

2500 i-PLOUGH ISOBUS MOUNTED REVERSIBLE PLOUGH

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







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 absorbation

- 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

	Method Deep Tillage (not a must)					Basic Tillage	Seedbed Preparation	Seeding	Spreading	Spraying		
CONSERVATION CONVENTIONAL	intensive	up to 15%	Conventional	with soil inversion								
	ing	ing 15 - 30%	Reduced Till	without soil inversion								
	the second	Soil coverage after Seeding	Mulch Seeding without soil inversion	without soil inversion								
	extensive Soil -	Soil e > 30%	Strip Tillage	stripewise Ioosening			,	Legiter Legiter				
			VertiCal Tillage	shallow tillage								

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

SMART & SAFE





6 KVERNELAND 2500 i-PLOUGH®

OPTIMISE PLOUGHING AND COMFORT TO MAXIMISE PROFITABILITY

Easy

From the tractor cabin, the ISOBUS enables all operations as well as the most important plough adjustments.

Efficient

FURROWcontrol optimises ploughing for all 4, 5, 6 furrow models.

Smart & Safe

Maximum security for the driver and for anyone/anything around with the Kverneland unrivalled trailer transport solution.

OVERVIEW INNOVATIONS THAT COUNT

The Kverneland 2500 i-plough® is recommended for tractors around 206kW/280hp. Each and every developped innovation benefit the users working life: reach the perfect ploughed field in the most efficient and easy manner.

ISOBUS controlled operations

Four essential functions are covered by the ISOBUS: Ploughing, Transport, Marking and Connecting. The most important plough settings are enabled for the perfect ploughed field.



Hinged headstock

Changing from transport to ploughing position can be done from the tractor cabin.



Trailer transport concept

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



Aero-profile legs

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



Central adjustment of skimmers

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



Swivel depth wheel mechanism

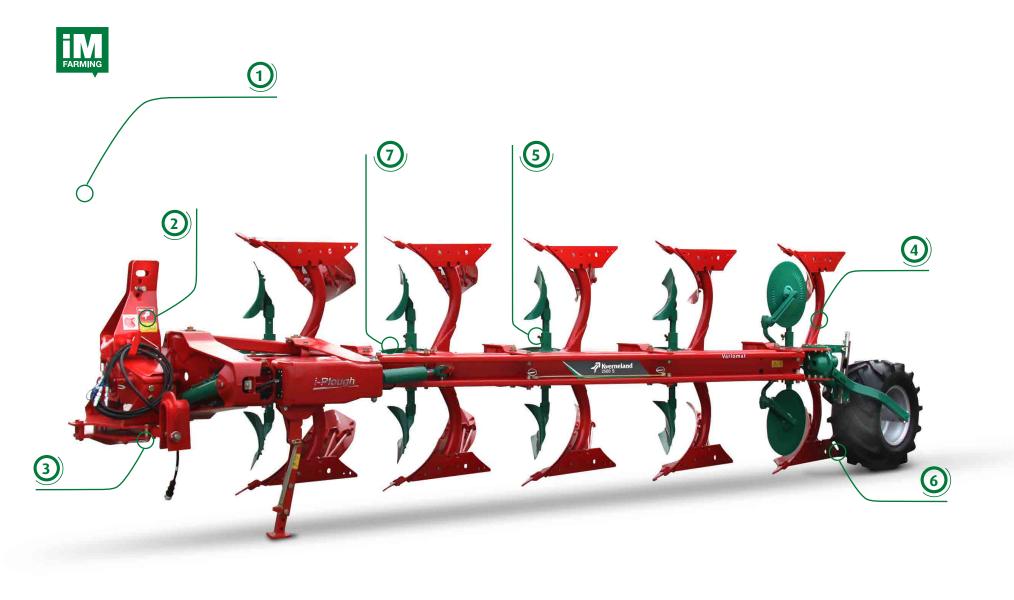
This principle increases the driver's comfort at headlands.



Add on leaf spring system

Easy adjustment of the leg releasing forces.

Maximise productivity



KVERNELAND 2500 i-PLOUGH®

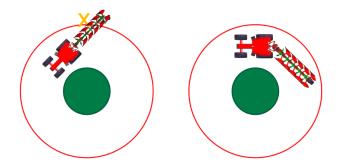
SMART & SAFE TRANSPORT SOLUTION THE TRAILER CONCEPT



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

Quick and easy. One can change the plough position from transport to ploughing and vice versa from the tractor cabin. The top link of the tractor remains connected during transport thanks to the hinged headstock. The pivot point of tractor/plough is located in the middle. No further adjustements are necessary for the ploughing position.

Safety during transport is optimised for the driver and for anyone/anything around. The Kverneland 2500 behaves like a trailer thanks to a turnable cross shaft (45 degree mutual offset). No tilting out when driving in curves.



Maximise safety with the Kverneland 2500 i-Plough transport solution

Kverneland 2500 i-Plough transport solution:

•Safe •Smart •Quick & easy



EFFICIENT PLOUGHING NEW DESIGNS FOR HIGHER PERFORMANCE



The Kverneland 2500 i-Plough® features 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 blokages regarless of the 85/100 cm interbody clearance.

The "aero-profile" legs equip both Kv 2500 S and B models identically. These are hollow and robust thanks to the Kverneland heat treatment technology. By limiting the weight of the legs, the Kverneland plough is ligther and easy to pull. Low pulling requirements saves fuel consumption.

In the heavy/stony conditions, the world renkowned Kverneland auto-reset system combines efficiency with no maintenance cost. For the Kverneland 2500 i-Plough® 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.



KVERNELAND AUTO-RESET SYSTEM EFFICIENT AND MAINTENANCE FREE

Release characteristics

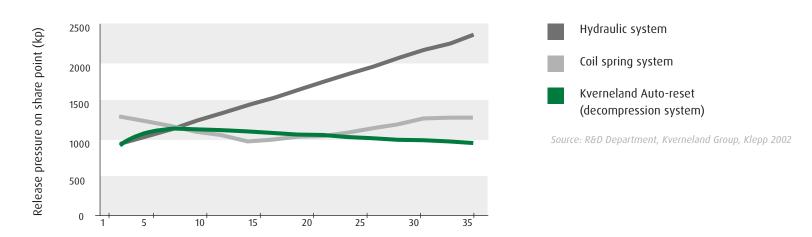
The diagram shows the differences between three different Auto-reset systems, and how the pressure varies as the body rises (1 cm).

Conclusion

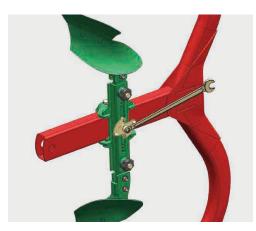
The unique Kverneland leaf spring Auto-reset system is highly recommended.

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 to come back to the correct ploughing depth once the obstable passed. This ensures a quality ploughing.



INCREASE PRODUCTIVITY CENTRAL ADJUSTMENT OF SKIMMERS



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.

100% higher productivity in adjusting skimmers. Smart and easy, Kverneland 2500 i-Plough® offers the possibility to adjust the skimmers depth simultaneaously. Use the spanner and just screw or unscrew the central bolt.

This operation having to be repeated for each leg, this innovation makes you save time and not least 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





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 alternatives feature the dimensions 340-55 / 16 or $280/60 \times 15,5$. The frame mounted wheel is available for the 5 and 6 furrow ploughs.

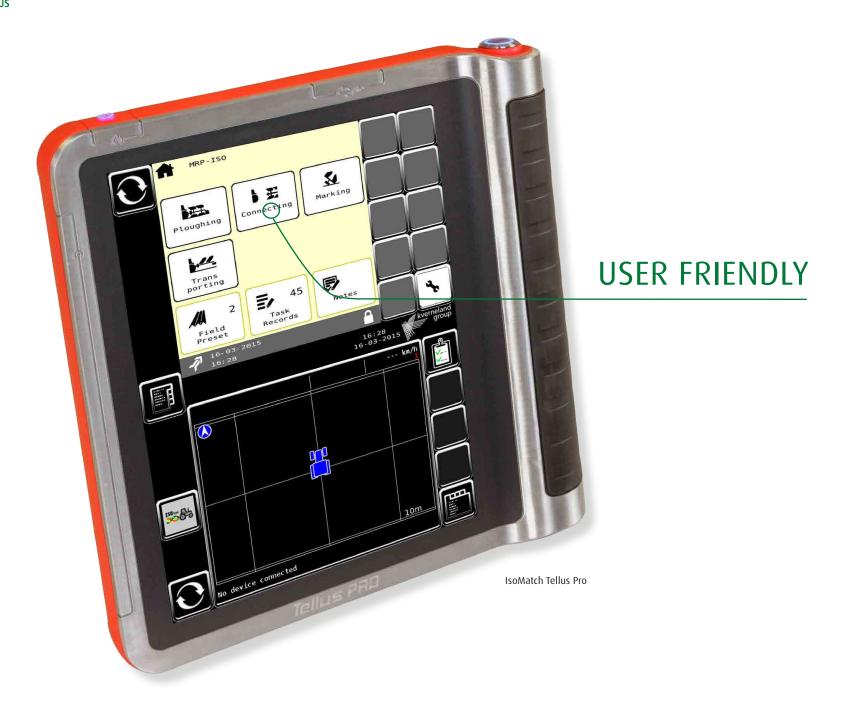
The wheels are adjustable hydraulically from the tractor cabin with any ISOBUS terminals.

The ploughing depth can hence be controlled from the tractor cabin. High ploughing performance can be achieved whichever Kverneland wheels get chosen. Reliable ploughing width adjustments are obtained by activating the Variomat[®].

Maximise comfort.

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

Easy conversion from ploughing to transport either mechanically or ISOBUS operated. For the latter, activate the transport position on the ISOBUS screen and the wheel automatically changes position.



ISOBUS OPTIMISES PLOUGHING AND COMFORT FOR MAXIMUM EFFICIENCY

The Kverneland 2500 i-Plough® is an ISOBUS plough.

The ISOBUS technology is utilised to make the driver working day more productive while aiming at the perfect ploughed field.

To that objective, the ISOBUS supports 4 essential functions:

Ploughing:

All important adjustment possibilities from the tractor cabin via any ISOBUS screens.

Transport:

Automatic sequences to ensure a safe transport.

Marking:

Important function for "non-square fields" and for nice in's and out's on the head land.

Connecting:

Safe and trouble free parallel setting of the cross shaft connection to the tractor lower links.

The display of potential operations is clear and intuitive. Easy to control and to adjust parameters via the touch screen.

The ISOBUS supports you in many ways. For instance:

Field preset

Adjustments can be pre-set according to soil conditions or tractor requirements.

Changing tractors or ploughing in different soil conditions are easily carried out via finger tips.

Plough settings are automatically calibrated to the tractor rear wheel settings.

Task record

Better control of the Farming management via Task Records.

Possibility to control the total of ploughed hectares.



"It has never been so easy to set a plough from a transport position to the perfect ploughing from the tractor seat"

Ad Buys (Dutch National Champion in Ploughing) after testing a Kverneland 2500 i-Plough®

ISOBUS ENABLES PRECISE OPERATIONS FOR IMMEDIATE ACTION

User friendly. Comfortably seated in the tractor cabin, any parameters can be adjusted by finger tips. Ploughing adjustments are clearly displayed on the same screen. Each adjustment is easily recognisable by 1 icon + 1 measurement.

For best and instant understanding, measurements are indicated in cm or inches.

Hence, it is simple to control and adjust the most important ploughing parameters:

- left and right angle
- 1st furrow
- ploughing depth
- ploughing width



FURROWcontrol FOR UTMOST PRODUCTIVITY

Straight furrows can be a matter of pride but it also indicates how serious soil preparation is. Ploughing can be followed by other operations. They will be easier to carry out if furrows are straight in the first place.

Kverneland FURROWcontrol straightens up furrows quickly and efficiently. Once an A-B line is defined, FURROWcontrol automatically adjusts the working width by following this A-B line. RTK/DGPS signals guide the plough while the Variomat® adjusts the working width from 12" to 24" for parallel furrows. Not least, the pulling line adjusts automatically too.

Maximise your productivity. Plough more, plough better, plough effortless. Experience has showed that FURROWcontrol can make straight furrows even when it looks impossible. Very wet soils or very hard soils, not worked out for a few years, are often difficult conditions preventing an efficient ploughing. FURROWcontrol becomes the ideal solution by enabling straight furrows.

By activating FURROWcontrol, the plough makes the adequate adjustments for the perfect furrows. As a result, your tiredness is reduced during and after the working day. Straight furrows also have a positive economic impact. The field gets ploughed quicker, hence using less fuel.



FURROWcontrol ON

KVERNELAND BODIES FOR HIGH PERFORMANCE

Designed for high performance

Kverneland bodies benefit from an outstanding reputation: high agronomic performance and low wearing.

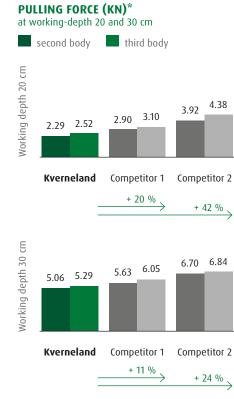
Low pull requirement

Recent university studies, FH Cologne and Wilsmannn 2012, have revealed that the design of Kverneland bodies offer some of the lowest pulling forces on the market: from -20% to -42% when ploughing at 20 cm working depth and -11% to -24% at 30 cm. It is therefore possible to plough with one extra Kverneland body and gain in output compared to competition for the equivalent pulling forces.

As regard to fuel consumption, it is reduced by 19% to 28% when using a Kverneland plough.

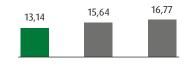
Wide choice of bodies

Over the years, Kverneland has designed bodies which are adapted to any soils conditions.

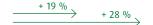


Source: FH Cologne and Wilsmann, 2012

FUEL CONSUMPTION (L/HA)*



Kverneland Competitor A Competitor B



* The reference body is Kverneland No. 28 and the equivalent from competitors.

Source: FH Cologne, 2014



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

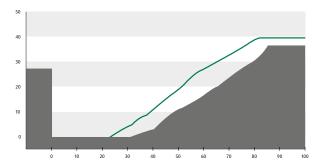
Bodies No. 28 and No. 38 shape and action move the soil further away from the landside, increase the furrow bottom width by as much as 25% compared to body No. 9. This allows wide tractor tyres, like a 710 serie type, to work in the furrow without rolling down the previous furrow. Body No. 38 enables 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, buttom: 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 ٠
- 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) ٠
- for soils with high humus content without stones •
- advised for tractors with large tyres .
- easy pulling
- working depth: 12-35 cm ٠
- working width: 30-55 cm
- landside / mouldboard: 40°



- 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° •

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.

KVERNELAND STEEL TECHNOLOGY FOR MAXIMUM ROBUSTNESS



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.

ISOMATCH PRODUCTS





MANAGE YOUR FARM AS A BUSINESS WITH OUR ISOMATCH PRECISION FARMING OFFERING

Our precision farming offering is essential in managing your farming business with success. Applying electronics, software, satellite-technology, online tools and Big Data enables you to use your farming equipment more effectively and reach higher profitability of your crops.

iM FARMING - smart, efficient, easy farming



Maximum savings! The IsoMatch GEOCONTROL precision farming application includes Manual Guidance and Data Management free of charge. It is possible to expand this application with Section Control and/or Variable Rate Control

Enhance your success with e-learning

IsoMatch Simulator is a free downloadable virtual training program. It simulates all functions of the IsoMatch Universal Terminals and Kverneland ISOBUS machines. Train yourself and make yourself familiar with your machine to avoid errors and enhance your machine performance.

The best overview in farm management

IsoMatch FarmCentre is the first of a series of telematics solutions. This fleet management solution is applicable for your ISOBUS machines in combination with an IsoMatch Tellus GO/PRO. Whether you wish to control your fleet, manage tasks remotely or analyse machine performance data, IsoMatch FarmCentre provides this in an efficient web application, linking implements, tractors, terminals and the cloud in one continuous flow of data and connectivity.



ISOMATCH PRODUCTS





Be a PRO in increasing productivity

The IsoMatch Tellus PRO 12-inch terminal provides you with the optimal solution for an all-in-one control system inside the tractor cab including automatic steering. It is the centre for connecting all ISOBUS machines, running precision farming applications and Farm Management Systems. It offers everything you need to get the maximum out of your machines and crop, as well as cost savings in fertiliser, chemicals and seeds by using automatic section control and variable rate control. With the unique dual screen functionality it gives you the opportunity to view and manage two machines and/or processes simultaneously.



Easy control management

The IsoMatch Tellus GO is a cost-efficient 7-inch terminal, especially developed for managing the machine in a simple way. Easily set up the machine with the soft keys and simply use the hard keys and rotary switch for optimal control while driving.

Improve your performance Maximum efficiency, minimum waste

NEW



IsoMatch Global PRO

GPS antenna system with RTK precision for the highest accuracy (2-3 cm) and best productivity.

IsoMatch Grip

This ISOBUS auxiliary device is made for maximum machine control and efficient farming. Operate up to 44 implement functions from one device.

Light bar for manual guidance including section the distance from the A-B line and steer for the ideal position.

IsoMatch (Multi)Eye

Connect up to 4 cameras to the IsoMatch Universal Terminals. It gives you full control and overview of the entire machine operation.

IsoMatch InLine status information. Manage

ORIGINAL PARTS & SERVICE LET'S FOCUS ON YOUR BUSINESS



ORIGINAL

MYKVERNELAND SMARTER FARMING ON THE GO

A personalised online platform tailored to your machine needs

With MYKVERNELAND you will benefit from easy access to Kverneland's online service tools.

First hand access to information on future developments and updates, Operator and Spare Part manuals, FAQs and local VIP offers. All info gathered in one place.



OPTIMISE PLOUGHING PACKOMAT

Packomat follows the plough from transport to work.

Packomat works in all ploughing conditions. It levels, re-consolidates, crushes clods, prepares seed beds, from light-dry to heavy-wet soils in one pass. The Packomat does not require any extra pulling force than for the plough alone. The support of the depth wheel on one side and the Packomat on the other side, balance even better the Kverneland plough. Less landside pressure actually reduces the draft requirements.

Maximise productivity



Packomat is available up to 5-furrow Kverneland 2500 i-Plough



Scrapers

OPTIMISE PLOUGHING PACKERS AND PACKER ARM

Kverneland packer arm is available for any Kverneland mounted reversible ploughs and for any packers.

Quick, easy and smooth operations thanks to the hydraulic release system and to the spring system which absorbs shocks. Simple manual handling for transport position.







Packer arm connecting to the packer



Spring system

OPTIONS TRANSPORT SOLUTIONS



Transport solutions:

- Trailer concept: ISOBUS controlled convertion from transport to ploughing
- Trailer concept: manual convertion from transport to ploughing
- Transport in ploughing position. Up to 5 furrows

ACCESSORIES CHOOSE THE CORRECT EQUIPMENT





Easy adjustable skimmers

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

Trashboards

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

ACCESSORIES FOR THE PERFECT PLOUGHED FIELD

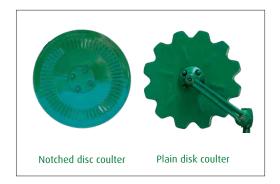


Leg protections

• Kverneland 2500 S i-Plough: Easy adjustable releasing forces

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

• Kverneland 2500 B i-Plough: Shearbolt, 4,5 tons cutting forces



Disc Coulters

Disc coulters are available in sizes of 45, 50 and 55 cm (18, 20 or 22") diameter, plain or notched. They 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 or stones. 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 or stones. A good combination with skimmers.



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.



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.



Knock-on®

The Knock-on[®] system consists of only 2 parts: a holder fixed to a regular Kverneland share and a Knock-on[®] point.Kverneland's Knock-on[®] is a universal system. Plough Knock-on[®] points can also be used for cultivators.



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)		
model							4	5	6	4	5	6
Kv 2500 B i-Plough®	85	250	Shearbolt	30-55	80	4-6	1830	2130	2470	4800	6425	8350
Kv 2500 B i-Plough®	100	250	Shearbolt	30-60	80	4-6	1890	2205	2630	5050	6675	8750
Kv 2500 S i-Plough®	85	250	Auto-reset	30-55	80	4-6	1950	2280	2650	5100	6800	8800
Kv 2500 S i-Plough®	100	250	Auto-reset	30-60	80	4-6	2010	2355	2810	5350	7050	9200

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: 420/55 x 17 depth wheel, one coulter and skimmers for all furrows.



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