

# PNEUMATIC SEED DRILLS

## SOLITAIR 25

 **LEMKEN** THE AGROVISION COMPANY





## VERSATILE CULTIVATION METHODS

Greater technological efficacy, the ability to combine tools universally in implements, and fast and easy road transport are becoming increasingly important in modern arable farming. This is where the extensive range of Solitair pneumatic seed drills creates a solid basis for the efficient use of implements when sowing. The Solitair 25 pneumatic seed drill can be semi-mounted to various LEMKEN soil cultivation implements to adapt the implement optimally and quickly to varying conditions. Depending on the previous crop, crop rotation, weather and harvest conditions, switching over

from conventional to conservation tillage methods can deliver significant cost savings. Working widths of 4 to 6 metres provide the essential requirements for cost-efficient operation on all types of farms. The LEMKEN Solitair meets all needs in terms of blockage-free operation and precise seed placement. The parallelogram-controlled double disc coulters with depth control roller place seeds precisely at the pre-set depth with both mulch sowing and conventional cultivation.

The newly developed metering and distribution concept of the Solitair 25 leaves nothing to be desired. It allows seed rates of 0.5 to 500 kg/ha to be reliably dispensed and can therefore also be used for metering fertiliser for single-seed drilling. Part width section control is available as standard, and the new tramline mechanism integrated in the distributors requires no seed return at all. The system is additionally quick and easy to adapt to different tramline rhythms.



The Solitair can not only be combined with LEMKEN soil cultivation implements, but various seeding units can also be attached via a three-point linkage at the rear. The LEMKEN Azurit 10 could therefore be easily mounted for single-seed drilling. As a result, the Solitair offers outstanding economy.

# INNOVATIVE TECHNOLOGY



## Vertical metering

Seeds are dispensed to four distributors via four vertically arranged metering units.

- Each metering unit is driven by a separate electrical motor.
- This motor serves to control the metering speed and cell volume.
- The combination of cell volume and metering speed then ensures a uniform flow of seeds under any conditions.
- The fine seed wheel is integrated in the metering cells.
- Application rates can be set between 0.5 and 500 kg/ha.



## Blower fan

A new blower fan is integrated in the plastic hopper.

- The fan consists of a stainless steel wheel and a die-cast aluminium housing to keep noise to a minimum.
- The air volume it delivers is sufficient for reliably transporting seeds and fertiliser at rates of up to 500 kg/ha.

## Hopper

Plastic hopper with 3000 l capacity.

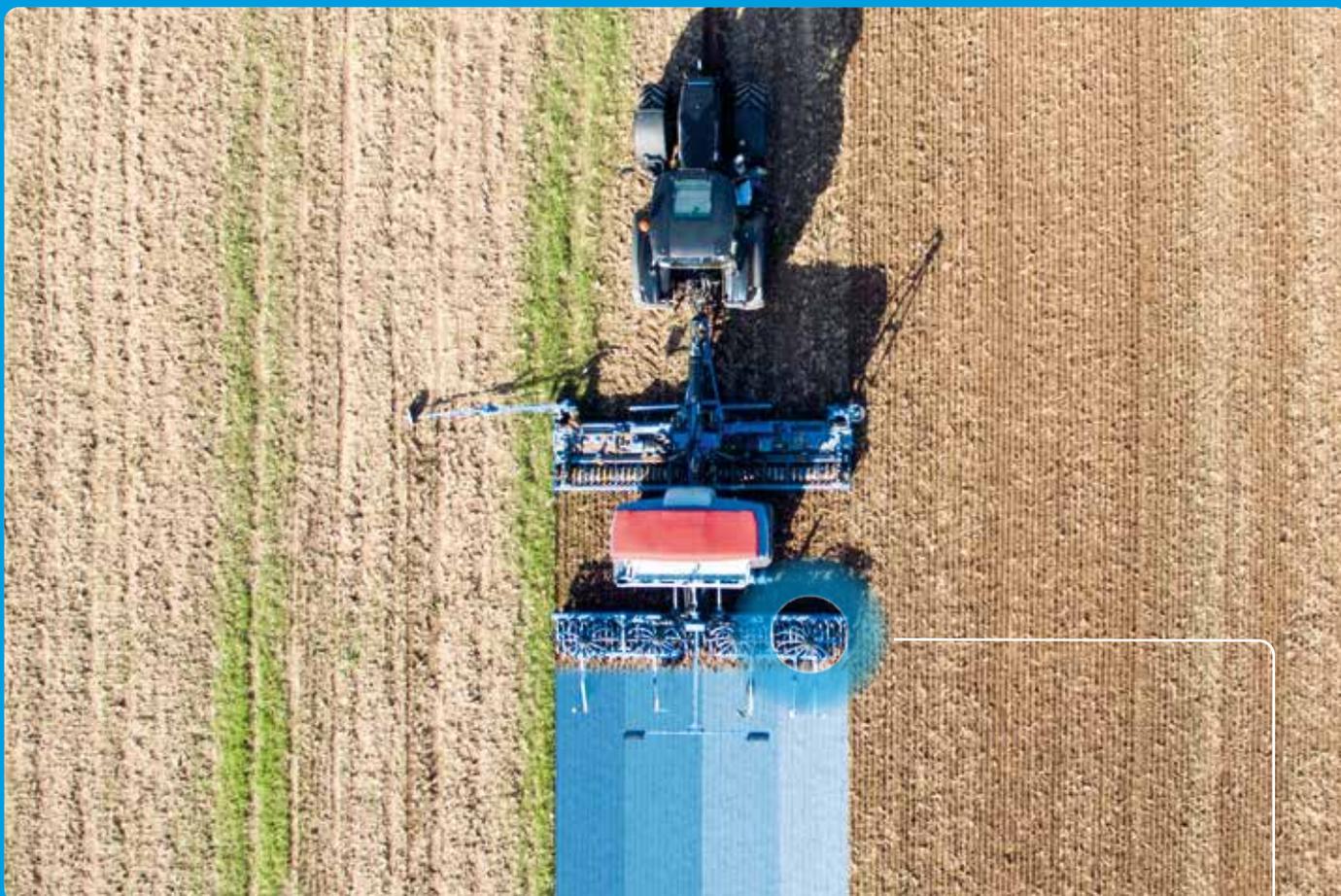
- Large opening and robust lid for easy filling.
- Integrated sieves for removing dirt and larger clods.
- Comfortable access and wide walkway with handrail for safe support.
- Quick and easy residue drainage.



## Weighing unit

A weighing unit can be optionally fitted to the hopper to ensure that operators always have information about seed and fertiliser volumes at hand.

# INNOVATIVE TECHNOLOGY



## Part width section control as standard

Individual metering units can be deactivated in the standard version to divide the coulters into four part width sections.



## Distributor with tramline mechanism

Four distributors positioned directly above the coulters ensure superior transverse distribution.

- Integrated hydraulic tramline mechanism
- Symmetrical distribution in tramline mode
- No seed return required in tramline mode
- Adaptation to a wide range of tramline systems by simply replacing distributor cartridges

## Share system

Parallelogram-guided double disc coulters with depth control rollers.

- Both coulters pressure and seeding depth can be adjusted independently.
- Seeds are placed accurately at a constant depth, even with changing soil conditions.
- Seeds are pressed into the soil by the depth control roller to ensure even, rapid emergence.
- Unconsolidated areas between rows reduce erosion and puddling.
- A leading trapeze packer roller matched to the row distance ensures that seeds are optimally embedded in the soil.



## OptiDisc/OptiDisc M

The coulters system is available in a hydraulic and mechanical variant.

- The mechanical system delivers a coulters pressure of up to 45 kg.
- The coulters pressure can be easily set using a lever and hole matrix.
- The hydraulic system can apply up to 70 kg pressure to the coulters.
- The system ensures reliable seed placement even with high speeds of travel.



## Seeding depth

The seeding depth is set centrally via the top link of the three-point linkage.



# MEGADRILL – A NEW OPERATING CONCEPT



MegaDrill is the control for the Solitair 25 with a consistent operation structure like the controls MegaSeed.

- Logical design and intuitive operation
- The layout manager allows surfaces to be freely configured and saved as up to four profiles.
- The unit is operated either via the LEMKEN CCI-800, CCI-1200 terminal or any universal ISOBUS terminal.

- The HeadlandCommand, Tramline Control and VariableRateControl elements can be integrated in MegaDrill controls.

## Diagnostic concept

- The information menu offers a range of diagnostic options.
- The diagnostics system guides operators directly to the source of any errors in case of disruptions and assists them in troubleshooting.



# iQblue

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# INNOVATIVE DESIGN DETAILS



## Filling auger

Optionally available with filling auger to allow for easy filling directly from a trailer. Optionally also available with hopper weighing system.



## Harrow

A single, individually adjustable harrow is mounted to the rear seeding coulters to cover two seed rows reliably. The compact harrow is easy to lift to be able to respond to any conditions.



## Wheelmark eradicator

Corrugated discs reliably remove any traces of the leading chassis tyres even with larger amounts of harvest residue.



### **Seed tube monitoring**

The seed tubes leading to the distributors can be equipped with sensors for seamless seed tube monitoring. The system can be controlled via the MegaDrill controls on the ISOBUS terminal.



### **Tyres**

Large tyres – up to 710 mm wide tyres with 3 m transport width for safe road travel at speeds of up to 40 km/h



### **Storage compartments**

Storage compartments are integrated in the wheel covers of the plastic hopper for keeping any practical utensils comfortably accessible.

# VERSATILITY IN **PERFECTION**



## **Three-point attachment**

A three-point linkage at the rear of the machine allows a range of seeding implements to be coupled to the Solitair 25 quickly and easily to ensure that the machine can be optimally utilised.



## **Azurit 10**

When the LEMKEN Azurit 10 is coupled to a Solitair 25, the hopper holds fertiliser, which is then dispensed via the metering units. The direction of cell wheel rotation is then reversed to prevent seed scraper wear.



## **Soil cultivation**

The Solitair 25 KA can be combined with various soil cultivation implements from the LEMKEN product range to ensure that the machine can be optimally adapted to a wide range of conditions.





## TECHNICAL DATA

| Model                     | Working width [approx. cm] | Number of rows       |         | Hopper volume [approx. l] | Weight for 12.5 cm [approx. kg] | Poss. combinations soil cultivation      | Poss. combinations seeding units                                   |
|---------------------------|----------------------------|----------------------|---------|---------------------------|---------------------------------|--|--|
|                           |                            | Row distance 12.5 cm | 15.0 cm |                           |                                 |  |  |
| <b>Solitair 25/400 KA</b> | 400                        | 32                   | 27      | 3000                      | 1967                            | Heliodor 9 KA, Rubin 10 KA, Zirkon 12 KA | Coulter bar with OptiDisc, coulter bar with OptiDisc M             |
| <b>Solitair 25/450 KA</b> | 450                        | 36                   | 30      | 3000                      | 2098                            | Heliodor 9 KA, Rubin 10 KA, Zirkon 12 KA | Coulter bar with OptiDisc, coulter bar with OptiDisc M, Azurit 9 K |
| <b>Solitair 25/500 KA</b> | 500                        | 40                   | 34      | 3000                      | 2215                            | Heliodor 9 KA, Rubin 10 KA, Zirkon 12 KA | Coulter bar with OptiDisc, coulter bar with OptiDisc M             |
| <b>Solitair 25/600 KA</b> | 600                        | 48                   | 40      | 3000                      | 2478                            | Heliodor 9 KA, Rubin 10 KA, Zirkon 12 KA | Coulter bar with OptiDisc, coulter bar with OptiDisc M, Azurit 9 K |

# WE'RE HERE FOR YOU

## Supplying high-quality original wear parts

Our original LEMKEN wear parts ensure that your LEMKEN machine stays what it is: the genuine product. Whichever machine you need a spare part for, we ensure that the original parts are always available for all LEMKEN machines. Not only in the short term, but for years to come.

## Delivering spare parts speedily

The right parts at the right time in the right place — this is how a reliable replacement parts service should operate. Our professional logistics handling service ensures we can supply a wide range of replacement parts at speed, whenever and wherever they are needed.





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