

WEEDER HARROW THULIT

 **LEMKEN** THE
AGROVISION
COMPANY



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LEGAL INFORMATION

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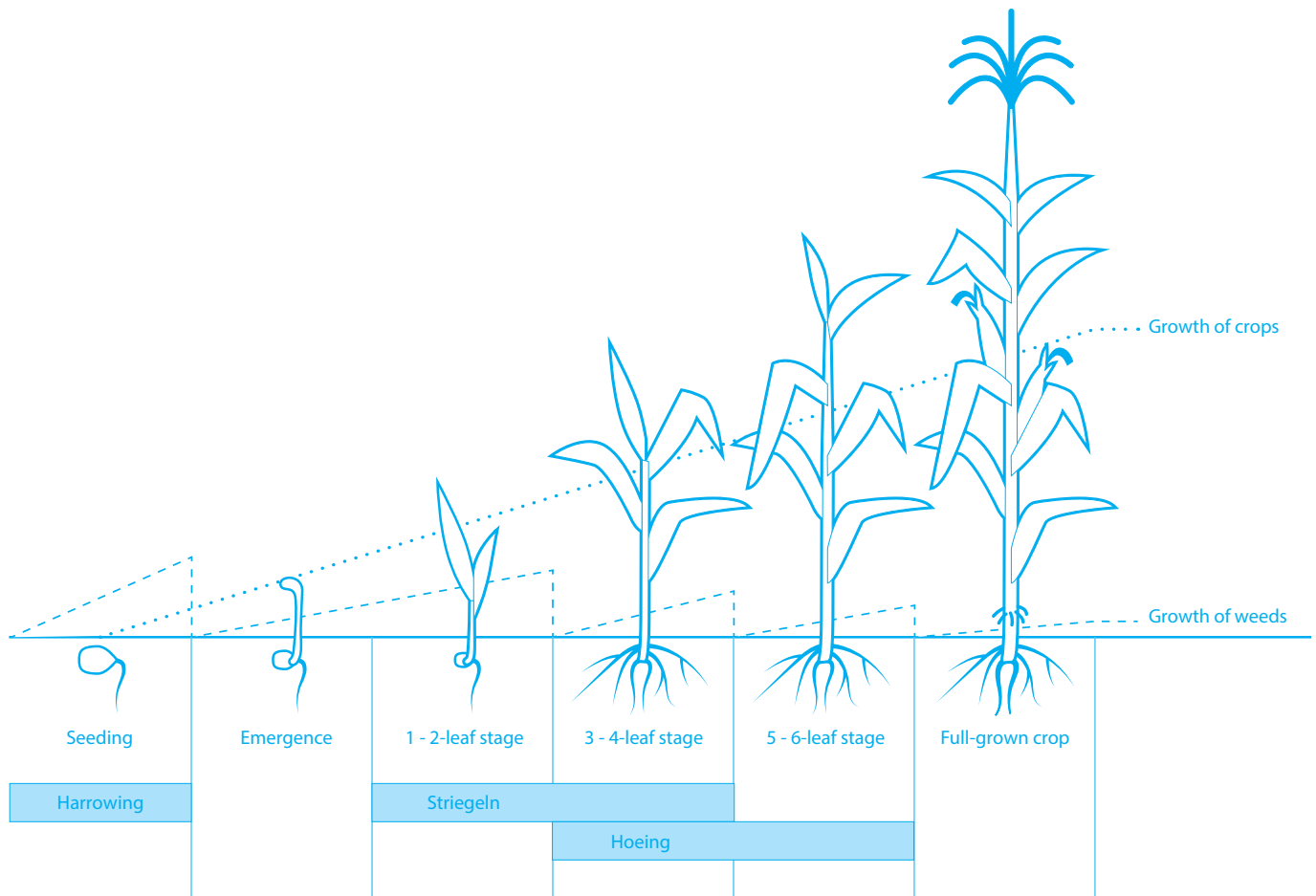
As a working farmer or contractor, you are faced with ever-changing challenges of farming in your daily work. LEMKEN wants to support you with its proven innovative ideas and products both as "YOUR PARTNER FOR NEXT LEVEL FARMING" and as the Agrovision Company.

Resource conservation in agriculture is a holistic approach that takes into account ecological, social and economic aspects to preserve the environment for future generations. Changes are ahead in crop care, above all: Consumers are demanding food producers, like you, to reduce your reliance on chemical crop care products and use environmentally compatible, nature-friendly, sustainable alternatives like mechanical weed control instead. The LEMKEN Thulit weeder harrow provides you with a proven weed management tool to help ensure your financial success and environmental sustainability. LEMKEN is focused on your environmental goals and economic success.

YOUR PARTNER FOR **NEXT LEVEL FARMING**

LOOKS NEAT AND TIDY AND THAT'S WHAT IT IS!

The LEMKEN weeder harrow tackles weeds mechanically using sophisticated technology. This harrow takes care of several important tasks during the growth cycle of many crops: It tackles weeds and breaks up crusted soils. This not only helps reduce the amount of chemical crop care products used, but also has positive effects on the soil because aeration powerfully supports nitrogen mineralisation. Harrowing additionally promotes tillering in grain crops and has a positive impact on the water balance in the soil.



The **Thulit** weeder harrow extends the time window for mechanical weed control and comes into its own where hoeing technology reaches its limits. When used in combination, weeder harrows and hoeing machines help to achieve weed-free crops without using chemical crop care products.

Space to breathe for crops and soils – the **Thulit** weeder harrow takes care of a wide range of tasks.



Eliminates weeds, which compete with crops for resources such as water, light and nutrients



Aerates the soil



Promotes mineralisation



Reduces water evaporation by breaking the capillary effect



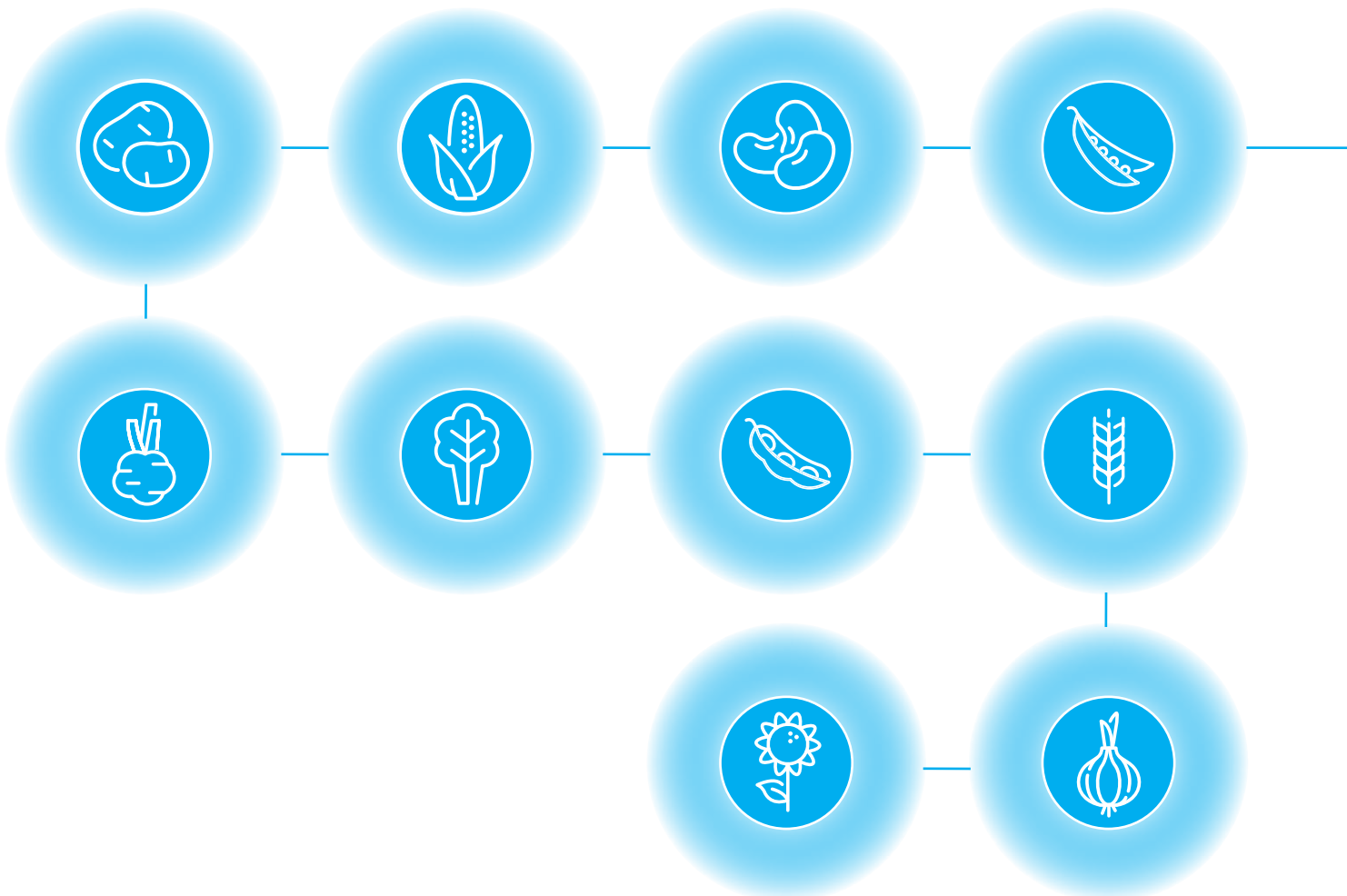
Levels the soil surface



Promotes tillering

VERSATILE ON THE FIELD

Mechanical weed control has become an integral part of everyday agricultural practice on all types of farms. Conventional and organic farmers are relying on mechanical weed control more and more to keep their crops clean and healthy. Crops benefit from mechanical cultivation in many ways. It begins by promoting root growth that leads to healthy growth and strong yields. The expert design of the **Thulit** weeder harrow has created an excellent new mechanical weeding tool for farmers everywhere. Thanks to its constant tine pressure and quick and easy adjustment, it can be used in a wide variety of crops and plant development stages.





LEMKEN

Thulit

EVERY DETAIL A HIGHLIGHT

The LEMKEN **Thulit** is available in 6 m and 9 m widths, with more versions coming in the future.

**Continuously variable
tine pressure adjustment**

from the cab during
operation

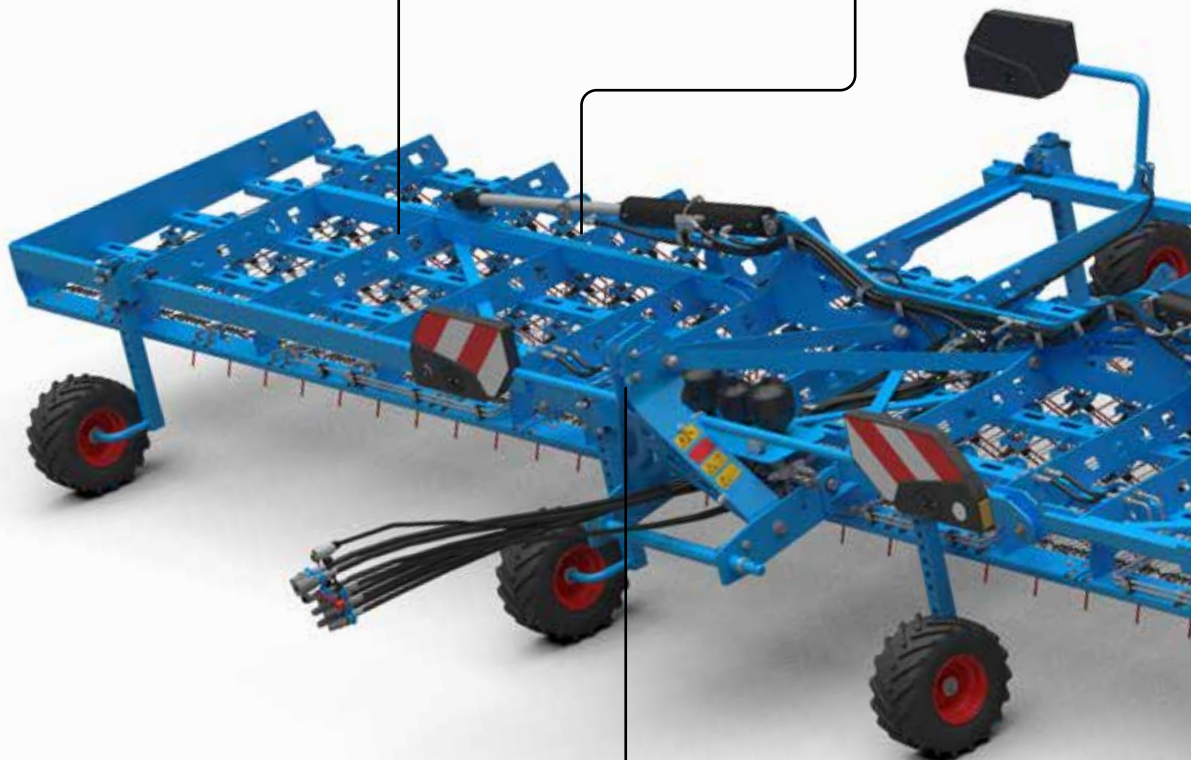


100 g – 5,000 g tine pressure
of the harrow tines



Compact folding

thanks to automatically lifting tines
for safe transport



Four-bar frame design

for a better view of the working section

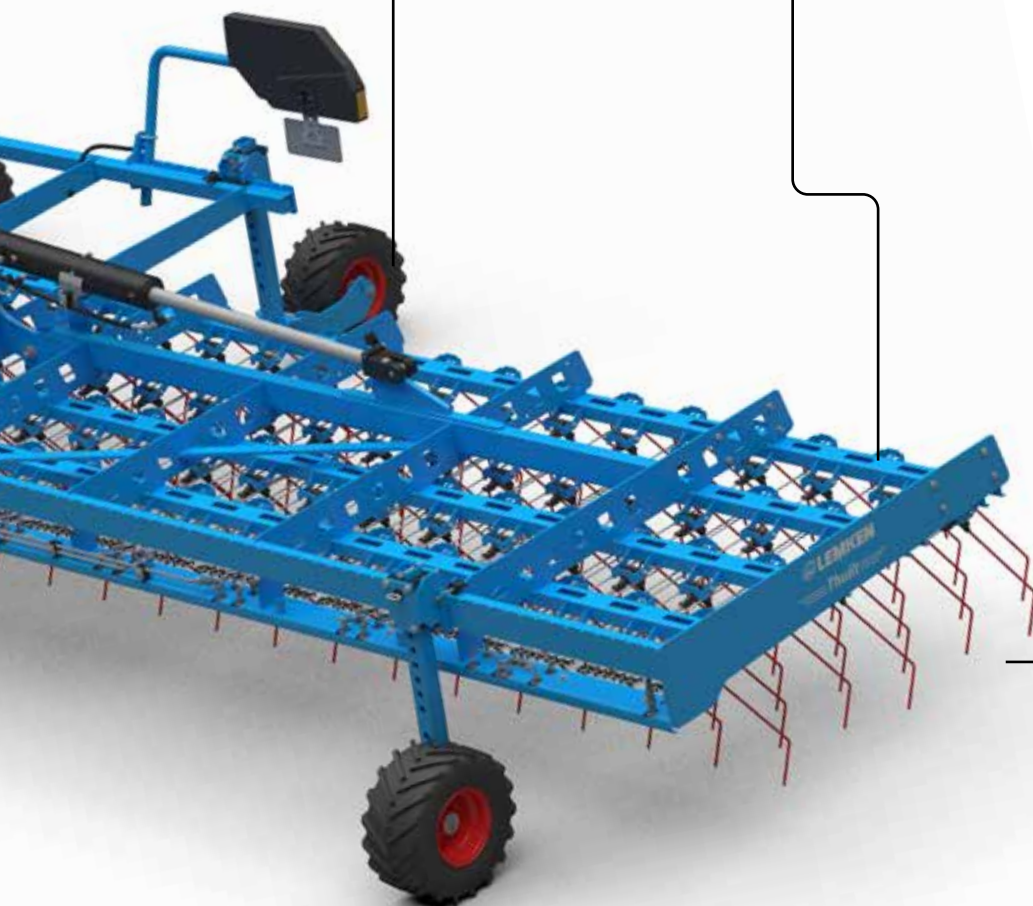


Optional rear support wheels

for precise guidance parallel to the ground



**8 rows of tines with
31.25-mm tine spacing**
for blockage-free work



EVEN MORE INDEPENDENT – THE HARROW 3.0

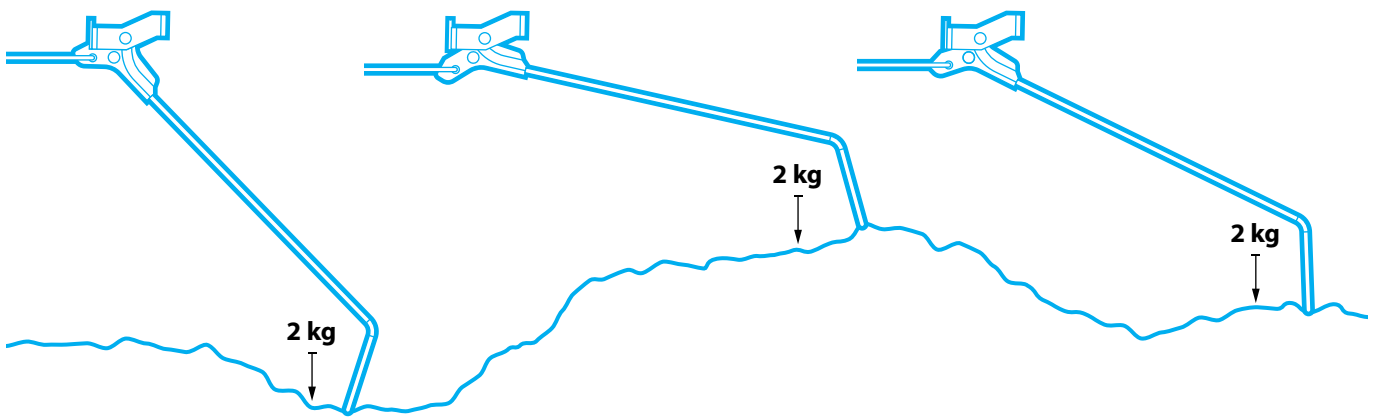
The challenges to successful weed control are growing constantly. One key to success is to start mechanical control as early as possible in small and sensitive crops. Our **Thulit** weeder harrow marks the beginning of a new generation of these implements.

While 1st generation harrows were only of limited use because their tines were directly attached, 2nd generation harrows featured indirect spring suspension of the tines and could therefore be used in special and ridge crops. However, even 2nd generation harrows were unable to reliably produce the desired constant tine pressure across the entire travel of the harrow tines.

We have now achieved our key goal with LEMKEN's 3rd generation **Thulit** weeder harrow: Hydraulic tine pressure adjustment ensures that constant contact pressure can be maintained at any setting across the entire travel of the harrow tines.

This implement therefore opens up independent harrowing of all crops, at any time and at all developmental stages of plants, whether in organic or conventional farming.





Hydraulic tine pressure adjustment

The tine pressure can be infinitely adjusted from the tractor cab in many small increments, even while driving. The settings range from gentle harrowing at a little less than the tine weight (<100 g) to a maximum contact force of 5,000 g per tine.

The indirect loading of the harrow tines ensures constant pressure in every application, both on level surfaces and when working in ridge crops. For safe road transport, the tines can simply be folded up via the toggle switch in the cab. Changing the tines is also effortless: Tines are replaced quickly and easily by loosening just one screw.

Tine geometry

The optimally selected tine geometry with a 120° curvature and a diagonal length of 575 mm ensures constant tine pressure regardless of the tine position.

The tines have a diameter of 8 mm. This gives them excellent performance and directional stability. The tine diameter significantly impacts on the ground contour following action and the force they exert to the ground. It also gives the tines sufficient lateral stability to reliably remove any weed and still prevent lateral deflection. As a result, work is performed evenly across the full machine width without overlaps or gaps. The tines have a large 120 mm wear area to ensure a very long service life.

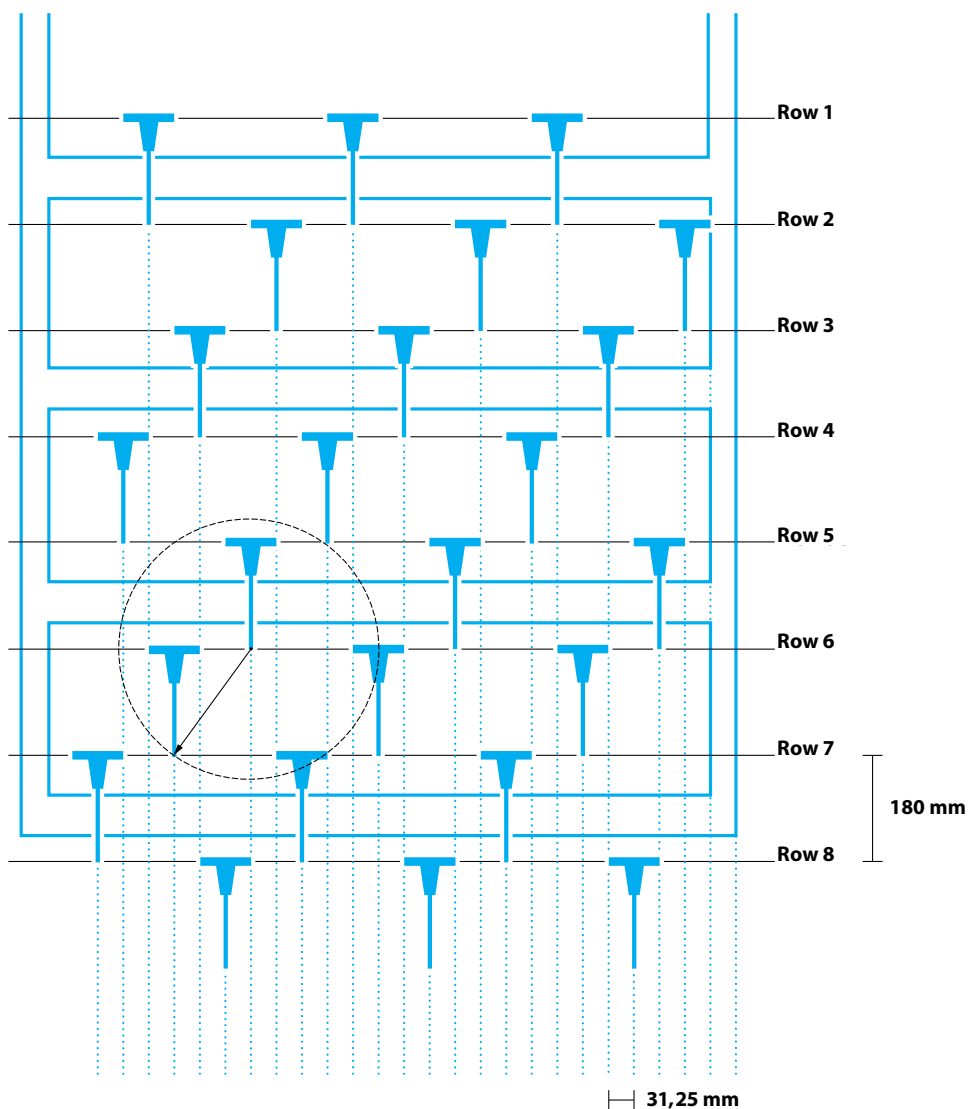
PERFECTLY FRAMED

4 bars and 8 rows

For an even clearer view of your work, the LEMKEN **Thulit** features a four-bar frame design instead of eight bars. Thanks to the hydraulic system, the driver's field of vision is not restricted by springs. With fewer bars and moving parts in the harrow frame, the red tines are clearly visible, and work results can be checked earlier and more accurately.

The right distance for the right result

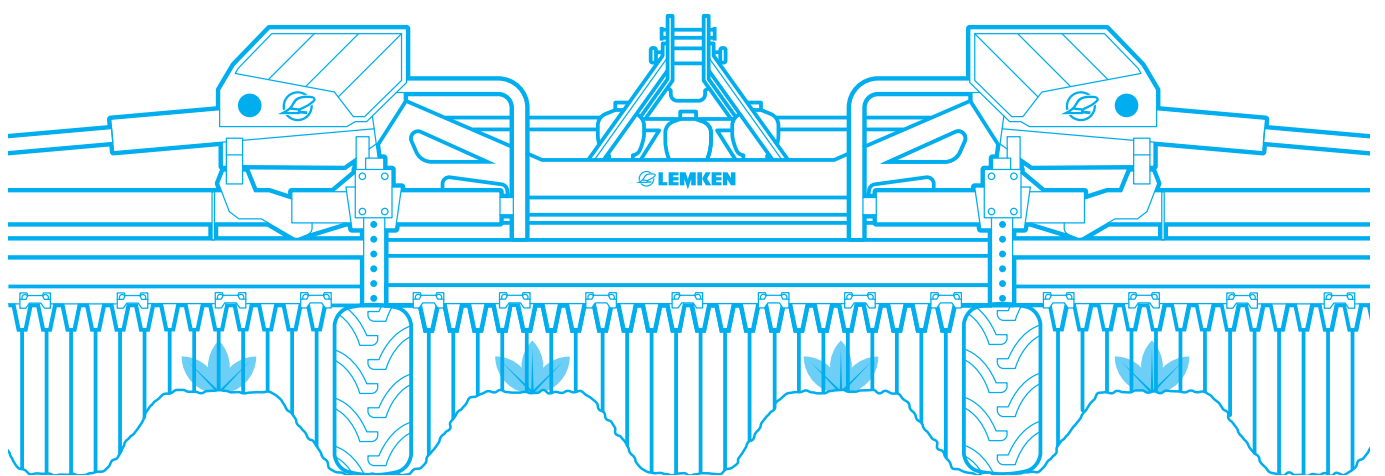
The unique 31.25 mm tine spacing, 8 rows of tines and an asymmetrical tine arrangement have created 15% larger diagonal tine clearance compared to conventional harrows. As a result, the **Thulit** works almost without blockages, even with large volumes of organic matter.





Great clearance

The LEMKEN **Thulit** weeder harrow also boasts a large clearance. The frame has an optimised 450 mm underframe clearance, and its underside is free of any springs or other sharp components to ensure plants don't get caught. This makes harrowing effortless, even in ridge crops or at late growth stages.



A WELL BALANCED LIGHTWEIGHT

As light as possible and as heavy as necessary

Thanks to its well-thought-out design, the LEMKEN **Thulit** is extremely stable and yet as light as possible. At the same time, it is heavy enough to make the most of its optimal 5,000 g tine pressure to produce outstanding results.





Frame

The unique frame design with 4 bars and 8 rows ensures that the **Thulit** frame is exceptionally stable. With a reduced number of bars, the beam profiles can be designed for superior stability, while also keeping the total weight low.

 **LEMKEN**

≡ *Thulit* ≡



Safe folding concept

Folding the harrow tines into their transport position facilitates safe and compact road transport.

Tines can be raised quickly, making bent tines on the headland or trapped foreign objects a thing of the past. Single-sided folding is optionally available so that the two outer working sections can be raised separately. This also allows the implement to be used half folded.

Quick-change tine system

The tines of the **Thulit** can be changed without spending valuable time dismantling parts. Tines are changed quickly and easily in three steps:



Remove the connecting rod without tools



Loosen the screw



Remove the harrow tine

Optional support wheels

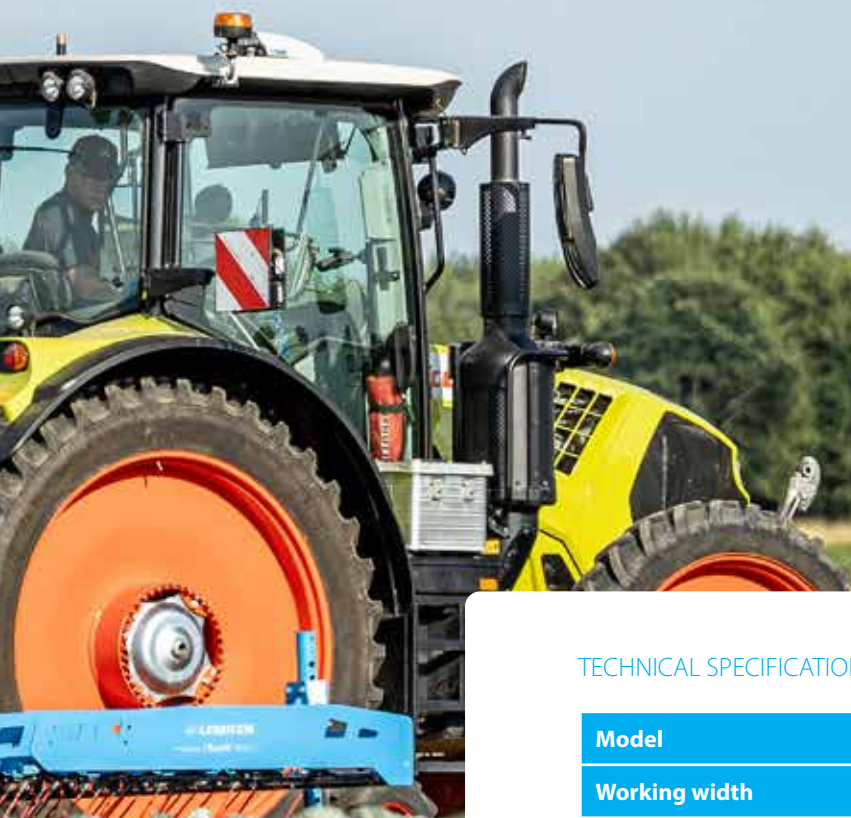
The LEMKEN **Thulit** can be optionally equipped with two or four support wheels. Their height can be easily set on the profile toolbar. This also allows drivers to adjust how aggressively the tines penetrate the soil. The profile toolbar also makes it easy to adjust the width of the support wheels.

The following support wheel options are available:

- Front: 2 or 4 rigid support wheels
- Rear: 2 or 4 rotating support wheels with trailing harrow







TECHNICAL SPECIFICATIONS THULIT

Model	Thulit MF/600	Thulit MF/900
Working width	6 m	9 m
Transport width	2.95 m	2.95 m
Transport height	2.20 m	3.68 m
Weight	960 kg	1,440 kg
Number of front support wheels	2	2/4
Number of rear support wheels	2	2/4
Tyre size	16/6.5-8	16/6.5-8
Tine pressure	100-5,000 g	100-5,000 g
Tine diameter	8 mm	8 mm
Tine distance	31.25 mm	31.25 mm
Beam spacing	180 mm	180 mm
Underframe clearance	450 mm	450 mm
Power requirement	from 45 kW / 60 hp	from 70 kW / 95 hp
DA spool valves	min. 2	min. 2
Unpressurised return line (max. 5 bar)	1	1
Lower link implement attachment	Cat. 2/3	Cat. 2/3
Upper link implement attachment	Cat. 2/3	Cat. 2/3





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 closely with farmers and our support team around the world to keep improving agriculture. We put our passion and extensive expertise into the development of practice-oriented technology. As a result, we provide you with customizable machines that offer the right solution for your individual requirements. Our entire product portfolio stands out through its excellent user-friendliness in daily work. We are committed to continuously improving our range of implements.

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

vice. This enables us to respond quickly to the wide range of challenges found in today's agricultural practices.

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 setup or anytime you have a question. Our remote maintenance system ensures that you receive help very quickly and easily without having to wait for an appointment.



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.

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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