MOUNTED FIELD SPRAYERS

SIRIUS 8
SIRIUS 10
The crops on our fields form the basis of our food. As a farmer, your success therefore depends on healthy crops, and this is why you implement sustainable, efficient and environmentally friendly crop cultivation practices. LEMKEN supports you in cultivating and protecting your crops optimally all around. Our range of powerful field sprayers is specially designed for the needs of your crops and farm to ensure that it is not only your crops but also your profits that yield healthy growth.

**LEMKEN Sirius – optimal care for any requirements**

LEMKEN's Sirius series of compact mounted field sprayers offers usable tank volumes of up to 1,900 litres and therefore guarantees outstanding acreage performance with high agility. The optimised distance between the centre of gravity, of the Sirius, and the rear tractor axle prevents excessive loads from being taken off the tractor's front axle under all conditions of use.

The optimum centre of gravity is also supported by the low tank depth of only 55 cm in all Sirius models. This, combined with the baffle inside the tank, ensures that the sprayer/tractor unit is safe to drive, agile and easy to manoeuvre on the field, even on small and sloped sites.
**Sirius 8 models**

**Sirius 8/900**
- 900 litre tank volume
- HE boom with package folding
- 12 and 15 metres working widths (HE)
- Sirius 8 with electronic remote control (Easyspray)

**Sirius 8/1300**
- 1,300 l tank volume
- HE boom with package folding
- 12 and 15 metres working widths (HE)
- Sirius 8 with electronic remote control (Easyspray)

**Sirius 8/1600**
- 1,600 l tank volume
- HE boom with package folding
- 12 and 15 metres working widths (HE)
- Sirius 8 with electronic remote control (Easyspray)

**Sirius 8/1900**
- 1,900 l tank volume
- HE boom with package folding
- 12 and 15 metres working widths (HE)
- Sirius 8 with electronic remote control (Easyspray)
Sirius 10 models

**Sirius 10/900**
- 900 litre tank volume
- HE boom with package folding; SEH boom with rear folding
- 12 and 15 metres working widths (HE); 15 to 24 metres (SEH)
- Sirius 10 with electronic control (EcoSpray or MegaSpray)

**Sirius 10/1300**
- 1,300 l tank volume
- HE boom with package folding; SEH boom with rear folding
- 12 and 15 metres working widths (HE); 15 to 24 metres (SEH)
- Sirius 10 with electronic control (EcoSpray or MegaSpray)

**Sirius 10/1600**
- 1,600 l tank volume
- HE boom with package folding; SEH boom with rear folding
- 12 and 15 metres working widths (HE); 15 to 24 metres (SEH)
- Sirius 10 with electronic control (EcoSpray or MegaSpray)

**Sirius 10/1900**
- 1,900 l tank volume
- HE boom with package folding; SEH boom with rear folding
- 12 and 15 metres working widths (HE); 15 to 24 metres (SEH)
- Sirius 10 with electronic control (EcoSpray or MegaSpray)
The Sirius is very compact with an optimally positioned centre of gravity. This ensures that the sprayer/tractor unit is easy to drive and manoeuvre on the field, even on small and sloped sites.

- The depth of the tank is only 55 cm irrespective of tank volume.

**Compact design**

- The optimised base frame keeps the centre of gravity as close to the tractor as possible.
- The clean water tank underneath the main tank benefits the centre of gravity even further.
- Only a minimum load is taken off the tractor’s front axle.

**Robust frame construction**

The robust frame design of the Sirius guarantees a long service life even under hard conditions of agricultural use.

- High strength due to wide-diameter steel profiles and a fully closed frame
- Powder-coated for state-of-the-art anti-corrosion protection
- The hose cabinet is integrated into the frame, ensuring that hydraulic hoses and cables can be stowed away cleanly and tidily after use.
The tank is divided by a baffle in the centre, providing additional safety both on the field and on the road.

- There are no additional seams, as the baffle is integrally cast into the tank.
- The baffle prevents excessive sloshing of spraying liquid in the tank and thus improves stability during travel.
- Pipes and hoses are routed inside the baffle for protection.

HE boom
- The pendulum suspension can be adjusted via a pivoted pin. Hydraulic pendulum lock and hydraulic slope compensation are available as an option.
- Rubber stops dampen horizontal movement.

SEH boom
- Damping elements, between the right and left boom arm, reduce yawing.
- Vertical damping elements prevent swaying movements.
- Hydraulic pendulum lock, as standard, for safe folding and unfolding.
- Slope compensation, via pivoted pin, with optional hydraulic compensation.

Clean, without residue
The inner tank surface is designed for absolutely smooth surfaces without areas outside the reach of the cleaning nozzles to prevent deposits from forming inside the tank. Smart details ensure that the tank stays clean and the spraying liquid remains homogeneous.

- The inside of the tank is free from pipes and hoses.
- Two wetting nozzles, at the top of the tank, keep the interior evenly moist.
- Four cleaning nozzles make cleaning the tank, after use, a breeze.
- Two injector agitator nozzles on the tank floor ensure that the spraying liquid is optimally homogenised.
- An intensive agitator is available as an option.

Parasol suspension
The parasol boom suspension meets highest damping requirements. The boom control, which is the result of many years of practical experience, keeps the boom parallel to the ground to ensure precise transverse distribution.

- The inside of the tank is free from pipes and hoses.
- Two wetting nozzles, at the top of the tank, keep the interior evenly moist.
- Four cleaning nozzles make cleaning the tank, after use, a breeze.
- Two injector agitator nozzles on the tank floor ensure that the spraying liquid is optimally homogenised.
- An intensive agitator is available as an option.

Driving safety starts from within
The tank is divided by a baffle in the centre, providing additional safety both on the field and on the road.

- There are no additional seams, as the baffle is integrally cast into the tank.
- The baffle prevents excessive sloshing of spraying liquid in the tank and thus improves stability during travel.
- Pipes and hoses are routed inside the baffle for protection.

Precision in detail
Comfort and safety

LEMKEN’s automatic upper link coupling system, QuickConnect, combines two essential advantages that were mutually exclusive in all previous coupling systems for tractors and implements.

• The QuickConnect system provides sufficient clearance between the tractor and implement to be able to connect all couplings and supply systems such as PTO shaft, hoses, cables and top link comfortably and securely.

• The innovative QuickConnect coupling system automatically positions the implement closely enough to the tractor that even large-volume implements such as the LEMKEN Sirius can be used without, or with less, front ballast.

• The QuickConnect system avoids the need for operators to lift heavy coupling triangles onto the tractor’s three-point linkage.

The innovative QuickConnect coupling system
Easy operation

All operating elements of Sirius field sprayers are housed on the left side of the implement underneath a large cover to protect them from dirt.

• The suction and pressure sides are clearly arranged and operated via separate levers.

• Both pressure and suction filters are easily accessible.

• The filling connections are located directly below the operating centre.

• The fully integrated inductor swivels out easily.

Inductor

The Sirius inductor features a 45 litre filling volume and adjustable suction to ensure that any type of crop protection product can be quickly incorporated.

• The walls are continuously moistened without misting via a ring line to prevent the accumulation of residue.

• The Proflow nozzle, in the drain, provides high rinsing capacity.

• Effective canister cleaning
Sirius 8 – baseline model

Reliable remote control
• Main valve on/off
• Electrical pressure adjustment
• Electrical preselection of hydraulic boom folding functions

Additional functions
• Electrical part width section control via toggle switches
• Slope centre position display
• Pendulum lock display
• Work light and rotating beacon
HorizontalExtend boom

The implement’s pendulum behaviour can be adjusted, for use in level or sloped fields, by adjusting the pivot point to above or below the centre of gravity of the boom.

- Adjustable stops, at the joints, and robust swivelling joints on the outsides ensure long service life.

- HE booms are available in working widths of 12 and 15 metres. The HE boom is optionally available with comfort folding, which allows the working width to be reduced asymmetrically to avoid obstacles or for part width sections.

- The hydraulic slope compensation control with hydraulic pendulum lock allows the boom to be remotely adjusted to surface conditions from the tractor cab and controlled via the optical centre indicator.

- The HE boom is folded in and out fully automatically via hydraulic cylinders.

- With the boom package folded in its transport position, the transport width is 3 metres.

- The system is automatically secured for transport by electromagnetic valves on the cylinders.

Working width – part width sections

<table>
<thead>
<tr>
<th>Working Width</th>
<th>Part width section distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 m – 5</td>
<td>1.5 / 3 / 3 / 3 / 1.5 m</td>
</tr>
<tr>
<td>15 m – 5</td>
<td>3 / 3 / 3 / 3 m</td>
</tr>
</tbody>
</table>

HE boom with nozzle arrangement (rear view)
Sirius 10

Sirius 10: comfortable EcoSpray control

- Fully electronic operating terminal with speed-dependent control of the application rate
- Single-handed boom folding with preselection
- Pressure and flow display
- Lift mast height display in %
- Switch from manual to automatic pressure control
- Fill level monitoring (optional)
- Volume increase/decrease control button
- Boom position monitoring (optional)
- Residual quantity display in hectares or distance; hectare, litre and hour counters
- Part width section control via membrane keys; optionally via a part width section switch panel

EcoControl Premium operation

The premium version of the SEH boom with oil circulation control is easily operated via joysticks:

- Lift – lower
- Slope compensation
- Arm folding
- Asymmetrical and symmetrical reduction
- Headland management
- Automatic folding and unfolding

MegaSpray control for ISOBUS use

Operation via the LEMKEN CCI-200 or tractor terminal

- Automatic user interface generation
- Straightforward menu navigation for operation and data management

Comprehensive description on page 18
The SEH boom, of the Sirius 10, permits application widths of up to 24 metres. A range of comfort options allows the implement to be adjusted to individual needs. The large cross section and rectangular profile provide great boom stability and durability.

- Nozzles, pipes and electronics are routed well, protected inside the aluminium profiles, but are at easily accessible for adjustment and maintenance.
- Sufficient space for multi-nozzle bodies.
- Riveted joints as used in the aerospace industry for minimum weight.

The SEH boom offers a range of important functionalities even in its baseline version, including:

- Symmetrical folding and symmetrical HE boom reduction
- Hydraulic height adjustment
- Folding end sections

Additional functionalities are available with the full SEH version:

- Asymmetrical reduction
- Asymmetrical and symmetrical folding of arms
- Hydraulic slope compensation with integrated rotating angle sensor in the folding joint to monitor the position from the terminal.
All versions with freely selectable part width sections

SEH 15/11
SEH 18/12
SEH 20/15
SEH 21/15
SEH 21/17
SEH 24/18
The standard circulation line in the Sirius 10 with SEH boom ensures ultimate application precision.

- Simultaneous activation and deactivation across the full working width
- Trilateral nozzle pipe feed for reliably even transverse distribution
- Even pressure and volume flow for high application precision and homogeneous spraying
- Prevention of deposits accumulating in the pipes

Eltec nozzle control

The SEH boom has separately controlled electrical single-nozzle valves for extremely speedy response times and high flexibility.

- In the baseline version with Eltec, the nozzles are combined in up to 9 nozzle groups, depending on boom width.
- The nozzles are controlled electrically directly at the nozzle holder.
- A 3-way nozzle body is standard; a 5-way nozzle body is available as an option.
- Eltec Pro combined with MegaSpray machine control provides true single-nozzle control.
MegaSpray for more comfort

The Sirius MegaSpray is a new spray control system with ISOBUS functionalities. The sprayer’s job computer serves as the control centre for all sprayer functions.

- Control of all application parameters
- Control of application rates
- Operation of all hydraulic functions
- Data input from the Tankpilot electronic fill level indicator

Standard ISOBUS control

LEMKEN MegaSpray can be combined with any universal terminal, e.g. a CCI200, via a standard ISOBUS interface.

- The MegaSpray user interface is displayed on the terminal.
- The display layout of operating elements can be flexibly configured depending on operator needs.

Down to individual nozzles

MegaSpray controls the electronic single-nozzle valves of SEH booms featuring Eltec in up to 9 freely definable nozzle groups.

- Eltec Pro additionally permits true single nozzle control.
- Greater application precision means economical use of crop protection products, especially on sloping field boundaries, and prevents double application.
Automatic HE boom height control

MegaSpray can also be combined with LEMKEN’s recently developed BoomCommand automatic HE boom height control.

• This control is performed via the lift mast and slope compensation.

Control without dismounting

With its automatic 4-way selection valve on the suction side, LEMKEN offers a new function for even higher user comfort.

• Operators are able to switch between spraying, clean water, external suction and suction from the front tank by simply pressing a button, without having to dismount.

• The system can also be operated from the operating terminal of the tank display at the inductor.
**Auxiliaries for increased comfort**

For optimum operator comfort, any Aux-N auxiliaries can be used with the universal terminal.

- The sprayer can be controlled from the tractor’s multi-function lever or via a joystick.

- LEMKEN offers joystick or switch boxes as a useful addition.

- Various functions can be freely assigned to the controls of auxiliaries.

**Automatic part width section control and parallel tracking systems**

Terminals featuring GPS-supported part width section control and parallel tracking assistance can be used with MegaSpray. Combined with single-nozzle control, this creates a highly practical and precise crop protection system.

The ISOBUS interface makes MegaSpray fully compatible with the section control systems of universal terminals, e.g. the CCI Command SC of the CCI200, to provide precise, automatic part width section control.

**Optimum integration with the CCI-200 terminal**

LEMKEN co-developed the CCI-200 terminal, and optimum integration with LEMKEN systems technology is therefore already provided.

- CCI.Command PT additionally provides part width section control and also powerful parallel tracking assistance to ensure that passes are precisely lined up under any conditions.

- The headland mode allows headlands to be individually defined, and part width sections are correctly controlled at the headlands already.

- CCI.FieldNav App for precise navigation to the field.

- User-friendly communication with the farmpilot online organisation portal for farmers and contract farmers.
ISOBUS connectivity

As MegaSpray is fully ISOBUS-compatible, farmers benefit from all functionalities that ISOBUS terminals have to offer when working with a Sirius.

**Task Controller compatibility**

MegaSpray permits full field sprayer integration into a farm’s documentation and job management processes and is compatible with the leading task control systems, including CCI.Control.

MegaSpray provides data for exchange with field management systems. When using a GPS-compatible task controller, location-specific data are also collected, enabling location-specific job planning.

Data is exchanged in ISO XML data format, either by USB stick or via mobile networks, if the terminal features a mobile module. This allows jobs to be easily imported into the task controller and/or completed documentation to be exported after job completion.
Smart options

GPS part width section control matrix

Automatic part width section control (optional)

- Monitor track guidance system in combination with EcoSpray
- Track guidance system in combination with camera
- Export of job and GPS data via USB interface

Cleaning gun and agitator nozzle

The agitator nozzle helps dissolve and induct not readily soluble substances.

- The cleaning gun facilitates inductor cleaning.

Intensive agitator

Additional injector nozzles can be fed via the distributor valve as an alternative to the return flow agitator nozzles.

LED boom lighting

Optimum illumination of the working section even with 24 m boom width.

Drop hoses

Ultra-precise application of liquid fertiliser with drop hoses to avoid fertiliser burn.

External cleaning

Hose drum with 15 metre hose; connection via the sprayer pump.
Gemini 5 and 7: for a perfect combination

Greater reach

Two tanks are available for transporting clean water or liquid fertiliser:

- A main tank holding 1,100 litres
- A clean water tank holding 120 litres
- This gives an additional reach of at least 50% per pass, depending on application rates.

Gentle to existing crops

The Gemini front tank also features a well thought-out external design.

- Its substructure is smooth to prevent any plants from getting caught.
- At the same time, a special mounting frame provides large ground clearance for working with tall crops.
- The tank has a flat design to maintain optimum visibility, and the lower link coupling points can be flexibly selected in the direction of travel.
- Fluid transfer only requires a hose.

Straightforward coupling

The transport carriage serves as a support for coupling and uncoupling, as a trolley, as substructure and pallet replacement.

- Forklift pockets for easy handling with a pallet fork
## Technical data

<table>
<thead>
<tr>
<th>Sirius</th>
<th>8/900</th>
<th>8/1300</th>
<th>8/1600</th>
<th>8/1900</th>
<th>10/900</th>
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<td>950</td>
<td>1,370</td>
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<tr>
<th>Weight with boom (kg)</th>
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<td>1,370</td>
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<tr>
<th>Transport dimensions (m) with boom</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>8/900</th>
<th>8/1300</th>
<th>8/1600</th>
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**Sirius 8 standard features:** LEMKEN Easyspray as electronic operation unit for 5 - 9 width sections with toggle switches; Basic operation spraying boom: hydraulic height adjustment and symmetrical folding via separate spool valves; Digital pressure indication; Integrated tank baffle; Piston diaphragm pump 150 litres/min capacity; Clean water tank 160 litres; Water canister for hand washing 20 litres; Self-cleaning pressure filter; External filling connection GEKA coupling for main tank and clean water tank; 2” Kamlok suction connection; Filling via injector; Single lever operation within the suction and pressure side; Indirect level indicator; Chemical inductor with canister rinsing and Proflow nozzle within the drain off; Tank internal cleaning; Agitator regulation; PTO shaft; Width section valves with pressure balancing device; Circulation up to the valves of the width sections at the central unit.

**Sirius 10 standard features:** LEMKEN EcoSpray as electronic operation unit with fully automatic control for 5 - 9 width sections with switches; Basic operation spraying boom HE: hydraulic height adjustment and symmetrical folding via separate spool valves; Basic operation spraying boom SEH: hydraulic pendulum lock, hydraulic height adjustment via separate spool valve, pre-setting of function via operation terminal, operation via tractor hydraulics, symmetrical folding; Digital pressure indication; Integrated tank baffle; Quick coupling system QuickConnect (900/1300: Cat. 2, 1600/1900: Cat. 3N=L2 Z3); Piston diaphragm pump 200 litres/min capacity; Clean water tank 160 litres; Water canister for hand washing 20 litres; Self-cleaning pressure filter; External filling connection GEKA coupling for main tank and clean water tank; 2” Kamlok suction connection; Filling via injector; Single lever operation within the suction and pressure side; Indirect level indicator; Chemical inductor with canister rinsing and Proflow nozzle within the drain off; Tank internal cleaning; Agitator regulation; PTO shaft.

**HE boom standard features:** Asymmetrical folding, single-nozzle holders, circulation to the part width section nozzles in the centre section, bolt pendulum lock.

**SEH boom standard features:** Hydraulic pendulum lock, symmetric folding (only SEH), electrical single-nozzle valves combined in part width sections (Eltec), circulation line, 3-way nozzle support.
LEMKEN wearing parts are designed for a maximum service life. High-quality materials, the latest production methods, and an intensive quality control ensure a long service life. Therefore, all original spare parts bear a unique identification with the registered LEMKEN trademark. Original spare parts can be ordered at any time online on the Internet via the LEMKEN information and ordering system.

Original spare parts from LEMKEN

When you have bought a machine from LEMKEN, the well-known, almost proverbial LEMKEN service starts. 18 customer-oriented factory branches and outdoor storage areas in Germany as well as our own sales companies and importers in more than 40 countries, and a strong dealer network, ensure that machines and spare parts are supplied quickly. If a part is not in stock, it can be delivered to the customer within 24 hours via the LEMKEN logistics centre which is manned round-the-clock 365 days a year.

Knowledge from the LEMKEN specialist
Well trained customer service technicians are available to farmers, contractors and trade, who are using machinery for the first time, as well as for professional maintenance and repairs. Thanks to regular training courses, LEMKEN customer service is always up to date with the latest LEMKEN technology.

Service decides