Ikarus S28 - S38 HSS and HC Boom



Stay on Track with Ikarus S



Ikarus S - Evolution for Simplicity!

Ikarus S is the evolution of the well known and proven Ikarus technology. The whole spraying circuit and operation centre has been completely redesigned for easy operation and user friendliness. Ikarus S is also suitable for exclusive high-tech features including ISOBUS communication systems.



Vicon Ikarus S

Make Your Choice!



Ikarus S28 with HSS 27m horizontal folding Steel-Liner boom

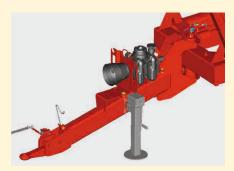
Ikarus S38 with HC 24m vertical folding Steel-Liner boom

The Ikarus S is available in 2800 or 3800 litre tank with HSS 18-20-21-24-27-28-30 horizontal folding steel-liner booms or with HC 18-20-21-24 vertical folding steel-liner booms.



Easy hitching, easy following

Top linkage and Autotrac track following system



Low linkage and Autotrac track following system



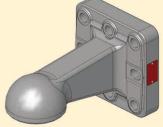
Perfect integration of the pump inside the drawbar

- PTO shaft is always aligned with the pump and tractor shaft
- Easy service access to the pump
- Perfect hose fitting and big ground clearance

Drawbar solutions

- Hitch or top linkage fixed
- Auto steering track following system (oil circuit required)

Towing eye Ø 40/50mm or ball coupling Ø 80mm available.









Sliding axle with suspension

Fixed axle with hydraulic brakes

Sliding axle with air brakes

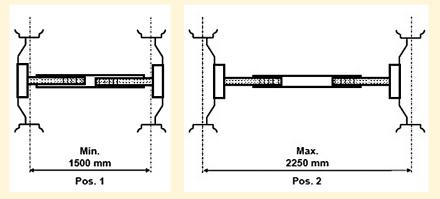
Axle options to suit all individual requirements

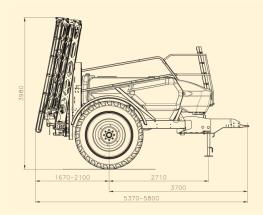
- Fixed axle 1.50 1.80m without brakes. Track adjustment by wheel rim position.
- Fixed axle 1.50 1.80m with brakes (up to 25 km/h). Track adjustment by wheel rim position.
- Sliding axle 1.50* 2.25m with brakes (up to 40 km/h).
- Sliding axle 1.50* 2.25m with suspension and brakes (up to 40 km/h).
- All brake axles have a mechanical hand brake and can receive hydraulic brakes or pneumatic brakes as an option.

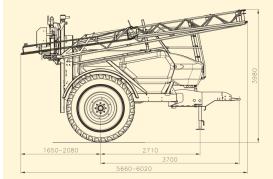
*1.60m in combination with suspended axle and air brakes

Axle width (mm)	Rim turned to inner side (Pos. 1)	Rim turned to outside (Pos. 2)
1650	1500	1800
1750	1600	1900
1850	1700	2000
1950	1800	2100
2100	1950	2250

Track width adjustment







Extremely compact design

- Very short turning radius at headlands
- Precise track following on tight turns
- Large capacity, 3800-litre tank in a
- compact chassis

Leads You in the Right Direction





Fully Integrated concept:

Nobody would expect all these functions to fall so easily to hand. Better protection and integration is simply not possible. Ikarus S is setting a new standard.



Four-Position suction valve:

Position: main tank, clean water tank, suction hose, additional functions.

Quick filling*: higher filling speed.

*Not in combination with iXclean Comfort

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

Four-Position pressure valve:

Position: filling main tank, spraying, turbo agitation, additional functions.

Three extra pressure valves:

Functions: tank cleaning, external cleaning, pump out connection.





Easy Access

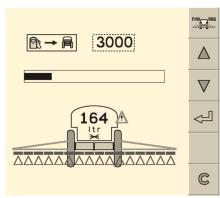
Ikarus S for Easy Access





Electrical level indicator The optional electrical level indicator provides the actual tank volume to the spraying computer, as well as via the external display on the valve panel.

The door gives easy access to the valve panel and operator functions. Special attention has been put on service friendliness by easy access and quick-fit hose connections. The Easy Set valve panel makes the operator's life easy: with only one four-way suction valve you can select the water flow, and with the other four-way pressure valve you select the action.



iXclean Comfort filling screen Focus II/ IsoMatch Tellus (coloured)



Ikarus S offers a generous and safe platform giving access to the man hole by means of a sliding aluminium ladder.

iXclean Comfort and iXclean Pro

Every Litre Counts



Options

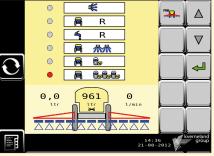
- Hydrant fill connection with anti- return valve
- Pump out connection for liquid fertiliser



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 or even during an unexpected weather break, without having to leave the cab! ENFO is included as part of the standard

specification of all Vicon sprayers.



iXIclean Pro screen Focus II/IsoMatch Tellus (coloured)



iXclean Pro

Advanced solutions come from iXclean Pro, with fully automatic, electric valve management on ISOBUS sprayers. It means all functions can be controlled from the cab. Switching between filling, agitation, spraying, diluting, priming, rinsing and tank cleaning, is extremely easy: just push the button! In addition to auto filling, iXclean Pro offers also a fully automatic multi-step rinsing and cleaning program for the entire sprayer. Pushing one button a comprehensive cleaning process including all lines too starts, that takes just a few minutes and uses minimal amounts of clean water. It is so thorough, that residue levels after automated cleaning, are below 1%. iXclean Pro for filling or cleaning: making every litre count!

Easy Operation Filling, Agitating and Cleaning is Easy and Safe



Chemicals are mixed safely by the chemical inductor, equipped with cleaning system and waterproof cover. The standard Ikarus S turbo agitation system with injector nozzles guarantees powerful agitation which you can activate during and after the filling process.



After spraying, the aggressive tank cleaning nozzles are cleaning the inner-side of the tank. The float has a direct connection to the scale and optional to the level indicator for maximum safety and precision. Two generous-sized access points allow you to get inside the tank with a high pressure cleaner at the front - and backside if needed!



External washing (optional):

A cleaning kit with 15 meter hose and a brush, connected to the pressure side of the pump, allows pre-cleaning of the sprayer in the field, using clean water from the 300 litre clean water tank. There is always enough water available for cleaning due to the innovative water saving ENFO rinsing system.



The new silent piston diaphragm pumps:

Pumps are available with capacities of 200, 250 and 400 l/min (2x200).

- Continuous pressure of 15 bar, maximum 20 bar. • Liquid fertiliser resistant
- Compact, small residual quantities of chemicals
- Linear steady state characteristics for precise regulation



FMC, Starguide III

Make Spraying Easy

Starguide III: Automatic GPS section control and guidance by D-GPS

Those who have used it will never go back. Starguide III will change your spraying days forever: spray around the headland and the Starguide III will control the spray sections automatically as you cover the remainder of the field.

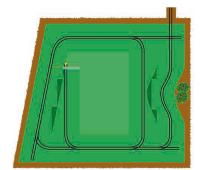
The Starguide III enables you:

- Spraying in the dark
- Accurate spraying by full overlap control
- Increased operator comfort
- Cost savings by reduced overlap

In addition the Starguide III also includes the following features:

- Easy to operate, intuitive 5.7" colour touch screen
- Integral light bar guidance system

- · Field view with covered areas and overlap
- Single and double overlap in different colours
- GPS status warnings
- USB slot for data export in different formats



Starguide III is easy to operate: after spraying a field boundary the overlap and headland management are controlled for the rest of the field!



FlowMate Control FMC:

- Basic spray computer
- Extremely simple to operate
- Very compact by integration of all spraying and hydraulic functions
- Controlling the ENFO functions
- Integrated nozzle advice
- Memory for 25 different fields

Focus II One for All!



Switchbox

Operates spray and boom functions by intuitive layout for maximum comfort and short reaction times.

Focus II

G

Focus II is the professional Kverneland Group Terminal which fits to our sprayers, spreaders, seeders, precision seeders, loader wagons and balers for example.

- Large clear digital display
- All relevant parameters visible at a glance
- Memory for 40 different fields
- RS232 serial port to connect external sources



Serial port to connect external devices

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IsoMatch Tellus



The Next Generation Terminal!



IsoMatch Tellus is your powerful platform for precision farming applications and future growth.

- Two ISOBUS interface screens
- Large 12.1" colour touch screen
- Intuitive operation
- Basic DOC registration program to save operational information directly to USB





Switchbox

Operates spray and boom functions by intuitive layout for maximum comfort and short reaction times.

The IsoMatch Tellus is the first Universal Terminal with the capability to view and operate 2 different ISOBUS interfaces at once. This allows direct control of 2 implements at the same time, use GEOcontrol or display a camera view, without switching screens.

- Four USB slots for quick data exchange (e.g. ISO-XML field maps, PDF), wireless USB stick or USB to serial cable for additional sensors
- RS232 connection for GPS receivers or sensors
- Internet connection via a wireless USB stick or router
- · Integrated web browser

IsoMatch GEOcontrol Brings Clear Benefits

IsoMatch GEOcontrol is an additional software application within the IsoMatch Tellus that helps you to control all ISOBUS compatible Kverneland Group machines such as sprayers, spreaders and seeders! Combined with a GPS receiver it fulfils the future needs in terms of easy, smart and efficient farming. Easy operation and driver comfort due to the automatic implement control. You can stay focused on driving, while IsoMatch GEOcontrol lightens the workload. Reduced overlap and redundant tracks results in increased quality of work and efficiency by cost savings in time, fuel, fertiliser, pesticides and seeds.

Section control

Automatic switching on and off implement sections on headlands, boundaries and already covered areas to minimise overlap.

Variable rate control

Automatically adjusts the implement application rate based on input from the field prescription or crop sensors.

Documentation

Saves all operational job data and field maps for exchange via USB to farm management information systems.

Manual guidance

- Advised driving position using guidance lines (straight, curved or combined) in the field and on headlands
- Extendable using the optional IsoMatch InLine light bar, to place guidance in line of sight
- Smart boundary recording: independent from the working width, even without any implement corrected
- Boundary shrinking: create new inner boundaries by setting the desired width of the headland
- Manual guidance for all operations, includes non-electric or non-ISOBUS implements. e.g. cultivators, mowers, tedders etc.
- Headland control: create headland boundary and headland guidance lines.



ISOMATCH GEOcontrol

- Easy and comfort of operation, due to not having to manually switch on or off sections or change the application rate. You can focus 100% on the driving in the field.
- More efficient work and avoiding overlap leads to cost savings of 5-10% on e.g. fertiliser, pesticides and seed. Better growing conditions and the increased yield.
- With IsoMatch GEOcontrol, working at night time becomes very easy. IsoMatch GEO-control reduces the workload considerably.

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Boom Guide

Make Your Life Easy





Maintain your boom height!

ISO Boom Guide is our automatic boom height control system that helps you to maintain your chosen spraying height. Ultrasonic sensors control the sprayer's hydraulics to guide the boom over the crop canopy or soil surface. This unique sensor technology provides excellent guidance in many different and challenging field conditions, making it easier for the operator to stay focussed on spraying.

Boom Guide Comfort

The two ultrasonic sensors on the boom can control the spray height via the central slope correction and boom lift functions. This cost-effective system is suited to gentle slopes, uneven crop conditions and lower driving speeds.

Boom Guide Pro

This advanced system uses three ultrasonic sensors to control left- and right-hand boom sections independently for the 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!

Advantages of Boom Guide:

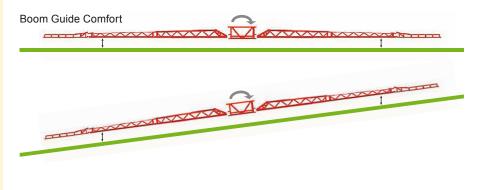
- Less drift: more constant and correct nozzle height
- Increased capacity: allows faster spraying speeds, also in the dark
- Driver comfort: less fatigue with easier focus on spraying
- Integrated ErgoDrive functionality: automatic lifting and lowering on headland turns
- Crop and Soil mode selection: closely follow the top of a closed canopy or of follow the soil surface in an uneven, open canopy or row crop situation
- Safe transport: ultrasonic sensor automatically fold with boom in its transport position
- ISOBUS compatible: easy plug and play operation with ISOBUS compatible (tractor) terminals

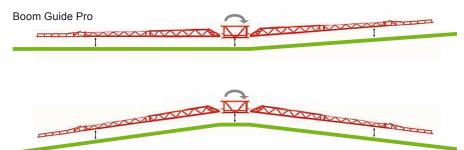


Joystick:

Joystick option for relaxed spraying:

- In combination with IsoMatch Tellus (not in combination with FMC or Focus II)
- Eight buttons at three levels allow to control 24 functions





ENFO Inside

We Care about Your Crop!

ENvironmental FOcus: ENFO priming and rinsing system is standard on all our spray computers.

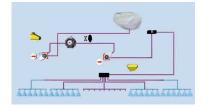
This smart technology optimises filling and cleaning of the spray lines. Accurate application, no waste of chemicals and saving water are the benefits for you and your environment.







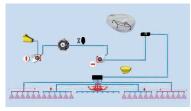
spray lines are filled with chemicals exactly up to the nozzle by automatic section shut off. This means no waste of chemicals and accurate application from the start of spraying.





Automatic Rinsing of spray lines: after finishing or interrupti-

on, pesticides are automatically flushed out of the spray lines. This means using up to the last litre of mixture and rinsing the spray lines with a minimum of clean water consumption.



Sprayer Test Hall for Top Quality!



A highly qualified team of sprayer specialists tests every lkarus S, and of course all other sprayers leaving the factory, in our own test hall to meet the latest environmental regulations. Our testers are certified for all of the following test procedures.





NSTS: National Sprayer Testing Scheme is the relevant authority in UK for sprayer homologation.



SKL: Official homologation for Benelux, delivered by the SKL foundation for agricultural machinery in Wageningen.





BBA: Official homologation for Germany, delivered by the Federal Biological Research Centre of Germany, now JKI Institute.

NY: Official homologation for Norway, delivered by the Norwegian Food and Safety Authority.



ENTAM:

Homologation is in process. ENTAM is the European Network for

Testing Agricultural Machines. JKI of Germany and Cemagref of France are among others, official members of ENTAM.

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HSS Boom

The Professional Side Folding Boom





Boom features:

- Professional hose guide and a cover for the valves
- Different hydraulic packages available
- Balancing system adjustable for flatland or hilly conditions
- Three-Part-Compact-Side-Folding spray booms (27/28/30m)



Safety tip-end: Simple and reliable, stable during spraying.



All HSS booms have a transport width of 2.50m and the overall height is below 4m. Even the 30m version fits in these transport dimensions. Narrow roads, hedges and trees do not cause trouble. Peace of mind and safety for the driver are ensured.







Spraying width for different folding principles						
HSS boom (m)	# of sections	Symmetric folding (m)	Asymmetric folding (m)			
18	5	12	15			
20	5/7	12	16			
21	5/7	12	16.5			
24	7/9	12	18			
27	7	21-12	24			
27	9	21-9	24			
28	7	21-12	24,5			
28	9	21-9	24,5			
30	9	21-12	25,5			
00	9	21.12	20,0			

Hydraulic cylinders folded in at work for maximum strength.

Mechanical locking by smart mechanism for total rigidity. All parts can be adjusted for optimal performance during the whole lifetime of the boom.

HSS boom (m)	Sections	Section deviation
18	5	6-9-6-9-6
18	7	6-5-5-4-5-5-6
20	5	8-8-8-8-8
20	7	5-6-6-6-6-5
21	5	9-8-8-8-9
21	7	6-6-6-6-6-6
24	7	6-6-9-6-9-6-6
24	9	4-4-4-9-6-9-4-4-4
27	7	6-9-9-6-9-9-6
27	9	6-6-6-6-6-6-6-6
28	7	7-9-9-6-9-9-7
28	9	7-6-6-6-6-6-6-7
30	9	6-3-9-9-6-9-9-3-6

				~~~~~		
6	9	9	6	9	9	6
HSS 27m 7 se	ections					
PL	~~~~~					
6	6	6 6	6	6	6 6	6
HSS 27m 9 s	ections					
CTTTT R	~~~~~					
			1			
7	9	9	6	9	9	7
HSS 28m 7 s	ections					
	~~~~~					
		****			· ···· · · · · · · · · · · · · · · · ·	



Manual or electric border nozzles are available.

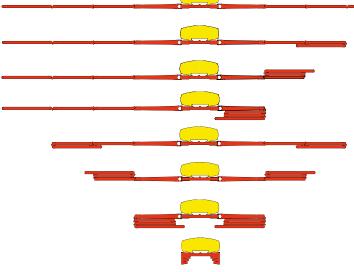


							VVVV	N
7	6	6	6	6	6	6	6	7
HSS 28m 9 s	ections							

6 3 9 9 6 9 9 3 6 HSS 30m 9 sections

HC Boom Multiple Folding Vertical Booms for All Circumstances

The HC boom range is tried and tested. Extremely strong and reliable.



Multiple folding possibilities: Symmetrical folding, asymmetric and one side spraying is possible.



Safe on the road: All HC booms have a transport width of 2.5m and the height is below 4m.





The boom has been designed for 100% integration of spray lines and nozzles, for light weight and maximum strength.

Swing compensation: A stable pattern at high speed.

HC 18m 5 sections
HC 18m 7 sections
HC 20m 5 sections
HC 20m 7 sections v1
HC 20m 7 sections v2
HC 20m 9 sections
HC 21m 5 sections
HC 21m 7 sections v1
HC 21m 9 sections
HC 24m 7 sections
HC 24m 9 sections

Vicon Ikarus S

Technical Specifications

Ikarus S	S28	\$38
. Tank size		
Nominal tank capacity (I)	2800	3800
laximum main tank capacity (I)	3010	4000
lean water tank with level indicator (I)	300	300
and wash tank (I)	20	20
. Empty weight (total machine incl. boom)	20	20
	2865kg	2055kg
with HSS 18m	2865kg	3055kg
with HSS 20m	2910kg	3100kg
with HSS 21m	2920kg	3110kg
with HSS 24m	2960kg	3150kg
with HSS 27m	3030kg	3220kg
with HSS 28m	3040kg	3230kg
with HSS 30m	3070kg	3260kg
with HC 18m	3090kg	3280kg
. with HC 20m	3140kg	3330kg
with HC 21m	3160kg	3350kg
with HC 24m	3190kg	3380kg
. Measurements	e reenig	occong
Vidth (total machine incl. boom)	HSS 18-30m = 2.57m - H0	
leight (total machine incl. boom)	HSS 18-30m = 3.98m - H0	C 18-24m = 3.98m
ength (total machine incl. boom)	HSS18-21/27-28-30m = 5.66m - HSS24 HC20m = 5.70m - HC21m = 5.	
. Drawbar		
Hitch or Top linkage fixed	▲ ¹	
	▲ ▲ ²	
litch or Top linkage with auto steering (oil circuit needed)		
Veight set for hitch or top linkage (HC boom only)	▲ ¹	
5. Pulling eye		
Pulling eye Ø 40mm	▲ ¹	
Pulling eye Ø 50mm	▲ ²	
Ball coupling Ø 80mm	▲ ³	
	_	
. Wheel axle		
Fixed axle 1.50 - 1.80m without brake	▲ ¹	
Fixed axle 1.50 - 1.80m with brake (up to 25km/h)	▲ ²	
Sliding axle 1.50 - 2.25m with brake (up to 40km/h)	▲ ³	
Sliding axle 1.50 - 2.25m with suspension and brake (up to 40km/h)	▲ ⁴	
Hydraulic or air brake	•	
7. Pumps		
Piston-diaphragm pump 200/250/400 I/min	▲ 1	
3. Electronics		
3.1 Basic spray computer		
FMC 5, 7 or 9 sections, 2-way valves, for pre select hydraulics (incl. FMC control box)	▲ ¹	
FMC 5, 7 or 9 sections, 2-way valves, for oil circuit hydraulics (incl. FMC control box)	▲ ²	
3.2 ISOBUS electronics		
FMA 5, 7 or 9 sections, 2-way valves, for oil circuit hydraulics (excl. control box)	▲ ³	
3.2.1 Controls for ISOBUS electronics		
Switch box	▲ ¹	
Focus II and Switch box	▲ ²	
TH (connection cable tractor side)	•	
3.2.2 ISOBUS controls for ISOBUS electronics		
Switch box	▲ 1	
soMatch Tellus and Switch box	▲ ²	
loystick for IsoMatch Tellus	-	
0. Other basics		
Nide angle PTO shaft 6 splines, manual parking jack, high pressure agitation system	standard	1
IO. Options (factory fitted)		
Electrical level indicator	•	
Xclean Comfort (incl. electrical level indicator)	•	
Xclean Pro (incl. electrical level indicator)	•	
Quick filling (not in combination with iXclean Comfort)	•	
Boom Guide Comfort or Pro	•	
only possible in combination with FMA electronics and IsoMatch Tellus)		
1. Accessories (also loose available)		
targuide III	•	
Chemical inductor	-	
/lud guards (400/550/700 mm)		
	_	
lydrant filling		
Suction hose 3"	-	
lanual or electric border/verge nozzle	-	
Dutside cleaning set		
Clean cloth locker		
Jrea sieve		
Pump out connection	•	
team lights and retation because for LICC beam		
Boom lights and rotating beacon for HSS boom		



The steel parts of our sprayers are protected by a Duracoat powder paint coating. The result is a sealed extremely

hard wearing and attractive finish.

HC HSS Booms 1. Basic boom functionality 18 / 20 / 21 / 24 / 27 / 28 / 30 18 / 20 / 21 / 24m Working width Material Steel Steel (compact horizontal folding) vertical folding Folding principle 2. Spray sections 5/5/5/7/7/7/9 5/7/7/7 Standard 7/9/9/9 Alternative 1 (two sections more than standard) 7/7/7/9/9/9/9 Alternative 2 (two sections less than standard) - / - / - / - / - / - / --/5/5/-3. Spray jets Monojet **A**1 **A**1 Trijet **A**² **▲**² Pentajet 4 4. Transport height Transport height in average (dependent on wheels) 3.70m 3.90m 5. Boom hydraulics Hydro-package HSS 18-24 Basic 1 contains pre-select for: -symmetric boom reduction -slope correction *1SA tractor valve for highlift and 1DA tractor valve for boom functions needed ▲1 Requires: 3 valves hydraulic block Hydro-package HSS 18-24 Comfort 1 contains oil circuit for: -lift -symmetric boom reduction -slope correction *1DA tractor valve needed ▲² Requires: 5 valves hydraulic block Hydro-package HSS 18-24 Comfort 2 contains oil circuit for: -lift -symmetric and asymmetric boom reduction -hydraulic locking -slope correction *1DA tractor valve needed Requires: 6 valves hydraulic block Hydro-package HSS 18-24 Comfort 3 contains oil circuit for: -lift -symmetric and asymmetric boom reduction -hydraulic locking -slope corrections -independent slope correction *1DA tractor valve needed A⁴ Requires: 8 valves hydraulic block $\label{eq:hydro-package} HSS \ 27-30 \ Basic \ 1 \ contains \ pre-select \ for: \ -symmetric \ boom \ reduction \ (1st + 2nd + tipend) \ -slope \ correction \ ^1SA \ tractor \ valve \ for \ highlift \ and \ 1DA \ tractor \ valve \ for \ boom \ functions \ needed$ ▲1 Requires: 5 valves hydraulic block Hydro-package HSS 27-30 Comfort 1 contains oil circuit for: -lift -symmetric boom reduction (1st + 2nd + tipend) -slope correction *1DA tractor valve need ▲² Requires: 5 valves hydraulic block Hydro-package HSS 27-30 Comfort 2 contains oil circuit for: -lift -symmetric boom reduction -asymmetric boom reduction (tipends only) -hydraulic locking -slope correction *1DA tractor valve need ▲³ Requires: 8 valves hydraulic block Hydro-package HSS 27-30 Comfort 3 contains oil circuit for: -lift -symmetric boom reduction ▲⁴ Requires: 10 valves hydraulic block -asymmetric boom reduction (tipen correction *1DA tractor valve need oom reduction (tipends only) -hydraulic locking -slope correction -independent slope ▲1 Requires: 8 valves hydraulic block

Hydro-package HC 18-24 Comfort 2 contains oil circuit for: -lift -slope correction -independent slope correction -hydraulic locking -asymmetric boom reduction (left & right) *1DA tractor valve need

▲1 - ▲... = one of these choices must be selected • = option (factory fitted), free to select ■ = Accessory, loose available

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¹⁶





Kverneland Group

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

Strong focus on innovation allows us to provide a unique and broad product range with high quality. Kverneland Group offers an extensive package aimed at the professional farming community, covering the areas of soil preparation, seeding, forage and bale equipment, spreading, spraying and electronic solutions for agricultural tractors and machinery.





Original Spare Parts

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

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

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