AMAZONE

Mounted spreader **ZA-TS**

AMAZONE spreaders meet all European environmental standards

ZA-TS mounted spreader

The high output spreaders from AMAZONE

"If everything is adjusted correctly, you won't have to worry about a thing."

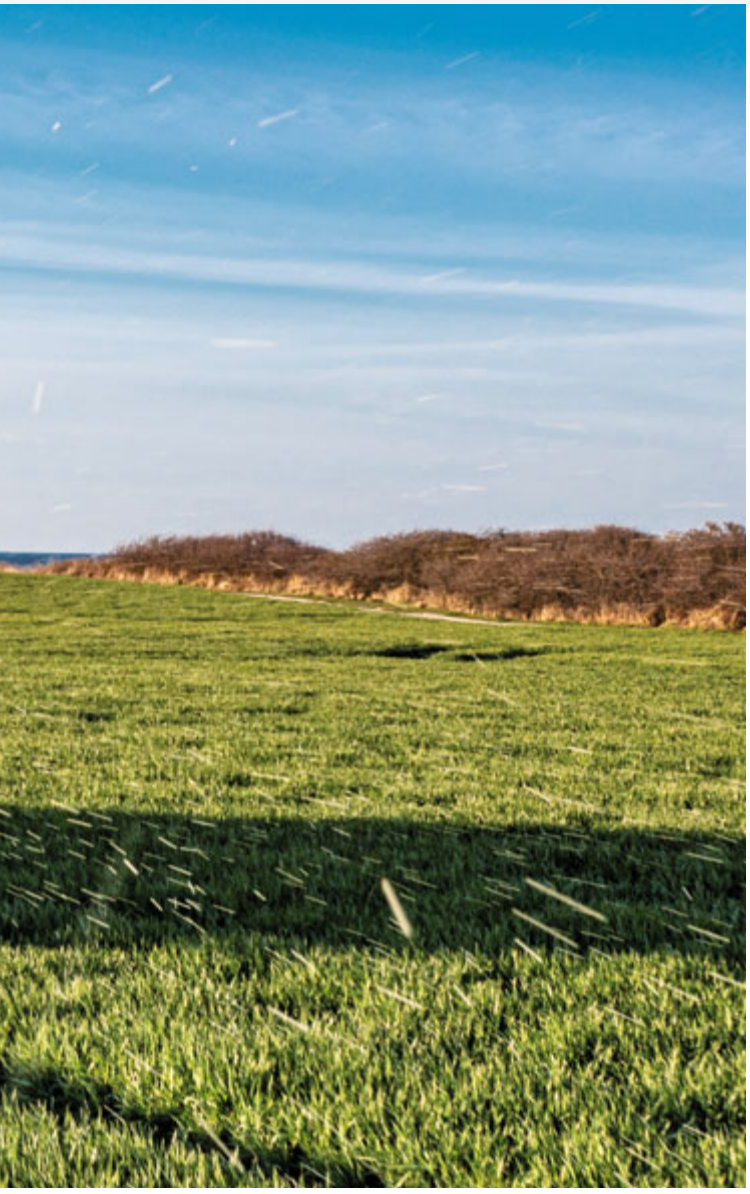
(profi – Spreading systems in practice "hydraulic or mechanical" · 06/2017)

"The application rate of the weigh cell spreader was always just right. We also liked the lateral and longitudinal distribution."

(dlz agrar magazine – Long term test ZA-TS "Wide throwing master" · 01/2016)

The ZA-TS mounted spreader is available with hopper capacities from 49 to 177 cu ft (1,400 to 5,000 L). The TS spreading unit can work on widths of up to 177 ft (54 m), while applying excellent border spread patterns, making the ISOBUS ZA-TS one of the mounted spreaders with the highest absolute output on the market.

The reliable weighing system, together with the new BorderTS spreading system and the innovative WindControl and Argus Twin systems put this fertilizer spreader in a class of its own.



ZA-TS

precise – quick – comfortable

"Anyone who operates in sloping terrain or that has to struggle with heavily deviating fertilizer properties, or grapple with very large working widths with poor fertilizer throwing, will be grateful for this new precision."

(dlz agrar magazine – Long term test ZA-TS 3200 Profis Hydro · 02/2017)

ZA-TS mounted spreader

50 ft – 177 ft
(15 m – 54 m)

49 cu ft – 177 cu ft
(1,400 l – 5,000 l)

8 to 128 part-width sections

Mechanical or hydraulic

The benefits at a glance:

- **Efficient and intelligent**
  Precise spread patterns with working widths of up to 177 ft (54 m) and application rates of 1,430 lb/min (650 kg/min)
- **ProfisPro – spread rate calibration**
  Absolutely accurate application rates from the very first second regardless of which side
- **WindControl**
  Windless conditions at the touch of a button – compensates for the effects of the wind on lateral distribution
- **ArgusTwin – spread pattern monitoring**
  Continuous monitoring – optimizes lateral distribution under any conditions
- **HeadlandControl – headland optimization**
  Uniform crops across the headland – optimized parabolic Section Control
- **AutoTS and BorderTS – border spreading systems**
  Proven precision – maximum yield at the field boundaries

MORE INFORMATION

www.amazone.net/za-ts

PRODUCT FILM
Find out more

DOWNLOADS
mySpreader app

SMARTLEARNING
www.amazone.net/smartlearning

7 years guarantee
against perforation corrosion
register
enregistrer
registrieren

The best of both worlds

Cathodic dip painting (CDP) combined with powder coating

The new paint system and the use of largely stainless steel components provide a high degree of protection and durability, enhanced by the use of impact-resistant and UV-resistant plastic sieves.

The KTL dip-paint priming of all components virtually ensures full-area corrosion protection.

Double protection through additional thick powder coating, providing increased protection against mechanical wear and tear.

High-quality, multilayer paint

The paintwork on a fertilizer spreader is exposed to particular demands. The paintwork is intended to protect the spreader from corrosion, especially when handling fertilizer and where moisture is involved. Starting with the 2022 model, a new painting process was implemented for the ZA-V, ZA-TS and ZG-TS fertilizer spreader ranges.
This involves, on the one hand, a cathodic dip painting process (known as KTL) for priming to give the best possible protection on the internal surfaces of tubes and box sections and, on the other hand, a powder coating process to create a high-quality visual finish with extra-thick paint providing increased protection against mechanical demands.

7-year manufacturer warranty

Based on this optimum painting process, AMAZONE is able to offer its customers a manufacturer warranty of seven years against rusting through. From 01/01/2023, customers can apply to have the warranty activated for ZA-V, ZA-TS, and ZG-TS models, starting from the 2022 model.

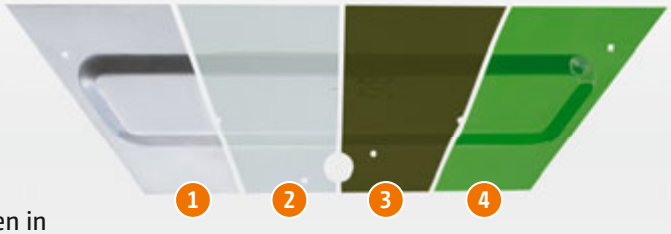
This registration is done very simply via the manufacturer's portal, myAMAZONE, bearing in mind the terms and conditions (www.amazone.net/7-years) stated there.
After registration, you can continue to work without any worries.

The benefits

- **Cathodic dip painting process**
  - Elimination of rust infiltration
  - Best possible protection, even on the inner surfaces of tubes and box sections
- **Powder-coated top coat**
  - Double protection through additionally applied powder coating
  - Improved resistance against everyday wear and tear
- **Quality and reliability**
  - All the components on the spreading unit and all the hydraulic fittings are made of stainless steel
  - Impact, UV, and chemical resistant plastic sieves

**High-quality, multi-layer paint finish –
the best properties from any viewpoint:**

① 14-stage **painting preparation** (e.g. degreasing)
② **Zinc phosphating** provides the most effective offset to rust formation
③ **Thick cathodic dip priming** for full corrosion protection, even in cavities and hard-to-reach areas
④ **Powder coating** for a high-quality appearance and extra thick paint for increased protection against mechanical demands



The combination of tried and tested painting techniques brings together the best from all areas, resulting in a high-quality, multi-layer paint finish

Frame and hopper

Strength pays dividends

ZA-TS 2000 Profis Tronic

The frames

- **Super frame: 7,055 lb (**3,200 kg) payload, Cat. II hitching dimensions and fixing pins.
- **Ultra frame: 9,920 lb (**4,500 kg) payload, Cat. III hitching dimensions and Cat. II/III fixing pins.

The deep-drawn hopper

The basic hopper has a capacity of 25 cu ft (700 L). It is manufactured by a deep-drawing process so it is free of corners, edges and welded seams. This ensures a continuous and even flow of fertilizer. The spreader's design also makes it easy to clean.

Design benefits

- No edges or welded seams, a single-piece hopper
- Optimum, continuous and steady fertilizer flow
- No leftovers
- An open frame structure for easy cleaning
- All electronic components protected in the box section frame

Outstanding design: mounted spreader with a 9,920 lb (4,500 kg) payload.

The benefits

- lightweight frame design with excellent rigidity
- optimized center of gravity with plenty of space for hitching up

"For AMAZONE, their payload of up to 9,920 (4.5 t) is the highest."
(profi – Practice test "Comparing four fertilizer spreaders" · 01/2016)

- Quick Hitch Adapter

  Mounted spreaders with Ultra or Ultra Profis frames for a payload up to 9,920 lb (4,500 kg) can also be mounted on the tractor using the Quick Hitch coupling system. This involves replacing the 3-point mounting frame with a Quick Hitch Adapter.

The extensions

Two widths and multiple volumes

The narrow category
with a filling width of 7.3 ft (2.22 m)

S 1400 extension S 1700 extension

S 2000 extension

S 2600 extension with folding ladder

The wide category
with a filling width of 8.9 ft (2.71 m)
and folding ladders

L 2200 extension

L 2700 extension

L 3200 extension

L 4200 extension

L 5000 extension

Additional bolt-on extensions
For a subsequent increase in hopper capacity for the ZA-TS, AMAZONE offers a suitable bolt-on extension for both the S and L base machines. Extension volume is 21 cu ft (600 L) for S hoppers and 28 cu ft (800 L) for L hoppers.

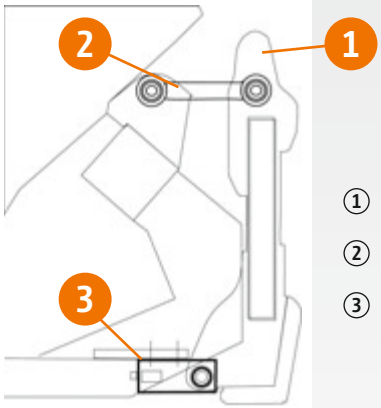
- Direct filling from a tipping trailer or large bags is no problem. Especially when using large loading shovels, the wide L extension is of major benefit.

Profis weighing system

He who weighs, wins!

- The Profis weighing system comes with a visual filling aid

  Initial flashing followed by a steady beam of the work lights signals that the hopper is full.



① Weighing frame
② Horizontally aligned tie rods
③ Load cells

✓ Compact tractor mounting

No calibration needed. Fill up the spreader hopper and off you go! There is nothing simpler.

The weighing system provides greater convenience and reliability. The two 200 Hz load cells enable control over spreading material properties– providing a high level of measuring accuracy.
It automatically compares the actual applied rate with the predetermined rate. Deviations in the flow characteristics, when spreading blended mineral fertilizers for example, are detected and the spreader is readjusted automatically via the electric metering shutter slides. For field-related nutrient application, for example, the applied rate is precisely documented as well. The application rate can be altered at any time by pressing a button on the ISOBUS terminal.

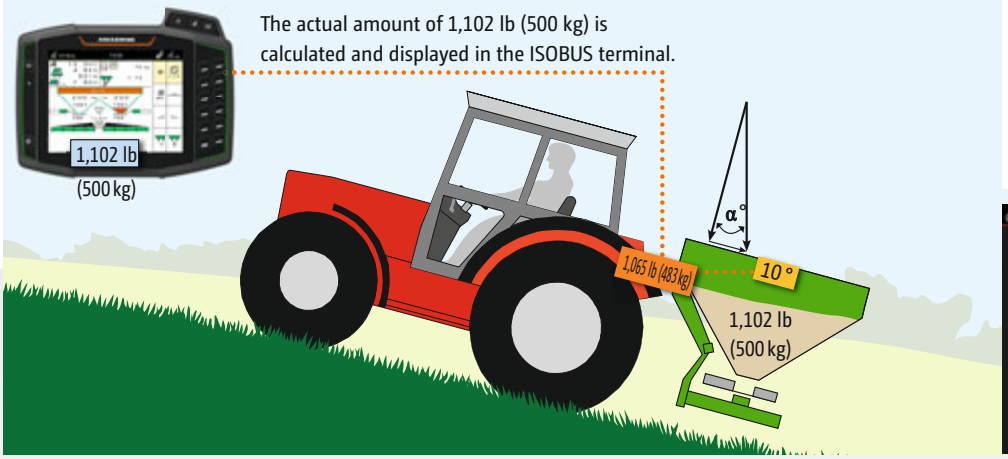
Tilt sensor for extremely hilly terrain

The tilt sensor on the Profis system takes into account whatever effects gravity may have on hopper content measurement: The twin-axis tilt sensor measures both fore and aft, and right and left slopes and corrects measurement errors that may arise when going up and down hills or driving across a hillside.

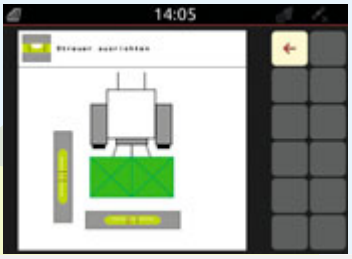
The benefits

Regulation/calibration under all operating conditions:
- ✓ Side, border and waterway spreading
- ✓ Part-width section control
- ✓ Using application maps/N-sensors
- ✓ Spreading mixed fertilizers

Accurate weight measurement:
- ✓ Residual volume display
- ✓ Residual area and hopper level display
- ✓ Documentation of the total volume spread



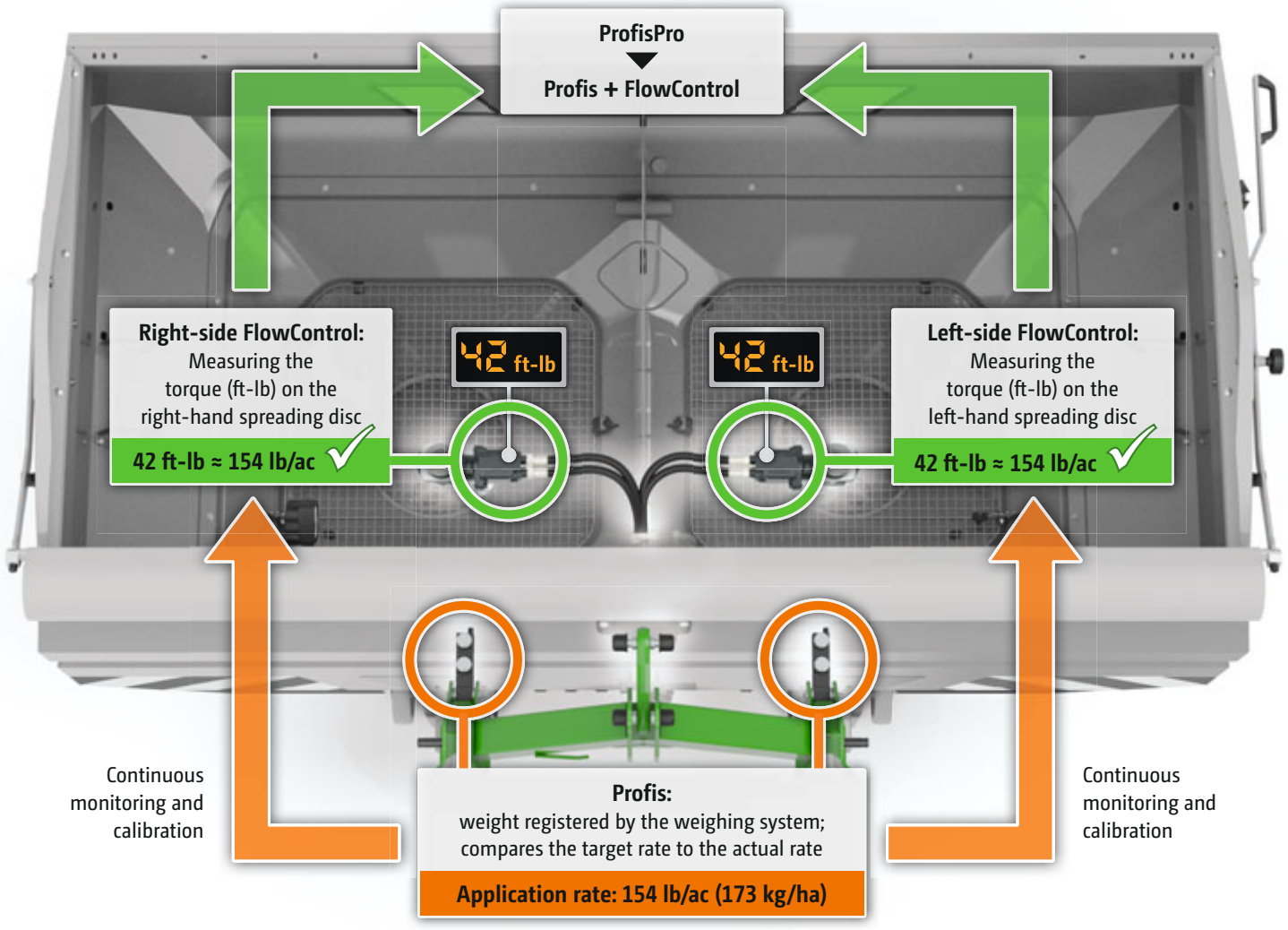
Example:
- The tilt sensor records an angle of 10°
- The load cell on the ZA-TS Profis records 1,065 lb (483 kg)



✓ To simplify the process of mounting the ZA-TS onto the tractor in the horizontal position, the angle of the ZA-TS Profis is conveniently displayed in the ISOBUS terminal.

ProfisPro weighing system with torque measurement

The ProfisPro intelligent weighing system combines the benefits of the weighing system with the FlowControl torque measuring system



- **ProfisPro**
  Spread rate adjustment by the Profis weighing system and the FlowControl sensors is a unique selling feature for AMAZONE.

- **ProfisPro for Tronic and Hydro**
  The intelligent ProfisPro weighing system is available for both the Tronic version with mechanical drive, and the Hydro version with hydraulic drive.

Precise application rates from the very first second, regardless of which side

Trouble-free rate calibration: ProfisPro

The correlation between application rates and the torque generated at the spreading disc at different working widths has been determined for all types of fertilizers on the basis of numerous spreading tests. Put simply: low application rates generate less torque on the disc than higher rates.

FlowControl reliably monitors the torque on each spreading disc drive independently and can immediately adjust the position of the application rate shutters in the event of a deviation from the target rate.

Optimized spread rate from the very start

This combination of weighing system and FlowControl enables the fertilizer spreader to use torque to adjust its theoretical application rate during the entire spreading process. The Profis weighing system monitors the actual spread rate every 55 lb (25 kg). This allows FlowControl to recalibrate itself at regular intervals. This takes place with no need to stop. The ProfisPro intelligent weighing system means that the spread rate is optimized from the very start of the spreading process.

In addition, the driver can see the amount of fertilizer remaining in the hopper at all times and can display the acreage that remains until it is empty.

The benefits

Absolute precision from the very first second

- Simultaneous adjustment using the weighing system and torque measurement
- Application rate calibration and adjustment in all field situations (Border Spreading/Section Control)

Exact application rate in any field situation

- Shutter slide adjustment, even when using application maps, on either side

Reliable application down to the last pound

- Detection of empty runs and clogging
- Absolute weight measurement using the weighing system

Reliable down to the last detail

FlowCheck to monitor shutter opening

AMAZONE offers the FlowCheck monitoring device for the ZA-TS Hydro series as an inexpensive alternative to FlowControl.

Whereas FlowControl can control and adjust the application rate independently on each side, FlowCheck detects clogging when one of the two shutter openings is running empty. In the event of clogging, both systems correct the malfunction by quickly opening and closing the shutter slide while reversing the agitator at the same time.
This means absolute operation reliability for the farmer.

Low level sensors

One hopper side may empty faster than the other when spreading on slopes or during border spreading. In order to check each outlet aperture individually and solve this problem, AMAZONE also offers low level hopper sensors. When one side empties prematurely, the affected end of the hopper is indicated in red in the operator terminal so the driver receives an early warning.

Flow Check sensors in the hydraulic circuit

Low level sensor for the ZA-TS
When either hopper is almost empty, the driver will receive a warning message with plenty of time.

The spreading disc drive

Mechanical or hydraulic, choose for yourself!

Tronic – mechanical spreading disc drive

The spreading unit is driven by the PTO shaft on the Tronic version. The spreader is protected from overload by a universal drive shaft with friction coupling, as standard equipment. The input speed from the tractor PTO is transmitted through the central gearbox, resulting in an increased spreading disc speed. This allows fertilization at low engine RPM across the maximum working width.

Mechanically-driven spreaders can switch between 8 or 16 part-width sections, depending on the terminal used by the operator.

Hydro – hydraulic spreading disc drive

The hydro- hydraulic version enables operation irrespective of the tractor's engine revolutions and at different spreading disc speeds. This saves fuel, while also ensuring highly efficient and precise spreading. The spreader also operates at various spreading disc speeds when border spreading; thus the best-possible lateral distribution is achieved in the overlap area and the field boundary.

- Independent side regulation of the spreading disc speed permits even more precise spreading on wedge-shaped fields. Up to 128 part-width sections are possible in combination with SectionControl.
- Comes standard with a pressure filter

- ZA-TS-Tronic – mechanical spreading disc drive

- ZA-TS- Hydro – hydraulic spreading disc drive

SBS pro Soft Ballistic System

Soft Ballistic System pro

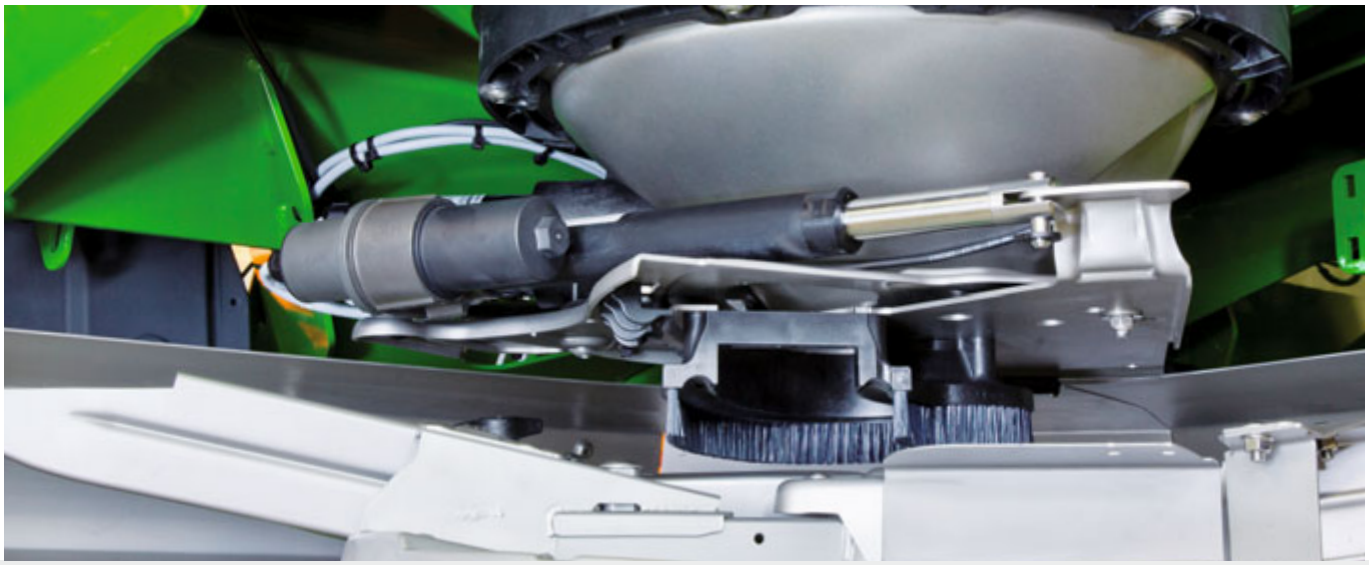
For even gentler fertilizer handling

Decisive benefits with SBS pro

Mineral fertilizer needs to be handled gently to ensure precise distribution and exact placement for plants over the entire working width. Fertilizer that has been damaged while passing through the spreader will not be precisely distributed.

AMAZONE Soft Ballistic System pro is integrated as a standard safety feature. The agitator, metering components and spreading discs are optimally tailored to each other. This protects the fertilizer and secures your yields.

1. Gentle guidance
The electrically-driven star agitators at the bottom of the hopper ensure even fertilizer flow onto the spreading discs. The slowly rotating, star-shaped segments of the agitator deliver the fertilizer evenly to the corresponding shutter opening. When the delivery system is adjusted, the agitator star rotates as well, so it is always perfectly positioned above the shutter opening. The agitator switches off automatically when the shutter slide is closed.



Spreading system with delivery system, brush kit, and spreading disc

2. Gentle delivery
The delivery system can control and adjust throwing width and direction. Furthermore, the working width can be adjusted individually on each side by changing the disc speed. The fertilizer is fed in centrally at a lower speed, resulting in minimal fertilizer damage. The concentric delivery system adjustment always results in gentle handling of the fertilizer.

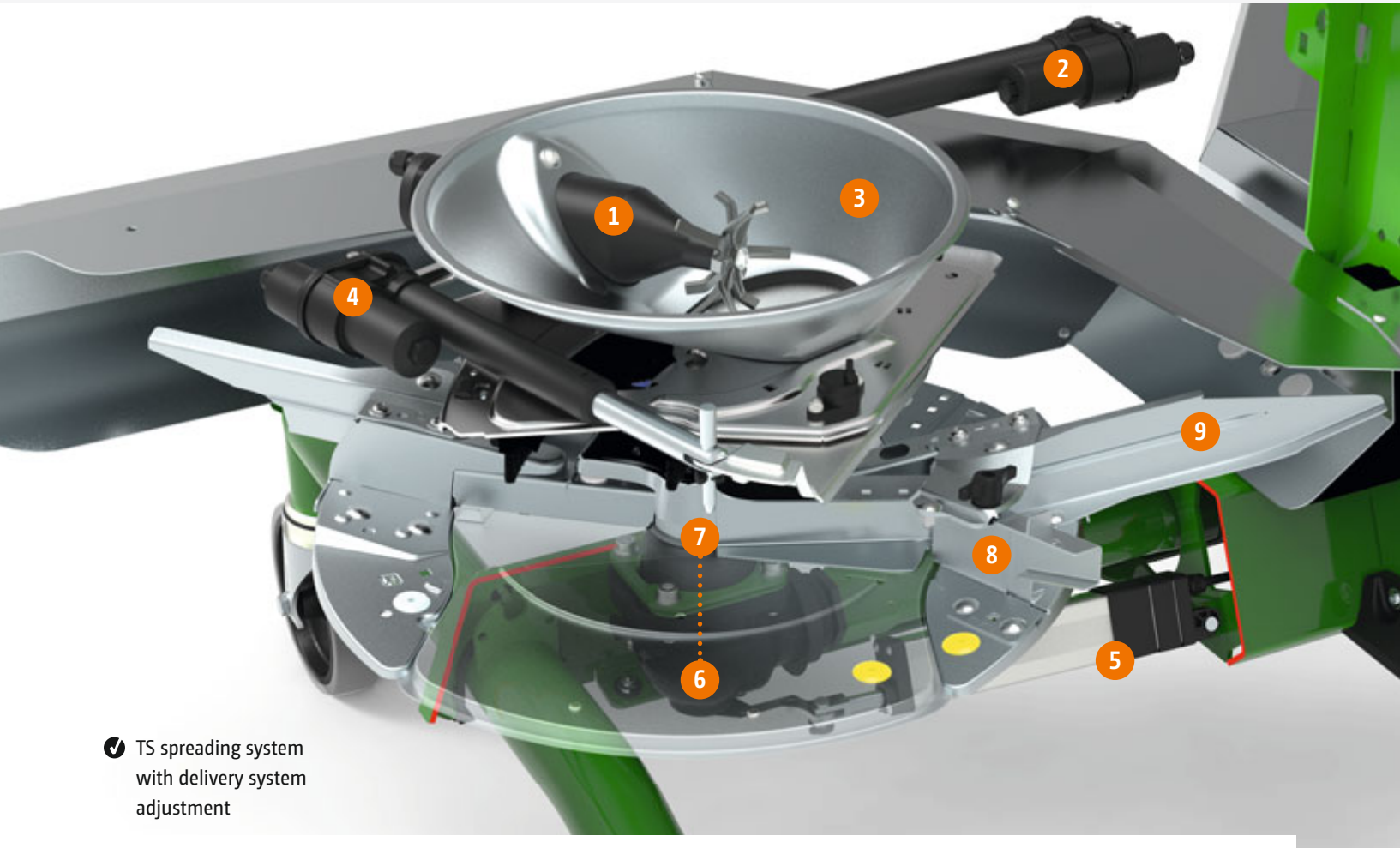
3. Gentle acceleration
The AMAZONE's **S**oft **B**allistic **S**ystem pro gently accelerates the fertilizer at standard disc speeds between 600 rpm and 900 rpm.

Even fertilizer types with minimal breaking strength maintain their spreading properties and provide a clean, even spread pattern.

4. Gentle ejection
The AMAZONE **S**oft **B**allistic **S**ystem pro provides the fertilizer with as little energy as possible for an optimal trajectory and a precise spread pattern. This ensures that the spreading vanes are optimally adjusted to a laid-back position.

TS spreading system

Perfection in every component, just like clockwork



TS spreading system with delivery system adjustment

Characteristics of the TS spreading system

Delivery system adjustment of the TS spreading system

1) Intelligent agitator for maximum fertilizer protection
2) Electric setting motor to rotate the delivery system
3) Delivery system for implementing the Section Control, HeadlandControl and WindControl functions ArgusTwin
4) Electric setting motor for exact fertilizer metering with application rates from 6.6 lb/min (3 kg/min) to 1,433 lb/min (650 kg/min)

Bottom assembly of the TS spreading system

5) Electric setting motor to adjust the carrier vane
6) AutoTS gearbox, the heart of the integrated border spreading system
7) Comfortable changeover between border and normal spreading by moving the carrier vane
8) Short border spreading vane for sharp side, border and waterway spreading
9) Long normal spreading vane for high throwing widths and double overlap, even at working widths up to 177 ft (36m)

"A 12V motor drives the agitator, which rotates at 60 rpm. It switches off when the shutter is closed and reverses as soon as a foreign object blocks the agitator."

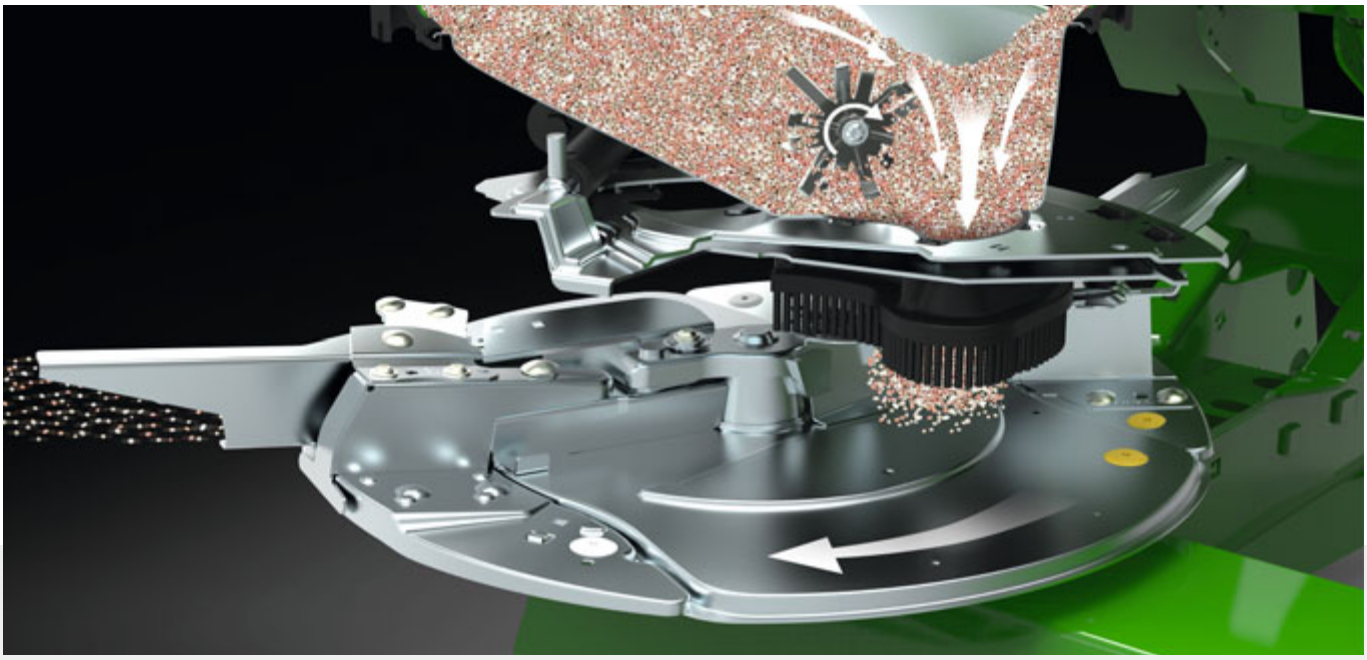
(dlz agrar magazine – Long term test ZA-TS 3200 Profis Hydro · 02/2017)

The agitator – soft-handling and gentle

The basic function of the agitator is to convey the fertilizer actively towards the shutter opening so a constant rate of fertilizer can be applied. Fertilizer lumps that manage to pass the screen are actively broken up by the star agitator running at the bottom of the hopper, especially at low application rates. If foreign objects reach the hopper bottom and the agitator is overloaded, the corresponding electric motor automatically reverses in combination with the corresponding shutter slide and remedies the blockage.
The perfect teamwork of agitator and shutter slides is apparent on headlands or when spreading in wedge-shaped fields. As soon as one metering shutter is completely closed, the agitator above stops automatically. This keeps the valuable fertilizer from being ground up.

The benefits of electric agitation

- two slow-running, fertilizer-protecting agitators turning at just 60 rpm
- that switch off automatically as soon as the shutter slide is closed and can also be switched off on either side, independently
- that reverse automatically when blocked by a foreign object
- active delivery of the fertilizer flow to the opening

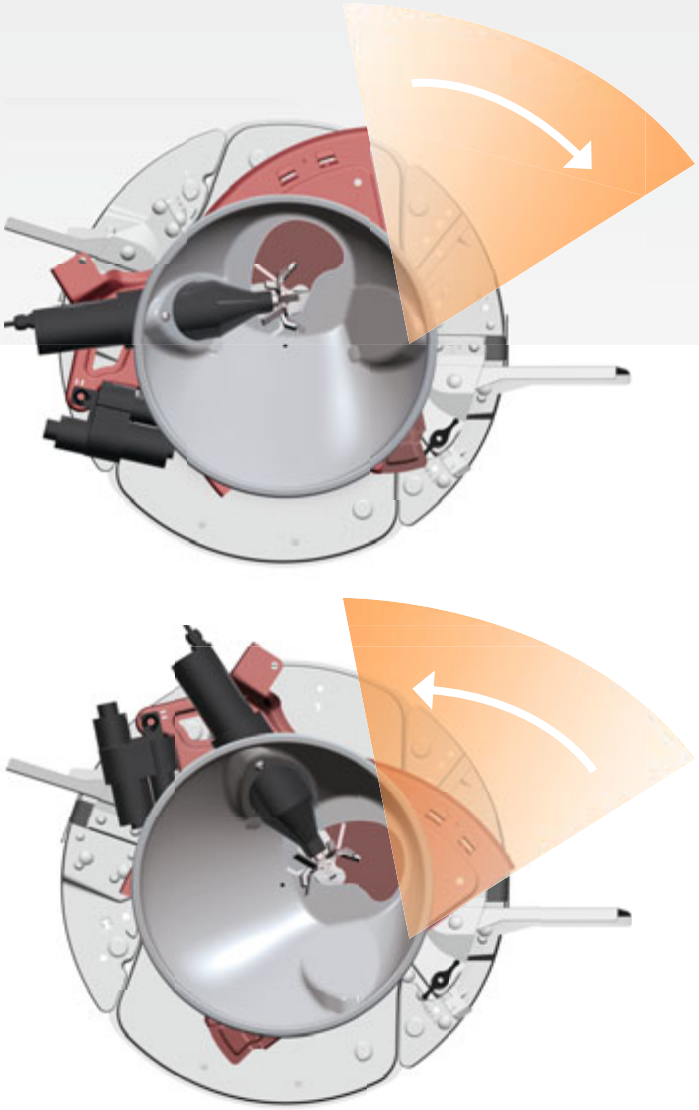


"The electric agitators operate independently left or right and only when that shutter is opened"

(profi – Practice test "Comparing four fertilizer spreaders" · 01/2016)

The AMAZONE delivery system

For first-class spreading results



Concentric delivery system adjustment

The fertilizer is deposited through the delivery system, as gently as possible, at the center of the spreading discs. The circumferential speeds are low at this point on the discs, so the fertilizer is handled very gently. In order to set the spreading unit for different working widths and types of fertilizer, the delivery system rotates (concentrically) around the center of the discs. The distance between the fertilizer feed-in point and the center of the disc always remains the same.

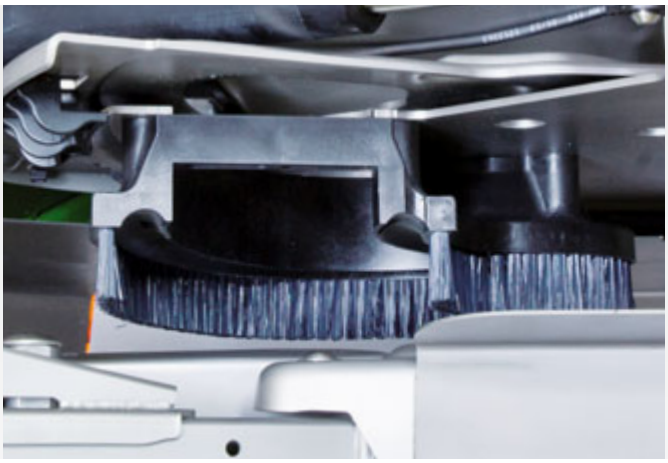
Delivery system rotation offers a wide bandwidth of possible working widths. The range of 50 to 177 ft (15 to 54 m) working width is covered by just three sets of spreading vanes.

All TS spreading systems with electric delivery system adjustment are suitable for the ArgusTwin spread pattern monitoring system.

The delivery system swivels around the center of the disc

Mechanical delivery system adjustment

Adjusting the electric delivery system



Brush unit for a clean delivery onto the spreading discs

Ultra-quick and precise! Electric Motors

A spreader with high application rates and operational speeds that push the envelope of what is possible in terms of work rates and that, of course, needs to perform extremely precisely at the same time. This requires electric motors that run extremely quick and exact. The set-up motors ensure that the highest demands are met, especially in applications like automatic on/off switching at the headland or in wedge-shaped fields, spreading using application maps or with continuous on-board monitoring (ArgusTwin and WindControl).

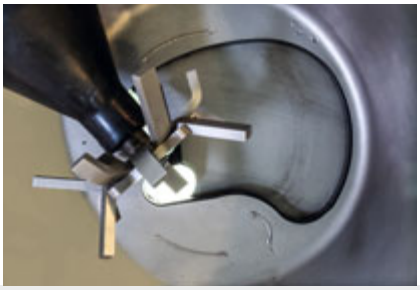
Clean transfer – the brush unit

The bristles of the brushes fit directly from the apertures to the upper edge of the spreading vanes, so the fertilizer is safely delivered to the disc.

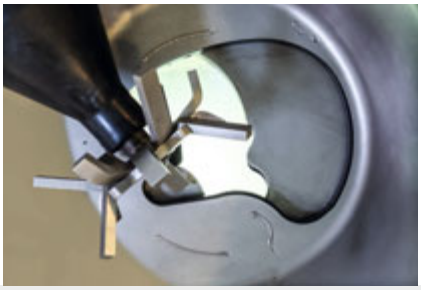
Quantity effect-free metering aperture

If a constant application rate is to be achieved, it is necessary to match the size of the aperture to the prevailing operational speed. The shutter slide makes this happen very quickly and sensitively.

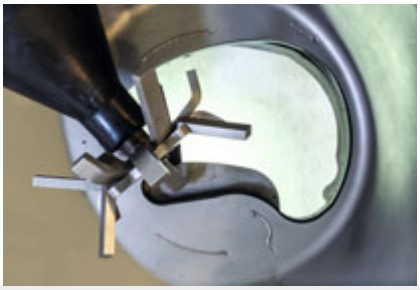
The kidney-shaped design of the metering aperture keeps the spread pattern unchanged and precise, even at varying operational speeds, so there is no need to adjust the position of the delivery system.



Stage 1: hopper shutter slightly open



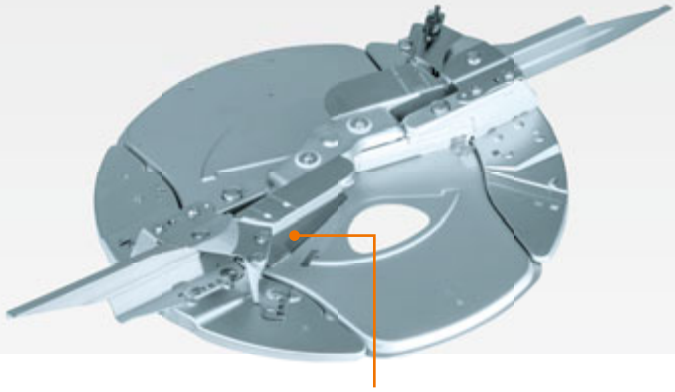
Stage 2: hopper shutter half open



Stage 3: hopper shutter wide open

TS spreading discs

For the utmost precision at all spreading widths up to 177 ft (54 m)



The integrated AutoTS border spreading system is activated electrically.

Spreading system made from stainless steel – for a long service life

The entire spreading system of each TS spreader is made from stainless steel to provide a long service life.

The spreading vane sets can be quickly and easily exchanged using our interchangeable system. The ideal solution, for example, for agricultural contractors.

Between normal spreading and border spreading, different spreading vanes can be activated via the AutoTS system without the need to change spreading disc settings.

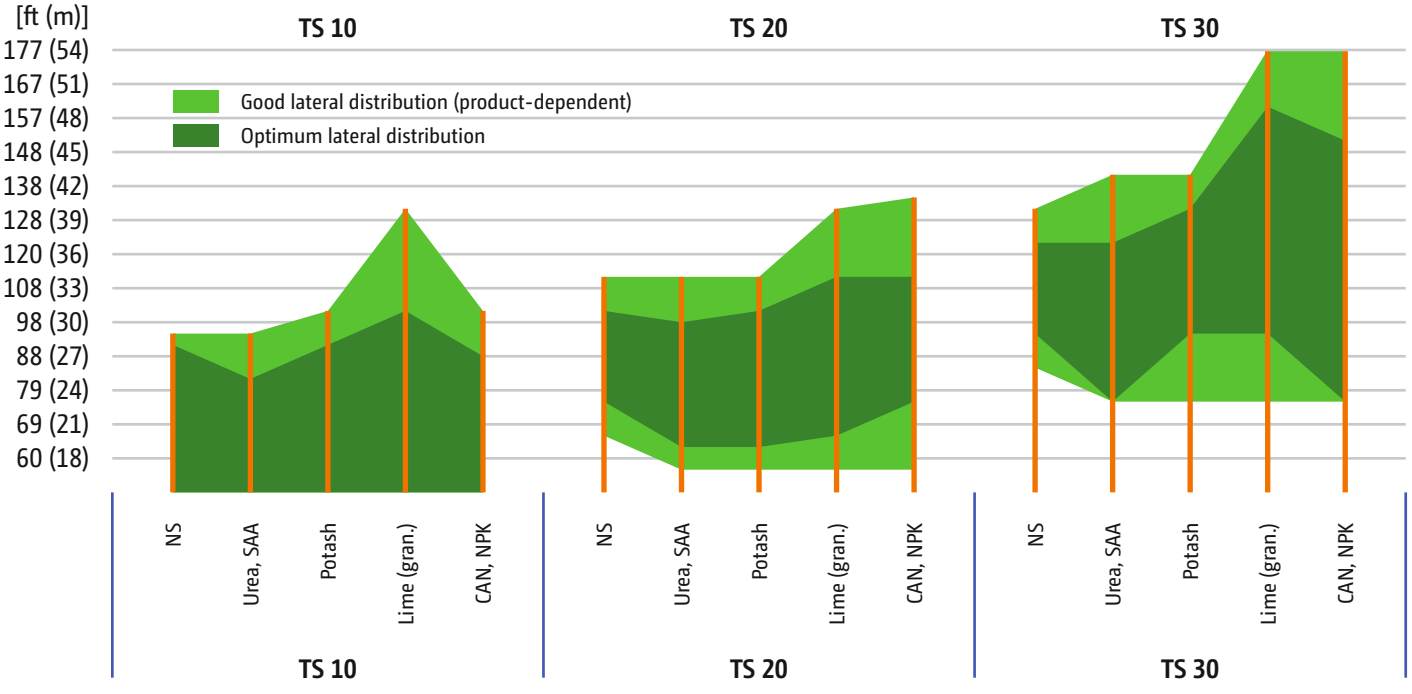
"For different working widths it is simply a case of switching the spreading vane set – a very simple solution."
(profi – Driving impression ZA-TS 4200 Profis Hydro fertilizer spreader – 06/2013)

Heat treat coated stainless steel spreading vanes
The spreading vanes are coated with special long-lasting anti-wear protection. A three-fold increase in lifespan is seen in products treated in this way.

Optimum working width ranges of the spreading vane sets, depending on the fertilizer being spread:

- TS 10 = 50 ft (15 m) – max. 88 ft (27 m)
- TS 20 = 69 ft (21 m) – max. 108 ft (33 m)
- TS 30 = 79 ft (24 m) – max. 177 ft (54 m)

Range of working widths for spreading vane sets



Optimized spread pattern

Normal spreading

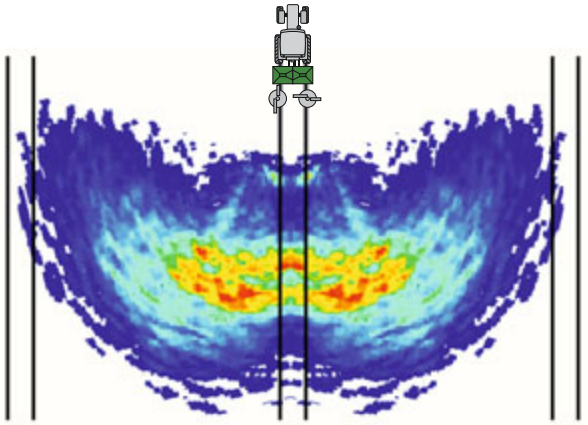
Adjusting the delivery system changes the point where the spreading material is fed onto the spreading disc, thus controlling the spreading width and the lateral distribution. Furthermore, the working width can be customized even more by changing the disc speed.

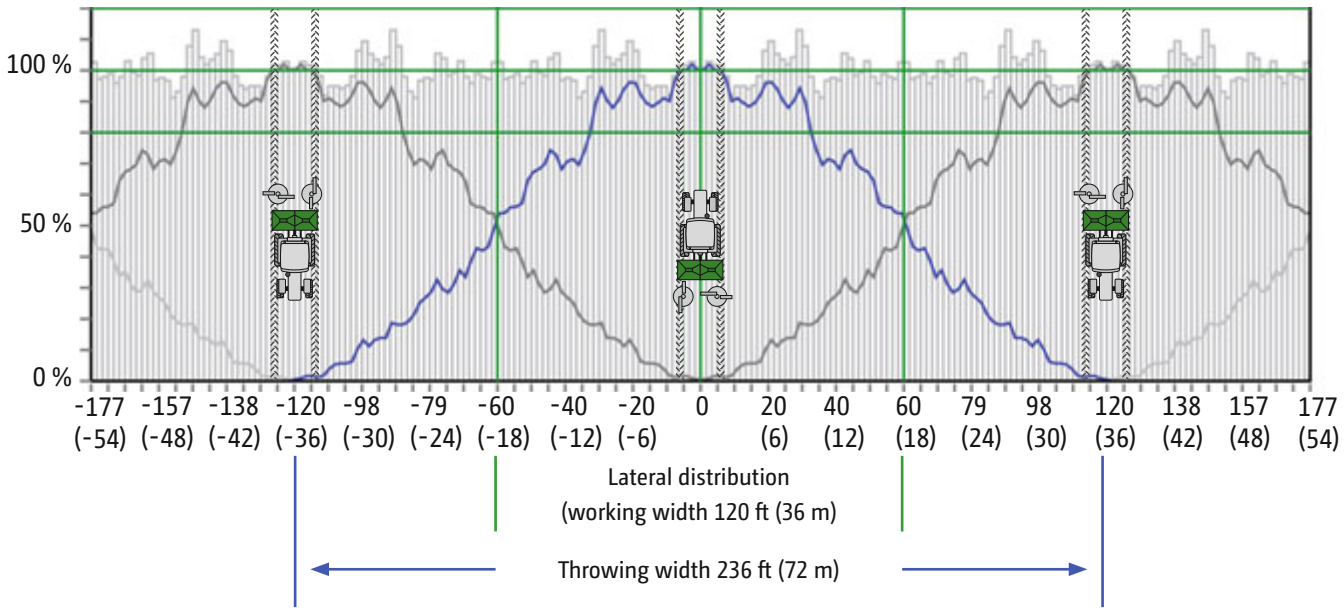
Three-dimensional spread pattern

The spreading unit was developed to have three-dimensional spread patterns, in order to achieve perfect lateral distribution of up to 177 ft (54 m) working widths. The large overlap zones ensure a perfect spread pattern and are significantly more consistent, even in inconvenient conditions such as side winds, changes in the terrain, humidity or different fertilizer qualities.

Non-sensitive spread pattern thanks to the multi-sectional spread pattern

The specific shape and angling of the spreading vanes produce a multi-spread pattern from the TS spreader unit. This means that the patterns of the fertilizer from the long and short spreading vanes do not affect each other so an optimum trajectory is maintained.





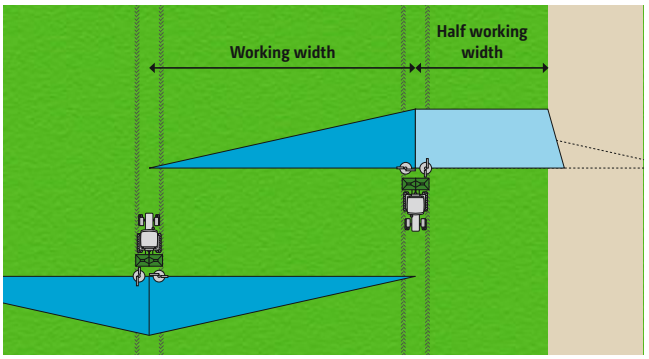
Border spreading systems from AMAZONE

Complete control. At all times!

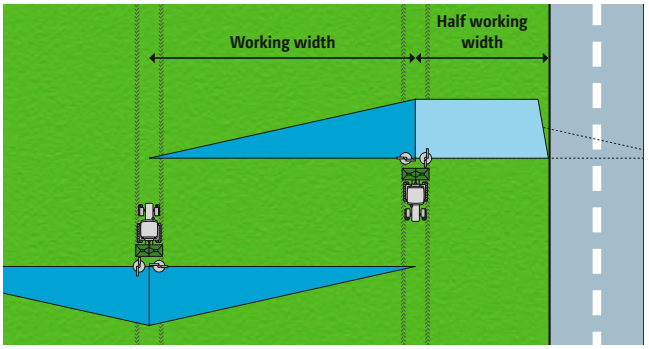
- Boundary spreading systems make sense especially when application rates are high. In these cases, more expensive systems will also pay off.
  (top agrar – "Precision goes boundary spreading" – 07/2022)
- AMAZONE offers setting recommendations for all border spreading techniques

Effective and precise – spread only where the fertilizer will benefit plant growth

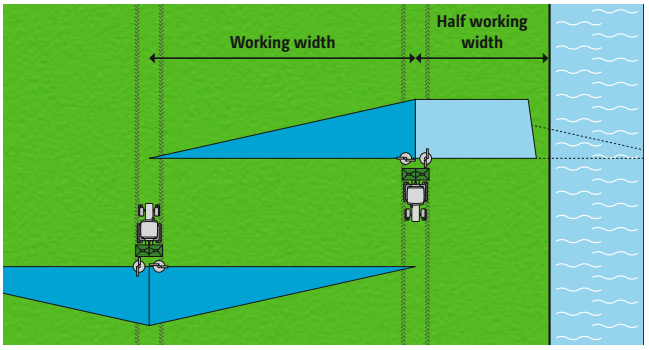
Side spreading (yield-oriented adjustment)
The neighboring field is an area that is used agriculturally. In this case, it is tolerable for a small quantity of fertilizer to be thrown over the border of the field. The full target rate is applied right up to the field boundary.



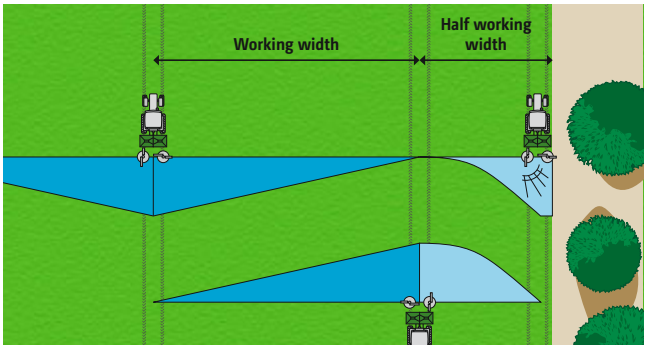
Border spreading (environmentally-oriented adjustment)
If the field is adjacent to a road or bike path, fertilizer cannot be thrown beyond the border of the field. The throwing distance is therefore adjusted in combination with the shutter slide.



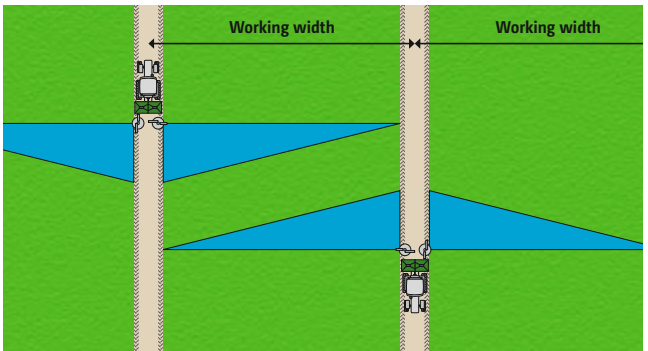
Water-course spreading (environmentally-oriented adjustment)
If there is a body of water directly at the edge of the field, fertilizer regulations require maintaining a certain distance from the water when fertilizing. Therefore, the throwing distance is further reduced in combination with the shutter slide.



BorderTS in combination with AutoTS
Using the BorderTS deflector means that the full amount of fertilizer is applied right up to the field boundary, without spreading beyond it. In combination with AutoTS, the area between the first tramline and the field boundary is fertilized with the desired application rate. A sharp-edge cut-off right up to the field boundary is achieved.

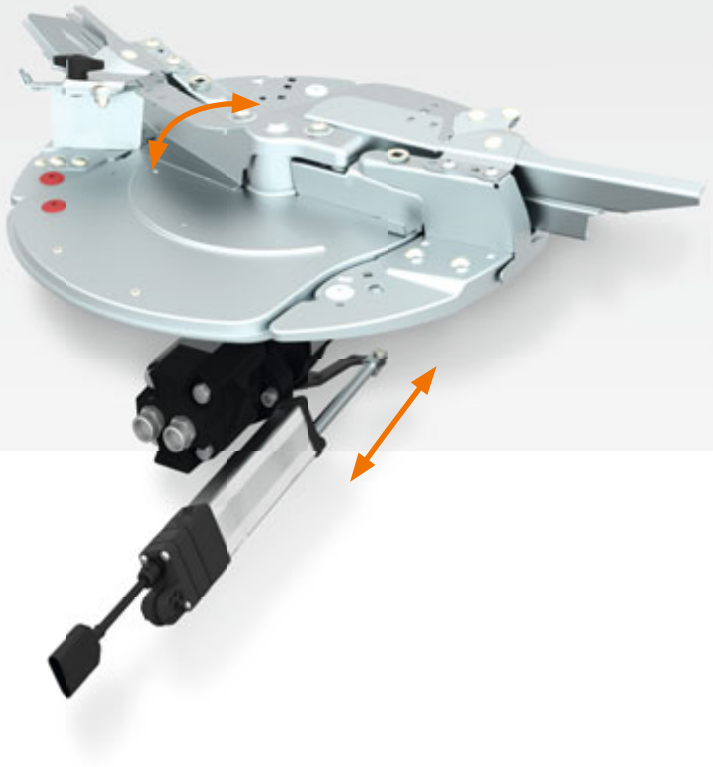


Bed spreading with bed spreading deflector for both sides
AMAZONE offers the bed spreading deflector for spreading specialist crops in beds to either side of the tractor. It keeps the track virtually free of fertilizer. The bed spreading deflector can be activated hydraulically from the tractor seat.



AutoTS

The disc-integrated border spreading system



AutoTS – adjustment of the carrier vane for border spreading

AutoTS – convenient adjustment and precise lateral distribution right up to the border of the field

The disc-integrated AutoTS border spreading system can be used to activate various border spreading techniques. Side, border or watercourse spreading can be activated simply from the terminal in the tractor cab and on either side.

AutoTS – the ingenious principle

An electric motor twists the carrier vane forward by approximately 10° so the fertilizer can be delivered via the shorter border spreading vanes when spreading along borders or waterways. The combination of disc speed and a shorter vane ensures that the fertilizer is thrown over a significantly shorter distance without affecting it mechanically.

"The design specification for the development of the AMAZONE ZA-TS was clear: no more compromising between normal spreading and side, border and watercourse spreading around field boundaries."

(profi – Spreading systems in practice "hydraulic or mechanical" · 06/2017)

AutoTS – setting for normal spreading

AutoTS – setting of the carrier vane for border spreading

Border Spreading Calculator – calculate those additional profits

AutoTS achieves an average yield increase of about 17% around the field boundary compared with other well-known systems. Calculate it for yourself now!

For tablet and desktop:
www.amazone.net/border-spreading-calculator

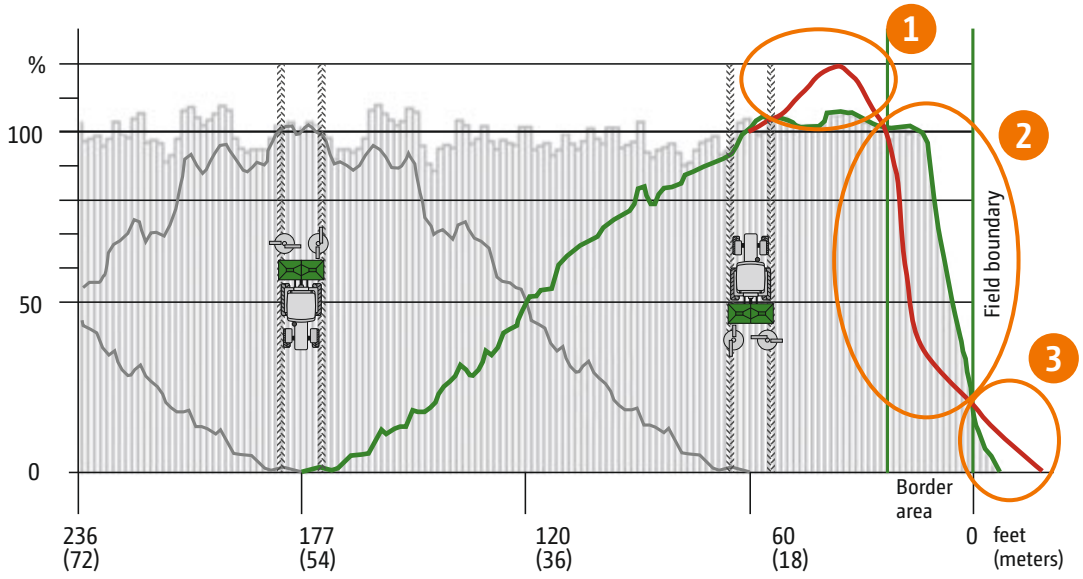
Border spreading with ClickTS
As an alternative to having the AutoTS system on both sides that can be controlled remotely from the tractor cab, there is now the option of AutoTS just on the one side alongside the manually adjusted ClickTS on the other. ClickTS can be present on both sides as well.

Increased yield on the border thanks to AutoTS and ClickTS

Exclusive!

The AutoTS and ClickTS border spreading systems generate a steep border spread pattern that ensure optimal growth conditions close to the field border. A significant increase in yield can be achieved compared to other border spreading systems.

Automatic rate reduction when border spreading is possible with the AutoTS spreading unit. Rate changes can be made in freely-selectable percentage steps. Since the two spreading discs can be operated independently, the change can be applied to one or both sides.



	AutoTS border spreading system	Conventional border spreading systems
1	A shorter spreading vane restricts fertilizer throwing distance.	Mechanical deflection can damage fertilizer, resulting in broken granules landing next to the tramline.
2	The fertilizer is handled more gently and optimally distributed right up to the boundary.	The broken granules are not spread out to the border area, resulting in insufficient fertilization.
3	Reducing fertilizer throwing speed results in minimal granules falling beyond the edge of the field.	Not all fertilizer granules are mechanically deflected, meaning that fertilizer spreads well beyond the field boundary.

Exclusive!

BorderTS border spreading system

Spread only where the crop will benefit from the fertilizer applied

Maximum amount of fertilizer right up to the field boundary

AMAZONE has developed the BorderTS deflector for even more precise fertilization up to the field boundary when spreading at larger working widths. In contrast with conventional border spreading deflectors, the BorderTS deflector operates in collaboration with the AutoTS border spreading system integrated in the spreading discs. The spread patterns of both the BorderTS and the AutoTS are matched to each other.

All values can be stored in the spreader settings beforehand, so the appropriate parameters are set automatically according to each application situation.

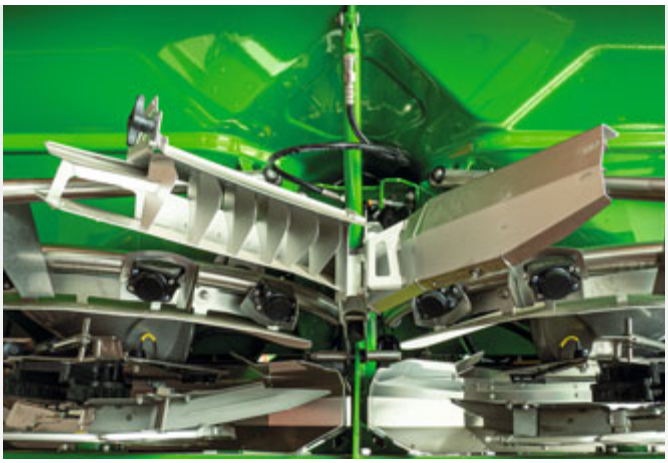
- "With the BorderTS, AMAZONE offers an extended version of AutoTS, which delivers the full rate right up to the boundary."

- "... The BorderTS can be used for base fertilizer applications on grass land and in row crops. In addition, a pass is also possible for that initial application in cereal crops with tramlines, as in our case. The wheel tracks at the field edge disappear in time. The plants get the full fertilizer rate and start the new season in good shape."

(profi – "Border work" – 04/2022)

- The BorderTS border spreading system enables increased yields of up to 27% on the outer 16 feet of the field boundary area when compared with conventional border spreading systems.

Animation of the BorderTS border spreading system:
www.amazone.net/yt-border-ts



The BorderTS deflector is mounted at the center behind the spreader and is activated hydraulically.

When activated, the BorderTS deflector on the ZA-TS is swiveled into the spread pattern from above. The special baffle plate construction and infinitely adjustable guide plate gently guide the granules to the ground.

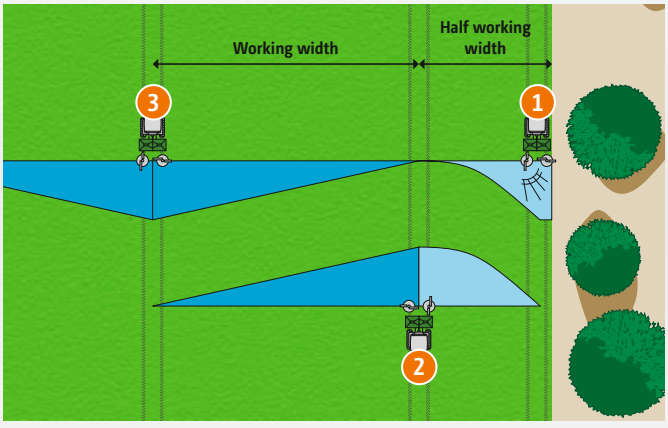
Baffle plate construction with integrated software

At larger working widths, the fertilizer must be accelerated considerably more to achieve a good overlap with the spread pattern from the first tramline. The high energy of the granules interferes with the even distribution behind the tractor provided by conventional systems. The BorderTS deflector features a special baffle plate construction that includes a guide plate, the angle of which can be adjusted. The baffles first remove the energy from the granules, which are then gently guided to the ground by the guide plate. The guide plate can be adjusted infinitely for optimal application to the field boundary. In addition, a sensor detects the working position. When the deflector is in use, the fertilizer spread rate and delivery point onto the spreading disc are automatically adjusted to ensure the best possible lateral distribution in combination with the disc-integrated AutoTS border spreading system.

It goes without saying that the application rate can be manually overridden at any time in response to special situations.

"Checking with the mats at the field boundary showed the effectiveness of the deflector in our application. In addition, the fertilizer rate for the field was applied right up to the boundary after driving in the tramline and round the outside – excellent."
(profi – "Border work" – 04/2022)

Illustration of the combined use of BorderTS and AutoTS



1. Fertilizer is spread from the edge of the field into the crop by the BorderTS deflector, which automatically reduces the target rate to 50%. The shutter nearest the field boundary is left closed.
2. AutoTS spreads at 50% from the first tramline to the boundary side, thereby achieving the target rate across the entire field boundary area. Normal spreading to the field side with 100% of the target rate.
3. In subsequent tramlines, normal spreading is resumed with 100% of the target rate to both sides.

INNO VATION FARM
FARMING FOR FUTURE

Proven precision!

Innovation Farm field trial

- Large-scale field trials by Innovation Farm in Austria compared four border spreading systems under practical conditions.

average field size	5 ac (2 ha)	10 ac (4 ha)	30 ac (12 ha)
Limiter	$54.33	$38.41	$22.19
Hydro	$58.24	$41.16	$23.79
AutoTS	$121.61	$85.95	$49.35
BorderTS	$125.97	$89.04	$51.44

Additional revenue per acre of crop area and per year with the use of the different border spreading systems at a width of 120 ft (36 m)
(top agrar 07/2022, Source: Innovation Farm)

Field trials prove the best border spreading results

The aim of the field trial was to demonstrate the fact that border spreading systems provide not only ecological benefits, but also that they have a great influence on the potential yield in the field boundary area.

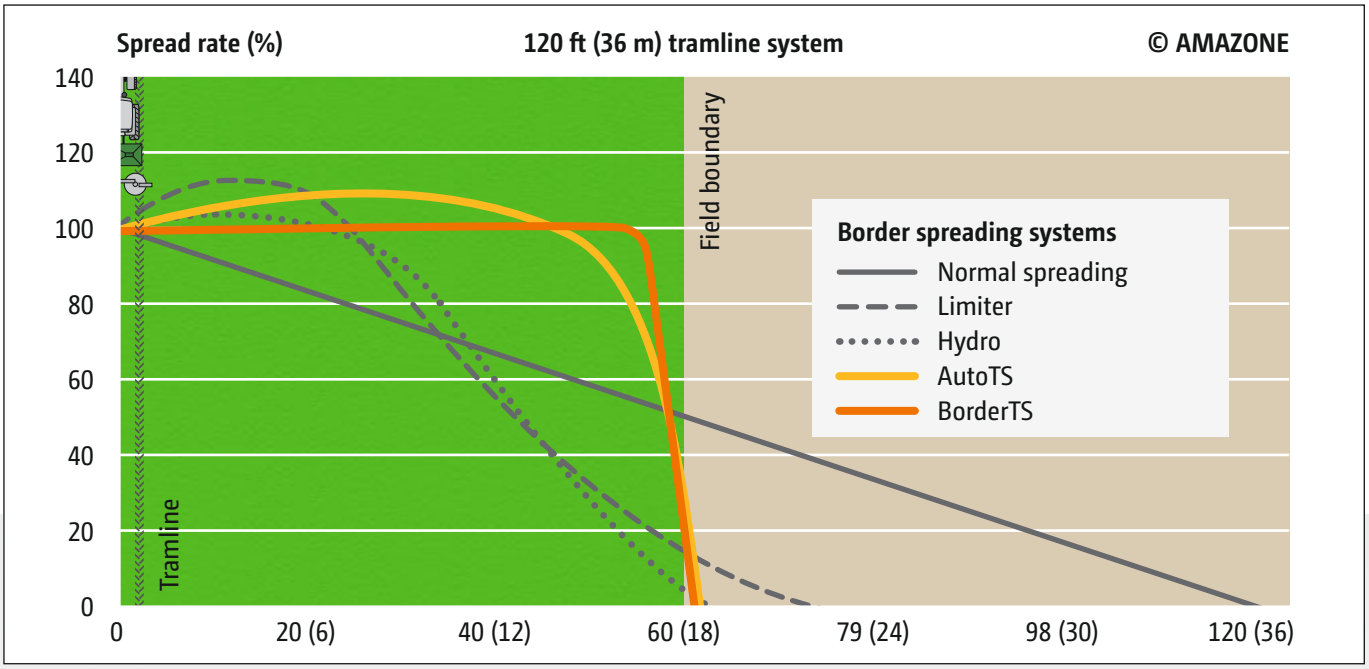
Precise technology is required to spread the full rate of fertilizer right up to the field boundary, even at the larger working widths, as well as avoiding any fertilizer losses outside the field boundary.

AutoTS and BorderTS fulfill these requirements.
This means that higher yields can be achieved, even at the field boundary.

Core messages of the trial

- "A wider working width or smaller field sizes increases the level of return on a boundary spreading system."
- "The AutoTS and BorderTS spread patterns show a relatively even spread rate all the way up to the boundary, after which the rate drops steeply."
- "Any underdosage was clearly reduced by using AutoTS and BorderTS, which translates into higher yields."
- "This means that using both AutoTS and BorderTS is beneficial when applied to larger working widths."

(top agrar – "Precision goes boundary spreading" – 07/2022)



The illustration shows the border spreading procedure, whereby ideally no fertilizer should be spread beyond the field boundary.

- "... This was different on the AutoTS and BorderTS which continued to apply a very even spread."

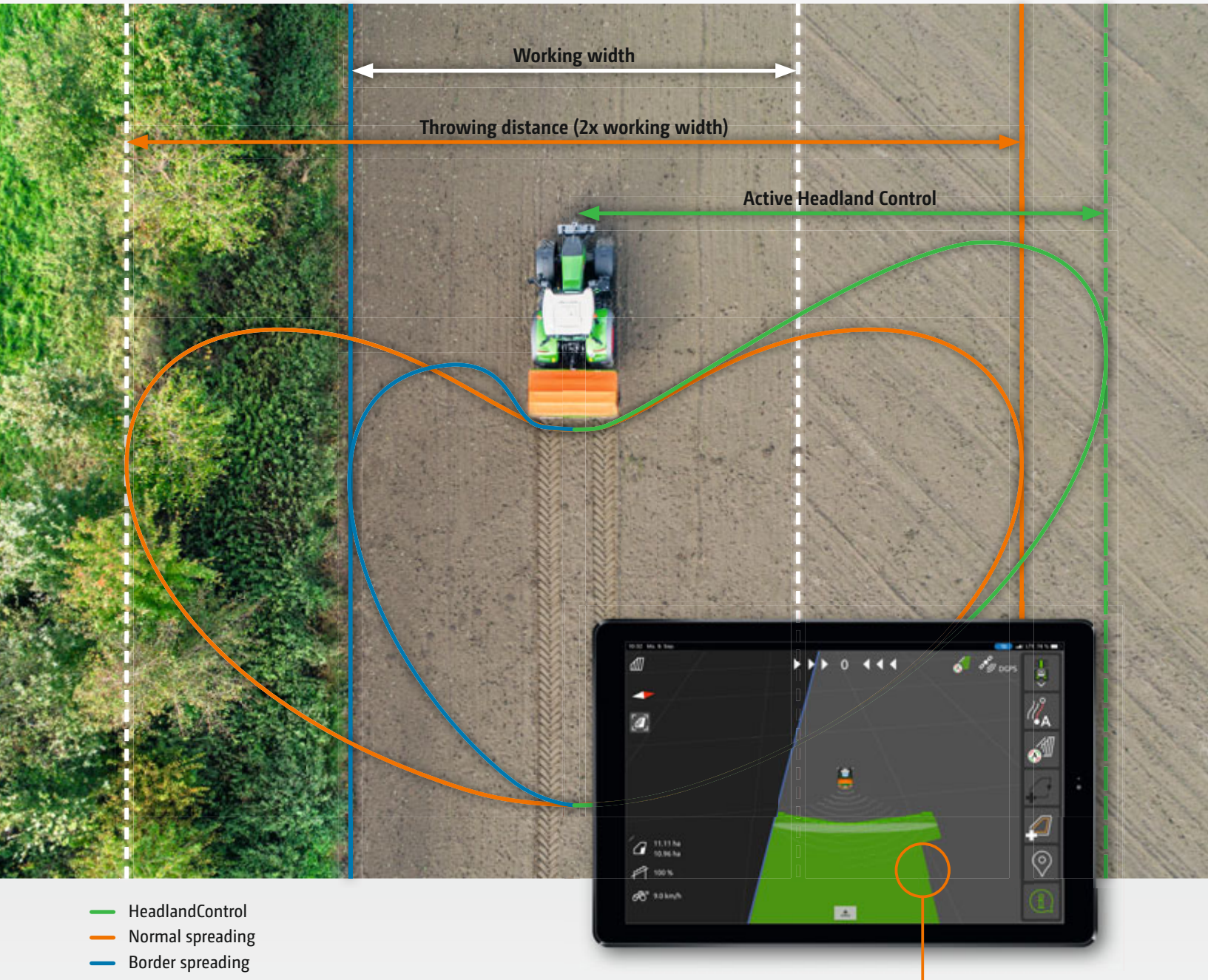
(top agrar – "Precision goes boundary spreading" – 07/2022)

Exclusive!

Headland Control

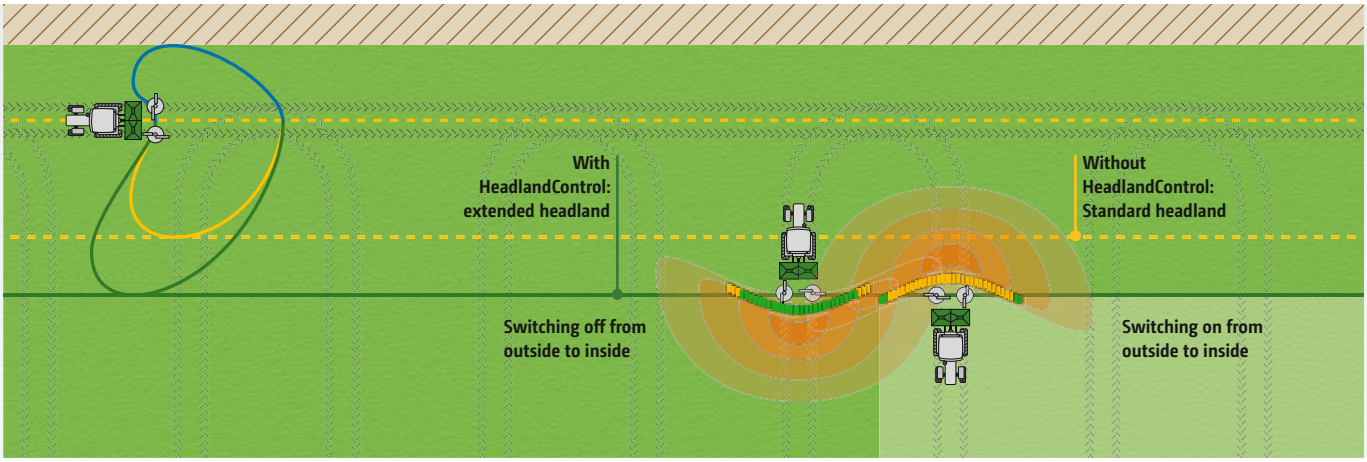
Optimum lateral distribution on the headland

More than ISOBUS



- HeadlandControl
- Normal spreading
- Border spreading

HeadlandControl provides an increase in the working width towards the inside of the field on the headland.



Perfected headland coverage thanks to Headland Control and the new part-width section control

The problem: over- and under-fertilization on the headland

Fertilizer spreaders have a high throwing distance behind the machine. In practice, the switch-off points are usually only activated when the tractor is turning on the headland. The arc of spread behind the tractor and around to the side creates areas that are either over- or under-fertilized.

Switch-off time on the headland: Without Headland Control

1. Spreader switches off too late and is already turning
2. Tractor would have to drive beyond the headland tramline

Result: over- and under-fertilized zones

The solution: Headland Control

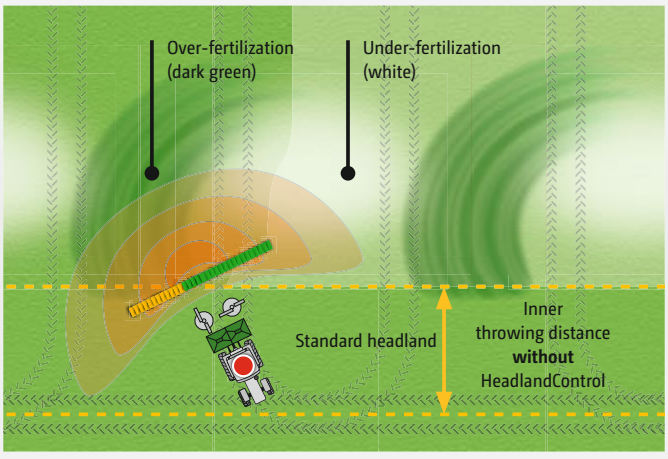
When Headland Control is activated, the throwing width and spread rate are increased on the field side, so the switch-off point is moved towards the inside of the field. Furthermore, the new part width section control, which is now adapted to the shape of the spread pattern, causes the part width sections to be switched off from the outside to the inside when entering the headland. This prevents over- and under-fertilized zones on the headland.

With Headland Control

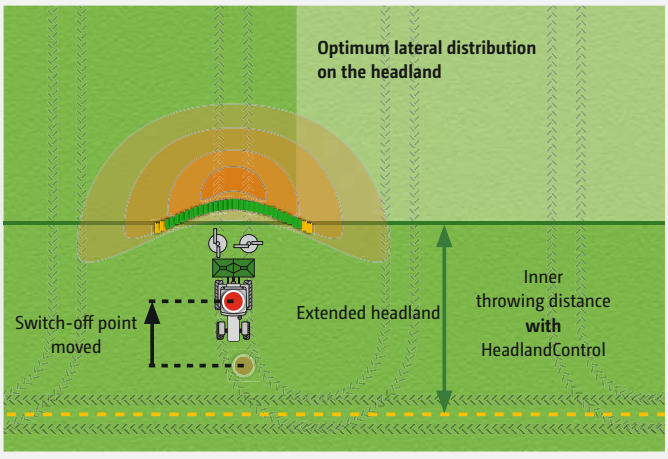
1. Headland Control means that the spreader continues to apply fertilizer to the crop when it is on the headland
2. The tractor can follow the wheel tracks of the crop protection sprayer

Result: uniform crops across the entire headland

Without Headland Control
Shut-off when turning



With Headland Control
Shut-off before turning



The "More than ISOBUS" functions from AMAZONE extend beyond ISOBUS standards. Therefore, HeadlandControl does not function on all ISOBUS terminals, among other things.

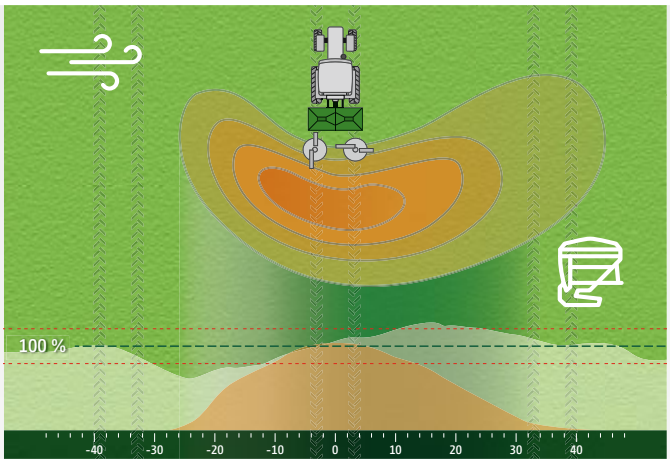
Exclusive!

Wind Control

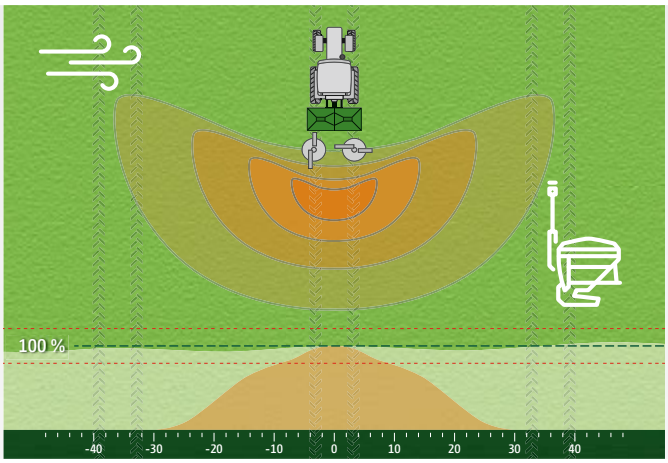
Don’t give wind a chance!

AMAZONE WindControl ensures optimum lateral distribution even in crosswinds

- WindControl traffic light system
  - Green: Unlimited spreading
  - Yellow: Increased control in border areas
  - Red: Stop spreading!



Without WindControl: Crosswinds affect the spread pattern and change the lateral distribution



With WindControl: WindControl counteracts the effect of a crosswind ensuring an optimal spread pattern at all times

Optimum lateral distribution

The wind is always blowing somewhere in the world and this represents a major challenge in maintaining an even fertilizer spread pattern. The influence of wind on the spread pattern can be constantly monitored and automatically compensated for with the AMAZONE WindControl system (according to Prof. Dr. Karl Wild of the University of Applied Sciences, Dresden).

A high-frequency wind measuring sensor mounted on the machine registers both wind speed and direction. The job computer then uses this information to calculate new settings for the delivery system and the spreading disc speed. In a cross wind, the disc speed is increased on the side into the wind and the delivery system is rotated outwards. At the same time, the speed of the downwind side is reduced and the delivery system rotated inwards.

WindControl assists in creating larger time windows for spreading under windy conditions. Apart from all the important fertilizer spreader parameters, the user also has the ability to constantly monitor the real-time direction of the wind, the force of the wind, and wind gusting data. WindControl also issues an automatic warning to the driver in the event of strong winds, when the system is no longer able to compensate for the effects of the wind or when gusts of wind change too frequently.

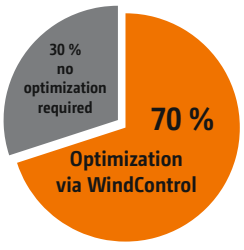
The benefits

- Higher output through longer time windows
- Increased yield thanks to optimized lateral distribution
- Operational safety via the automatic warning system

WindControl in practice

Key data and information

- Field size 173 ac (70 ha)
- Wind speeds of up to 17 mph (27 km/h)
- WindControl improves the lateral distribution across 70 % of the area*



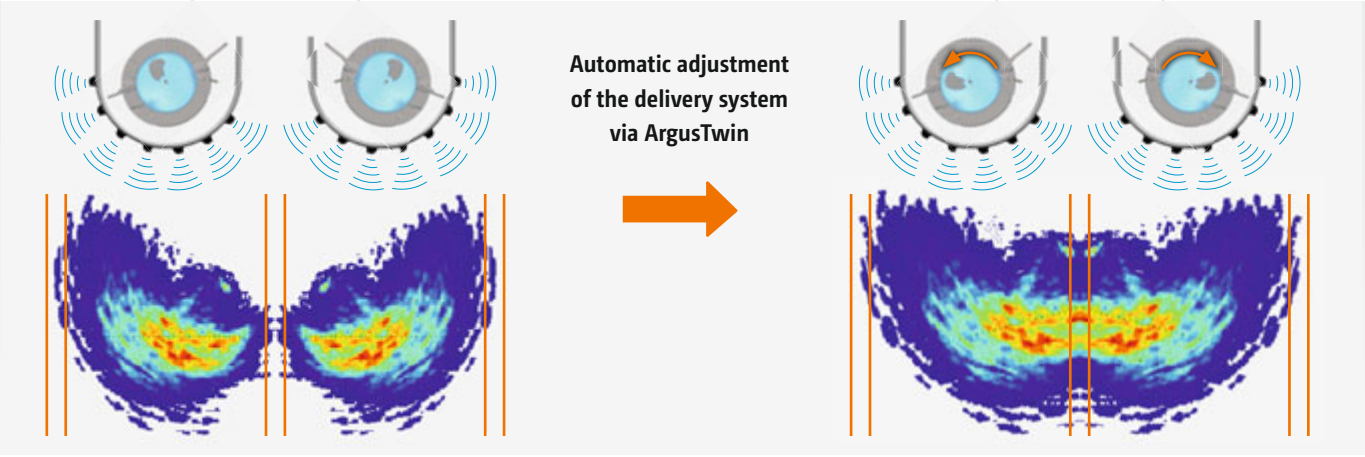
INFORMATION ON THE FIELD TRIAL
www.amazone.net/windcontrol

ArgusTwin

The spreader's eyes – it sees what you don't see!

"ArgusTwin optimized lateral distribution within seconds."
("profi"– Test report AMAZONE ArgusTwin · 01/2016)

Argus



The problems in practice – poor lateral distribution, for instance, due to a change in fertilizer properties

Perfect lateral distribution enables uniform crops, even with varying fertilizer quality and properties

Automatic adjustment to the optimum lateral distribution

Constant online monitoring and readjustment of the delivery system allows the ArgusTwin system to maintain optimum lateral distribution of the fertilizer. This yields more effective fertilizer use and forms the basis for optimum crop management.

The Argus system, which checks the spread pattern and automatically regulates the lateral distribution, uses radar technology that is less affected by dust and pollution and thus provides reliable results in practice. ArgusTwin uses sensors mounted on both the sides of the spreader to constantly monitor the left- and right-hand spread patterns simultaneously and readjusts the electric delivery system independently on each side if necessary.

Automatic delivery system adjustment

The ISOBUS terminal is used to enter the application rate and all other settings relevant to fertilizer spreading in the settings chart. For the Argus system, the spreading chart has been updated to include the throwing angle resulting in optimum lateral distribution. Utilizing this value, ArgusTwin constantly checks whether the predetermined direction of throw for that fertilizer is in fact being maintained by the spreading discs. When the actual throwing width deviates from the "desired" throwing width due to inconsistencies within the fertilizer, worn spreading vanes, working across slopes or during starting and stopping procedures, the spreader automatically readjusts the setting for the delivery system – and that of each side individually. The only precondition for its use is the electric delivery system adjustment.

The benefits

- Constant online monitoring of both spread patterns
- Maintains an optimum lateral distribution of the fertilizer even with:
  - variable fertilizer quality
  - environmental conditions, such as moisture and dew
  - Fertilizer build up on the spreading discs
- Automatic slope compensation of the spread pattern
- Position protected directly above the spreading discs

REACTION FROM END USERS!
Find out more

Optional equipment

Perfect down to the last detail

SafetySet – integrated as standard

Safety Set, which is fitted as a standard feature, ensures improved safety. The outer guard tube meets the requirements of the accident prevention regulations. Large rear marker boards and the LED road lighting kit ensure easy recognition in road traffic.

GPS receiver holder on the fertilizer spreader

The holder includes a 40 ft (12 m) GPS connecting cable and serves to mount a GPS receiver on the fertilizer spreader instead of on the tractor. The GPS receiver can remain on the spreader if the tractor is changed frequently, as may occur in machine cooperatives. During use, the GPS receiver is always located clearly above the fertilizer spreader.

Roll-over cover

The roll-over hopper cover, moved either manually or operated hydraulically from the tractor, is available for all S and L extensions. It safely covers the entire hopper access area and ensures the maximum filling opening when rolled up and secured. The roll-over hopper cover can also be combined with the bolt-on S 600 and L 800 extensions.

"The roll-over cover is excellent: it closes off neatly, keeps the water out during a shower and does not interfere with the filling operation when open/rolled up."

(dlz agrar magazine – Long term test ZA-TS "Wide throwing master" · 01/2016)

Swivel hopper cover

A cost-effective alternative to the roll-over hopper cover is the swivel hopper cover, equipped with a large sight window, but only for use with S extensions.

Swivel hopper cover, in its maintenance position for simpler internal cleaning

"The robust (and front-steering) parking rollers with brakes are swiveled in or out with a strong kick. There is no better way."
(profi – Practice test "Comparing four fertilizer spreaders" · 01/2016)

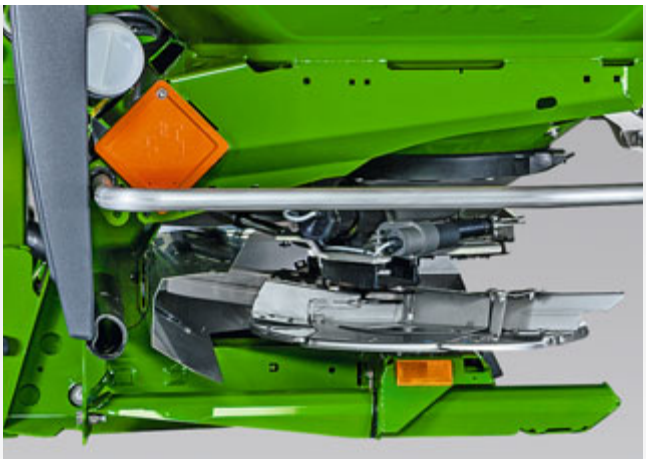
Swivel rolling and parking device

The swivel rolling and parking device facilitates easy hitching to the tractor, unhitching from the tractor, and maneuvering in the yard. The caster wheels can be quickly folded in and out and optimally protected from dirt. They are permanently mounted on the spreader – so no need to search for them between one location and another.

Ladders that ensure safe access

For optimum access to the hopper from outside, even on the narrow extensions, a ladder is available that can be fitted to the left- and/or right-hand side. For the wide L extensions though, ladders come standard on both sides.

"AMAZONE continues to set the standard, even with their ladder: The rungs (stainless steel) are properly fitted on both sides and do not protrude."
(profi – Practice test "Comparing four fertilizer spreaders" · 01/2016)



Parking device with stands included

Parking device options

As an alternative to the swivel rolling and parking device, there is a cheaper parking stand available with an integrated skid.

Camera system for the ZA-TS – Safety first!

The optional camera system mainly serves for safety when maneuvering. The high resolution, antiglare monitor is backlit and can display two cameras simultaneously.
It can also be coupled to an ISOBUS terminal with an analog video input.

The picture from the camera can also be displayed alternatively on AmaTron 4 using the analog video input.

Let there be light

Multiple benefits of the working lights

The lighting for the spreading unit is securely incorporated in the lighting carrier.

A spread fan, spreading unit and internal hopper lighting

An optional light kit is available as a supplement to the standard LED lighting for the ZA-TS mounted spreader.

LED work lights are mounted in the hopper above the spreading discs and at the sides. This ensures that the user has a good view of the fill level in the hopper at night, as well as adequate lighting to change the spreading discs and to fasten the telescopic blades on the spreading vanes.

The work lights are fully integrated in the software of the fertilizer spreader and can therefore be operated remotely from the tractor cab via the ISOBUS terminal.

The two side-mounted LED work lights provide perfect lighting of the spread fan to the left and right in the dark.

Filling aid

Operators will especially love the filling aid provided by the work lights and the Profis weighing system. Initial flashing followed by the steady beam of the work lights signals that the hopper is full. Needing a second person or getting off the machine to check the level is no longer necessary.

Lighting for the inside of the hopper

The steady beam of the work lights indicates that the pre-set full load capacity has been reached. the work lights

Front Rear duo

A new level of precision

A road lighting kit is also available for safe road transport with the front-mounted spreader.

Two in one spreading

For customers who intend to accurately spread two different mineral fertilizers in just one pass,
AMAZONE offers the unique possibility of a front-mounted spreader. Unlike the strategy of using blended fertilizers in one fertilizer spreader, this option allows for optimal configuration of each spreader according to the properties of the relevant fertilizer. This enables perfect lateral distribution for both fertilizers. It is also possible to spread with two different application maps.

The benefits of front-mounting

- Ability to accurately spread two different types of fertilizer in just one pass
- More capacity from the additional hopper capacity, while retaining the benefits of a mounted machine – maneuverability and speed

- "The spreader duo stands out because of its precision."
- "The combination is maneuverable, efficient and improves weight distribution on the front and rear axle."
  (agrarheute magazine– test report with the front mounted spreader · 09/2018)

Convenient and reliable

Operation of a "reversed" fertilizer spreader on the front of the tractor is enabled by an intelligent software package that reliably mirrors the spreading function and required working parameters without any rethinking.

The result is trouble-free normal, side, border and even waterway spreading activated on the correct side. Even the optimum switching points for automatic on/off switching on the headland are mirrored.

- Precise spreading of two different fertilizer types

ZA-TS model overview

Always the right choice:

The tractor's standard ISOBUS equipment ensures that all the benefits of the ZA-TS can be used, even on older tractors

One spreader – so many possibilities

Decide for yourself!

	ZA-TS Tronic	ZA-TS Profis Tronic	ZA-TS Hydro	ZA-TS Profis Hydro
Basic machine				
Electric shutter operation	●	●	●	●
Electric agitator	●	●	●	●
Electric delivery system	○	○	○	○
Forward speed-dependent spread rate regulation	●	●	●	●
Low level sensors	○	○	○	○
Border spreading device				
Border spreading AutoTS	○	○	○	○
Border spreading with BorderTS (manual/electric delivery system)	— / ○	— / ○	— / ○	— / ○
Bed spreading with the bed spreading deflector	○	○	○	○
Online spread rate calibration				
Profis weighing system	—	●	—	●
ProfisPro weighing system + torque measurement	—	○	—	○
Tilt sensors	—	○	—	○
Optimized lateral distribution				
ArgusTwin (manual/electric delivery system)	— / ○	— / ○	— / ○	— / ○
WindControl (manual/electric delivery system)	—	—	— / ○	— / ○
Headland Control (manual/electric delivery system)	— / ●	— / ●	— / ●	— / ●
Part-width section control				
Delivery system adjustment (manual/electric delivery system)	— / ●	— / ●	— / ●	— / ●
Spreading disc speed	—	—	●	●
Max. number of part-width sections (manual/electric delivery system)	8 / 16	8 / 16	128 / 128	128 / 128
Mode of operation				
Terminal	ISOBUS	ISOBUS	ISOBUS	ISOBUS
Automatic documentation	●	●	●	●

● Standard ○ Optional — not available

MEMBER OF AEF

AEF Certified ISOBUS www.aef-isobus-database.org

ISOBUS as the basis for intelligent communication

One language, many benefits!

Each ISOBUS-enabled machine from AMAZONE comes with the latest technology and almost unlimited possibilities. It does not matter if you use an operator terminal by AMAZONE or an ISOBUS terminal installed directly in your tractor. ISOBUS is an internationally recognized standard for communication between the operator terminal, tractors and connected implements on the one hand and Farm Management Information Systems on the other.

Operation via a wide-range of ISOBUS terminals

This means that ISOBUS enables you to take control of all your ISOBUS-compatible equipment. Just connect the machine to the relevant ISOBUS terminal and the normal operator interface will be displayed on the monitor in your tractor cab.

Benefits of ISOBUS at a glance:

- This global standard provides a uniform interface and data exchange formats that ensure compatibility even with third party manufacturers
- Plug and Play between machine, tractor and additional ISOBUS implements

Perfectly developed machine operation from AMAZONE

AMAZONE machinery and operator terminals offer a range of functions that are very easy and safe to operate:

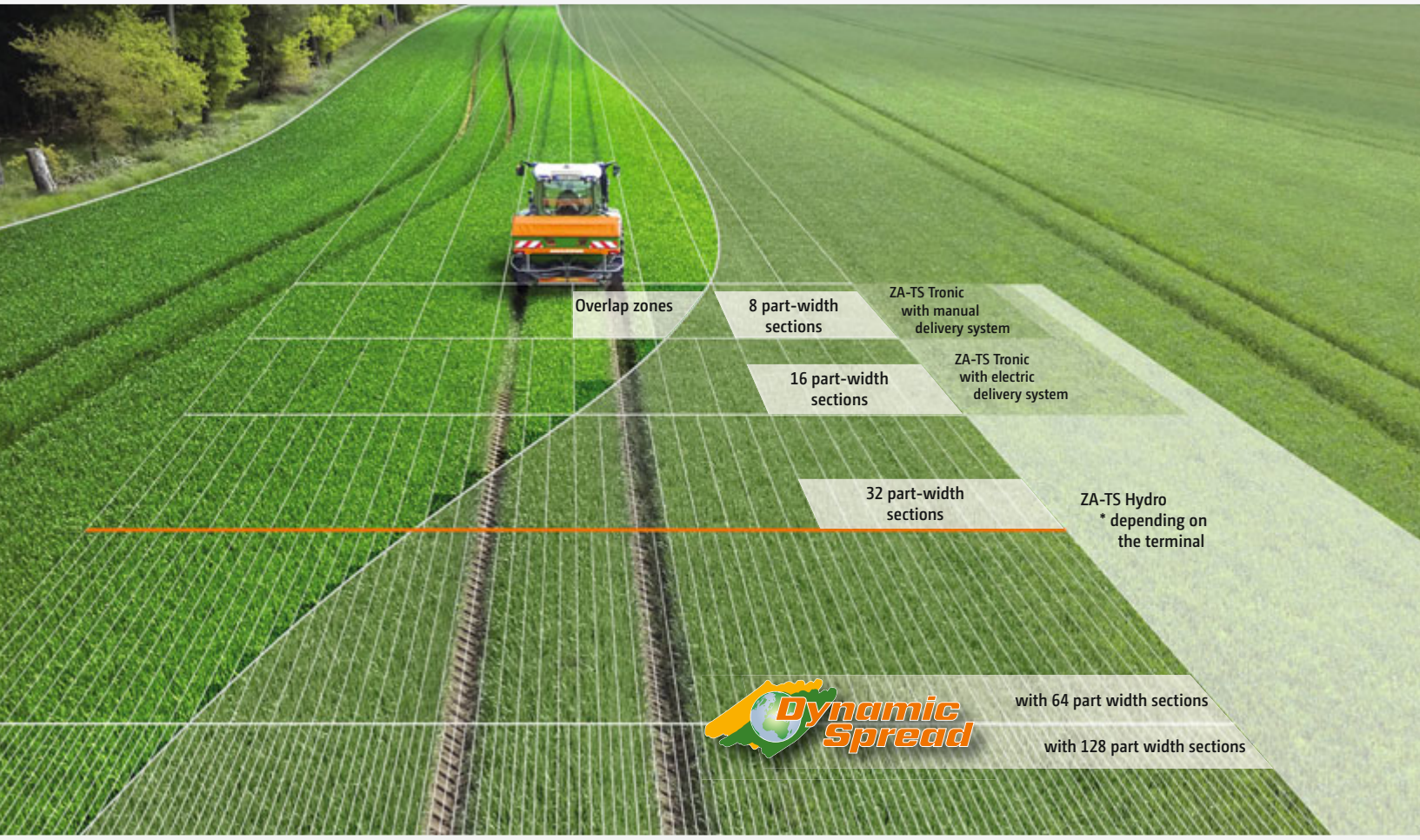
- Highest compatibility and function flexibility of your ISOBUS equipment
- No additional modules on the implement. All ISOBUS machines from AMAZONE come equipped with the necessary ISOBUS functions as standard
- Practice-oriented machine software and logical menu structure
- MiniView display with all AMAZONE terminals and additional ISOBUS terminals. See, for instance, the machine data in the map view
- Possibility of operating the machine via the tractor terminal or a twin terminal solution
- Flexible assignment of the map and machine view between the tractor terminal and the operator terminal
- Unique operating concept. Freely configurable displays and individual user interfaces for each driver
- Functions such as HeadlandControl and parabolic part-width section control
- Integrated TaskController data logger function

Clearly structured AMAZONE machine operation

Advantages of the AMAZONE machine software:

- User-oriented and intuitive
- Tailored to the machine
- Function scope above and beyond the ISOBUS standard

Automatic GPS Switch part-area shutoff with Section Control



With Dynamic Spread, individual outlying part width sections can also be controlled.

More precision, more efficiency!

In view of the very large working widths used now, it is important to match the spread patterns. Electric delivery system adjustment on the TS spreading system enables it to react precisely and sensitively in these cases.
Even outer part width sections can be easily controlled this way. Individual speed adjustment of the left- and right-hand side discs makes it possible to reduce the spreading width from the far outside to the center, so that optimal spreading is achieved on wedges with a long and shallow profile and short work areas. This means part width section control. At the simplest level of specification, 8 part width sections can be easily actuated manually (via the operator terminal). Part width section control of up to a maximum of 128 part width sections is possible with a relevant Section Control license on the terminal.

Part width section control for ISOBUS fertilizer spreaders	ZA-TS Tronic Manual delivery system adjustment	ZA-TS Tronic Electric delivery system adjustment	ZA-TS Hydro Manual delivery system adjustment	ZA-TS Hydro Electric delivery system adjustment
Spread rate regulation	X	X	X	X
Setting the delivery system		X		X
Matching the spreading disc speed			X	X
Number of part width sections • Manual mode at the press of a button • Automatic mode via Section Control/GPS Switch	8 In manual and automatic mode	8 In manual mode 16 In automatic mode	8 In manual mode up to 128 In automatic mode	8 In manual mode up to 128 In automatic mode
Possible working widths	50–177 ft (15–54 m)	50–177 ft (15–54 m)	50–177 ft (15–54 m)	50–177 ft (15–54 m)

If the operating terminal has Section Control capabilities, such as GPS-Switch part width section control from AMAZONE, the part width sections are automatically activated based on GPS position. Once a field has been configured, the driver can concentrate fully on operating the vehicle in automatic mode, since the part-width sections are switched automatically in wedge shaped fields and on headlands.

Benefits of automatic part width section control:

- Operator stress relief
- Increase in precision, especially at night or at higher speeds
- Fewer overlaps and gaps
- Saving on input costs
- Less crop damage and less environmental pollution

"The Section Control feature of the ISOBUS terminal takes a lot of pressure off the driver."

("dlz agrar magazine" – test report ZA-TS fertilizer spreader · 02/2017)

GPS-Switch

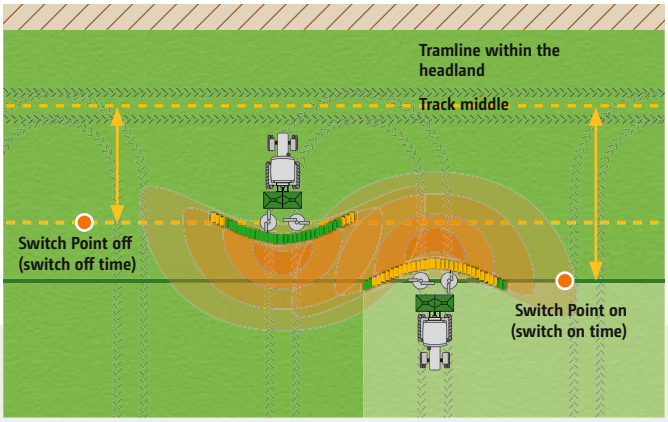
The AMAZONE GPS-Switch offers GPS-based, fully automatic, part-width section control for all AMAZONE operator terminals and ISOBUS-compatible fertilizer spreaders, crop protection sprayers and seed drills.

GPS-Switch basic

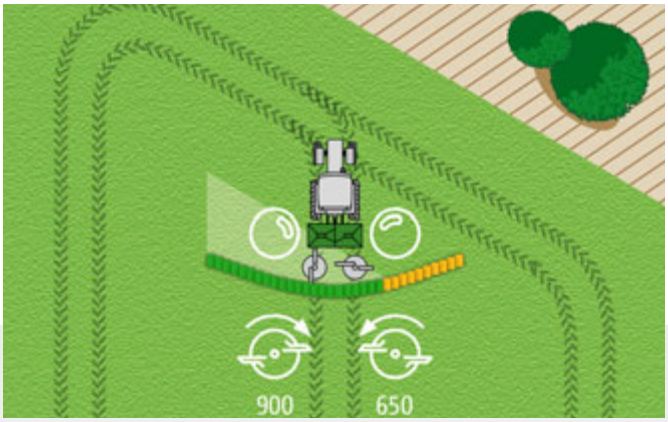
- Automatic part-width section control for up to 16 part-width sections
- Creation of a virtual headland
- Parabolic part-width section control in the form of the spread pattern
- Optional with AmaTron 4

GPS-Switch pro (as an add-on to GPS-Switch basic)

- Automatic part-width section control for spreaders with hydraulic spreading disc drive
- Obstacle marking (e.g. water holes, pylons)
- Auto-zoom when approaching the headland



When using GPS-Switch, SwitchPoint can be used to re-adjust the on/off switching points depending on the type of fertilizer and the working width.



Optimum part-width section control with adjustment of the delivery system, adaptation of the spreading disc speed (Hydro) and spread rate regulation.

Workday made easy –

Make the most of what you have!

GPS Maps&Doc

All standard ISOBUS terminals from AMAZONE can collect and save machine and site-specific data using Task Controller. Allows for part-area, site-specific operation on the basis of application maps in either Shape file or ISO-XML formats.

- Easy creation, loading, and processing of jobs
- Start a new task straight away and decide later whether or not to save the data
- Import and export jobs in ISO-XML format
- Job summary via PDF export
- Intuitive system for processing application maps in either Shape file format or ISO-XML format
- Automatic part-area, site specific regulation of the application rate
- Indication of inactive field boundaries and automatic field detection when approaching the area
- Optimal crop management thanks to needs-based application
- Optional with AmaTron 4

GPS Track

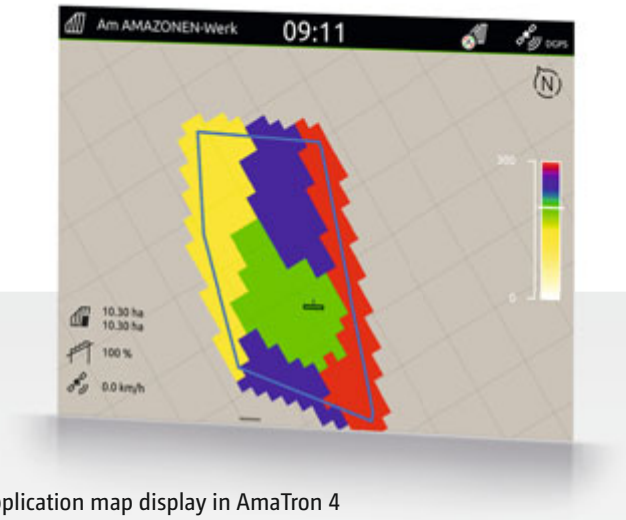
GPS Track parallel guidance greatly helps with orientation in the field, especially on grasslands or in areas without tramlines.

- With a virtual light bar in the status bar
- Automatic tramline control via GPS for seed drills
- Various track modes such as A-B lines or contour following
- Optional with AmaTron 4

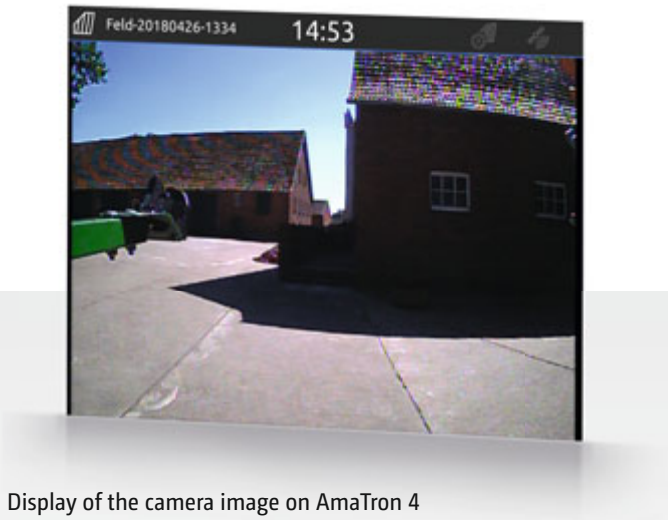
AmaCam

Software license to display a camera image on AmaTron 4.

- Automatic display of the camera image on AmaTron 4 when reversing
- Optional with AmaTron 4



Application map display in AmaTron 4



Display of the camera image on AmaTron 4

AmaTron 4

Manager 4 all

AmaPilot+ – Everything in the palm of your hand!

Thanks to the AUX-N feature, you can operate multiple functions of the machine via AmaPilot+ or any other ISOBUS multifunction joysticks.

Benefits of AmaPilot+:

- Nearly every function is controlled directly via the 3 levels
- Adjustable palm rest
- Freely programmable, individual key layout

AmaTron 4 ISOBUS terminal

Full functionality

The AmaTron 4 ISOBUS operator terminal, developed in-house by AMAZONE, enables convenient tablet-style, touch-screen control of any ISOBUS-enabled agricultural machine. AmaTron 4 makes all ISOBUS functionality possible - with added convenience, user-friendliness and overviews. And yet: it performs even better in combination with AMAZONE agricultural machinery and guarantees full functionality when it comes to precision farming.

ROBUSTNESS

STURDY!

- Low-reflection, 8” display with waterproof and dustproof aluminium housing
- Rear-mounted hand rest for a secure grip

RELIABILITY

WELL THOUGHT THROUGH!

- Practical and clear menu navigation for simple and intuitive use
- Actuation via touch screen or soft keys
- Simple documentation and job management: work first - then save the data
- Optional software licences for maximising every opportunity in precision agriculture

COMFORT

COMFORT!

- App carousel for quick and easy navigation at the swipe of a finger
- Freely configurable status bar - the most important parameters available at a glance, all of the time
- The practical quick-start menu allows quick and easy import and export of job data

Extended functionality via licences	Function in AmaTron 4
GPS-Maps&Doc	• Inactive field boundaries and automatic field detection • Documentation via ISOBUS Task Controller or PDF export • Application maps in ISO-XML format and Shape file format • Online data exchange via the AmaTron Share App
GPS-Switch basic	• Section Control with up to 16 part-width sections • Virtual headland • Automatic boom lowering • HeadlandControl and parabolic switching
GPS-Switch pro	• Section Control with up to 128 part-width sections and for up to 2 independent, ISOBUS-enabled machines • Auto-zoom, obstacle marking • MultiBoom - Section Control for up to 4 different materials • Spot spraying
GPS-Track	• Optical parallel guidance aid • Various different track modes • ISOBUS Level 1 tramline control
AmaCam	• Camera display with reversing aid facility
AmaTron Twin	• Display extension using the AmaTron Twin App
GPS-ScenarioControl	• AmaTron Twin licence extension, for cross-machine route display and automation of complex switching processes when fertilising

More comfortable machine operation

AmaTron Twin App – extended display for user-friendly operation

The AmaTron Twin App offers the driver even more comfort during work, as any GPS functions in the map view can also be operated via a tablet in parallel with the machine operation on the AmaTron 4.

Advantages of the AmaTron Twin display enhancement:

- Use of an existing mobile device
- Greater clarity – every application always in view
- Comfortable control of the GPS functions in the map view, in parallel, via the mobile device
- Clear, authentic representation of the working machine and its part-width sections

The AmaTron Twin App

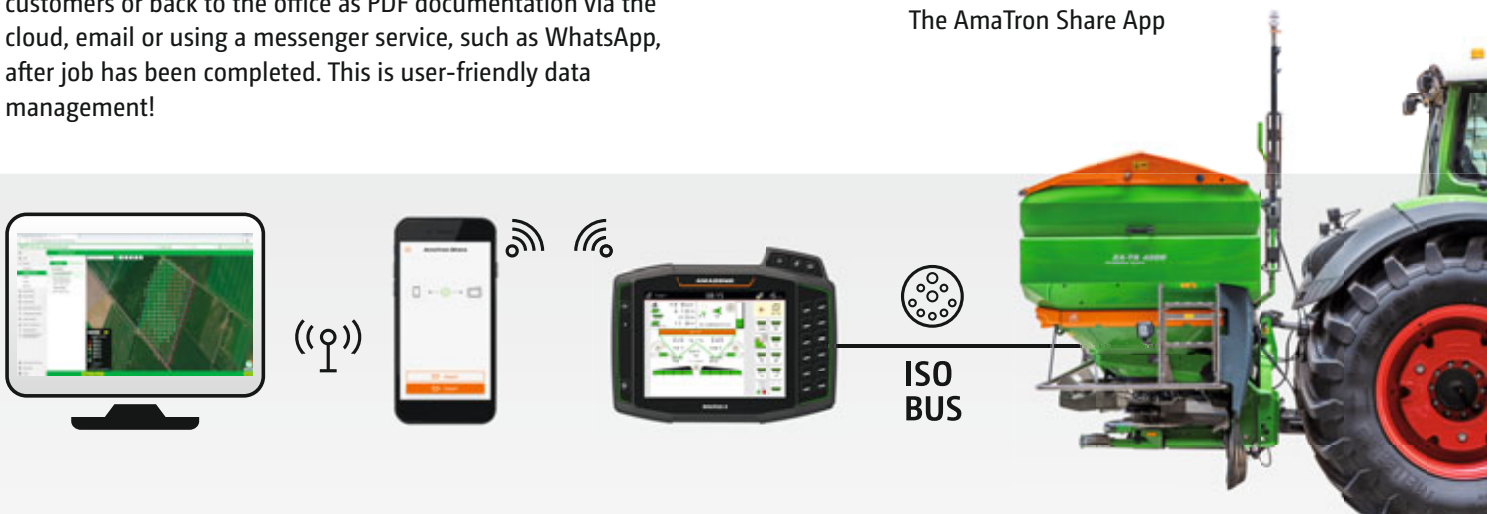
"Operation and monitoring works perfectly with AmaTron 4 and an iPad."

(profi - "Big, bigger, ZA-TS" - 12/2024)

AmaTron Share App for digital data transfer. Try it now!

The AmaTron Share App, which is connected to the AmaTron 4 via a Wi-Fi hotspot, allows all data to be conveniently imported and exported online. For example, the App enables application maps to be easily sent from the office to the AmaTron 4 for completion. Job data can also be sent to customers or back to the office as PDF documentation via the cloud, email or using a messenger service, such as WhatsApp, after job has been completed. This is user-friendly data management!

The AmaTron Share App



Exclusive!

GPS ScenarioControl

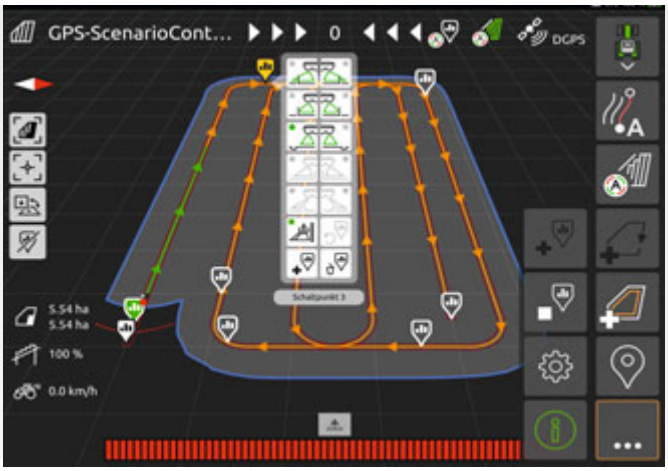
Terminal software for the automation of complex switching processes

GPS ScenarioControl can be used in conjunction with the AmaTron 4 ISOBUS operator terminal and the AmaTron Twin App.

"GPS-ScenarioControl from AMAZONE helps to prevent errors when selecting the border spreading mode and any unnecessary wheel tracks."

("profi" – Practice test "Pushing boundaries with the App" · 01/2022)

GPS ScenarioControl view on the AmaTron Twin App



Field with complete route planning and saved, geo-referenced scenarios

Support for needs-based fertilization

When applying fertilizer, operators have to juggle several tasks. They first need to ensure optimal lateral distribution of the material to be spread, while maintaining the desired application rate of the fertilizer. Secondly, they must ensure that the most appropriate border spreading mode is used alongside ditches, footpaths or field boundaries to guarantee legally compliant and precise fertilization. This can lead to operator errors, especially when changing drivers, because the right border spreading procedure is not activated or deactivated in the right place. Lack of operator knowledge can also lead to non-compliance when applying fertilizer.

Record and store the right driving strategy

When crossing the field for the first time with the fertilizer spreader, all the switching points, the driving route and driving direction can be plotted automatically by an experienced operator using GPS ScenarioControl, by simply pressing the record button. The switching points are clearly marked on the map and the driving direction is displayed by arrows. The GPS ScenarioControl is integrated in the AmaTron 4 ISOBUS operator terminal and can be viewed and operated via the AmaTron Twin display extension.

Automation of complex switching processes and reduced operator workload

In the following application, the operator only needs to activate the previously plotted scenario and the fertilizer spreader will automatically perform the saved switching processes. GPS ScenarioControl enables the precise, resource-efficient use of fertilizer, since the various spreading procedures are performed in exactly the right places.
This ensures that any subsequent applications by other operators are legally compliant. In addition, operators can use the pre-plotted, optimized field route as a guide.

The benefits at a glance:

- Always the same switching processes with different fertilizer applications
  – Prevention of operator errors
  – Legally compliant and resource-efficient fertilizer application guaranteed
  – Correct application in poor visibility, e.g. darkness or fog
- No flattening of crops because routes in the field are always optimized
  – Supports inexperienced operators

"As a result, the tool provides farm managers with the assurance that their drivers apply the fertilizer within the law beside ditches and paths and elsewhere to optimize their yield. This is particularly interesting when the drivers change frequently or when the boss wants to entrust fertilizing to trainees, for instance."

("profi" – Practice test "Pushing boundaries with the App" · 01/2022)

Spreader Application Center

Exemplary – for more than 25 years

The settings are crucial!

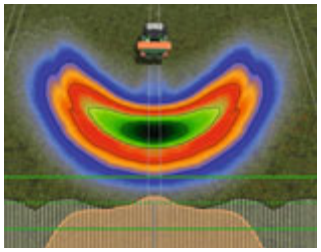
AMAZONE is providing even better customer service with the Spreader Application Center. In addition to the already well-established fertilizer laboratory and spreading hall, the Spreader Application Center now also includes areas called "Test and Training," "Data Management" and the associated "Knowledge Transfer."

The two last areas have benefited from restructuring in order to meet the needs arising from the increased globalization and digitalization of agriculture. The aim of the Spreader Application Center is to offer the customer even better fertilizer application service.

Fertilizer laboratory

Spreading hall

Testing and Training



Data management and knowledge transfer

Only when properly spread can your fertilizer be worth its weight in gold

The AMAZONE FertilizerService closely cooperates with well-known manufacturers of spreading material – worldwide – to provide you with the best setting values as quickly as possible. AMAZONE is the name for precise spreading charts, worldwide.

Modern fertilizer spreader testing hall

FertilizerService – You can contact us at:

The FertilizerService works across borders, and not just geographically. This is because regardless of whether your fertilizer spreader is 1 or 100 years old, we will always be by your side with competent and reliable assistance.

Internet: **www.amazone.net**
E-mail: **duengeservice@amazone.de**
Telephone: **+49 (0)5405 501-111**
WhatsApp: **+49 (0)175-488 9573**

AMAZONE fertilizer spreaders can be set up optimally with the free **mySpreader App**:

mySpreader app

The all-in-one package for perfect spreader adjustment

EasyCheck is an integral part of the mySpreader App

FertilizerService, EasyCheck & EasyMix

The mySpreader App bundles all the App functions for AMAZONE fertilizer spreaders into one App. The intuitive operation and convenient adjustment of the fertilizer spreader lies at the heart of the all-in-one concept.

FertilizerService
The FertilizerService App conveniently generates precise adjustment recommendations directly in the field, depending on the model of spreader, working width, fertilizer type and application rate. Thanks to the many samples sent in annually by farmers, fertilizer suppliers and fertilizer manufacturers, the App is constantly kept
up-to-date so the end user has access to current information at the start of every season. A special feature of the mySpreader App: the operator can search for fertilizers by entering the fertilizer name, the chemical composition, the granule size or bulk density, for example.

EasyCheck
The second element of the mySpreader App is the digital and mobile EasyCheck test kit. In this test kit, rubber mats are simply placed in the field at defined intervals, spread over and then photographed.

EasyCheck then calculates the degree of coverage of each mat. Based on these values, the App confirms settings or suggests improved settings for the lateral distribution of that fertilizer through the AMAZONE spreader, allowing the operator to rapidly optimize the accuracy of their crop care.

EasyMix
The mySpreader App is rounded off by the EasyMix App, which works out setting recommendations for blended fertilizers. Different fertilizers are often mixed together to save on the number of applications and reduce operating costs. This is usually a nutrient-based fertilizer application. However, if the constituents in the blend have different physical properties, precise placement becomes increasingly difficult, especially at increasing working widths.
EasyMix determines the best possible compromise between different constituents and suggests the optimal setting values for the ZA-TS and ZG-TS spreaders.

All the settings for the spreader can be transferred from the mySpreader App to the AMAZONE fertilizer spreader via a Bluetooth adapter. This saves time, prevents setting errors and is much more convenient.

Technical data:

ZA-TS		1400	1700	2000	2200	2600	2700	3200	4200	5000
Working width ft (m)		50–177 (15–54)								
Hopper capacity cu ft (L)		49 (1,400)	60 (1,700)	71 (2,000)	78 (2,200)	92 (2,600)	95 (2,700)	113 (3,200)	148 (4,200)	177 (5,000)
– with bolt-on S extension 600 cu ft (L)		71 (2,000)	81 (2,300)	92 (2,600)	–	–	–	–	–	–
– with bolt-on L extension 800 cu ft (L)		–	–	–	106 (3,000)	–	124 (3,500)	141 (4,000)	–	–
Payload lb (kg)	Super frame	7,055 (3,200)	7,055 (3,200)	7,055 (3,200)	7,055 (3,200)	7,055 (3,200)	7,055 (3,200)	7,055 (3,200)	–	–
	Ultra frame	–	–	–	9,920 (4,500)	–	9,920 (4,500)	9,920 (4,500)	9,920 (4,500)	9,920 (4,500)
Filling height ft (m) without rolling & parking device		3.7 (1.13)	4 (1.23)	4.3 (1.31)	4.3 (1.30)	4.9 (1.49)	4.7 (1.42)	5.1 (1.54)	5.8 (1.76)	6.4 (1.96)
Filling width ft (m)		7.3 (2.23)	7.3 (2.23)	7.3 (2.23)	8.9 (2.72)	7.3 (2.23)	8.9 (2.72)	8.9 (2.72)	8.9 (2.72)	8.9 (2.72)
Overall width ft (m)		8.5 (2.55)	8.5 (2.55)	8.5 (2.55)	9.6 (2.92)	8.5 (2.55)	9.6 (2.92)	9.6 (2.92)	9.6 (2.92)	9.6 (2.92)
Total length ft (m) without weighing system		4.9 (1.48)	4.8 (1.46)	4.8 (1.46)	5.1 (1.55)	4.8 (1.46)	5.1 (1.55)	5.1 (1.55)	5.5 (1.68)	5.5 (1.68)
Drive		mechanical (Tronic) / hydraulic (Hydro)								
Weighing system		as an option with Profis weighing system or ProfisPro, including FlowControl torque measurement								
Regulating electronics		ISOBUS communication via AmaTron 4 or any other ISOBUS terminal								
Lower links	Super frame	Cat. II hitch dimensions and fixing pins								
	Ultra frame	Cat. III hitch dimensions, fixing pins Cat II or III								
Tractor valves required	ZA-TS Tronic	Not necessary, (1 d/a valve for hyd. rollover cover)								
	ZA-TS Hydro	1 s/a valve + pressure-free return or load sensing for drive (oil capacity 18.5 gal/min (70 L/min)), (1 d/a valve for hyd. rollover cover)								
Min. weight lb (kg) (with spreading vane set TS 20)		1,038 (471)	1,058 (480)	1,078 (489)	1,188 (539)	1,164 (528)	1,224 (555)	1,263 (573)	1,510 (685)	1,609 (730)

Illustrations, content, and technical data are not binding and may differ, depending on the type of equipment and add-ons in use. Country-specific road traffic regulations apply and must be complied with, meaning that special approval may be required. The permissible axle loads, and total weights of the tractor should be checked. Not all listed combination options are possible with all tractor manufacturers.

ZA – the spreader

AMAZONE INC. · 6 2e Rang · Warwick, QC J0A 1M0 · Canada
Phone: +1 (819) 818 8806 · e-mail: accounts@amazone.net · www.amazone.ca · www.amazone.us

AMAZONEN-WERKE H. DREYER SE & Co. KG · P. O. Box 51 · 49202 Hasbergen-Gaste/Germany
Phone: +49 (0)5405 501-0 · Fax: +49 (0)5405 501-193

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www.amazone.net

e-mail: amazone@amazone.net