The seed drills
Solitair MR

LEMKEN THE AGROVISION COMPANY

Resource conservation in agriculture is a holistic approach that takes into account ecological, social and economic aspects. Sustainable food production is essential to ensure food security even as we adapt our use of resources such as soil, water, air, energy and labour. Together with its customers, LEMKEN is committed to respecting, protecting, improving and preserving the state of ecosystems and the environment for future generations.

Sowing sets the course for food production. For farmers, this step is focused on **economic benefits**. LEMKEN is committed to providing you with the right solution for your needs. No matter how you cultivate your land, from maximum tillage to minimum tillage, we are the right partner for you.

There are several important considerations when buying a pneumatic seed drill:

- Precision
- Adaptability
- Working width and speed
- User friendliness
- Maintenance and reliability

The LEMKEN **Solitair MR** meets all these requirements in full.
See for yourself!

Clearly defined **functional areas**

Implement control

A software solution is only as good as its interfaces. The iQblue digital solutions make your **field work more efficient** and **speed up your office work**.

Hopper + metering system

There are several important aspects to consider with a seed drill hopper to ensure efficient drilling: Hopper capacity and layout for **flexibility and adaptability**.

Seedbed preparation

An optimally prepared seedbed is essential for maximising yields. Leading tools ensure that the **soil is levelled** and has the **right structure** for subsequent sowing.

Coulter bar

The coulter bar, the core component of the Solitair MR, is essential for successful crop growth. It ensures proper **seed placement and soil reconsolidation** for reliably good field emergence.

Proven, effective **preparation**

A well-prepared seedbed is essential for **even field emergence**. Different types of soil place different demands on production processes and therefore also on the implements used.

To meet the requirements of different production methods, the Solitair MR can be mounted on a power harrow or compact disc harrow, depending on the type of soil.

Power harrow

The active tools of the LEMKEN Zirkon power harrows prepare an optimal seedbed in virtually all soil conditions. They create an **intensive mixing and crumbling effect** up to a working depth of approx. 15 cm. In the first step, the trapeze packer roller ensures smooth seeding coulter operation and precise depth control of the coulter bar. This ensures the most important result: **improved soil contact** for the seeds.

Compact disc harrow

The Heliodor compact disc harrow can be used for seedbed preparation. It creates an **evenly loosened, level seed-bed**. Combined with the Solitair MR pneumatic seed drill, it provides a fast and efficient drill combination with low power requirements. The result is **highly efficient tillage**.

Everything **on board**

Tank

The LEMKEN Solitair MR features a 1,500 litre tank, which is **suitable for fertiliser** even in its basic configuration. The large tank opening allows fast filling directly from a BigBag or via a filling auger.

The tank is also optionally available with a capacity of 2,000 litres. With this option, it can be split 60:40 on request for **simultaneous application of several components**.

Add the 200-litre MultiHub to the tank and the Solitair MR takes **efficacy and flexibility** to new heights. Seed from the MultiHub is placed via the existing seed lines or via a baffle plate in front of or behind the harrows. When used with the Solitair MR, the MultiHub has the same number of width sections as the seed drill. MultiHub controls are fully integrated into the user interface as an additional seeding line.

Calibration test

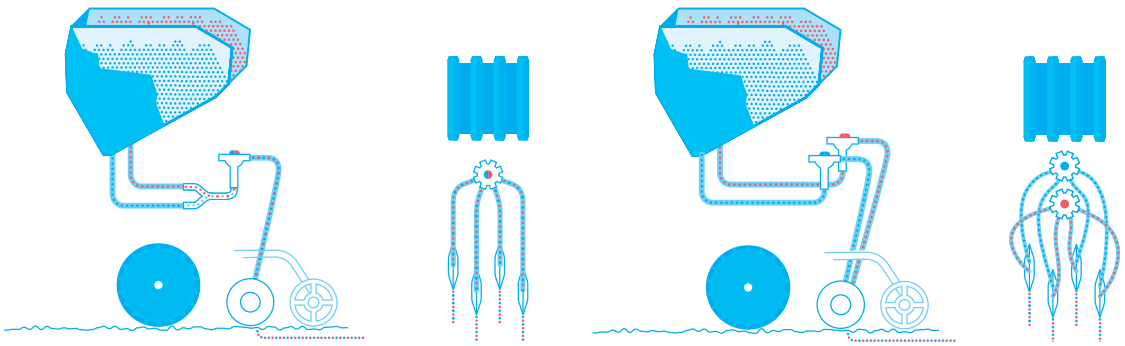
Calibration testing is conveniently done on the side of the machine to ensure the correct seeding rate. There are **four variants to choose from** for starting and performing the calibration test. The standard calibration button on the metering unit can be replaced by the tractor terminal, the calibration terminal or the iQblue Go app.

Metering

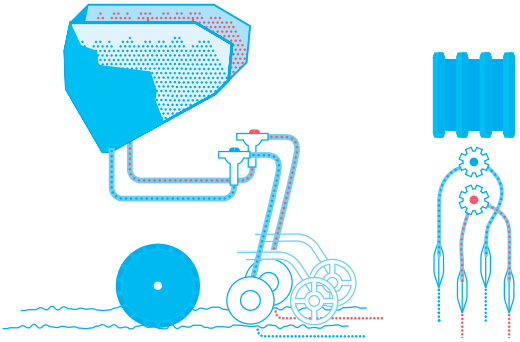
In the basic version, the Solitair MR is equipped with two metering units, each of which supplies one distributor with seed. As a result, **width section or half side control** is supported even in the basic version. Both the single shot and the double shot versions of the Solitair MR come with four metering systems for two width sections each.

This means that each tank is connected to two metering systems. As a result, each of the two distributors can be supplied with both components (single shot) or each of the four distributors can be supplied with one component each (double shot).

Single shot



Double shot



High-precision placement

Coulter bar

The **Solitair MR** is equipped with the maintenance-free Opti-Disc coulter bar. This bar boasts parallelogram-controlled double disc coulters and trailing depth control rollers for absolutely even field emergence.

The distributor heads are positioned directly above the coulter bar to ensure **excellent transverse seed distribution**. Seed is planted with a row spacing of 12.5 cm or optionally 15 cm. The coulter system is available in a hydraulic version (up to 70 kg coulter pressure) and a mechanical version (up to 45 kg coulter pressure). Seeds are pressed into the soil by the depth control roller to ensure even, rapid field emergence. Both coulter pressure and seeding depth can be adjusted independently of each other and do not influence each other during adjustment. This ensures that seed is always placed at **precisely the same depth**, even at high forward speeds and in changing soils.

Seeding depth adjustment

The **independent adjustment** of the seeding depth and coulter pressure ensures precise seed placement, especially with changeable soils. The seeding depth is set without tools using a screw on the left-hand side of the machine. Thanks to the clever mounting of the Solitair MR on the roller of the tillage implement, the working depth for seedbed preparation and the seeding depth can be set independently.

Individual tramline creation

Up to four distributor heads positioned directly above the OptiDisc coulter bar ensure superior transverse distribution. An **integrated hydraulic tramline mechanism** is optionally available. The symmetrical distribution of the seed tubes in tramline mode ensures that no seed return is required. The seed rate is automatically reduced when the tramline is switched. The easy exchange of the distributor cartridges enables quick adaptation to a **wide variety of tramline systems**. This increases flexibility – especially when working across farms.

The seed distributors are located outside the seed hopper directly above the coulter bar and can be easily opened for inspection. The seed tubes running from the distributor to the coulter are of equal length to ensure precise seed distribution. The continuous angle of the seed tubes prevents blockages.

How does the Solitair MR achieve uniform emergence?

The rubber-tyred depth control roller combined with the double disc coulter ensures a precise and consistent seeding depth for each individual seed, even at **high speeds**. Seeds are then pressed into the soil by the depth control roller to ensure optimal placement. The LEMKEN OptiDisc coulter ensures immediate soil contact and optimum water flow as a prerequisite for reliable and even field emergence.

For more comfort and flexibility

From machine control to data collection and processing, LEMKEN iQblue guarantees ease of use. iQblue digital solutions make your field work more efficient and speed up your office work. This gives you more time to do the important work.

Thinking economically

The Solitair MR works with the ISOBUS-based iQblue drill operating concept. Save **costs for agricultural inputs** using the MultiBoom function for width section-specific seed rate adjustment.
This option supports automatic, separate width section control for up to three components to **prevent overlaps**. It is also possible to work through three application maps in parallel, so that seeds and fertiliser are only applied where local conditions can be expected to produce a profitable yield.

For more flexibility, the Solitair MR can also be controlled via the additional operating terminal in the metering area. This can be used to start and complete the calibration test, for example, or to drain residue from the tank.

Using mobile devices

The LEMKEN iQblue Go app brings the control of the Solitair MR with a wide range of features to the mobile device of your choice. It allows the calibration test or the draining of residue to be started from a smartphone or tablet, for example. Current seed or fertiliser level data is displayed on the app, so that any farm inputs that are low in supply can be delivered to the field in good time and replenished without downtime.

With the app, tramline tables are a thing of the past. The app's **integrated tramline configurator** allows you to create your tramline profiles on your mobile device or desktop PC and transfer them digitally to the Solitair MR.

Even more **possibilities**

Pre-emergence marker

The Solitair MR can optionally be upgraded with a pre-emergence marker to mark tramlines as they are created.
The marker is automatically lowered when a tramline is created to mark the tramline before the seed emerges.

Seed hopper discharge flap

The standard discharge flaps on the seed hopper ensure that the seed hopper can be emptied quickly.

Harrow

For good **levelling and seed coverage**, the levelling harrow and the single harrow, which can be adjusted without tools, perfectly complement the double disc coulters.

The S levelling harrow is adjusted via a pin, which allows the harrow height and harrow pressure to be adjusted independently of each other. The harrow can additionally be fitted with hydraulic lifting to facilitate transport and precision cultivation.

The single harrow, which is also adjustable, reliably covers two seed rows and thus adapts to a wide range of conditions.

Specifications

Solitair MR	MR/300	MR/350	MR/400
Working width [cm]	300	350	400
Transport width [cm]	300	350	400
Length [cm]	251	251	251
Empty weight [kg]*	981	1,104	1,158
Tank capacity single tank (S/O) [l]	1,500 / 2,000	1,500 / 2,000	1,500 / 2,000
Tank capacity double tank [l]	2,000	2,000	2,000
Double tank split [%]	60:40	60:40	60:40
Filling opening double tank (LxW) [cm]	233 x 79	233 x 79	233 x 79
Filling height (1,500l) [cm]	220	220	220
Filling height (2,000l) [cm]	235	235	235
Row spacing (S/O) [cm]	12.5 / 15.0	12.5 / 15.0	12.5 / 15.0
Number of seeding coulters	24 / 20	28 / 23	32 / 27
OptiDisc M coulter pressure [kg]	45	45	45
OptiDisc H coulter pressure [kg]	70	70	70
DA spool valves	2	2	2
Unpressurised return line (max. 5 bar)	yes	yes	yes
Oil flow rate hydr. fan [l/min]	approx. 30	approx. 30	approx. 30

S= standard; O = option

* Weights depending on equipment

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 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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