APPLICATION TECHNOLOGY FOR LIQUIDS SPRAYHUB AND SPRAYKIT





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LEGAL INFORMATION

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A STRONG COMBINED FORCE

Flexible in every environment! The LEMKEN **SprayHub** is not only a transport accessory for liquids such as crop care products, liquid fertiliser and micronutrients, but also offers you the functions and equipment options of a modern crop care sprayer.

Thanks to the ISOBUS-based **iQblue spray** operating concept, the front tank can be combined with various application systems regardless of their manufacturer. This allows you to combine a wide variety of working methods, such as sowing or mechanical crop care, with the application of liquids – optionally even with section control.

This saves time and costs





WELLTHOUGHT OUT AND FLEXIBLE

Whether for crop care or the application of micronutrients through to liquid fertilisers – the **SprayHub** front tank offers extremely flexible combination options, impresses with its clear design and has all the features you would expect from a modern crop care sprayer.

Clean water tank

with 127 litres capacity



ISOBUS control Intuitive operation with iQblue spray



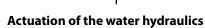
Flow meter

for every application: 1–20 l/min or 5–80 l/min

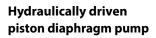
Filling sieve

in the tank dome (optional) with induction nozzle for liquid and solid products

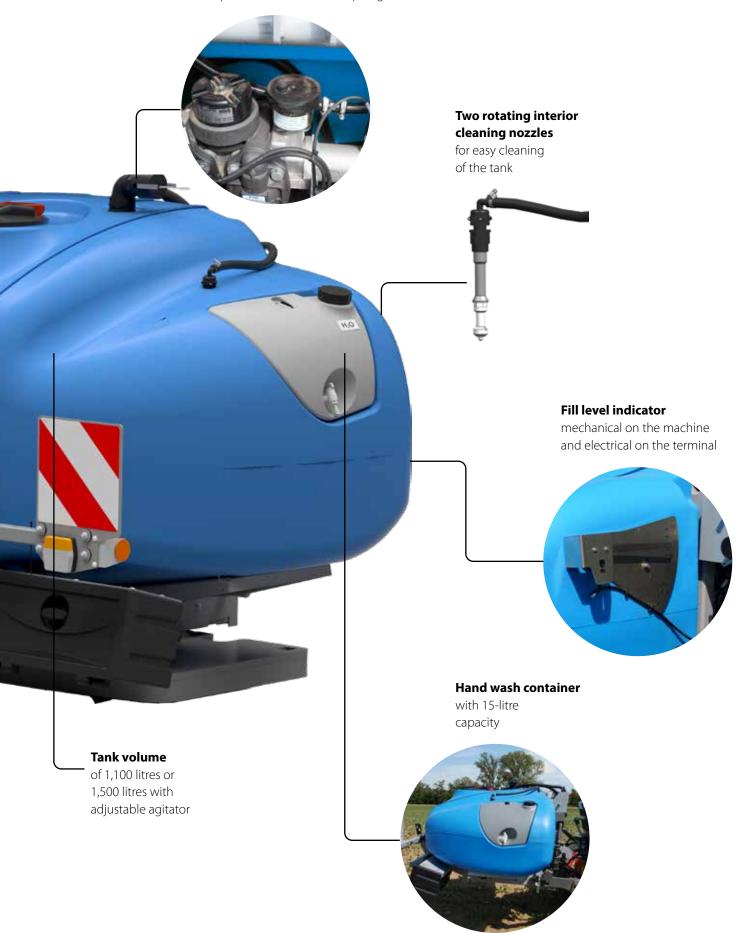




with optional manual or electrical control



with a flow rate of 140 l/min and liquid fertiliser-resistant diaphragm

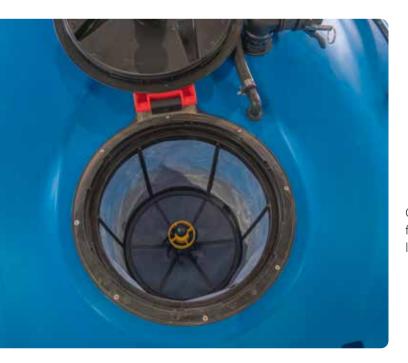


NUMEROUS OPTIONS, PERFECTLY COORDINATED

TRANSPORT ROLLERS

The optional transport rollers with parking brackets can be mounted to both the base frame and the weight plates using a simple plug connector.





INDUCTION NOZZLE

Optionally, the filler sieve in the tank dome can be fitted with a nozzle, which ensures that liquid and solid products are fully dissolved.

CTS CONNECTION

The CTS connection enables contactless induction to provide maximum work safety.





FILL STOP

The automatic fill stop enables the exact filling of the **SprayHub**, which helps to avoid product residue.

EXTERNAL FILLING CONNECTION

An external filling connection is provided for easy tank filling.





STORAGE BOX

The optional, practical storage box is dust-tight and splash-proof. It provides useful space for utensils.

SLENDER DESIGN

The slender design ensures optimum forward visibility.





BALLAST

In order to ensure sufficient front ballasting even with an empty tank, the **SprayHub** is optionally available with additional weights in two sizes (340 kg or 660 kg).

| Tank volume | 1,100 l | 1,500 l |
|-----------------------------------|---------------------|---------------------|
| Transport width | 2.25 m | 2.25 m |
| Transport height | 1.16 m | 1.51 m |
| Length | 1.67 m | 1.67 m |
| Empty weight min / max. | 273 / 1027 kg | 294 / 1048 kg |
| Total weight max. | 2450 kg | 2970 kg |
| Tank filler opening | 38 cm | 38 cm |
| Hand wash container capacity | 15 | 15 |
| Clean water tank capacity | 127 | 127 |
| Pump flow rate | 140 l / min | 140 l / min |
| Required hydraulic connected load | 150 bar; 25 l / min | 150 bar; 25 l / min |
| Max. application rate | 80 l / min | 80 l / min |
| Intake connection | 2" Kamlock | 2" Kamlock |



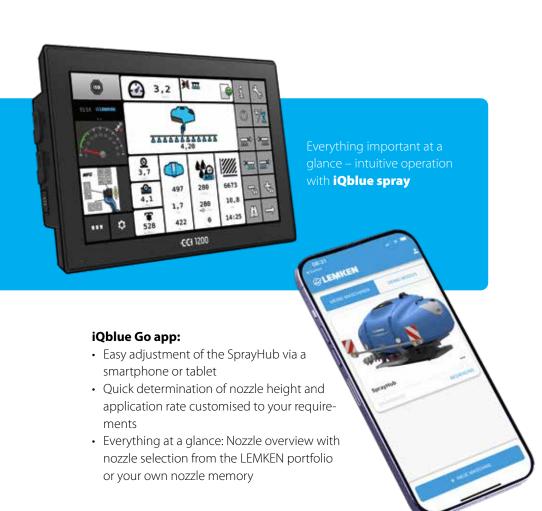


PRECISELY ADJUSTED



iQblue spray is the ISOBUS-based operating concept for the LEMKEN **SprayHub** front tank. Numerous features make work easier for the driver and ensure the targeted application of liquids.

- Can be used with any ISOBUS terminal
- **SprayHub** is equipped with an ISOBUS job computer as
- Integrated calculator in the **iQblue spray** control panel for calculating the remaining range based on the current fill volume – ideal for large fields
- · Convenient switching to the cleaning programme with optional electric valves



THE ADVANTAGES OF THE **iQBLUE** SPRAY CONTROL PANEL AT A GLANCE:



SINGLE-ROW ACTIVATION

The **iQblue spray** system is ready for section control via GPS.

INTUITIVE **OPERATION**

All key parameters such as application rate,

INTEGRATED CALCULATOR

ADJUSTMENT AID

The nozzle height can be individually determined based on the selected nozzle and the desired band width.

PRECISION WORK FOR CLEAN ROWS

The LEMKEN **SprayKit** provides solutions from a single source. The compact distribution unit is suitable for mounting to a wide range of implements and is ideal for teamwork with excellent work results.

The **SprayKit** is also the connecting element when using the SprayHub with a rear-mounted EC-Weeder hoeing machine. The combination of a highly efficient hoeing machine and a band sprayer integrates two operations in one and enables uncompromising weed control.

Functions such as the individually adjustable nozzle holder and the flexible use of special nozzles depending on the application at hand ensure maximum precision.

Electrical single-row control via ISOBUS or mechanical section control

Precision work in every row



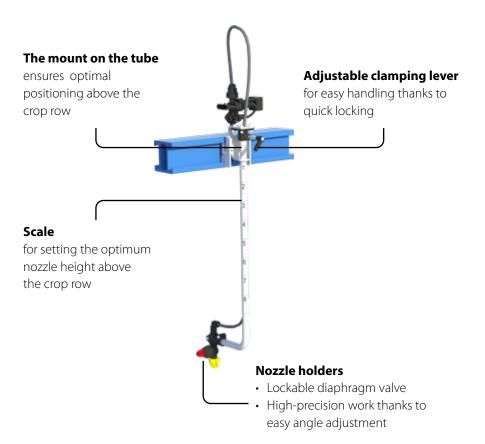
A range of SpraySet versions

- 1 nozzle per row for band spraying from above onto the row
- 2 nozzles per row for band spraying on the sides of the row
- Liquid fertilisation on duck-foot shares for fertilisation close to the row

Basic implement fitting

Interface between the application kit and SprayHub





Pressure line for distribution across the full working width





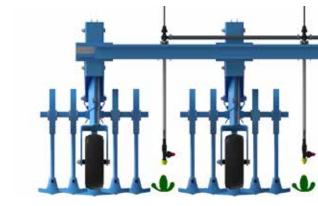
OPTIONS FOREVERY NEED

BAND SPRAYING



Belt application with one nozzle per row

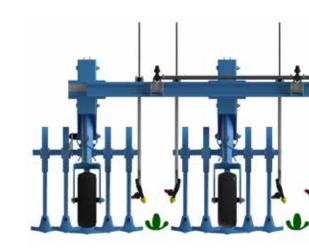
- Rectangular, uniform liquid distribution across the full band width
- Band width adjustable by changing the spraying distance and/or rotating the spray axis
- With band spray nozzles for band spraying
- With liquid fertiliser nozzles or drag hoses for applying liquid fertilisers close to the ground while protecting crop plants





Band spraying with two nozzles per row

- For spraying on the side of the row
- Optimum coverage of row/ special crops with herbicide strips/ underleaf spraying



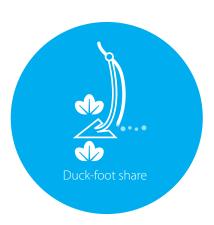
LIQUID FERTILISATION





Liquid fertilisation with liquid fertiliser nozzles or drag hoses

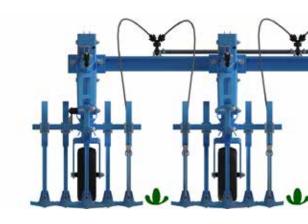
• For applying liquid fertiliser close to the ground while protecting crops plants



Liquid fertilisation on duck-foot shares

- Optimum nutrient uptake by the plants and thus minimisation of losses
- · With variable elastomer metering opening for variable flow rates



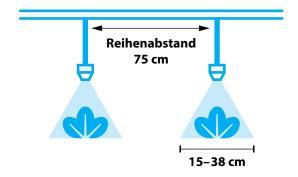


PRECISE APPLICATION IN THE BAND

Combination of mechanical and chemical crop care

Band spraying is an efficient and sustainable solution for integrated weed control. Combined with mechanical crop care, it helps to reduce production costs while maintaining constant yields and complying with current environmental regulations.

With band spraying, the herbicide is applied directly to the crop row over a defined band width rather than across the entire field. This substantially reduces the application rate, as a smaller area is treated, but the application rate of the product remains the same.



Combination of mechanical crop care and fertilisation

In order to promote optimal plant growth both liquid fertiliser and micronutrients can be applied via band spraying.



Intra-row: A limiting factor



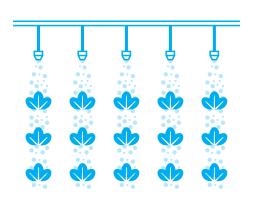


Inter-row: Protecting the crop

 $\textbf{EC-Spray}_{\textbf{Hood}}. \textbf{This implement is available for front}$ or rear mounting (with IC-Light camera control only plants. $\mathbf{EC\text{-}Spray}_{\mathbf{Hood}}$ is insensitive to wind and

Good reasons for combining hoeing and band spraying

- Hoeing and band spraying can be done in a single pass
- Application rates can be reduced by 40-60%
- Targeted application ensures better utilisation of crop care agents
- Optimised application to crop rows via **IC-Light** camera control (also DeltaRow)
- Increased efficiency, especially in intra-row areas
- Control of late weeds, problem weeds and beet bolters



FUTURE-ORIENTATED MANAGEMENT

Most crop plants are highly sensitive to competing weeds, especially at the early stages of their development. The risk of later yield losses can be minimised by keeping fields weed-free until crops cover the soil. Given that key active substances are no longer available for use, the scope of chemical crop care is becoming more and more limited if weed resistance is to be avoided.

LEMKEN has an optimal integrated weed control solution for every crop.

Band spraying optimally complements mechanical weed control in your crops. Due to the smaller surface area to be treated, it allows for efficient, sustainable crop care and offers numerous advantages at work.



Savings thanks to lower application rates

Band spraying of 25 cm wide bands means substantially reduced costs.



Time savings

The system allows several operations to be performed simultaneously:
Hoeing, band spraying and fertilising.



Less risk for the environment

The reduced use of herbicides minimises the risk of environmental pollution.



Reduced water consumption per hectare

As the area to be treated is reduced by about two thirds, less spraying liquid and therefore less water is needed for each application.



Less soil compaction

Combining different operations in single pass reduces the risk of soil compaction.



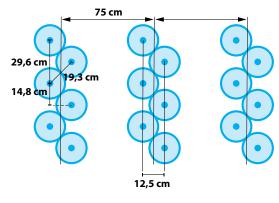
FOR HIGH HARVEST YIELDS

Using **SprayKit** and the **Azurit** in tandem creates another perfect combination. This ensures optimum fertiliser placement when sowing maize. With this approach, under-root fertilisation is carried out via the double disc coulters of the fertiliser bar. As the nutrients are already present in dissolved form, they can be more easily absorbed by the roots. This minimises the loss of nutrients through leaching or fixation in the soil and contributes to a more efficient use of the fertilisers applied.

DeltaRow - for perfect placement

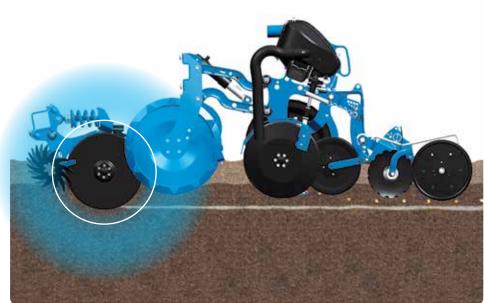
Sowing maize with the **DeltaRow** system ensures 70% more surface area for plants and therefore access to more water, nutrients and light for each plant. The fertiliser band is placed inside the **DeltaRow** in the root space and is therefore at the perfect distance from each plant for optimum nutrient supply.

Two double disc coulters place the seed precisely on the reconsolidated seed horizon using the **DeltaRow** method. Once seeds have exited the seeding shafts, guide wheels ensure that they remain precisely at the desired position in the seed horizon.











WE'RE HERE **FOR YOU**

Our internal development team does everything in its power every day to make our technology even better for you. We work in constant exchange with you as practitioners and put our heart and soul as well as our extensive expertise into the development of practice-oriented technology. As a result, we provide you with customised machines that offer the right solution for your individual requirements. Our entire product portfolio stands out through its excellent user-friendliness in daily work, and we continuously optimise our range of implements.

With us, you get everything from a single source: passionate development, reliable production and personal all-round

service. This enables us to respond quickly to a wide range of challenges, and we always work in close exchange with agricultural practice.

Our competent team of experienced product specialists guarantees optimal service. Our promise starts with sound advice before your purchase and continues with support during initial field use as well as throughout your work in the field.Our remote maintenance system ensures that you receive help very quickly and easily without having to wait for an appointment.





A WELL-ROUNDED SOLUTION.

At LEMKEN, we don't think in terms of isolated work steps – instead we look at the full cycle including all facets of agricultural engineering. The result is a range of comprehensive solutions that intermesh perfectly. For you, this means: high-quality, future-oriented, efficient technology for an agriculture that is both profitable and sustainable.



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