the Move" working width changes: the Variomat® controls all bodies. The front furrow repositions itself automatically. The pulling line adjusts automatically. Hence a quality ploughing is guaranteed while wearing soil parts last longer thanks to the Auto-line. At headlands, a memory system ensures that the chosen furrow width setting is maintained following the plough reversing cycle. On sloping grounds, a hydraulic cylinder is recommended to control the front furrow width "on the Move".



COMFORT

On-land ploughing

HIGH PERFORMANCE



# KVERNELAND 3400 S AND 3400 S VARIOMAT®

## HIGH PERFORMANCE FOR ON-LAND AND IN-FURROW OPERATIONS

### Maximise comfort

The 3400 S models are easy to manoeuvre ploughs despite their size. The same plough offers In-furrow & On-land ploughing in a very easy manner: the driver has fingertip control. The main frame is hydraulically moved to the desired position.

In-furrow or On-land operations depend on soil conditions, weather and tractor type.

Thanks to the tractor Auto-steer, it is possible to plough On-land combining high performance with extra comfort for the driver.

### Robust ploughs

The 3400 S models are extendable by one body from 5 to 7 furrows max. The Kverneland steel, heat treatments and design enable trouble free operations in the toughest conditions. The 120 x 200 mm single box section frame is induction heat treated. Weldings would weaken the frame. In addition, the headstock N° 300 provides the necessary strength for tractors having dual wheels or rubber tracks (up to 3,7 m outer track width).

### 30-55 hp per body

Despite their large size, the 3400 S models remain easy to manoeuvre. The unique Kverneland steel reduces the weight of ploughs by 10-20% compared to competitors and hence lifting capacity requirements.

The turnover is actually very smooth. This is enabled by the robust headstock N° 300 and the smart plough design: during on-land operations, the plough turns straight away from the on-land position. During in-furrow operations, the plough easily changes to on-land position before turning. The main frame is moved to the tractor via a parallelogram. The plough is placed in a balanced position with its center of gravity close to the tractor for a smooth turnover. This alignment function prevents vibrations and extra tractor linkage loading. An optional sequence valve is required for this operation. The turning efforts of a 7 furrow 3400 s model are as little as those of a smaller Kverneland plough.

### Easy working width changes

The adjustment of the working width is mechanical for the 3400 S models and hydraulic with the 3400 S Variomat® models. Plough 30-50 cm or 35-55 cm with the 85 or 100 cm interbody clearance with Variomat®. Full comfort operations from the tractor cabin with the hydraulic version or easy mechanical working with changes by repositioning only 1 bolt.

### Extra Performance

High aero-profile legs for high performance in heavy residues and deeper ploughing. Packer arm for direct re-consolidation. Kverneland Trailer Transport Solution for an extra safe transport.







# KVERNELAND KNOCK-ON®

## QUICK & EASY

### Smart

The Knock-on® system consists of only 2 parts: a holder fixed to a regular Kverneland share and a Knock-on® point.

### Clever

Kverneland Knock-on® is a universal system. Plough Knock-on® points can also be used for cultivators.

### Long lasting

Knock-on® benefits from the Kverneland steel technology (quality steels + Kverneland heat treatments). The quality of the steel combined with a clever design ensure a long life to the Knock-on® system. Therefore, Knock-on® points can be used in any soil conditions.

### Quick

Knock-on® points are changed in a few seconds. It makes sense to save 90% of your time in changing points when working in abrasive soils (points wear quicker) or when having a 5+ furrow plough.

### Easy

The only tools needed are a chisel and a hammer (2 kg). Field tests reveal that, as an average, 3 points can be mounted on the same Knock-on® holder. No bolt to unscrew helps save time. In addition, when the holder is worn out, it is normally also time to change the share, without unscrewing the holder. Very handy!

### Agronomic benefits

#### Good soil penetration & Stable in work

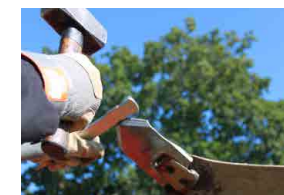
Knock-on® has been tested in several soil conditions. Even in the hardest soils, the points ensure a good penetration.

#### Low pulling forces

Kverneland bodies are renowned for their unrivalled low pulling forces. With Knock-on® points, the pulling forces remain **low** and hence the fuel consumption.

#### Soil flow protection

The clever design of Knock-on® actually protects the other parts of the body while allowing an efficient soil flow.



Soil flow protects other parts.

## KVERNELAND QUICK-FIT FOR TOUGH CONDITIONS



The Quick-Fit plough share system fits to all Kverneland bodies. It minimizes downtime during change of wearing parts.

### Benefits

- safe and quick change
- cost efficient
- easy to use
- no bolt required for the points
- better utilisation of parts
- long lifetime
- good soil penetration in tough conditions





# ACCESSORIES

## WIDE CHOICE OF WHEELS

Model	Rear mounted												Frame mounted
	Single wheel											Double wheel	Single wheel
	Pendulum mechanism								Swivel mechanism			Pendulum mechanism	Swivel mechanism
	200 x 14,5 version '99		200 x 14,5 version '11		320/60 x 12 version '99		320/60 x 12 version '11		280/60 x 15,5	340/55 x 16	420/55 x 17	320/60 x 12	10.0/75-15.3
	Depth only	Combi <sup>1</sup>	Depth only	Combi	Depth only	Combi <sup>1</sup>	Depth only	Combi	Combi	Combi	Combi	Combi	Combi
2300 S	●	●	●	●	●	●	●	●	● <sup>2</sup>				● <sup>2,4</sup>
2500 B / S									● <sup>3</sup>	● <sup>3</sup>	● <sup>3</sup>		●
3300 S		●		●		●	●		● <sup>2</sup>	● <sup>2</sup>	● <sup>2</sup>	●	● <sup>2,5</sup>
3400 S									● <sup>2</sup>	● <sup>2</sup>	● <sup>2</sup>	●	

<sup>1</sup> available with hydraulic depth adjustment

<sup>2</sup> either with mechanical or hydraulic adjustment

<sup>3</sup> hydraulic adjustment

<sup>4</sup> not for 3 and 4 furrow models

<sup>5</sup> not for 4 furrow model

● New wheels

More wheels are available

## HEADSTOCKS



### **Headstock N° 200**

For trouble free ploughing in tough conditions.  
120 mm heat treated monoblock hollow shaft.  
Cross shaft Cat. II and III.

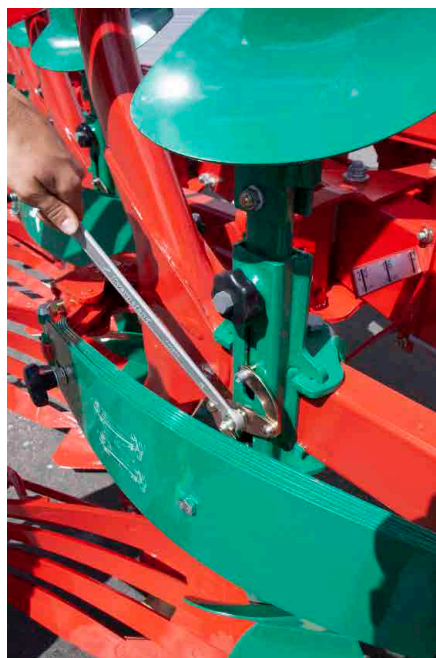
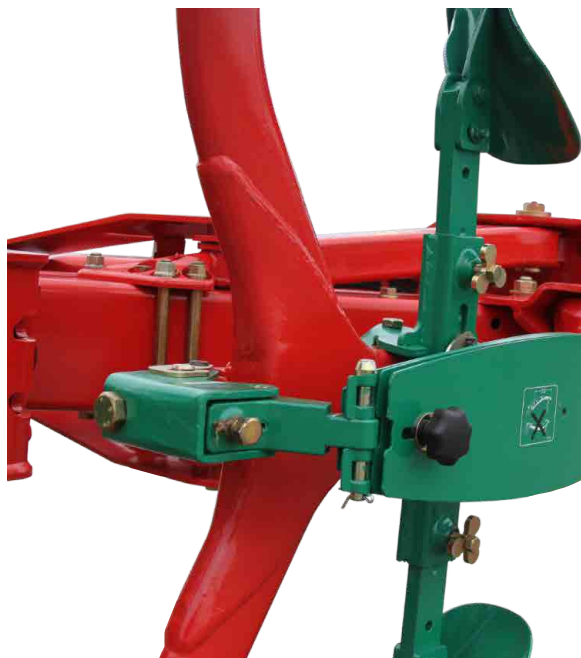


### **Headstock N° 300**

Built for heavy duty.  
High quality 150 mm heat treated hollow shaft made from only one piece.  
Cross shaft Cat. III and IV.



## ACCESSORIES FOR EXTRA BENEFITS



### Aero-profile legs protected by:

- mechanical leaf spring Auto-reset system
- easy adjustable releasing forces (add/remove springs)

Leaf springs	Release Pressure kN
Standard Pack 6 leaf springs	11,7
Standard Pack 6+1 leaf springs	13,0
HD 7 leaf springs	12,7
HD 7+1 leaf springs	14,2
Extra HD 8 leaf springs	15,3
Extra HD 8+1 leaf springs	16,9

### Central adjustment of skimmers

- Right/left skimmers adjust simultaneously, centrally

## ACCESSORIES TO MAXIMISE EFFICIENCY



### Easy adjustable skimmers

To ensure optimum positioning of the skimmer, a quick adjusting system is incorporated on all plough models. The skimmers are available in two versions: standard manure and maize skimmers for those difficult conditions with large amounts of trash.



### Trashboards

Particularly useful when large quantities of surface trash are present (manure, straw etc.)



### Shares

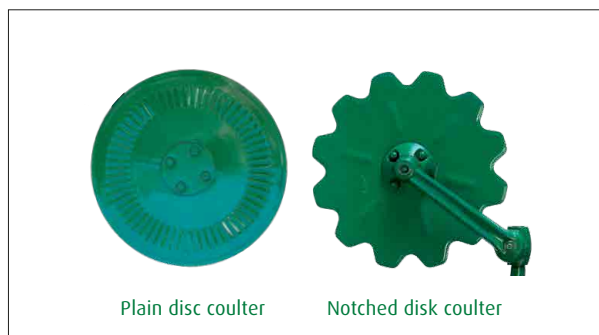
Shares with Reversible Points:

The most cost efficient system to plough in difficult conditions like hard or abrasive soils.

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.





Plain disc coulters

Notched disc coulters

### Disc Coulters

Available in sizes 45, 50 and 55 cm (18, 20 or 22") diameter, plain or notched. Disc coulters are mounted on single arms. Easy to adjust to suit all conditions.



### Sword Share Knives

These are an alternative to disc coulters, either to reduce weight or to avoid blockage from trash and stones. It can only be used on ploughs fitted with reversible points.



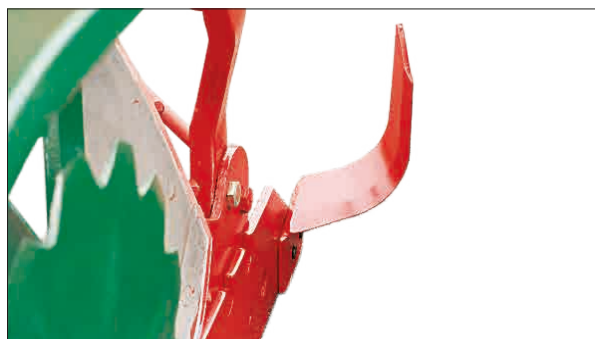
### Landside Knives

A very good alternative to disc coulters, either to reduce weight or to avoid blockage from trash and stones. A good combination with skimmers.



### Eco share

Designed to 10 cm below the normal ploughing depth. Also an alternative for up to 10 cm narrower ploughing depth.



### 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.



### Furrow Splitter

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

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# TECHNICAL DATA

Model	Interbody clearance cm	Head-stock	Type of beam	Working width cm	Underbeam clearance cm	No. of furrows	Weight (kg)						Lift requirement (kg)					
							3	4	5	6	7	8	3	4	5	6	7	8
2300 V	85/100	N° 200	Autom.	30-50/35-55	80	3-5	1180	1470	1630	-	-	-	3100	4300	5100	-	-	-
3300 V	85/100	N° 300	Autom.	30-50/35-55	80	4-6	-	1700	2000	2300	-	-	-	4900	6300	8200	-	-
3400	85/100	N° 300	Autom.	35-40-45/35-40-45-50	80	5-7 (6+1)/5-6			2100	2280	2500	-	-	-	6600	7600	8750	-
3400 V	85/100	N° 300	Autom.	30-50/35-55	80	5-7 (6+1)/5-6	-	-	2200	2400	2680	-	-	-	7000	8500	9000	-

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 85 cm 'interbody clearance'. For ploughs with 100 cm clearance, please adjust according to the following: Weight + 15 kg/body, lifting requirement + 50 kg/body.

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