

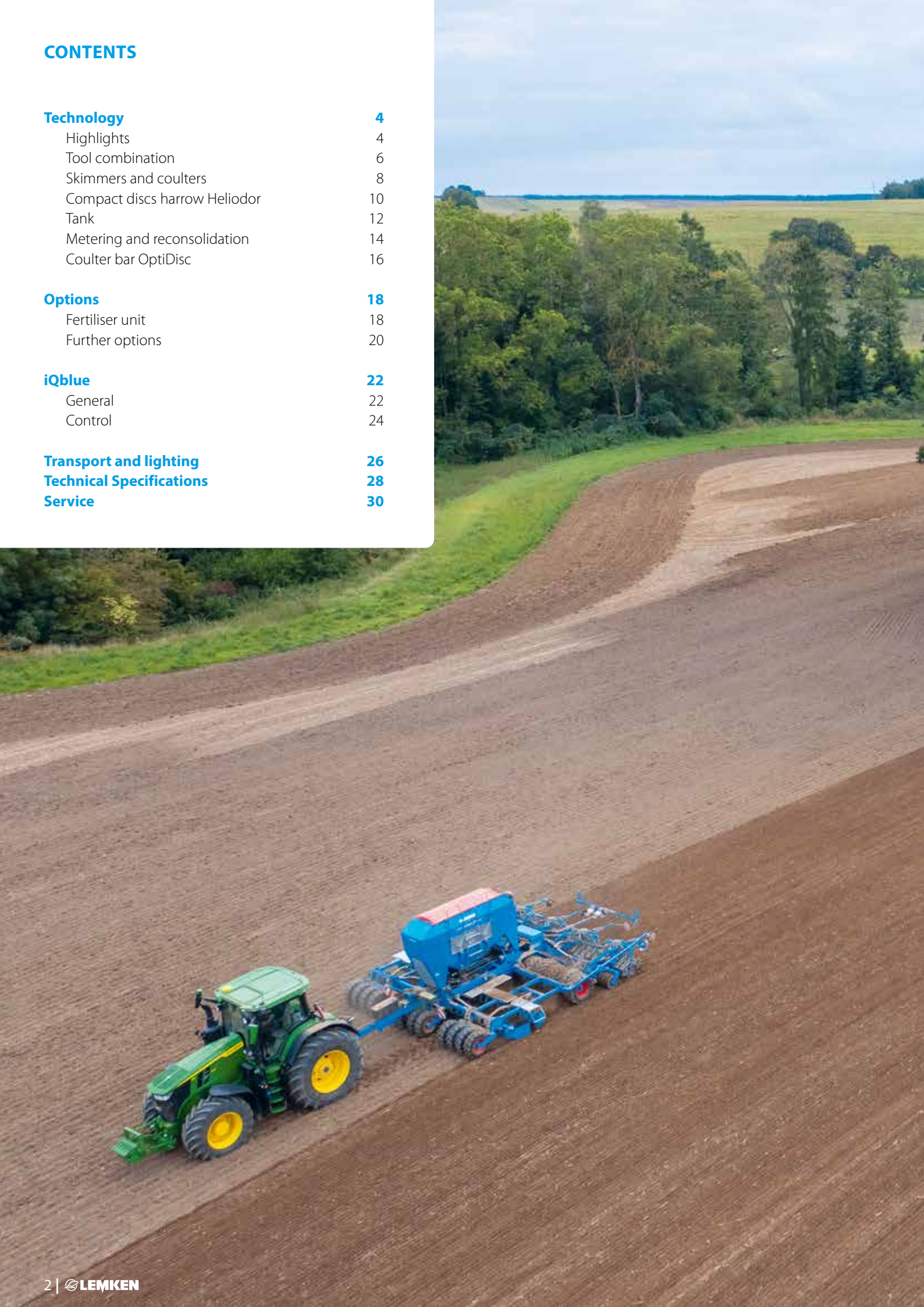
DRILL COMBINATION **SOLITAIRE DT**

 **LEMKEN** THE
AGROVISION
COMPANY



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SOLITAIR DT

EFFICIENT AND LIGHT-WEIGHT

Greatest possible efficiency with maximum precision – these were the maxims set for designing the **Solitair DT**. The result is a drill combination with truly impressive performance: **lighter, more efficient, better.**

HIGHLIGHTS SOLITAIR DT



Roller tarp or pressure-resistant lid for easy filling



Levelling tines or front tyre packer (optional) for reliable levelling or optimal reconsolidation



Easily accessible metering system for convenient calibration and fast metering roller changes



Single or divided seed hopper with a large opening

single-shot and/or double-shot placement depending on the equipment option

Parallelogram-guided double disc coulters

for precise seed placement and even field emergence



Leading implements (optional)

for targeted row pre-compaction or levelling ahead of the coulters bar



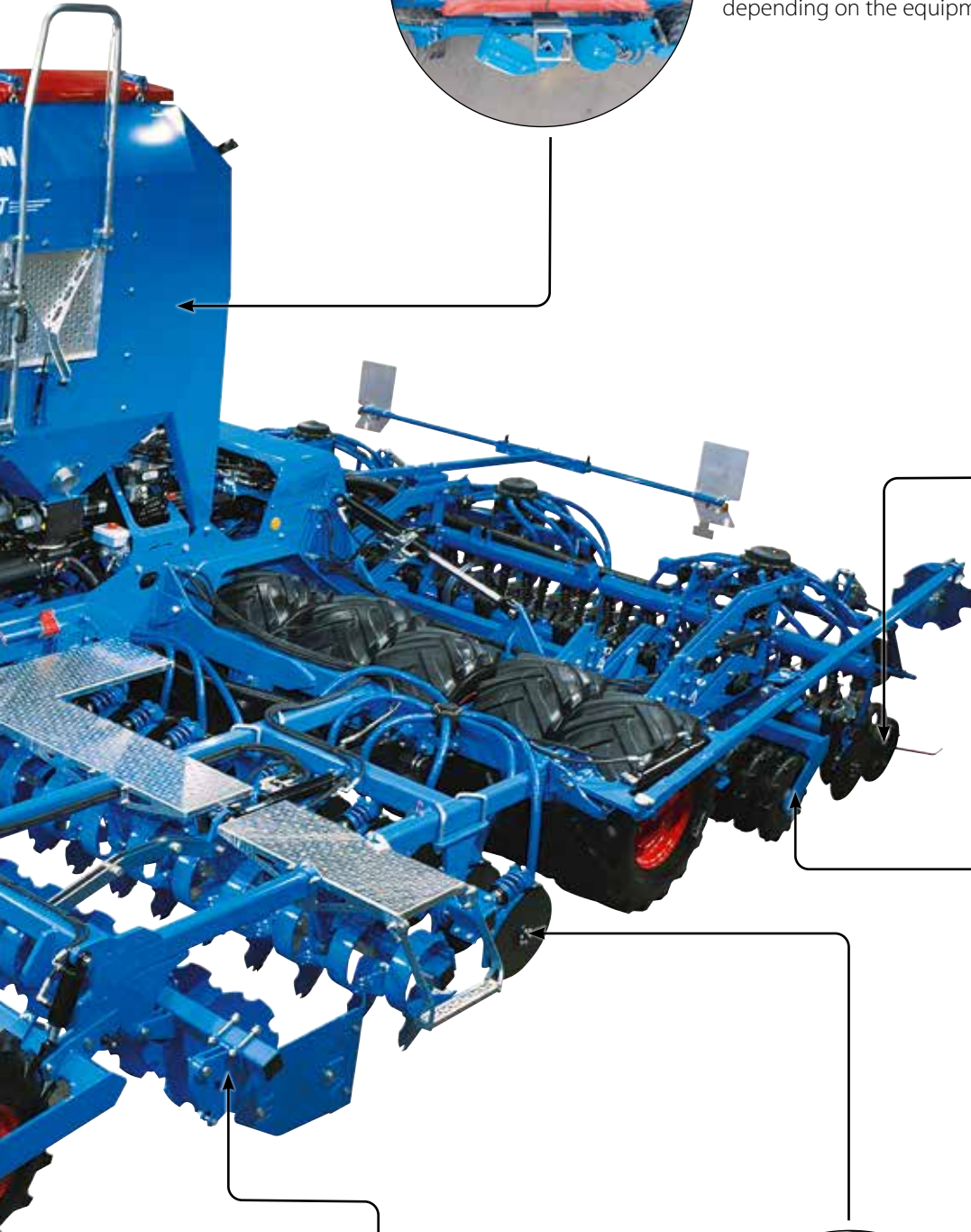
Hydraulically adjustable disc section (optional)

with corrugated or concave discs, depending on the desired intensity



Coulters bar (optional)

for fertiliser or a second type of seeds



WELL THOUGHT-OUT TOOL COME PERFECTLY COORDINATED

Reliable levelling

The wheelmark eradicator tools remove the tractor wheelmarks. The optional leading tyre packer additionally produces crumbled soil ahead of the disc section. The tyre packer can be replaced by a levelling tine section to level the ground evenly.

Optimal seedbed preparation

The integrated **Heliodor** compact disc harrow leaves an evenly loosened, finely crumbly, level seedbed. Corrugated discs are optionally available for less intensive seedbed preparation.



BINATION

Precise fertiliser placement

The fertiliser coulter bar can be attached in front of the tyre packer roller on request. Fertiliser is precisely placed at the desired depth between two rows of seeds with up to 150 kg share pressure via the double disc coulters.

Optimal reconsolidation

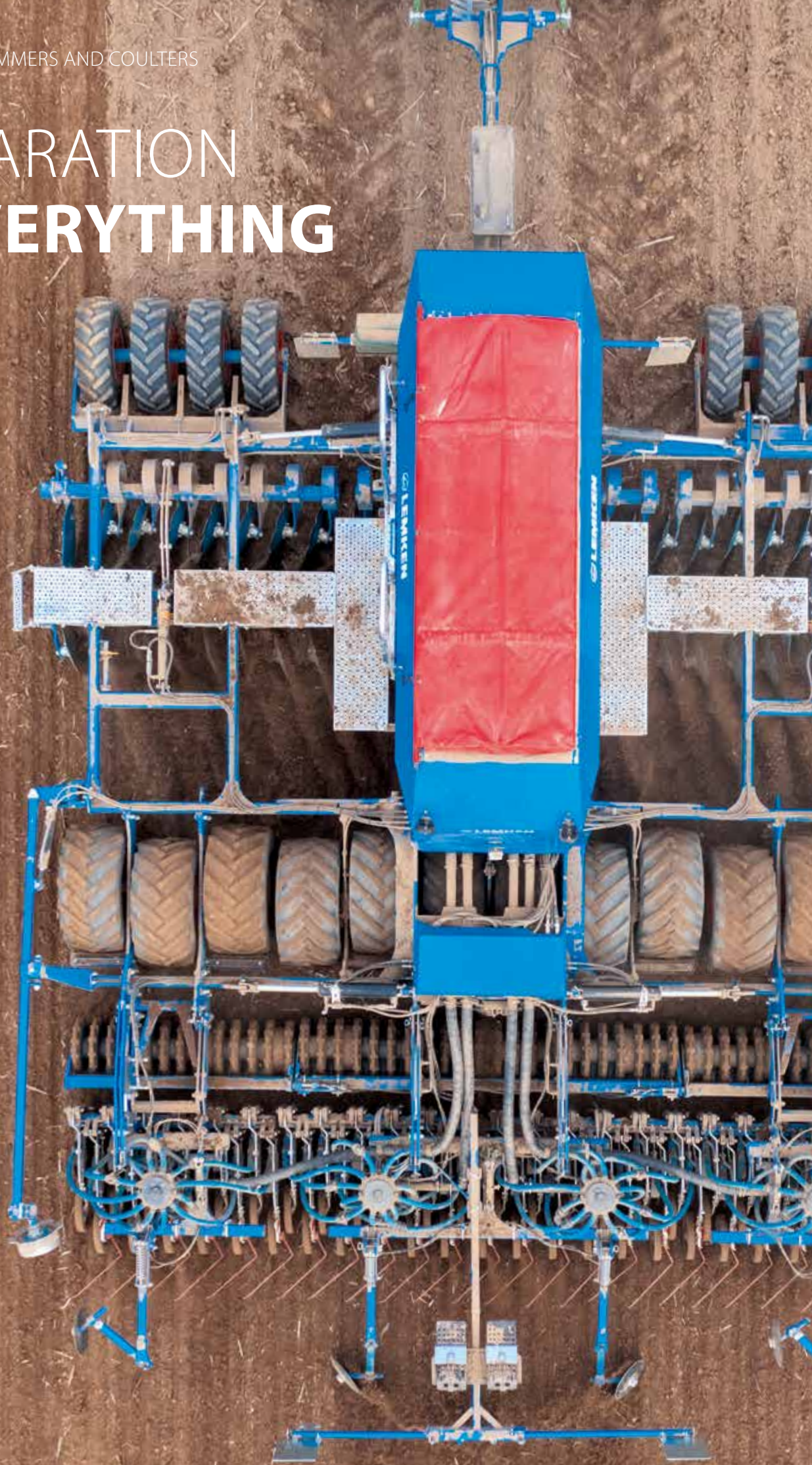
The tyre packer roller not only serves a transport function but also ensures that the entire seedbed is reconsolidated evenly. A trapeze packer roller can be optionally used for row preconsolidation.

Precise seeding

The maintenance-free parallelogram-guided double disc coulter with trailing depth control roller in the **OptiDisc** coulter bar guarantees precise seed placement and even coverage height. This creates optimal conditions for even field emergence – even at high forward speeds.



PREPARATION IS EVERYTHING





Wheelmark eradicator discs

Can be optimally adjusted to the tyre width and penetration depth, regardless of the working depth of the Heliodor section. The **IQ drill** control with integrated headland management takes care of the raising and lowering processes at the headland.



Leading tyre packer roller

For crumbling and levelling the seedbed and for reconsolidation ahead of the disc section.



Spring-mounted levelling tines

Reliably level any unevenness when used on ploughed land and can be easily adjusted from the tractor seat. For the best possible work results, the levelling tines can be used in grade or drag position.



ALWAYS THE RIGHT OPTION



Serrated concave discs

With a diameter of 465 mm and a thickness of 5 mm, these ensure good penetration into the soil, even in the most difficult conditions.



Low-draft corrugated discs

For less intensive soil mixing, the 22-mm corrugated discs have a waveform shape. These discs are particularly suitable where the germination of weeds is to be suppressed. In dry regions, corrugated discs allow water-saving seedbed preparation because only the area in front of the seeding coulters is loosened. The use of corrugated discs reduces tractive force requirements even further.



Maintenance-free disc bearing

The high-quality axial angular ball bearings ensure lasting, flawless function of the discs. The bearings are completely encapsulated so that no dirt can penetrate.



Precise depth control

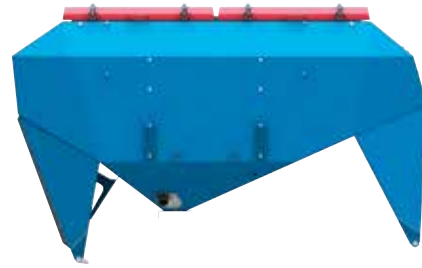
Each disc is individually attached to the frame via leaf springs for precise depth control. Unlike commonly used rubber buffers, leaf springs guarantee that the discs have significantly higher track stability during operation. Optionally, these are also available with hydraulic adjustment.



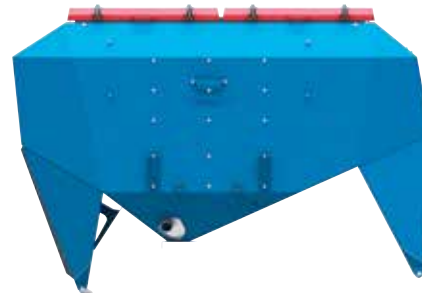
CONVENIENT FILLING

Whether straight from a big bag or from a front loader bucket – filling the **Solitair DT** is as straightforward as it gets. Never lose even a single grain or granule again!

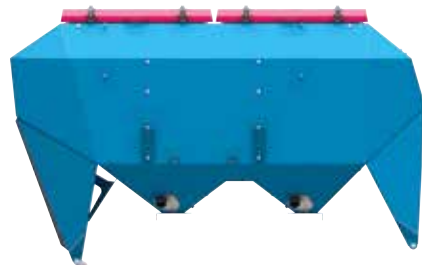




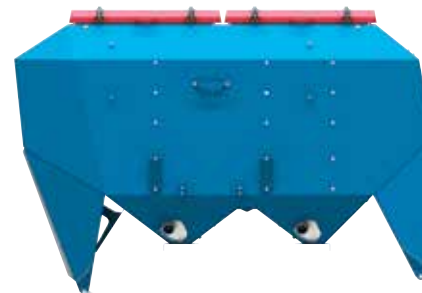
Tank volume 3,400 litres
Single tank, 4 metres width



Tank volume 4,400 litres
Single tank, 6 metres width



Tank volume 4,100 litres
Divided tank, 4 metres width



Tank volume 5,100 litres
Divided tank, 6 metres width

PRECISE METERING



Very good ergonomic access

Whether for calibration testing, adjustment or cleaning – the corrosion-resistant metering system is easily accessible



One metering system per distributor

This allows width section control even in the basic version. Automatic width section control is optionally available



Speed signal

The speed signal for metering can be from either a radar sensor on the drawbar or the speed signal of the tractor.

Metering

100% fertiliser-compatible

Tool-free seed wheel change

for fast switching between different seeds



PREPARES THE BED FOR YOUR SEEDS



Reconsolidation over the full width

The generously dimensioned tyre packer roller with a 90-cm diameter ensures even reconsolidation across the full seedbed. The staggered arrangement of the individual wheels additionally leads to better self-cleaning, reduces the tractive power requirement and ensures constant sowing, even in wet conditions.



Optimal levelling

With an additional harrow between the tyre packer roller and the seeding coulters, the seedbed can be optimally levelled.



Preconsolidation of seed rows

As an alternative to a harrow, a trapeze packer roller (420 mm diameter) can be added to the **Solitair DT** to obtain a defined pre-consolidation of rows directly in front of the **OptiDisc** double disc coulters. The roller improves both the smooth operation of the seeding coulters and the soil contact of seeds. The roller also takes over the depth guidance of the seed bar. Particularly on heavily copied terrain, the seed bar can follow the contour better. The reconsolidation (up to 333kg/m roller pressure) can be infinitely adjusted from the tractor terminal.

THE RIGHT PLACEMENT

A well thought-out coultter system

The **Solitair DT** is equipped with the maintenance-free **OptiDisc** coultter bar. This bar boasts parallelogram-controlled double disc coultters and trailing depth control rollers.

Seeds are pressed into the soil by the depth control roller to ensure even, rapid field emergence. Both coultter pressure and seed depth can be adjusted independently of each other. This ensures that seeds are always placed at exactly the same depth, even at high forward speeds and in changing soils.

The coultter system is available in a hydraulic version (up to 70 kg coultter pressure) and a mechanical version (up to 45 kg coultter pressure). The row spacing is optionally 12.5 cm or 16.7 cm.





Distributor in sowing mode



Distributor with switched tramlines

Individual tramline creation

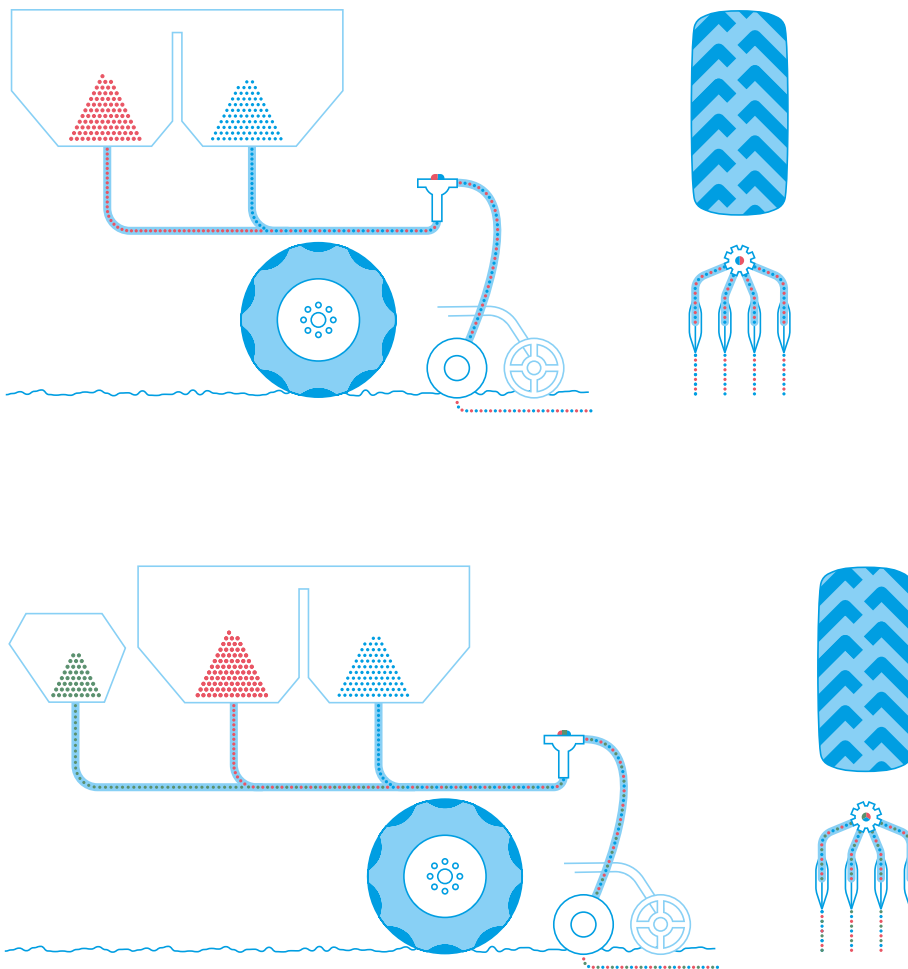
Four distribution heads positioned directly above the coulters ensure superior transverse distribution.

An integrated hydraulic tramline mechanism is optionally available for the **OptiDisc**. The symmetrical distribution of the seed tubes in tramline mode ensures that no seeds need to be returned. 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.

A BETTER START FOR YOUR CROPS

The **Solitair DT** can be used for seeding with fertilisation or for sowing different seeds. Two variants are available: In the single-shot version (1), the fertiliser and seeds or two types of seeds are placed in a shared seed furrow, whereas the double-shot version (2) places the fertiliser or second type of seeds in a line below the seedbed via separate double disc coulters.

1. Single-Shot

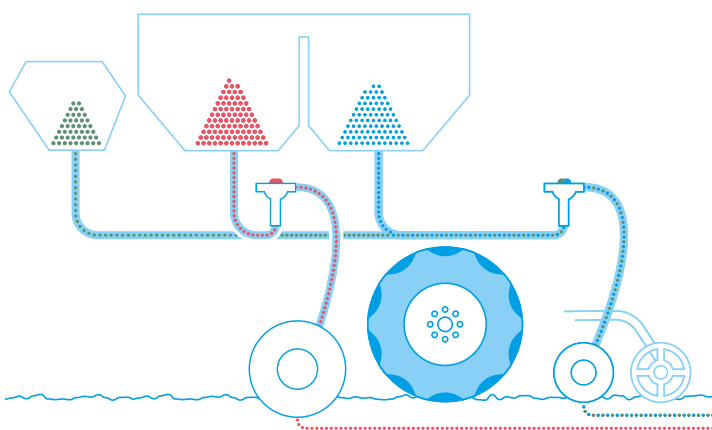
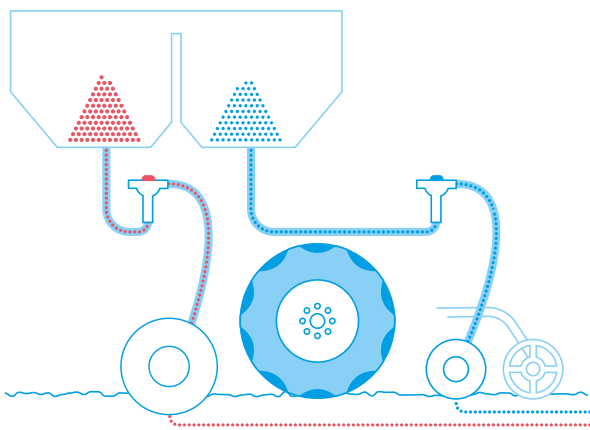


Up to three components, one seed furrow

The single-shot variant allows up to three different components to be applied via a single seeding coulters in the OptiDisc coulters bar. This is particularly useful when fertilising and drilling at the same time. When sowing catch crop mixtures with large differences in grain size distribution, it is also advisable to

meter the larger components separately from the smaller components and mix them only just ahead of the distributor. This prevents the seeds from separating in the seed hopper so that nothing stands in the way of uniform seed distribution.

2. Double-Shot



Three components, two placement processes

In the double-shot variant, the fertiliser coulters bar is used for applying one component, which can be either fertiliser or seeds. Up to two additional components are applied via the OptiDisc coulters bar. This allows farmers to respond completely flexibly to all conditions during seeding. The fertiliser coulters bar is located in front of the tyre packer roller. Fertiliser is

precisely placed at the desired drilling depth with up to 150 kg share pressure via double disc coulters (400 mm diameter). The depth at which the fertiliser is placed is adjusted via clips on the hydraulic cylinder. When seeding without under-root fertilisation, the fertiliser bar remains in the elevated position in order to protect the fertiliser coulters against wear.

ADAPTED TO YOUR NEEDS



Harrow

For good levelling and coverage of seeds, the levelling harrow and 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 reliably covers two seed rows and therefore adapts to a wide range of conditions.



Pre-emergence marker

The **Solitair DT** is optionally available with a pre-emergence marker to mark the tramline as it is created. This marker is automatically lowered when a tramline is created.



Hydraulic track markers

The hydraulic track markers are centrally located and always in the driver's field of vision. The hydraulic overload protection makes working even under difficult conditions as comfortable as possible.



Tank drainage

The tank is conveniently drained via a drainage valve on the side of the machine.



Hydraulic fan

The speed of the hydraulically driven fan is infinitely variable and is achieved even at low tractor engine speeds. The oil requirement is only 30 l/min. Variations in the tractor engine speed do not affect the speed of the fan to ensure the consistent, even delivery of seeds.



Long drawbar

The Solitair DT features a long drawbar for maximum manoeuvrability when working with wide rear wheels or twin tyres. This allows a steering angle of up to 90 degrees, even with a maximum outside tractor width of 4 m.

iQblue

THE DIGITAL WORLD OF LEMKEN

iQblue's digital solutions make your field work more efficient and speed up your office work. This leaves you more time for everything you really enjoy!

The LEMKEN **iQblue** world offers you smart products that network machines and data efficiently.



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Terminals

The hardware for efficient machine control.



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Convenient operation for increased comfort.



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MORE TIME FOR FARMING AND THE REALLY IMPORTANT THINGS IN LIFE!





CONTROL CONCEPT

IQ DRILL

IQ drill is the ISOBUS-based control concept for the **Solitair DT**. Thanks to the uniform LEMKEN design, drivers quickly find their way around.

Separate section control

Via the Multiboom function, it is possible to carry out automatic separate part-width section control for fertiliser and seed. This prevents overlaps. It is also possible to work through two application maps in parallel, so that seeds and fertiliser are only applied where they can be used efficiently.

Logical structure, intuitive operation

The system is controlled either via a LEMKEN CCI-1200 terminal or via any universal ISOBUS terminal.

In order to take full advantage of the flexibility of the Solitair DT, it is possible to display a complete side view of the machine. This makes it easy to determine which component is to be applied via the seed bar or fertiliser bar.



iQblue Go App

For the Solitair DT, the iQblue Go App is available for both Android and iOS end devices. The app establishes a wireless connection to the Solitair DT and makes it easy to handle the seed drill during calibration tests or when emptying any remaining seeds, for example.

The machine overview is still available for free. It provides a range of different information. Parameters such as the working speed or current spreading quantity can be displayed on the end device, while machine data such as the application rate, number of hectares or fault log can be read no matter where you are.



JETZT BEI
Google Play



Laden im
App Store



NO MATTER THE TIME **ALWAYS A GOOD DRIVE**





The powerful lighting of the **Solitair DT** provides an optimal view for careful drilling even at night. This also includes the uniform illumination of the dosages.

A giant in the field, safe and agile on the road: The centre wheels of the undercarriage of the Solitair DT run without hydraulic counterpressure (4 and 6 m working width) or with slight hydraulic pre-tension (9 m working width) in order not to exceed the permissible axle loads. This enables stable driving behaviour under all road conditions and at speeds of up to 40 km/h.



TECHNICAL SPECIFICATIONS **SOLITAIR DT**

| Working width | 4 m | 6 m | 9 m |
|--|--------------------|--------------------|--------------------|
| Transport width | 3 | 3 | 3 |
| Transport height | 3,57 | 3,57 | 3,99 |
| Length | 8,7 | 8,7 | 8,7 |
| Axle load* | 5.240 | 7.540 | 10.890 |
| Drawbar load* | 840 | 1.375 | 1.650 |
| Total weight* | 6.080 | 8.915 | 12-540 |
| Seed hopper volume | 3.400 | 4.400 | 4.400 |
| Tank volume double tank | 4.100 (40:60) | 5.100 (40:60) | 5.100 (40:60) |
| Filling opening single tank | 2,23 x 0,8 | 2,23 x 0,8 | 2,23 x 0,8 |
| Filling opening double tank | 2 x 1,07 x 0,8 | 2 x 1,07 x 0,8 | 2 x 1,07 x 0,8 |
| Filling height | 2,95 | 3,2 | 3,2 |
| Filling height double tank | 2,95 | 3,2 | 3,2 |
| Number of fertiliser coulters | 16 / 12 | 24 / 18 | 36 / 27 |
| Fertiliser coulter pressure | up to 150 kg max. | up to 150 kg max. | up to 150 kg max. |
| Row spacing | 12,5 / 16,7 cm | 12,5 / 16,7 cm | 12,5 / 16,7 cm |
| Number of seeding coulters | 32 / 24 | 48 / 36 | 72 / 54 |
| OptiDisc M coulter pressure | up to 45 kg | up to 45 kg | up to 45 kg |
| OptiDisc H coulter pressure | up to 70 kg | up to 70 kg | up to 70 |
| Tyre packer diameter | 90 cm | 90 cm | 90 |
| Power requirement | from 160 kW / hp | from 200 kW / hp | from 280 PS |
| DA spool valves | min. 2 | min. 2 | min. 2 |
| Unpressurised return line (max. 5 bar) | 1 | 1 | 1 |
| Oil volume hydr. fan | approx. 30 l/min | approx. 30 l/min | approx. 30 l/min |
| Lower link implement attachment | Cat. 3/4 | Cat. 3/4 | Kat. 3 / 4 |
| Drawbar implement attachment | Pin 40–50 mm diam. | Pin 40–50 mm diam. | Pin 40–50 mm diam. |
| Ball head implement attachment | K 80 | K 80 | K 80 |

* Weights may vary depending on equipment

WE'RE HERE FOR YOU

Providing a professional all-round service

On-demand assistance. All around the world. That's our LEMKEN Service. The LEMKEN team provides professional advice as well as a speedy supply of machinery and parts via: 18 convenient branches and external warehouses in Germany, our own sales companies and importers in over 50 countries, and of course a great many highly qualified sales advisers and service technicians at specialist agricultural machinery dealers.



Supplying high-quality original wear parts

Our LEMKEN original wear parts enable your LEMKEN implement to stay as it is: an original. Whichever machine you need a spare part for, we ensure that the original parts are always available for all LEMKEN implements. 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.



LEMKEN 11/23, 17516734/en. All data, dimensions and weights are subject to ongoing further technical development and are therefore not binding. Weights given are always based on standard features. All information given is subject to change without notice.

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