



## **IXTER A/IXTER B/IXTRA**

MOUNTED FIELD SPRAYERS

# 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.

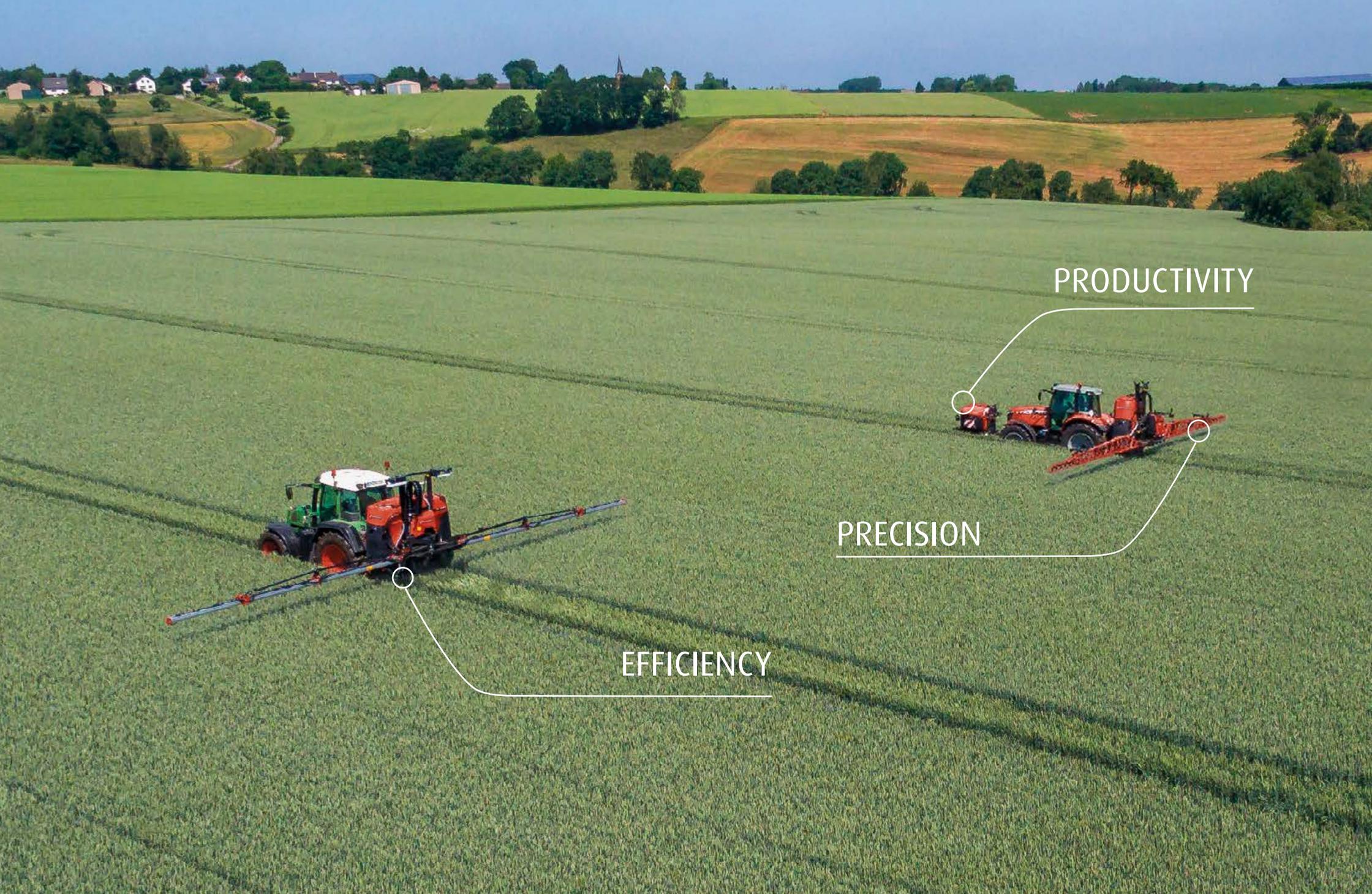


The iM FARMING logo appears when the implement can be connected to our smart farming systems and accessories, essential for managing your business.



## SPRAY

Efficient spraying is a decisive factor when securing yield, quality and protection of crops and environment.



PRODUCTIVITY

PRECISION

EFFICIENCY

# PRECISE, EASY AND COST EFFECTIVE SPRAYING

## EVERY CROP DESERVES THE BEST CARE

### Efficiency

When farming means business, efficient management of your crop protection to secure a profitable harvest is a decisive factor. Every crop deserves the best care: the right actions at the right moment.

### Productivity

When farming the land you need to respond to specific demands of your crop. Raising productivity and output requires more precision in farming. You are facing specific field conditions that may vary a lot and weather conditions that could change per hour. Details in timing and execution can have a major impact.

### Precision

High precision spraying is an important factor. You want to be sure that the product you apply is perfectly dispersed giving value out of every drop of spray liquid, even at high speed. The job has to be done with the highest possible efficiency. You want to cut back waste, reduce input costs and minimise the impact on the environment.

*With a Kverneland sprayer you are sure that your crop gets the best care*



LIQUID MANAGEMENT

STABILITY

PRECISION SPRAYING

EASE OF USE

INTELLIGENT  
ELECTRONICS

CONNECTIVITY

# PRECISION AND COMFORT TO GROW THE BEST CROPS



## Ease of Use

The complete iXter mounted sprayer range is developed in cooperation with farmers and designed for precise, easy and cost effective spraying.



## Precision Spraying

The iXter range is equipped with a boom lift for an optimal boom performance, in spraying position, securing a correct crop coverage.



## Stability

The gravity point of the iXter A and iXter B is close to the tractor which has a positive influence for lower tractor lifting capacity. The iXtra front tank provides front end weight that can turn into additional capacity and adds even more stability to your tractor, only when needed!



## Intelligent Electronics

Simple control to boost your performance. The iXspray hardware and software with intuitive touch interface guarantees user friendly operation of the complete iXter mounted sprayer range.



## Liquid Management

Optimal crop protection with environmental focus. The iXter A and iXter B provide value from every drop of spray liquid, because every crop deserves the best care.



## Connectivity

Always directly connected to the iXter mounted sprayer with Kverneland FarmCentre and Kverneland ServiceCentre creating multiple opportunities for you. The Kverneland Sync implement gateway enables easier task management, remote diagnostics and profitability.



# THE KVERNELAND IXTER B SOLUTIONS

## EVERY DROPLET IN THE CORRECT PLACE

The Kverneland iXter B mounted sprayer range is the fruit of years of research and development in close collaboration with farmers. The iXter B sprayer is designed with focus on ease of use, intelligent electronics and environmental protection.

- 1 For Optimal Boom Performance**  
The suspended boom lift on the iXter B combines optimal stability with soft boom balancing and limited vertical movement to minimise spray height deviations, securing correct crop coverage. The HOSA (15 m) and HC (18-30 m) spray booms with different spraying functionalities are available to meet specific requirements or field conditions. The optional Boom Guide system ensures a perfect spraying pattern for high precision spraying.
- 2 Stay Safe During Work and Transport**  
The gravity point of the iXter B is close to the tractor and by adding an iXtra front tank the weight is well distributed. Kverneland TwinFill is a combined filling functionality for the iXtra front tank in combination with the iXter B mounted sprayer. Multi-Tank-Management with the iXter B-iXtra combination gives more flexibility during spraying.
- 3 Optimal Crop Protection**  
The iXter B is as standard, equipped with iXclean® Basic, including the ENFO® priming and rinsing system. Operator convenience can be increased by adding an electrical level indicator, iXclean® Comfort or iXclean® Pro. With features as iXflow-E® recirculation system with individual nozzle control, iXflow-Pulse®, ErgoDrive headland management, DAT patch spraying system or SpotSpray, the environmental protection can be increased up to the highest level of efficiency.
- 4 Suitable For Every Farmer**  
The EasySet control panel is boosting productivity by its intuitive operation. The controls are separated to a suction and pressure side. The valves are well protected behind the door: this keeps the operational area free of dirt and spray liquid. The EasyHitch quick hitch system makes life simple. There is enough space between the tractor and the sprayer to connect the PTO shaft and cables.
- 5 Simple Control to Boost Your Performance**  
The innovative iXspray hardware and software with intuitive touch interface guarantees user friendly operation. With the Kverneland Grip joystick you can add fingertip control for easy control of the iXter B sprayer.
- 6 Connect Yourself to Your Machine**  
Stay seamlessly linked with Kverneland's 'Always Connected' feature. Kverneland Sync ensures continuous connectivity to Kverneland online services, eliminating manual syncing and enhancing efficiency. Enjoy seamless data transfer to Kverneland FarmCentre and Kverneland ServiceCentre for streamlined operations, regardless of an ISOBUS terminal.



# FULLY INTEGRATED CONCEPT FOR MORE COMFORT AND EASY OPERATION

All functions of the iXter B are easy to handle: a better protection and integration is simply not possible. Kverneland makes spraying easy and efficient.



## EasyHitch

It is simple to connect the iXter B to the tractor. The ingenious locking system secures the machine and shows the operator it has connected correctly.



## EasySet

The EasySet valve panel makes life easy by its intuitive operation. The controls are separated to a suction and a pressure side. The valves are well protected behind the door; this keeps your operational area free of dirt and pesticides.



## Chemical Inductor

The graduated chemical inductor with a capacity of 30 litres is mounted on rails and fully integrated in the frame. The rotating canister cleaning nozzle is activated from the EasySet valve panel. The circular rinsing system is no add on: it is part of the design! The agitation nozzle has the function of melting powder products and pre-mixing products with a reduced risk of foam. The spray gun is located next to the chemical inductor to be able to keep a clean working place or to clean the chemical inductor or big chemical cans.

## Closed Transfer System (Optional)

A Closed Transfer System (CTS) ensures a safe, quick and precise way of filling the product in the right concentration as well as integrated cleaning of housing and container. Therefore the use of a CTS limits the main risk of point source contamination into soil or surface water by limiting the risk of product leakage during filling operation. The complete product is used and the cans are completely emptied and cleaned by the CTS system, so only empty and clean cans are left for recycling.



### Clean Cloth Locker

A storage place for gloves, liquid soap and the hand wash tank itself are integrated in the door.



### Hand Wash Tank

Everything is available to keep your hands clean. Easy access to fill the tank via the opening in the cover. You can wash your hands via the hand wash tap which is integrated in the door. To prevent contamination, washing liquids can be caught in the chemical inductor.



### Hydrant Filling (Optional)

A 2" C hydrant fill connection with anti return valve for direct filling under pressure is standard. Quick filling on the headland can be done safely and easily. The transport trailer pumps the liquid into the main tank. The booms can stay unfolded for quick resumption of the spraying process.



### Filling via the Suction Hose (Optional)

External aspirated water is filtered first by the filter on the hose and then by the suction filter. In parallel, you can already use the chemical inductor to add and premix powders and liquid.



### Fully Integrated Step

The fully integrated step and handgrips allow safe access to the tank lid even on the 1800 litre tank. This ensures an easy and safe inspection.

### High Pressure Agitation System (Optional)

The intensive turbo agitation system makes the mixture quickly homogeneous. The powerful high pressure nozzles guarantee a powerful mixing which is used after filling the product or a long break. The return flow agitation system keeps the mixture homogeneous during spraying operation. It can be easily switched off manually or automatically based on a pre-set of rest volume to avoid risk of foam or when the main tank is nearly empty it reduces the volume of rest (non-sprayed) liquid.



### Easily Accessible Filters

Both suction and pressure filters are easy accessible for inspection and any subsequent cleaning, ensuring minimal contact with spray liquid. The high capacity suction filter with transparent housing, filters the complete flow before the liquid enters the pump. The self cleaning pressure filter prevents blocking via a continuous flow keeping the filter mesh clean. The undissolved particles are returned into the tank until they are completely dispersed.

### 180 Litre Clean Water Tank

The sprayer can be cleaned in the field with water from the clean water tank. Easy access to fill the tank via the opening in the cover.

### External Washing (Optional)

A cleaning kit with a 15 metre hose and a brush can be connected to the pressure side of the pump. It is allowing precleaning of the sprayer in the field, using water from the clean water tank.

# TWINFILL

## ALWAYS THE PERFECT CONCENTRATION

Kverneland TwinFill is an automatic filling program that lets the operator fill his product in one go, for both the iXtra front tank and the iXter B rear tank, without the disadvantage of unknown mixing time.

### The Right Mix in Every Droplet

The iXsray software takes care that the spray liquid is split and transferred to the front and rear tank with the correct volume and equal concentration. After, both tanks are filled up with clean water to the required level and the the same concentration is reached in both tanks. TwinFill is especially beneficial for medium sized arable farmers, vegetable farmers and contractors in mixed farming areas.

The operator can simply fill all of the products in one step to the total required tank volume of the two tanks together or just enter the number of hectares to be sprayed, without having to measure all of the products twice in different amounts and fill the tanks separately!

With TwinFill the operator can immediately start the spray job, because the mixture in both tanks is perfectly diluted and ready for use - and also from start to finish for the complete spray job. There is also no waste of clean water or spray liquid because it is exactly calculated upfront how much water or spray liquid is needed.

### Multi-Tank-Management

The iXtra-iXter B combination steel keeps its distinctive feature to have a multi-tank usage, with two different spray mixes in front and rear tank for different applications or for storage of clean water for later use or to prepare another mixture at another moment at another place.





- Securing the right concentration in both tank mixtures from the start, regardless if this is for the maximum total tank volume or just a partly filled tank
- Designed to optimise filling and save time, which makes it more efficient
- Software splits the correct volumes correct volumes and equal concentrations for both tanks
- Step by step user guidance on the terminal to prevent errors
- Operator has the benefit of keeping two different mixtures in the front and rear tank

# THE KVERNELAND IXTRA SOLUTIONS

## MORE THAN JUST EXTRA VOLUME

The innovative iXtra concept offers much more than just extra tank volume. In combination with the iXter B mounted sprayer, the iXtra front tank provides a total tank volume of around 3000 litres, making the iXter B in combination with the iXtra a serious alternative to a self propelled sprayer.

**1 For an Optimal Performance**  
The iXtra concept with combined functions gives more flexibility: you can easily select which tank you would like to use from the tractor cab while spraying. There are three different combinations possible with the iXtra front tank:

- One-tank approach: both tanks are filled with spray liquid it boosts tank capacity by 60%.
- Two-tank approach: filled with two different tank mixes, the front and rear tanks can be used as two independent spray tanks.
- Reservoir approach: filled with clean water or a concentrated product the iXtra front tank can be used as a reservoir for later use, for example in another field or crop.

**2 Stay Safe During Work and Transport**  
The iXtra Comfort has manual control of the EasySet control panel on the iXter B, as well as on the iXtra. With the iXtra Pro, the ISOBUS version, the operator gets full control over all

functions from the tractor seat including automatic level management. Front to rear tanks will then be emptied in equal proportion for optimum weight distribution.

**3 Optimal Crop Protection**  
Kverneland TwinFill is a combined filling functionality for the iXtra front tank in combination with the iXter B mounted sprayer to optimise safety and efficiency.

**4 Suitable For Every Farmer**  
The iXtra front tank uses the functions of the iXter B mounted sprayer when filling and spraying. All the necessary controls are conveniently located on the sprayer and operated from the EasySet valve panel on the iXter B. Without a front PTO shaft or hydraulic hoses, hitching and unhitching the iXtra is extremely simple: it uses only two hoses with CAMlock connections and an electrical cable - it really is that simple!

**5 Simple Control to Boost Your Performance**  
The innovative iXspray hardware and software with intuitive touch interface guarantees user friendly operation. With the Kverneland Grip joystick, you can add fingertip control for easy control of the iXtra front tank in combination with the iXter B mounted sprayer.

**6 Connect Yourself to Your Machine**  
Enjoy seamless data transfer to Kverneland FarmCentre and Kverneland ServiceCentre for streamlined operations, regardless of an ISOBUS terminal.





## OPTIMAL VISIBILITY

### FROM THE TRACTOR CAB IN ALL SITUATIONS

The low and compact design of the iXtra front tank gives the tractor driver an excellent visibility on the tramlines in the field.

#### Optimal Weight Balance

The iXter B and iXtra will give optimal balance to this combination. With tractors able to carry much higher loads on their rear linkages, the need for ballast weight on the front of the tractor is essential. With a nominal volume of more than 1100 litres, the iXtra is that front end weight, adding stability to your tractor, but only when needed.



# THE KVERNELAND IXTER A SOLUTIONS

## EVERY DROPLET IN THE CORRECT PLACE

The Kverneland iXter A is a professional mounted sprayer, with a low weight, close gravity point to the tractor and easy to operate at the same time.

- 1 For Optimal Boom Performance**  
The suspended boom lift on the iXter A combines optimal stability with soft boom balancing and limited vertical movement to minimise spray height deviations, securing correct crop coverage. The HOSA (12-15 m) and HC (18-30 m) spray booms with different spraying functionalities are available to meet specific requirements or field conditions.
- 2 Stay Safe During Work and Transport**  
The gravity point of the iXter A is close to the tractor for an optimal weight transfer.
- 3 Optimal Crop Protection**  
The iXter A is as standard, equipped with iXclean® Basic, including the ENFO® priming and rinsing system. Operator convenience can be increased by going to iXclean® Plus as then the tank cleaning nozzle can be activated from the tractor cab. With features as SpotSpray, ErgoDrive headland management or DAT patch spraying system the environmental protection can be increased up to the highest level of efficiency.
- 4 Suitable For Every Farmer**  
The iXter A makes life easy because the sprayer is easy to hitch and unhitch. There is enough space to connect the PTO shaft and the cables. A parking frame is available for easy storage. The iXter A is easy to operate with the control panel (valves are separated into a suction and pressure side), chemical inductor, hand wash tank and clean cloth locker all conveniently located at the same side of the sprayer.
- 5 Simple Control to Boost Your Performance**  
The innovative iXspray hardware and software with intuitive touch interface guarantees user friendly operation. With the Kverneland Grip joystick, you can add fingertip control for easy control of the iXter A sprayer.
- 6 Connect Yourself to Your Machine**  
Stay seamlessly linked with Kverneland's 'Always Connected' feature. Kverneland Sync ensures continuous connectivity to Kverneland online services, eliminating manual syncing and enhancing efficiency. Enjoy seamless data transfer to Kverneland FarmCentre and Kverneland ServiceCentre for streamlined operations, regardless of an ISOBUS terminal.



## EASY OPERATION LEADS YOU IN THE RIGHT DIRECTION

It is easy to operate the iXter A sprayer with the control panel, chemical inductor, handwash tank and clean cloth locker all on the same side of the sprayer. Better protection and integration is simply not possible.

### Easy to Hitch

The gravity point of the iXter A is close to the tractor for a maximum weight transfer, but still there is enough space to easily hitch and unhitch the sprayer.



### Control Panel

The control panel makes life easy with its intuitive operation. The controls are separated into a suction and pressure side, so all control functions are to hand.





**Clean Water Tank**

The sprayer can be cleaned in the field with water from the clean water tank. The level indicator indicates the actual water level in the clean water tank.

**Stairs To Tank Lid**

Stairs to tank lid for filling or inspection. The fully integrated step and handgrips allow safe access to the tank lid even on the 1200 litre tank.



**Rotating Level Indicator**

A rotating level indicator provides the actual tank volume. An electrical level indicator is optionally available.



**Outside Cleaning Set (Optional)**

15 m of hose, a brush with insert for soap, all linked to the pressure side of the pump, allow cleaning in the field with water from the clean water tank.



**Hand Wash Tank**

Everything is available to keep your hands clean. Easy access to fill the tank via the opening in the cover. You can wash your hands via the hand wash tap.

**Clean Cloth Locker**

The clean cloth locker allows you to keep your safety and cleaning equipment or tools with you on the sprayer.

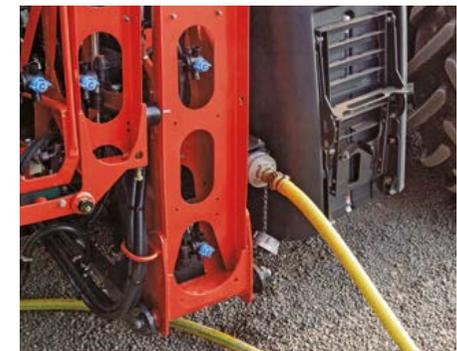
**Chemical Inductor**

The graduated chemical inductor with a capacity of 30 litres is mounted on a pivoting point and fully integrated in the frame. The rotating canister cleaning nozzle releases the water when pushed downwards. The circular rinsing system is no add on: it is part of the design! The spray gun is standard equipment to be able to keep a clean working place or to clean the chemical inductor or big chemical cans.



**Hydrant Filling (Optional)**

The 2 inch hydrant filling device allows filling under pressure at high capacity. A GEKA adapter for 1 inch filling is offered as an option.



## HOSA SPRAY BOOM

### INNOVATIONS TO MAKE LIFE EASY

The HOSA spray boom is having an advanced Z-folding principle: the lateral movement enables you to quickly reduce boom width and pass obstacles in the field. The aluminium profile is designed for maximum resistance. No welding provides remarkable strength, the anodised hardened surface protects against scratches and corrosion.



#### One-side Spraying

With the HOSA spray boom it is possible to do one-side spraying, it gives more flexibility in the fields along hedges and obstacles.



#### “Z” Folding

The HOSA “Z” folding system is unbeatable in passing obstacles quickly. No space is needed behind to fold in and out.



#### Integrated Nozzle Protection

The nozzles are fully integrated in the boom design for optimal protection.



- Z-folding aluminium boom
- One-side spraying
- 2.50 m transport width
- Heavy construction, light weight
- Profile integrated nozzle protection
- Smooth surface for easy cleaning
- Mono or Trijets
- Central locking of pendulum system

## HC SPRAY BOOM



- Made for high speed and extreme conditions
- 4 boom segments can be folded symmetrically or asymmetrically
- One-side spraying
- Full integration of nozzles
- 2.50 m transport width
- High quality components

# HC SPRAY BOOM

## THE VERSATILE SPRAY BOOM

The HC is a vertically folded steel spray boom. The triangular steel construction and the anti-yaw system allow high speed spraying in very difficult conditions. The HC boom has been designed for 100% integration of spray lines and nozzles, for light weight and maximum strength. The boom is extremely strong and reliable. The balancing system with professional steel rollers ensures a perfect suspension in all circumstances.



### Utmost Flexibility

The HC boom in combination with Boom Guide Pro or ProActive can offer utmost flexibility because it can create a negative angle and spray boom reduction is possible. This offers additional safety for the full working width in case of obstacles or extreme field conditions.



### Multi-Functional

The HC boom is a multi-functional spray boom with the possibilities of one-side spraying and asymmetric and symmetric folding of 3, 4 or 5 boom segments which fit to variable field conditions with narrow or no headlands. It offers multiple folding options for difficult field shapes, varying conditions and obstacles in field or special crop types (vegetable farms).



### Safe on the Road

The 2.50 m transport width means that even narrow roads and gateways are no obstacle.

# IXCLEAN®

## SAFE AND EASY FILLING AND CLEANING

### iXclean® Basic

ENFO® priming and rinsing is standard on all Kverneland sprayers. Before spraying starts the spray lines are filled with chemicals exactly up to the nozzle by automatic shut off. After finishing or interruption, crop protection agents are automatically flushed out of the spray lines with a minimum of clean water consumption. This ENFO® technology optimises filling and cleaning of the spray lines. Accurate application, no waste of products and saving water are the benefit for the environment.

### iXclean® Plus

iXclean® Plus works with an electric pump which is connected to the clean water tank, the suction side and to tank cleaning/rinsing tank nozzles on the pressure side. The operator can start iXclean® Plus from the tractor cab, directly in field, when spraying is finished and the main tank is empty or it can be started during spraying and rest liquid can be diluted in the main tank. ENFO® priming and rinsing is included in the iXclean® Plus functionality.



### Electrical Level Indicator

The electrical level indicator provides the actual tank volume to the spraying computer, as well as via the Focus 3 display on the EasySet control panel.

### iXclean® Comfort

iXclean® Comfort is a semi-automatic valve control system. The combination of an electrical level indicator and suction valve provides operator comfort and accuracy; automatic filling stops when the programmed level is reached, and remote control of all ENFO® rinsing and priming functions are carried out from the cab! Simply prime the spray lines before you start and rinse them afterwards.

### iXclean® Pro

iXclean® Pro means fully automatic electric valve management. It means all functions can be controlled from the cab. Switching between filling, agitation, spraying, diluting, priming, rinsing and tank cleaning is extremely easy. In addition to auto filling, iXclean® Pro also offers a fully automatic multi-step rinsing and cleaning program with triple dilution for the entire sprayer. By pushing one button, a comprehensive cleaning process, including all lines, will start. It is so thorough, that residue levels after automated cleaning are below 1%.

	iXclean® Basic	iXclean® Basic & electric level indicator	iXclean® Plus	iXclean® Comfort	iXclean® Pro
ENFO® - Prime spray lines	●	●	●	●	●
ENFO® - Clean spray lines	●	●	●	●	●
Display tank level on terminal	-	●	-	●	●
Automatic fill stop	-	-	-	●	●
Activate ENFO® from cab	-	-	-	●	●
Activate automatic single cleaning program from cab	-	-	-	●	●
Activate automatic triple cleaning program from cab	-	-	-	-	●
Activate tank cleaning nozzle from cab	-	-	●	-	●
Diluting main tank rest liquid	-	-	●	●	●

# IXSPRAY

## CLEAR, INTUITIVE AND EASY

The innovative iXspray software with intuitive interface guarantees an easy and user friendly operation of the complete Kverneland sprayer range. iXspray is full of nice features to maximise the comfort of the operator, save time and avoid mistakes in a busy spraying season, like pre-sets for spray jobs and easy programmable boom configurations. The Kverneland Grip joystick adds easy control to the fingertips.

### Different Levels to Work in an Easy Way

The main iXspray menu is split into different user levels to have a clear overview and maximise user friendliness.

User working level	User pre-set level	Service and diagnostic level
Spraying operation (spraying, driving, steering and boom functionality)	Start your spray job quicker and minimise mistakes (20 different spray jobs to store)	Calibrations and settings
Preparation for spray job (filling, mixing, diluting and agitation)	Pre-sets for nozzles, rate and speed	Customising to spray conditions and customer needs
Finish the job (emptying, cleaning and storing)	Boom configurations for different section split and working widths	Diagnostic and warning to keep the sprayer running



### AEF and ISOBUS

The iXter A, iXter B and iXtra are ISOBUS compatible and AEF certified for guaranteed compatibility.



- 100% ISOBUS compatible
- Intuitive touch interface
- Clear screen layout - easy to use and to understand
- Shortcuts between different screen levels
- Only a few clicks to different functions
- Intuitive and logical - suitable for every farmer
- Easy to program and to operate due to the AUX-N functionality

### Kverneland Grip

- In total 44 function assignments can be mapped to the Kverneland Grip buttons
- Supports up to four work modes, each identified by a coloured LED
- Full control at your fingertips
- AUX-N certification (AEF)



# SPOTSPRAY

## SPRAY ONLY WHEN IT IS NEEDED

Variable Rate Application (VRA) has been used already for several years to adapt the application rate of a seeder, spreader or sprayer to specific areas in the field. VRA prescription maps can be created based on soil maps, pictures from a drone or satellite images. The optional SpotSpray application on every Kverneland sprayer with iXspray software is based on prescription maps with zero application rates.

### Every Crop Deserves the Best Care

Based on a predefined prescription map the Kverneland sprayer shuts on and off in combination with the SpotSpray application. This is done based on the predefined sections in the control terminal and can be done in combination with iXflow-E®, but even with normal section valves on the sprayer. Only designated spots are sprayed, which is particularly helpful when targeting weed spots, thistles, wet areas, non-germinated areas and areas with soil problems.

With SpotSpray costs can be saved by reducing the spray liquid to be used and preserving healthy crops from unnecessary treatment. This also means less crop damage. Another benefit is that, based on the area of spots in the VRA map, it is easy to see exactly how much spray liquid is required in the sprayer. Capacity is also increased as more hectares or fields can be covered with one tank of spray liquid.

### Kverneland FarmCentre

With Kverneland FarmCentre it is possible to create and remotely send prescription maps and spray tasks of fields, in a user-friendly way. Additionally Variable Rate Application maps can be created with a 'zero' rate that gives the possibility to use the SpotSpray application in a field in a more precise and easy way.



- Increase of capacity: cover more hectares or fields with one tank fill
- Preserving healthy crops from unnecessary treatments
- Reducing the costs when applying the desired rate only at the right place
- Creating environmental benefits: only apply products where it is needed
- Reducing waste and pollution by zero applications at spots without potential

# DAT ECOPATCH AI-VISION SYSTEM PATCH SPRAYING SYSTEM

The DAT Ecopatch, the all-in-one AI-vision system identifies weed patches and sprays Green-on-Brown and Green-on-Green in real time at the push of a button. Saving money was never as easy as this!

## Only Spray where Needed

The DAT Ecopatch system uses RGB-LED sensors to identify weed patches, sending a signal to the nozzles to spray only the patch. During operation, the Ecopatch system effortlessly finds the weed spots in the field, spraying only the targeted weed-species.

The Ecopatch system has the ability to not only recognize weed from crop, but also identify individual weed species. This allows new possibilities for targeted herbicide applications by using herbicides fitting only to the weeds that are identified by the system in the field.



# IXFLOW-E®

## INCREASE QUALITY AND SAVE COSTS

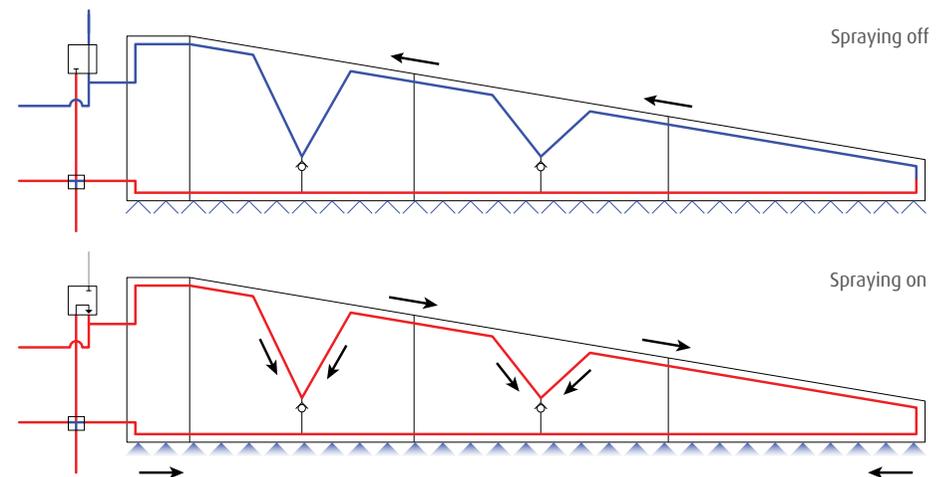
iXflow-E® is the high pressure recirculation system with electric nozzle control. There is a free circulation of spray liquid with a return back to the tank as spraying stops. This means there is no sedimentation in the spray lines and no dead ends for spraying or cleaning, even when the working width is only partially used. During spraying, the spray line is fed from multiple directions supplying constant pressure to each nozzle, so the operator can immediately start spraying at the set pressure. This is unique technology which is patented by Kverneland.

### For Increased Crop Quality and Cost Savings

iXflow-E® is available on the iXter B mounted sprayer range in combination with the HC spray boom. It is easy for the operator to program the number and size of sections in order to fit best to their requirements and field situations. The combination of GEOCONTROL® and GPS allows the operator to reduce overlap and over dosing, to increase crop quality and save costs. All this is in combination with high flow rates, because there is no impact on the section length, no loss of pressure or an unequal flow between sections. iXflow-E® is also fully compatible with the iXclean® Pro automatic cleaning system. Rest liquid is sprayed in the field automatically, resulting in a low volume of rest liquid in the sprayer and spot contamination at the farm or in the field is avoided.

### Precise and Reliable

The Kverneland iXflow-E® electrical ball valve features a robust, electric and stainless steel ball valve, that is very reliable compared to solenoid or plunger valves. Without any wearing parts and the self-cleaning-effect the ball valve stands out in reliability. The ball valve temporarily utilises an extremely low amount of power and provides a high capacity flow in a compact valve design. Kverneland's electrical valves are CANbus/ISOBUS compatible for Section Control (nozzle by nozzle) or for spot spraying.



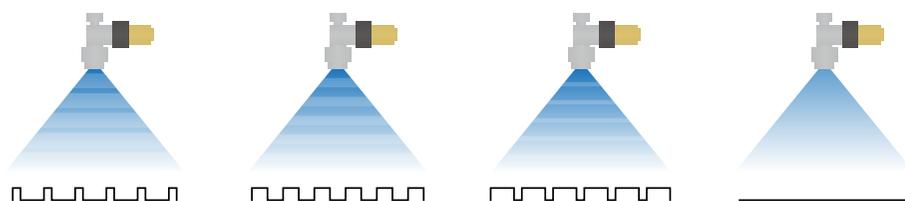
# iXflowe

Easily shut on and off nozzles  
by a push of a button

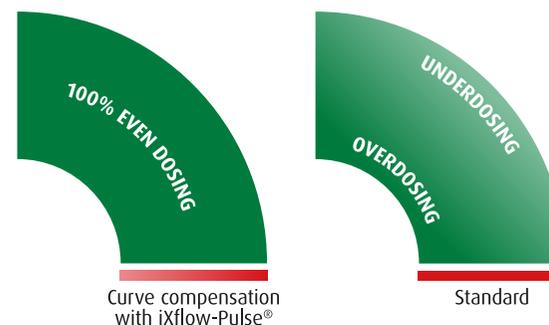
# IXFLOW-PULSE®

## THE NEXT LEVEL IN PRECISION SPRAYING

The Kverneland iXflow-Pulse® - Pulse Width Modulation - system is available on the iXter B mounted sprayer range in combination with the HC 18-30 metre spray boom range. iXflow-Pulse® creates the most effective agronomical spraying due to an optimal balance between droplet size, crop coverage and water use, also under changing conditions of speed or application rate.



*Equal application rate in every boom segment*



### Optimal Droplet Size for Maximum Efficiency

An important factor in precision spraying is to keep a stable nozzle pressure and to find the best balance between droplet size, crop coverage and drift. This results in the optimal droplet size spectrum to reach the desired crop coverage, independent from changing speed or application rate. iXflow-Pulse® is creating a flexible and fast adjustable opening and closing time of the nozzles. When driving faster the opening time will become longer. When driving slower the opening time gets shorter, but by using iXflow-Pulse® the right droplet size will be kept.

### Stable Spraying Pressure

iXflow-Pulse® takes care of a stable spraying pressure over a wide speed range during variation in application rate. For example, during speed variation at start/stop on headlands or slowing down during turning or when driving and spraying up or down the hill. During spraying in curves there is often overdosing or underdosing. With iXflow-Pulse® there is a different output from the inner to the outer boom side, dependent on the boom speed, resulting in an equal application rate in every boom segment. Another benefit is that the pressure and flow can be adjusted separately, and during operation. One nozzle can be used for a wider range of applications, which means less changes of nozzles required, saving time and increasing efficiency. There is also the ability to use lower pressure with the same nozzle in challenging or windy conditions.

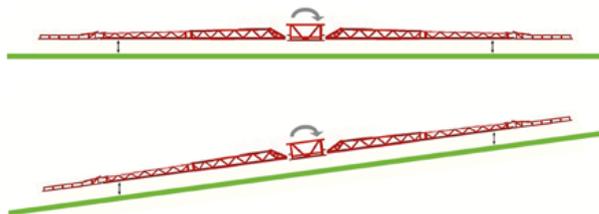
# BOOM GUIDE

## MAINTAIN YOUR BOOM HEIGHT!

Boom Guide ensures a perfect spraying pattern for high precision spraying. The Boom Guide sensor technology provides perfect guidance in many different and challenging field conditions, making it easier for the operator to stay focused on the spraying job.

### Boom Guide ComfortActive

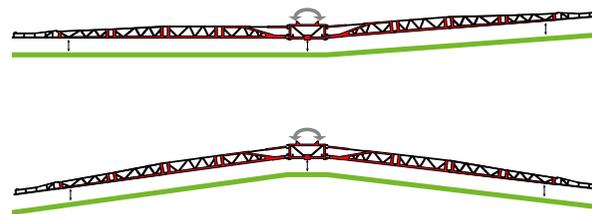
Automatic boom height control for the complete boom width. Suitable for flat and mild sloped field conditions. Proportional steering of the central slope correction cylinder is done by two ultrasonic sensors to get the best spraying result.



Boom Guide ComfortActive

### Boom Guide Pro

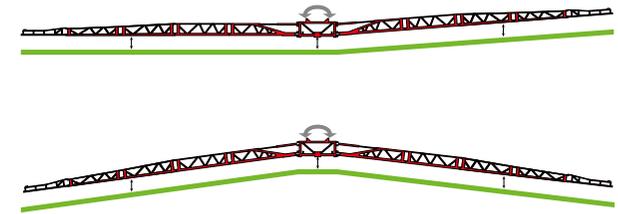
The system uses three ultrasonic sensors to control left- and right-hand boom wings independently for ultimate guidance in the most challenging field conditions. It can deliver positive and negative lateral movement on each side of the boom to follow the contours in every condition!



Boom Guide Pro

### Boom Guide ProActive (3 sensors)

This advanced system proactively reacts on boom movement and controls both the central and independent slope correction, as well as boom lift functions to guide the boom over the crop canopy, soil surface or a combination of both modes.



Boom Guide ProActive



### Boom Guide ProActive (5/3 sensors)

Boom Guide ProActive can be equipped with 5 ultrasonic sensors for the full spray boom width and only be using 3 sensors when the boom is symmetrically reduced for a smaller working width.



Boom Guide ProActive 5 sensors

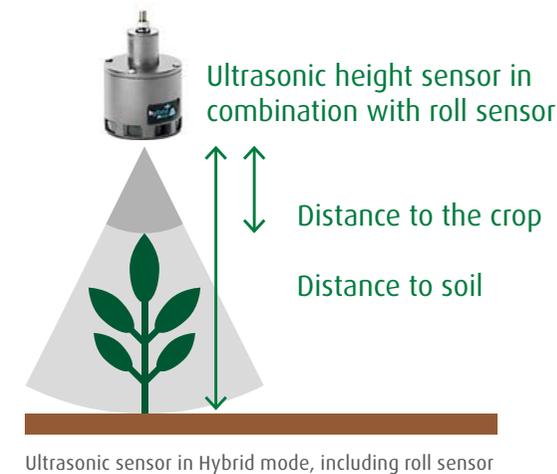


Boom Guide ProActive using 3 sensors for a symmetrically reduced working width

### Sensor Modes

The Boom Guide system can be adapted to any field conditions, because three different sensor modes can be used:

- Soil mode: the sensors only see the bottom of the field. For example, a large weed has not any influence on the boom height. The soil remains representative.
- Crop mode: the sensors only see the crop. The crop height is measured by the height of the spray boom. In a closed crop the sensors continue to automatically follow the crop.
- Hybrid mode: the sensors see the crop and the soil. The sensors follow the soil surface and the crop. When the crop is uneven, a uniform crop is virtually determined. This mode can especially be used in unclosed or uneven crops.



# GEOCONTROL®

## BRINGS CLEAR BENEFITS

### GEOCONTROL®

Realising the full potential of farming is about growing and developing your business. When there is work to be done, you need the optimal setup and solutions to work as efficiently as possible. GEOCONTROL®, an advanced precision farming application within the Tellus 700 and Tellus 1200 helps you to control all ISOBUS compatible machines. Combined with a GPS receiver it fulfills the future needs towards an easy and profitable way of working.

### Section Control (SC)

The Section Control makes sure that the implement's sections will be switched on and off automatically. This avoids undesired overlap and operation outside the field border.

- Shut off sections when driving over previously covered areas
- Shut off sections when driving outside field boundary
- Shut off sections when driving backwards
- Headland control
- Manual override possibility

### Variable Rate (VR)

The Variable Rate will automatically adjust the rate of your machine based on Variable Rate maps. It enables you to vary the rate of, for example, seeds, fertiliser and chemicals.

- Forward place specific rate from task to machine
- Record applied rate from machine to task

### Documentation

Save all operational job data and field maps for exchange via USB to farm management information systems or the Kverneland FarmCentre telematics solution.

### Manual Guidance

Advised driving direction using guidance lines in the field and on headlands.

### Smart Field Boundary Recording

Independent from the working width, even without an implement connected.

### Boundary Shrinking

Create inner boundaries by setting the desired width of the headland.

### Clear Benefits

- Section control – control up to 48 sections and 8 rates (Tellus 700) or 255 sections and 24 rates (Tellus 1200) automatically
- Variable rate control – always use the exact amount of fertiliser, chemicals or seeds
- Manual guidance – stay within your guidance lines in the field
- Reports – with IsoMatch FarmCentre you can download reports remotely



# GEOCONTROL®

## EASILY INTEGRATED SET-UP



### Setup and full operation of a Kverneland ISOBUS implement is conveniently controlled by one single application: GEOCONTROL®

Precision implement control and tractor steering on one screen. Recording of (pre-recorded) straight or curved guidance lines can be done simultaneously with the field boundary registration. Multiple lines can be stored per field. Specific configurations and settings for a tractor – implement combination can be saved in tractor profiles, which can be recalled at any time. Reduce overlap and save up to 15% on input costs with GEOCONTROL®.



### iM FARMING Calculator

How much can you save with our precision farming offering?

With a Tellus 700 or Tellus 1200 and a GPS, it is possible to accurately seed, spread and spray without any overlap. The iM FARMING Calculator calculates the cost saving by using these GPS functionalities as accurately as possible. After filling in the required data, the calculator clearly shows what you can save in terms of money.

The amount of fertiliser saved depends on the size and shape of the field and may amount to more than 15%. The iM FARMING Calculator can easily be used on a laptop, phone or tablet and you can easily download it from the Stores or find it here:

<http://imcalculator.kvernelandgroup.com>



## TECHNICAL DATA

Model	iXter A			iXter B			
<b>1. Tank Size</b>							
Nominal tank capacity (l)	800	1000	1200	1000	1300	1600	1800
Maximum tank capacity (l)	965	1185	1395	1100	1450	1800	2000
Clean water tank (l)	130	130	130	180	180	180	180
Hand wash tank (l)	18	18	18	18	18	18	18
Chemical inductor (l)	30	30	30	30	30	30	30
<b>2. Empty Weight (Total Machine Incl. Boom)</b>							
... with HOSA 12 m	889 - 913 kg			-			
... with HOSA 15 m	952 - 976 kg			1048 - 1082 kg			
... with HC 18 m	1207 - 1231 kg			1371 - 1405 kg			
... with HC 20 m	1287 - 1311 kg			1415 - 1449 kg			
... with HC 21 m	1293 - 1317 kg			1421 - 1455 kg			
... with HC 24 m	-			1459 - 1493 kg			
... with HC 27 m	-			1613 - 1647 kg			
... with HC 28 m	-			1632 - 1666 kg			
... with HC 30 m	-			1651 - 1685 kg			
<b>3. Measurements</b>							
Width (total machine incl. boom)	HOSA = 2.35 m / HC = 2.50 m			HOSA + HC 18-30 = 2.50 m			
Height (total machine incl. boom)	HOSA 12 = 2.56 m / HOSA 15 = 2.85 m / HC = 3.30 m			HOSA = 2.85 m / HC = 3.30 m			
Length (total machine incl. boom)	HOSA = 1.36 m / HC 18 m = 1.45 m / HC 20-21 = 1.65 m			HOSA + HC 18 m = 1.45 m / HC 20-24 m = 1.65 m / HC 27-30 m = 2.10 m			
<b>4. Spray Pumps</b>							
Piston-diaphragm pumps (l/min)	100, 150, 200			150, 200, 260			
<b>5. Electronics</b>							
Tellus 700	○			○			
Tellus 1200	○			○			
Kverneland Grip	○			○			
Kverneland Global 3	○			○			
Kverneland Eye	○			○			
Kverneland FarmCentre	○			○			
TwinFill automatic filling program	-			○ (only in combination with iXclean Pro)			
Kverneland Sync	●			●			

● = Standard Equipment    ○ = Option

Model	iXter A	iXter B
<b>6. Other Basics</b>		
PTO shaft 6 splines, Chemical inductor, frame stand, clean water tank, hand wash tank, manometer, mechanical level indicator, tank inside cleaner	●	●
<b>7. Options (Factory Fitted)</b>		
Electrical level indicator	○	○
iXclean® Basic	●	●
iXclean® Plus	○	-
iXclean® Comfort (incl. electrical level indicator)	-	○
iXclean® Pro (incl. electrical level indicator)	-	○
Boom Guide ComfortActive	-	○
Boom Guide Pro	-	○
Boom Guide ProActive - 3 sensors (HC 24-30 m)	-	○
Boom Guide ProActive - 5/3 sensors (HC 27-30 m)	-	○
Load sensing	-	○
ErgoDrive headland management system	○	○ (HOSA/HC18-21m) ● (HC24-30m)
DAT Ecopatch camera system	○	○
<b>8. Accessories (Also Loose Available)</b>		
High pressure agitation system	-	○
Protection curtain	○	○
Hydrant filling connection 1" or 2"	○	○
GEKA filling adapter 1" for hydrant filling	○	-
Filling hose 8 m 1,5" (for sucking from external)	○	○
Drain set	○	●
CAMlock adapter 1,5" - 2"	○	-
Non return valve 1,5" or 2" for filling hose	○	○
Float for filling hose	○	○
Clean water tank filling connection 1" at Easy Set valve panel	-	○
Outside cleaner	○	○
Spray gun	-	○
Urea sieve	○	○
Pump out connection	○	○
Parking frame	○	○
Tip end protection for HC boom	○	○
LED boom lights	○	○
Road lights	○	○
Second quick hitch	-	○

● = Standard Equipment   ○ = Option



## TECHNICAL DATA

Model	iXter A		iXter B		
	HOSA	HC	HOSA	HC	HC
<b>Spray Booms</b>					
<b>1. Basic Boom Functionality</b>					
Working width (maximum)	12 / 15 m	18 / 20 / 21 m	15 m	18 / 20 / 21	24 / 27 / 28 / 30 m
Material	Aluminium	Steel	Aluminium	Steel	Steel
Transport position	Vertical	Vertical	Vertical	Vertical	Vertical
Folding drive	Hydraulically	Hydraulically	Hydraulically	Hydraulically	Hydraulically
<b>2. Spray Sections</b>					
Central sections (standard)	5 or 7	5, 7 or 9	5 or 7	5, 7 or 9	7, 9 or 11
iXflow-E® high pressure recirculation system with electric individual nozzle control (free programmable sections)	-	-	-	○	○
iXflow-Pulse® PWM system	-	-	-	○	○
IXcurve curve compensation (standard for iXflow-Pulse®)	-	-	-	○	○
<b>3. Spray Jets</b>					
Monojets	○	○	○	○	○
Trijets	○	○	○	○	○
Pentajets	-	○	-	○	○
Pentajet-Electric	-	-	-	○	○
Trijet-iXflow-Pulse®	-	-	-	○	○
<b>4. Accessories (Also Loose Available)</b>					
Electrical or manual border or verge nozzle	○	○	○	○	○
<b>5. Hydraulic Packages</b>					
Hydraulic package HOSA Comfort 3 - oil circulation for: 1. High lift 2. Hydraulic boom locking 3. Independent folding left and right for one side spraying 4. Symmetrical and a-symmetrical folding spray boom 5. Slope correction	●		●		
Hydraulic package HC Comfort 1 - oil circulation for: 1. Boom lift 2. Hydraulic boom locking 3. Symmetric folding spray boom 4. Slope correction		●		●	● (HC 24m) ○ (HC 27-30m)
Hydraulic package HC Comfort 2 - oil circulation for: 1. Boom lift 2. Hydraulic boom locking 3. Independent slope correction (L/R) 4. Independent folding left and right for one side spraying 5. Symmetrical and a-symmetrical folding spray boom 6. Slope correction			○	○	● (HC 27-30m) ○ (HC 24m)

● = Standard Equipment    ○ = Option

Model	iXtra	
	iXtra 1100 Comfort	iXtra 1100 Pro
<b>Kverneland iXtra Front Tank</b>		
<b>1. Front Tank Models</b>		
Nominal tank capacity (l)	1100	1100
Maximum tank capacity (l)	1250	1250
Clean water tank capacity (l)	2x65	2x65
Empty weight (kg)	221	223
Front linkage	Cat II	Cat II
12V electrical pump capacity (l/min)	25 (for cleaning & agitation)	25 (for cleaning & agitation)
Automatic agitation stop	●	●
2 rotating cleaning nozzles	●	●
2 injector nozzles for agitation	●	●
Autonomous suction filter	●	●
TwinFill automatic filling program	-	● (only in combination with iXclean Pro)
Level indicator	Mechanical	Electrical
Control panel	Manual	Electrical (ISOBUS)
<b>2. Accessories (Also Loose Available)</b>		
Traffic lights	○	○
Transport wheels	○	○
Hand wash tank	○	○
Kverneland Eye (camera)	○	○
<b>3. Compatibility on iXter B with Adaptation Set</b>		
iXclean® Comfort	○	○
iXclean® Pro	-	○

● = Standard Equipment    ○ = Option

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