FERTILISER SPREADERS
SPICA, **TAURI** AND **POLARIS**

LEMKEN
The Agrovision Company

CONTENTS

Fertilisation accounts for about a third of the operating costs in arable farming. That's why the technology used is all the more important to minimise losses and increase both efficacy and precision. Five fertiliser spreader models in three performance ranges make your work easier and support you in reaching your goals. Experience Spica, Tauri and Polaris – fertilising precision in LEMKEN Blue.

BECAUSE IT'S EASY

Filling made easy
Whether straight from a big bag or a front loader bucket – with a tank width of over 2.20 metres, filling is as straightforward as can be. Never lose even a single grain or granule again.

Drainage – down to the very last granule

The inclined gate combined with the easily installed feeder chute ensure that the tank drains completely and can be cleaned effortlessly. So that your spreader will give you lasting joy.

Calibration testing in no time

The feeder chute required for calibration is quick and easy to install without any need for tools. The bucket also needed for calibration testing can simply be attached to the chute. Everything is therefore at hand for supremely comfortable calibration.

A QUESTION OF ADJUSTMENT

APPLICATION RATE

Manual adjustment
In the Spica 8 and Tauri 8 models, operators set the application rate manually on the spreader. A clear scale allows the gate to be adjusted with great precision down to the kilo.

Speed-dependent adjustment
In the Tauri 12, Polaris 12 and Polaris 14, a weighing cell automatically adjusts the gate openings dependent on speed to ensure that there is neither over-fertilisation nor under-fertilisation in any section. This guarantees a reliable even application.

WORKING WIDTH

Manual adjustment
In the Spica 8 to Polaris 12 models, error-free, precise manual adjustment is supported by a clear, easy-to-read scale on the spreader.

Electronic adjustment
The working width of the Polaris 14 is adjusted from the terminal via the settings menu. The adjustment causes the feeder to be swivelled electronically and the fertiliser drop point to be adapted to the set working width.

FERTITEST – SPREADING TABLES ARE SO PASSÉ

Correct adjustment is an essential prerequisite for fertilisation that is precisely aligned with needs. By using the right configuration, you ensure that you use fertiliser with maximum efficiency to achieve the intended fertilisation outcomes. It is important to keep in mind that each type of fertiliser requires different, specific settings.

The **LEMKEN FERTITEST app** was developed to enable you to determine the correct settings as easily as possible. This free app delivers the correct settings for your fertiliser spreader quickly and easily right to your fingertips. We suggest that you perform a calibration test and check the working width to ensure maximum precision.
You can then simply transfer the resulting values to your fertiliser spreader. In the models of the 8 series, this is done manually on the spreader, while in models with ISOBUS control (12 and 14), you enter the calculated settings via the terminal. Results can also be exported and transferred via a USB stick or memory card to make it even easier to transfer values to an ISOBUS terminal.

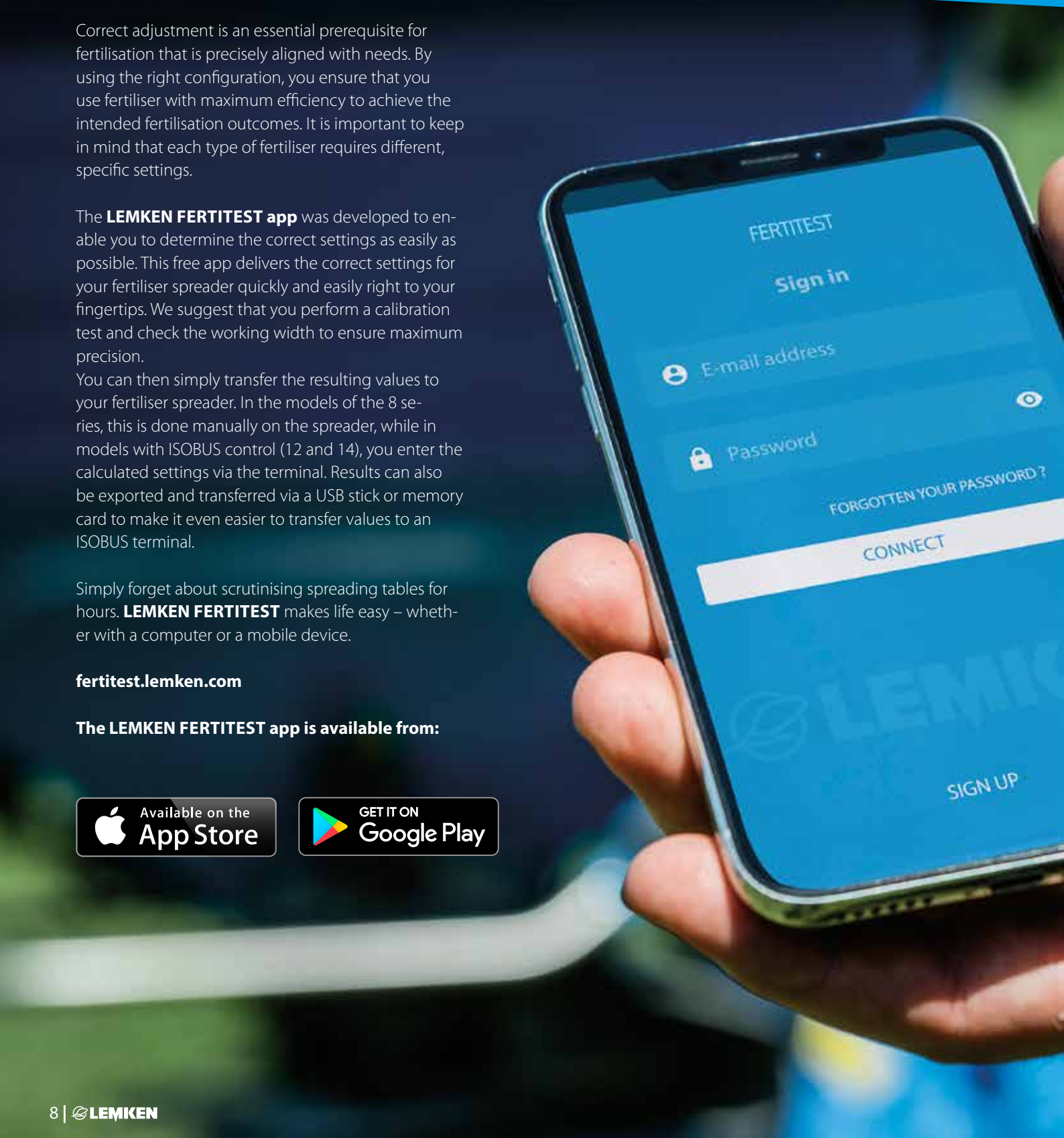
Simply forget about scrutinising spreading tables for hours. **LEMKEN FERTITEST** makes life easy – whether with a computer or a mobile device.

fertitest.lemken.com

The LEMKEN FERTITEST app is available from:

Available on the App Store

GET IT ON Google Play



Only four steps to determine the correct calibration values:

1. Select the material to be spread: mineral fertiliser, natural fertiliser, slug pellets or seeds
2. Select the exact variety of the chosen material
3. Select the fertiliser spreader model and spreader vane type, working width, ground speed and application rate
4. Receive your recommended settings

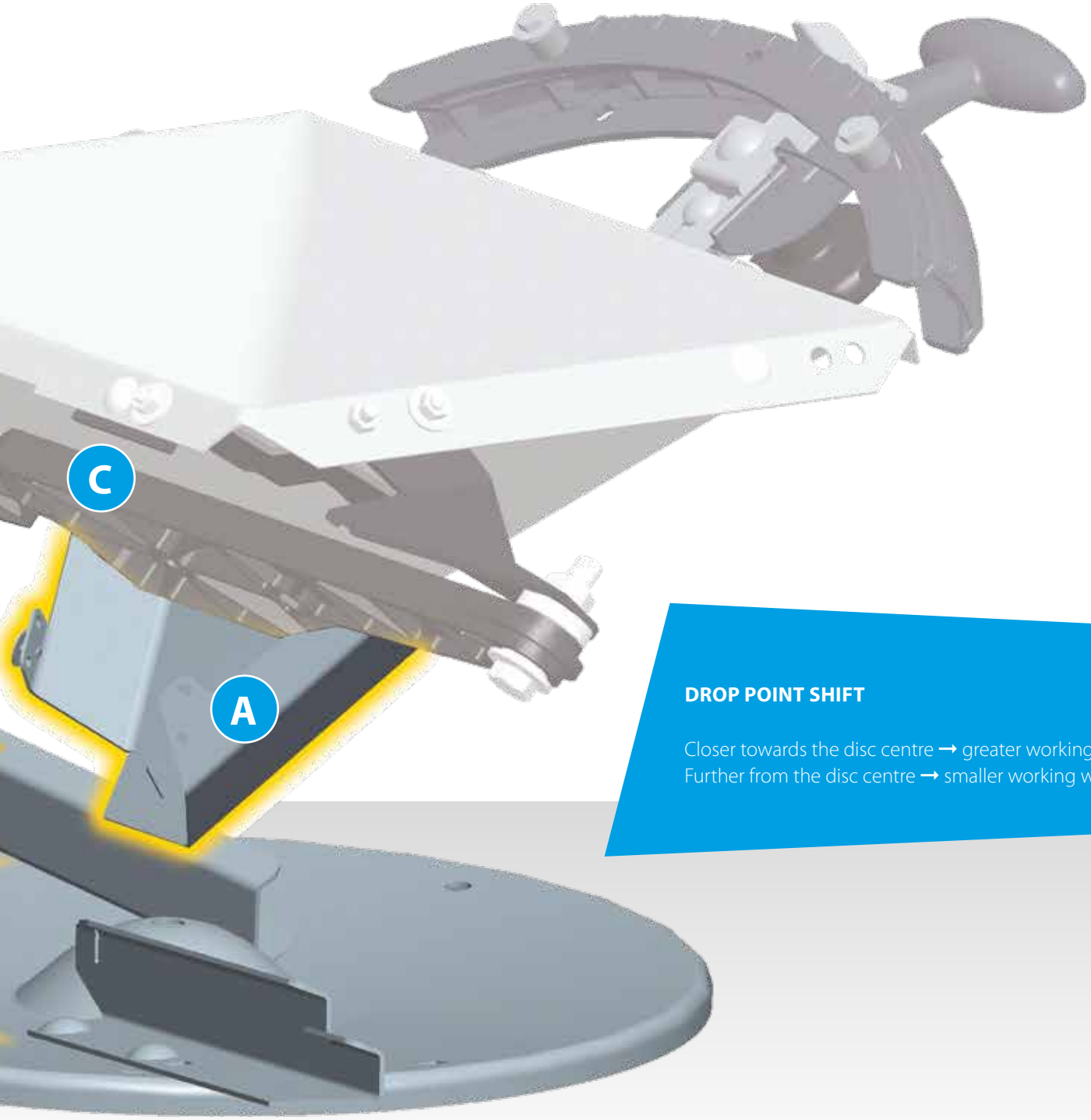
FERTIWAY
WORKING WIDTH CONTROL THAT SETS NEW BENCHMARKS

The sophisticated **FERTIWAY system** regulates the working width by changing the fertiliser drop point. This technology has two major advantages:
First, fertiliser granules remain intact without breakage.
Second, granule abrasion is prevented.

A **Infinitely variable feeder**
The inclined feeder supplies fertiliser precisely and directly to the spreader disc.
The resulting "chute effect" slightly accelerates the fertiliser material.

B **Drop point**

C **The inclined gate** can be opened and closed instantaneously and ensures complete drainage, regardless of the weight still in the tank.



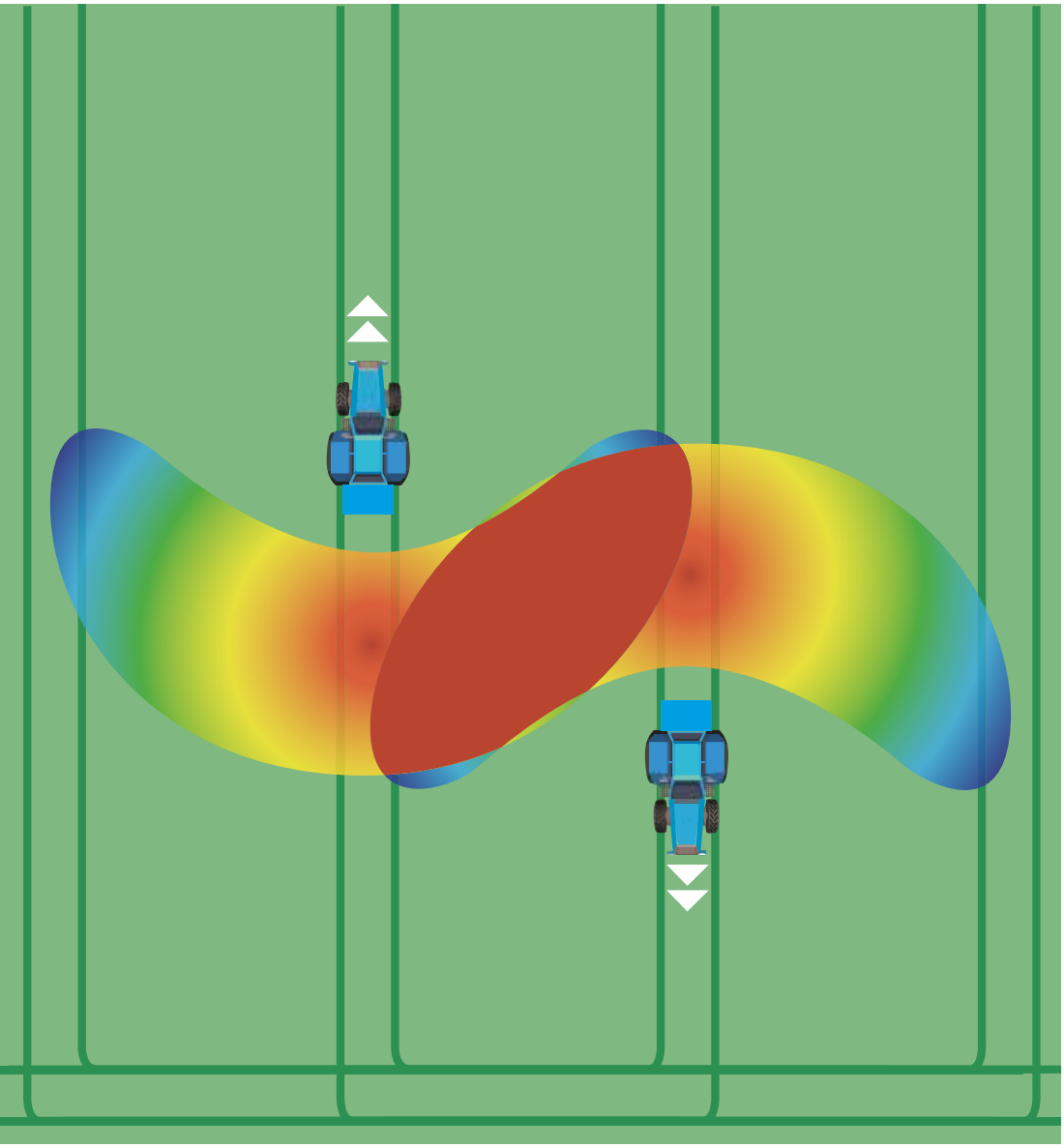
DROP POINT SHIFT

Closer towards the disc centre → greater working width
Further from the disc centre → smaller working width

SPREADING PATTERN
PERFECT DISTRIBUTION

Overlap

LEMKEN fertiliser spreaders incorporate state-of-the-art technology to ensure up to fourfold overlap between fertiliser layers between one pass and the next. This overlap produces a highly homogeneous spreading pattern. Thanks to sophisticated spreading technology, fertiliser is reliably and optimally distributed even with very large working widths of up to 50 metres.



Crescent-shaped spreading pattern
Centrifugal spreaders always produce a crescent-shaped spreading pattern, never a straight one. The **ECONOV** (shown, with 12 width sections) and W-Control (6 width sections) section control systems are able to map actual spreading patterns accurately in a crescent shape and to activate and deactivate sections accordingly along headland borders.

SPICA
SMALL YET POWERFUL

Loss-free filling, reliable adjustments and precise application – the **Spica** embodies a focus on the essential. Sometimes, that's all you need to achieve your desired goals.

BRILLIANT DOWN TO THE TINIEST DETAIL

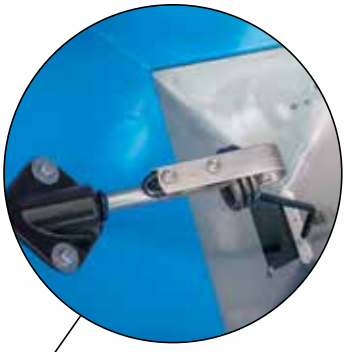
Robust dip-coating
for a long spreader service life without rust

Angle adjustment and display
for precise late top dressing

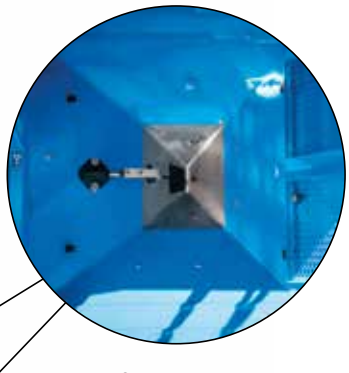
Easily readable scale
for accurate rate adjustment down to the kilo

Working width
up to 24 metres

Tank volume
from 900 to 2,100 litres



Gentle, oscillating agitator
for an even flow of granulate



Two funnel outlets
and the inclined gate ensure an even flow of fertiliser, even on slopes or when fill levels are low

Mobile feeder chute
for comfortable calibration testing and easy drainage

ECOBORD stainless steel spreader vane
for spreading along field borders. Thanks to this border spreader system, you not only comply with EU directives, but also protect the environment.

THE SPICA 8
SPEED ON THE FIELD

With tank volumes from 900 to 2,100 litres and up to 24 metres spreading width, the **Spica** is ideal for smaller farming businesses, above all. This implement was designed for making the handling of your fertiliser spreader as easy as possible. This goal was achieved totally, with easy mounting, filling and adjusting – it only takes a few steps before you're all set to work on your fields.
The operator controls the spreader remotely from the cab via intuitively assigned buttons. With various optional equipment from a wide range of accessories, the **Spica** leaves nothing to be desired in terms of operator comfort.

BORDER SPREADING
WITH EASE AND COMFORT

In the Spica 8, **ECOBORD** spreader vanes are used to ensure that no fertiliser is applied beyond the field boundaries. These vanes are quick and easy to attach to the spreader discs without any special tools.

Border spreader acc. to EN-13739-1

Your fertiliser spreader can optionally be equipped with the **TRIBORD 2D** electrical border spreader system, which allows you to switch between the full working width and border spreading from the comfort of the operator cab.

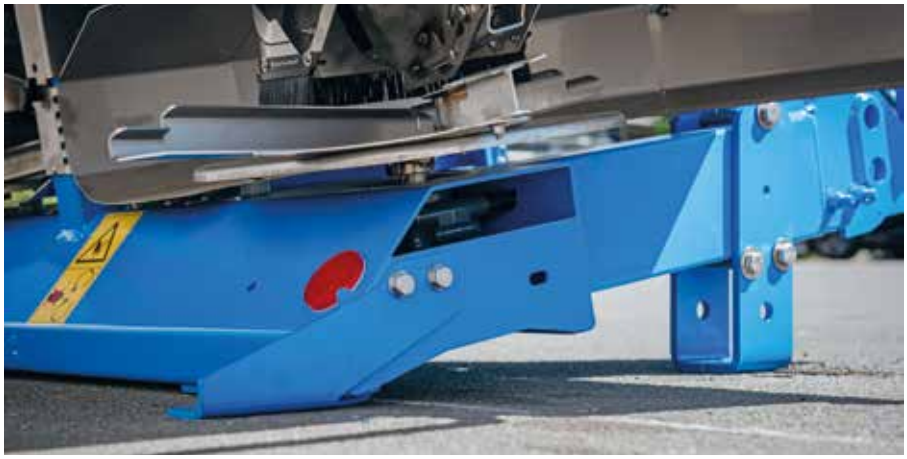
EVEN GREATER FUNCTIONALITY WITH GENUINE SPARE PARTS

Perfectly fitting tank lid
to keep your fertiliser dry.

The Tauri tarpaulin (shown here) is identical with the optional Spica tarpaulin.

Calibration test kit
comprising a collection tray and spreading table.

Application rate reduction
to allow small volumes between three and 60 kilograms to be applied.



Stands
for easy mounting and dismounting without any need for pallets.

SPICA 8 TECHNICAL DATA

	Working width 9–18 m		Working width 12–24 m		
Max. tank size	900 l	1,500 l	900 l	1,500 l	2,100 l
Overall width	2.36 m		2.36 m		
Filling dimensions	1.23 x 2.21 m		1.23 x 2.21 m		
Filling height	0.87 m		0.87 m	1.05 m	1.25 m
Weight (approx.)	300 kg		300 kg	345 kg	385 kg
Load capacity	2,100 kg		2,100 kg		

TAURI
READY FOR ANYTHING

The Tauri models offer not only larger tank volumes and greater spreading widths, but also more comfort, especially with the **Tauri 12** model. With its wide range of features, the Tauri is the perfect match for mixed and livestock farming businesses.

OPTIMAL EQUIPMENT

Tank volumes
between 1,500 and 3,000 litres

Robust dip-coating
for a long spreader service life without rust

ISOBUS preparation
for easy connection of an ISOBUS terminal to the Tauri 12

Angle adjustment and display
for precise late top dressing

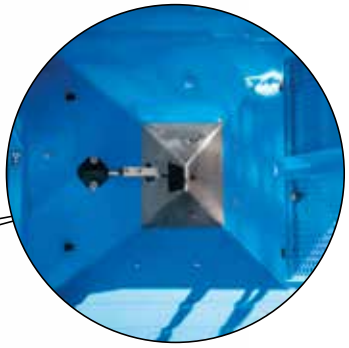
Tribord 2D border spreader
for switching between the full working width and border spreading

Easily readable scale
for accurate rate adjustment down to the kilo

Weighing unit (with the Tauri 12)
for even more precise application

Gentle, oscillating agitator
for an even flow of granulate

Extra-wide extensions
for easy filling



Two funnel outlets
and the inclined gate ensure an even flow of fertiliser, even on slopes or when fill levels are low

ECOBORD stainless steel spreader vane
for spreading along field borders

Mobile feeder chute
for comfortable calibration testing and easy drainage

Spreading width
up to 36 metres

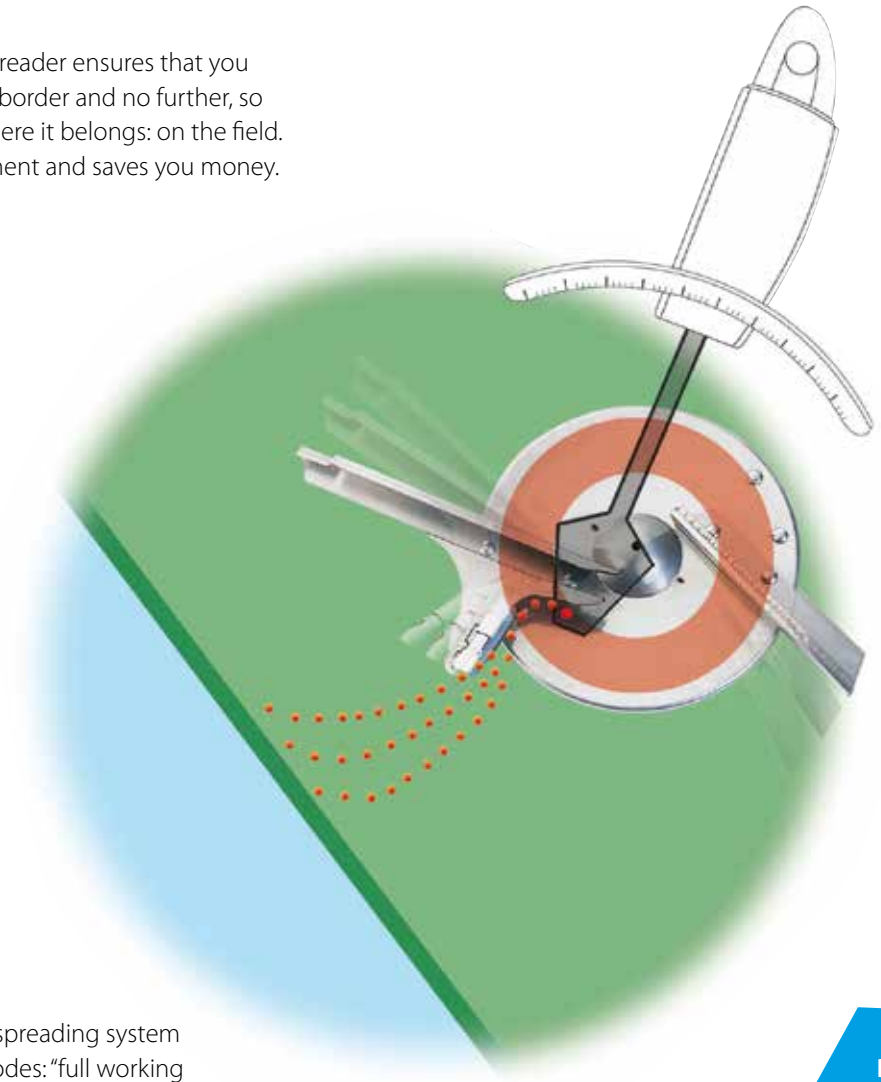
BORDER SPREADING WITH EASE AND COMFORT

In the Tauri, **ECOBORD** spreader vanes are used along borders to ensure that no fertiliser is applied beyond the field boundaries. These form part of the standard equipment in both the Tauri 8 and Tauri 12. The spreader vanes are quick and easy to attach to the spreader discs without any special tools.

Your fertiliser spreader can optionally be equipped with the **TRIBORD 2D** electrical border spreader system on the right-hand side, which allows you to switch between the full working width and border spreading from the comfort of the operator cab.

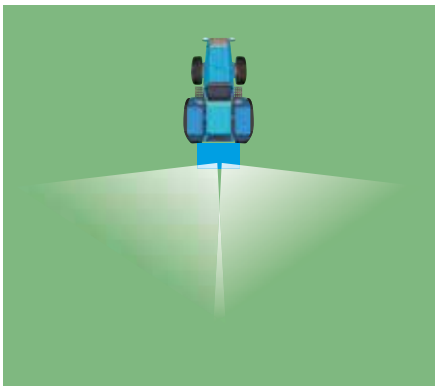
TRIBORD 2D
BORDER SPREADER SYSTEM

Precise borders
The **Tribord 2D** border spreader ensures that you spread exactly to the field border and no further, so that you apply fertiliser where it belongs: on the field. This protects the environment and saves you money.

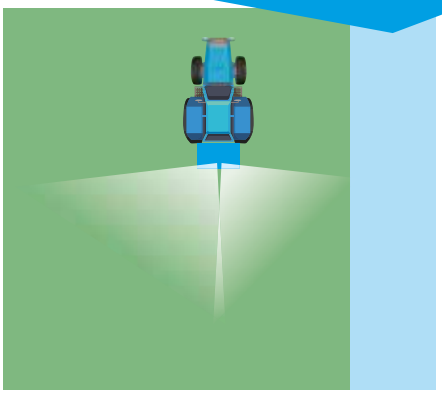


Spreading modes
The **TRIBORD 2D** border spreading system features two spreading modes: "full working width" and "border spreading". The switch between full working width and border spreading is made easily from the comfort of the operator's cab. When switching from "full working width" to "border spreading", the feeder is swivelled to adjust the fertiliser drop point on the spreader disc so that fertiliser is ejected from a special border spreading vane to shorten the spreading distance as required. This diversion is particularly gentle to granulate and effectively prevents granulate breakage. The length of the border spreader vane can additionally be adjusted to allow for both border and edge spreading.

Border spreader acc. to EN-13739-1



Full working width



Border spreading
100% of fertiliser is supplied to the special border spreading vane.

THE TAURI 8
GREATER EFFICACY

The **Tauri 8** impresses with a large loading volume of up to 3,000 litres. Extensions with a width of over 2.48 metres make filling the tank with granulate a breeze, as no fertiliser is lost even when working with a wide front loader bucket.

This implement delivers higher fertilising efficacy through large spreading distances of up to 36 metres in addition to a greater tank capacity.

INTUITIVE **OPERATION**

The clearly designed remote control of the **Tauri 8** facilitates opening and closing the gates and switching the optional **Tribord 2D** border spreader system between full working width and border spreading mode.

THE TAURI 12
SIMPLY PRECISE

With features including a weighing system, width section control and ISOBUS control, the **Tauri 12** ensures highly precise fertiliser application and makes operating this spreader extremely comfortable.

WEIGHING SYSTEM
PRECISE DOSING

Automatic weighing
Continuous, automatic weighing during application ensures that fertiliser is applied consistently and evenly, even if the granulate flow properties change.

Fertiliser savings of up to 10%
Often, farmers notice too late that they applied fertiliser at an incorrect rate, but LEMKEN's sophisticated weighing system makes such errors a thing of the past. The system prevents up to 10% of application losses which can occur due to imprecise application technology.

Consistent application even on slopes
The spreader features an inclination sensor as standard to ensure that even, consistent application rates are maintained even when driving along slopes. The sensor automatically adjusts for measurement errors resulting from uneven weight shifts during work.

How does the weighing system work?
The weighing sensor measures the reduction in weight as fertiliser is drained from the tank. At the same time, an inclination sensor corrects the weighing result to ensure precise operation even when working on slopes. The job computer aggregates the weight reduction with the distance travelled and the set working width so that the application rate can be calculated precisely. The current tank fill level is displayed directly in the cab to ensure you have all the information you need at a glance.

GPS-CONTROLLED **SECTION CONTROL**

All good things come in sixes
In the **Tauri 12**, width sections are implemented automatically by adjusting the application rate across three stages. As a result, there are six width sections available, which can be closed from the outside towards the centre and opened from the centre towards the outside.

EASE OF **OPERATION**

Optimal preparation
Whether you use one of the **LEMKEN** CCI terminals or any other **ISOBUS** terminal of your choice – **ISOBUS** preparation comes as standard. You can therefore simply connect your terminal and start driving.

EVEN GREATER FUNCTIONALITY WITH GENUINE SPARE PARTS

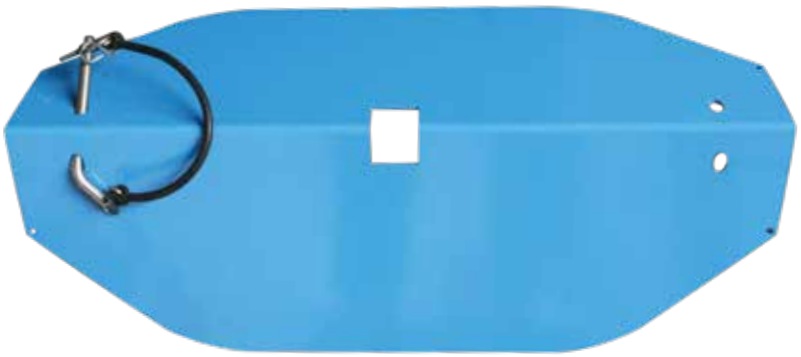
Perfectly fitting tank lid
to keep your fertiliser dry.

Calibration test kit
comprising a collection tray and spreading table.

Application rate reduction
to allow small volumes between three and 60 kilograms to be applied.

Stands
for easy mounting and dismounting without any need for pallets.

Separation plates
for crystalline fertiliser and grass seeds. These prevent compaction of material for spreading and ensure seamless application.



TAURI 8 TECHNICAL DATA

Working width	12–36 m			
Max. tank size	1,500 l	2,150 l	2,350 l	3,000 l
Overall width	2.48 m		2.98 m	
Filling dimensions	1.23 x 2.40 m		1.23 x 2.80 m	
Filling height	1.06 m	1.27 m	1.29 m	1.49 m
Weight (approx.)	305 kg	350 kg	355 kg	400 kg
Load capacity	3,000 kg			

TAURI 12 TECHNICAL DATA

Working width	12–36 m			
Max. tank size	1,500 l	2,150 l	2,350 l	3,000 l
Overall width	2.48 m		2.98 m	
Filling dimensions	1.23 x 2.40 m		1.23 x 2.80 m	
Filling height	1.06 m	1.27 m	1.29 m	1.49 m
Weight (approx.)	405 kg	450 kg	455 kg	500 kg
Load capacity	3,000 kg			

POLARIS
OUTSTANDING PRECISION

Larger, wider, more precise – with the **Polaris**, spreading precision is more than just a word, and that at working widths of up to 50 metres. Sophisticated technology such as the **EPSILON** spreader vane system or the GPS-based **ECONOV** section control are in a league of their own.

POLARIS DOES MORE

ISOBUS preparation
for straightforward connection of popular ISOBUS terminals

Weighing unit
for even more precise application

Angle adjustment and display
for precise late top dressing

Gentle, oscillating agitator
for an even flow of granulate. Even with a full tank, this system ensures that granulate is not compacted.

ECONOV
The GPS-based automatic section control system with 12 true width sections (only with the Polaris 14)

Tank volumes
between 1,900 and 3,000 litres or 2,400 and 4,000 litres (depending on the base tank size)

Two funnel outlets
and the inclined gate ensure an even flow of fertiliser, even on slopes or when fill levels are low

EPSILON spreader vanes
for guaranteed spreading precision at large working widths

Spreading width
up to 50 metres

Mobile feeder chute
for comfortable calibration testing and easy drainage

EPSILON SPREADER VANES

Where spreading precision is more than just a word.

The **EPSILON system** was developed to ensure that an even distribution is consistently maintained across very large working widths. The special spreader vane shape delivers an even spreading pattern, even when working across widths of up to 50 metres.

The double vanes, which are arranged in an epsilon shape, allow two fertiliser streams to be applied one above the other. The resulting four fertiliser streams per spreader disc produce overlap and thus even distribution.

HIGHLIGHTS:

- Developed for large working widths of up to 50 metres
- Optimal transverse distribution
- Tolerant to side wind, adjustment and operating errors

ASSISTANCE SYSTEMS

"As much as necessary and as little as possible" – that's good – or even best – fertilising practice. And smart assistance systems make this easy to implement. You drive, and the spreader does the rest. Two examples: The Polaris features a weighing system as standard, which ensures greater application precision. The Polaris standard equipment also includes the **TRIBORD 3D** border spreader system, which allows you to finely control fertiliser application along borders from the comfort of the operator's cab. **ECONOV** width section control, which is part of the standard equipment in the Polaris 14, automatically adjusts both application rates and spreading widths based on GPS data. As a result, farming 4.0 is no longer a mere promise, but becomes solid reality on your fields.

WEIGHING SYSTEM

Saves time and fertiliser
The robust weighing frame with integrated pin combines maximum reliability with superior precision.

Automatic weighing
No more endless calibration testing. Continuous, automatic weighing during application ensures that fertiliser is applied consistently and evenly, even if the granulate flow properties change.

Fertiliser savings of up to 10%
Often, farmers notice too late that they applied fertiliser at an incorrect rate, and imprecise application technology can often cause spreading losses of up to 10%. This is where a sophisticated weighing system comes in.

Consistent application even on slopes
The integrated inclination sensor automatically adjusts for measurement errors resulting from uneven weight shifts when working on slopes.

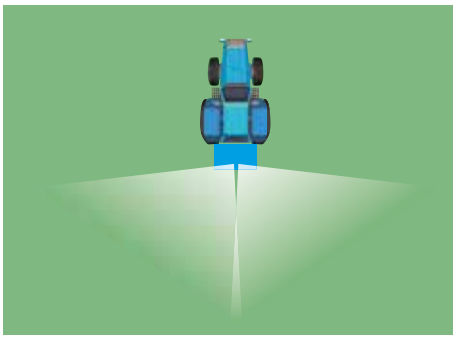
How does the weighing system work?
The weighing sensor measures the reduction in weight as fertiliser is drained from the tank. At the same time, an inclination sensor corrects the weighing result to ensure precise operation even when working on slopes. The job computer aggregates this parameter with the distance travelled and the set working width so that the application rate can be calculated precisely. The current tank fill level is displayed directly in the cab to ensure you have all the information you need at a glance.

TRIBORD 3D
BORDER SPREADER SYSTEM

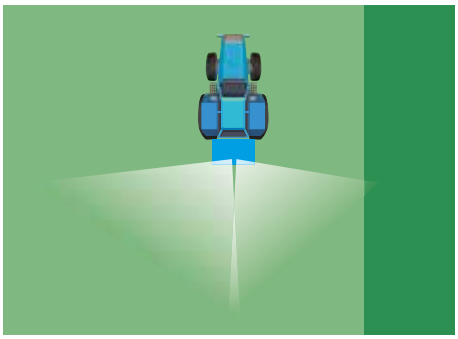
Precisely to the border
Whether along waterways, paths or adjacent crops – the **TRIBORD 3D** border spreader allows you to apply fertiliser granulate with superior control. Your Polaris is optionally also available with a border spreader system on the left side, allowing you to complete the first lap around the field in any direction while spreading precisely even with difficult field contours.

Spreading modes
Three different spreading modes can be set from the comfort of the tractor cab. Depending on the selected mode, the special border spreader vane is supplied with more or less fertiliser via an electric actuating cylinder, and the working width is adjusted accordingly.

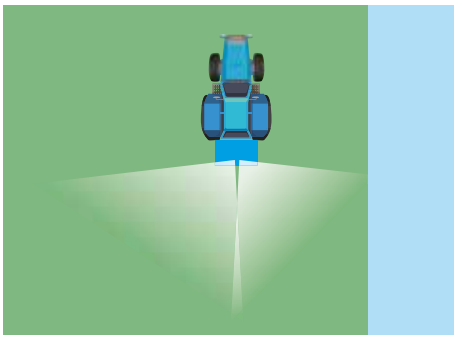
Border spreader acc. to EN-13739-1



Full working width



Yield-oriented border spreading
The system spreads yield-optimised amounts of fertiliser right up to the field border and a little beyond. Use: along field borders to adjacent crops.



Environmental border spreading
100% of fertiliser is supplied to the special border spreading vane. Use: along field borders to waterways or paths.

EASE OF **OPERATION**

Full control with your CCI terminal
The **CCI-1200 ISOBUS** terminal: superior technology, delivered via a sophisticated 12.1" widescreen display with multi-touch operation at smartphone level. The terminal layout is flexible, allowing it to be used in both landscape and portrait mode to ensure that your CCI-1200 always shows all the information you need at a glance.
The display can additionally be split to show several applications at the same time. Implement controls can, for example, be displayed together with a map for GPS-based width section control.

The new **CCI-800 ISOBUS** terminal offers the same level of functionalities as the CCI-1200 terminal, but in a more compact size.

Optimal preparation – with the Polaris 12
The Polaris 12 features ISOBUS control as standard, just like its "bigger brother".

ECONOV
AUTOMATIC WIDTH SECTION CONTROL

The GPS-based **ECONOV** section control system not only takes a lot of strain off operators, but also protects the environment and helps you save operating costs. **ECONOV** switches the 12 crescent-shaped width sections on and off fully automatically at the headland or in wedge-shaped field sections as soon as there is any risk of unwanted overlaps or application gaps. **ECONOV** thus ensures that there is neither over-fertilisation nor under-fertilisation in any field sections. This also minimises the risk of lodging in the crops, and the more efficient use of materials supports savings of at least 6%.

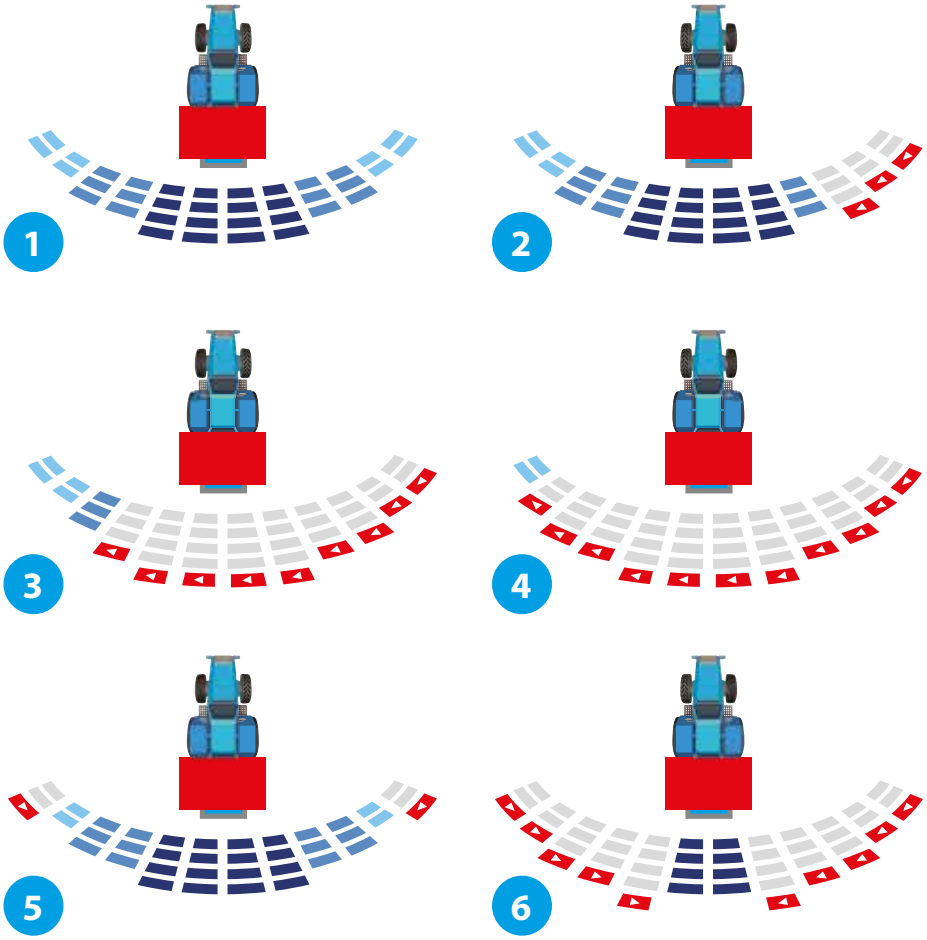
HIGHLIGHTS:

- Fully automatic system for reduced operator loads
- Minimum of 6% fertiliser savings
- Even fertiliser distribution
- Width section-specific fertilisation

PRECISE DISTRIBUTION ACROSS 12 SECTIONS

From the outside towards the centre, and from the centre towards outside!

Individual width sections can be switched on or off both from the outside towards the centre, and from the centre towards the outside. This technology ensures supremely effective application.



❶ **ECONOV** with **ISOBUS** switches 12 width sections independently of the working width (here with full spreading width and 12 open width sections).

❷ As the working width gets smaller, e.g. during the last pass, width sections are automatically closed in keeping with the width that still needs to be spread (here: 3 closed width sections on the right-hand side).

❸ The width sections on the right-hand side are closed, and those on the left-hand side are gradually closed from the centre towards the outside.

❹ Towards the end of spreading work in wedge-shaped fields, only one width section on the very outside remains open.

❺ When the machine reaches a straight headland, the width sections are gradually closed from the outside towards the centre to reflect the actual, CRESCENT-shaped spreading pattern.

❻ On straight headlands, only the two width sections in the centre remain open before all sections are closed.
This ensures maximum precision when spreading in a crescent pattern.

PRECISION FARMING WITH ECONOV

Precise.
More precise.
ECONOV.

With the innovative **ECONOV**, precision farming becomes reality.
The application rate can be adjusted independently on both sides, as the left and right gates are operated separately. Combined with a DGPS signal and an **ISOBUS** TaskController GEO, application maps can be implemented with outstanding precision. Different application rates can be implemented for the right and left of the spreader. That´s truly needs-based fertilisation.

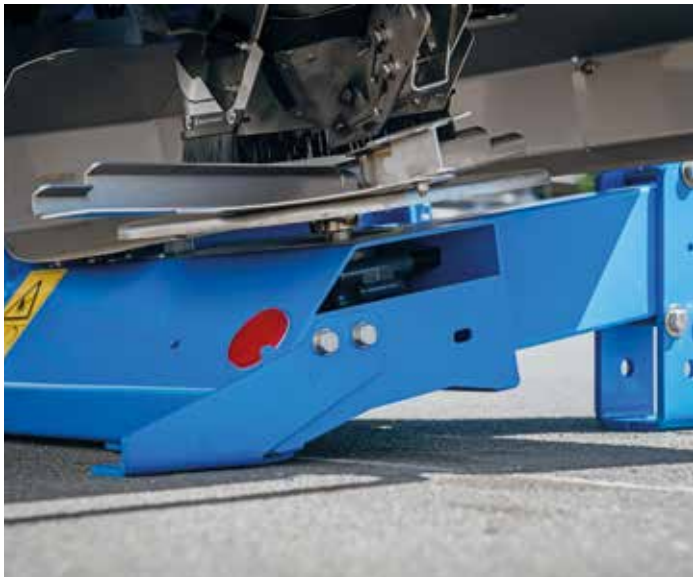
Compatible with numerous map systems!
Ask your local specialist dealer about this.

EVEN GREATER FUNCTIONALITY WITH GENUINE SPARE PARTS

Hydraulic drive
for constant disc speeds even on slopes.

Roller tarp
available in a mechanical or hydraulic version.

Calibration test kit
comprising a collection tray and spreading table.



Stands
for easy mounting and dismounting without any need for pallets.

Hydraulically lowerable border deflector
for spreading across half working widths and from field borders towards the field.

Folding step
for comfortable tank inspection.

POLARIS 12 TECHNICAL DATA

Working width	12–44 m		
Max. tank size	1,900 l	2,500 l	3,000 l
Overall width	2.70 m		2.98 m
Filling dimensions	1.17 x 2.31 m		1.17 x 2.81 m
Filling height	1.23 m	1.41 m	1.52 m
Weight (approx.)	520 kg	550 kg	565 kg
Load capacity	3,000 kg		

POLARIS 14 TECHNICAL DATA

	Working width 18–44 m			**Working width 24–50 m**		
Max. tank size	1,900 l	2,500 l	3,000 l	2,400 l	3,200 l	4,000 l
Overall width	2.70 m		2.98 m	2.98 m		
Filling dimensions	1.17 x 2.31 m		1.17 x 2.81 m	1.32 x 2.81 m		
Filling height	1.23 m	1.41 m	1.52 m	1.26 m	1.44 m	1.62 m
Weight (approx.)	540 kg	570 kg	585 kg	670 kg	705 kg	730 kg
Load capacity	3,000 kg			4,000 kg		

MODEL COMPARISON

	Model	Max. spreading width in m	Max. tank size in l	ISOBUS	Weighing unit
	**SPICA 8**	18 / 24	900 / 2,100	not available	not available
	**TAURI 8**	36	3,000	not available	not available
	**TAURI 12**	36	3,000	standard	standard
	**POLARIS 12**	44	3,000	standard	standard
	**POLARIS 14**	44	3,000	standard	standard
	**POLARIS 14**	50	4,000	standard	standard

Working width adjustment	Rate adjustment	Section control	Border spreading	Precision farming with application maps
manual	manual	–	optionally ECOBORD or TRIBORD 2D	–
manual	manual	–	optionally ECOBORD or TRIBORD 2D	–
manual	automatic speed-dependent	6 width sections by regulating the application rate	optionally ECOBORD or TRIBORD 2D	yes, 2 measuring points
manual	automatic speed-dependent	2 width sections by opening/ closing the gate	TRIBORD 3D	yes, 2 measuring points
via the terminal	automatic speed-dependent	ECONOV 12 width sections	TRIBORD 3D	yes, 2 measuring points
via the terminal	automatic speed-dependent	ECONOV 12 width sections	TRIBORD 3D	yes, 2 measuring points

SPREADING **SUCCESS!**


Polaris 14

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