AMAZONE

Mounted spreader **ZA-TS**

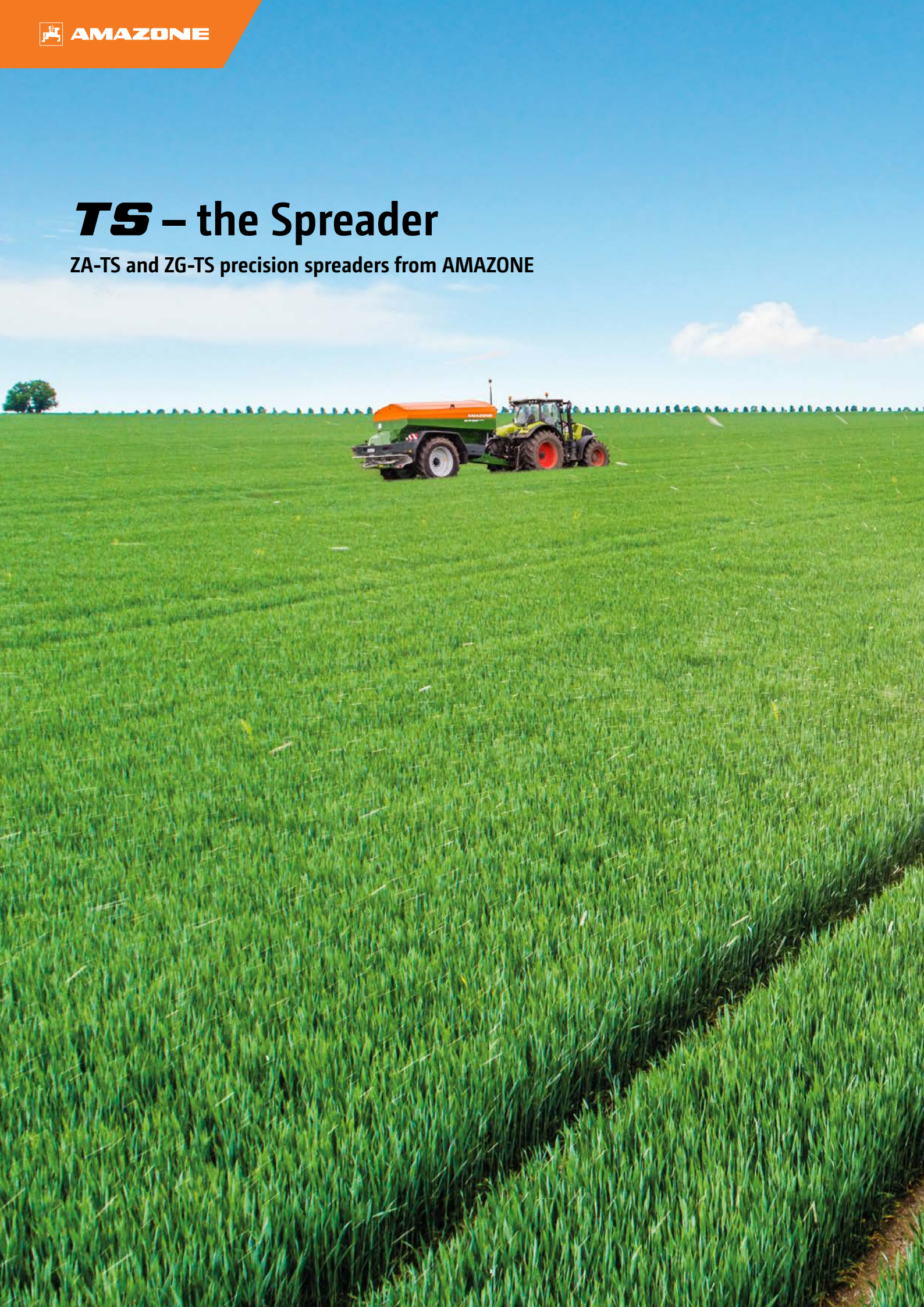
Trailed spreader **ZG-TS**

AMAZONE spreaders meet all European environmental standards

AMAZONE

TS – the Spreader

ZA-TS and ZG-TS precision spreaders from AMAZONE



ZA-TS mounted and ZG-TS trailed spreaders

ArgusTwin

the eyes of the spreader. Automatic spread pattern monitoring

Wind Control

According to Prof. Dr. Karl Wild from the University of Applied Sciences, Dresden

Headland Control

Optimum lateral distribution on the headland

EasyCheck

Effortless optimization of lateral distribution with artificial intelligence

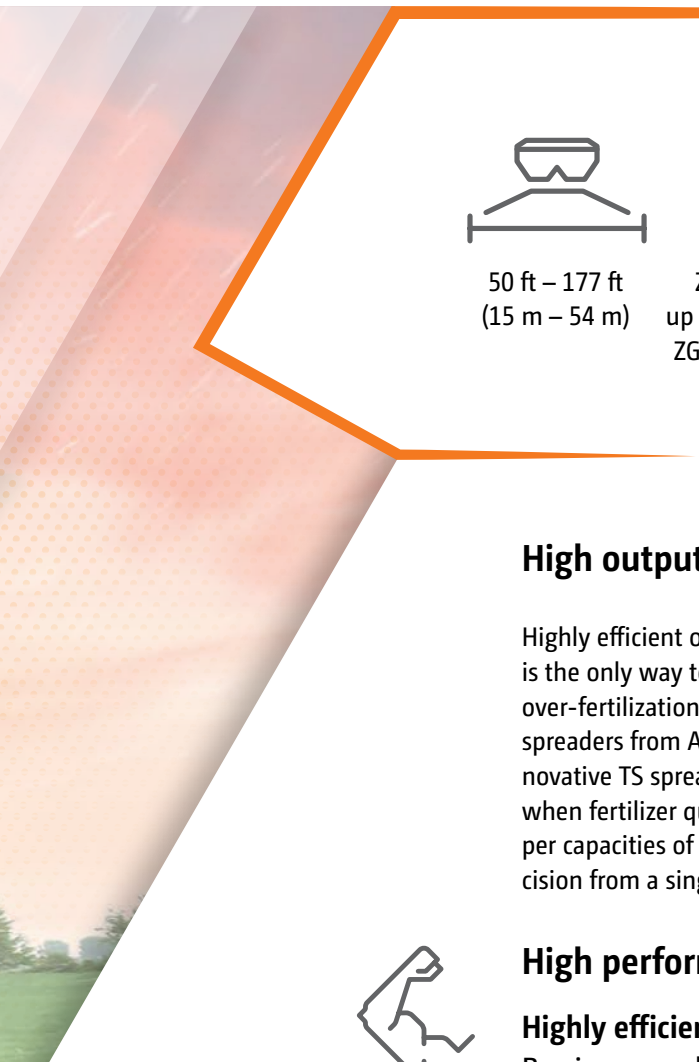
EasyMix

Intelligent adjustment and evaluation of blended fertilizers

PRODUCT FILM
Find out more

MORE INFORMATION
www.amazone.net/za-ts

MORE INFORMATION
www.amazone.net/zg-ts



50 ft – 177 ft
(15 m – 54 m)

ZA-TS: 49 cu ft (1,400 L)
up to 177 cubic feet (5,000 L)
ZG-TS: 265 cu ft or 353 cu ft
(7,500 L or 10,000 L)

16 to
128 part-width
sections

Fertilizer, pelleted materials,
seeds, slug pellets

High outputs with precise results

Highly efficient on sizeable acreage – and yet precise right up to the field boundary. This is the only way to achieve professional fertilization with high work rates while avoiding over-fertilization and protecting the environment at the same time. The ZA-TS and ZG-TS spreaders from AMAZONE meet these fertilization challenges with ease thanks to the innovative TS spreading system. Fertilizer is applied reliably, even in windy conditions, or when fertilizer quality is poor. Capable of up to 177 ft (54 m) working width, with hopper capacities of up to 353 cubic feet (10,000 L), precise right up to the border. Pure precision from a single spreading unit. This is how the best fertilization equipment works.

OUTPUT

High performance!

Highly efficient and intelligent
Precise spread patterns with working widths of up to 177 ft (54 m) and application rates of 1,433 lb/min (650 kg/min)

PRECISION

Precise!

AutoTS and BorderTS border spreading systems
Proven precision, maximum yield at the field boundary

ProfisPro rate calibration
Absolutely accurate application rates from the start, regardless of the side

HeadlandControl headland optimization
Uniform yield across the headland with optimized Section Control tailored to the spread pattern

INTELLIGENCE

Intelligent!

Wind Control
Windless conditions at the touch of a button - compensates for the effects of the wind on lateral distribution

ArgusTwin
Permanent spread pattern monitoring for optimum lateral distribution under any conditions

TS spreading system

Perfection in every component, just like clockwork

Ultra-quick and precise! Electric controllers for the delivery system

The TS spreaders open up new possibilities for maximum application rates, forward speeds and precision. To achieve this, they are equipped with an excellent delivery system with fast-acting, precision controllers. The delivery system meets the most demanding requirements, particularly when switching off and on automatically at the headland or in wedge-shaped fields, spreading using application maps, or performing continuous, on-board monitoring (ArgusTwin and Wind Control).

Concentric delivery adjustment

The concentric rotation of the delivery system around the disc allows precise adjustment for a wide variety of working widths and fertilizer types while protecting the fertilizer from scattering by placing it close to the center of the spreading disc.

Quantity effect-free metering aperture

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

Adjustments of the delivery system of the TS spreading system

1) Intelligent agitator for maximum fertilizer protection
2) Electric controller to rotate the delivery system
3) Delivery system to implement both Section Control and HeadlandControl, WindControl and ArgusTwin functions

Bottom assembly of the TS spreading system

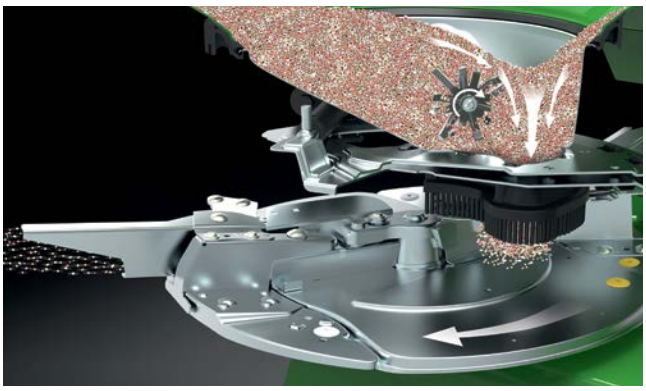
4) Electric controller for precise fertilizer metering at application rates from 6.6 lb/min (3 kg/min) to 1,433 lb/min (650 kg/min)
5) Electric controller to adjust the carrier vane
6) AutoTS gearbox, the heart of the integrated border spreading system
7) One button In-cab adjustment between border and normal spreading by moving the carrier vane
8) Short spreading vanes for side, border and water course spreading
9) Long normal spreading vane for high throwing widths and double overlap, even at working widths up to 177 ft (54 m)

TS spreading disc

10) TS spreading disc made of stainless steel, with easy-to-switch spreading vane sets TS 10, TS 20 and TS 30 for working widths from 50 to 177 ft (15 to 54 m)

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 agitator is equipped with a brush unit that ensures continuous, precise fertilizer flow onto the spreading disc

SBS pro
Soft Ballistic System

The spreading disc drive

Mechanical or hydraulic, choose for yourself!

ZA-TS

Tronic – mechanical drive

ZA-TS

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.

The benefits

- Section Control with 16 part-width sections in conjunction with the electric delivery system
- Robust drive with a fuel-efficient gear ratio of 1:1.33
- Standard PTO shaft with a friction clutch that provides protection against overload

Hydro – hydraulic spreading disc drive

ZG-TS

The Hydro version enables operation at various spreading disc speeds, regardless of the tractor's engine speed.
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.

The benefits

- 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.
- In combination with WindControl, independent side regulation enables windy conditions to be compensated for
- Pressure filter comes standard

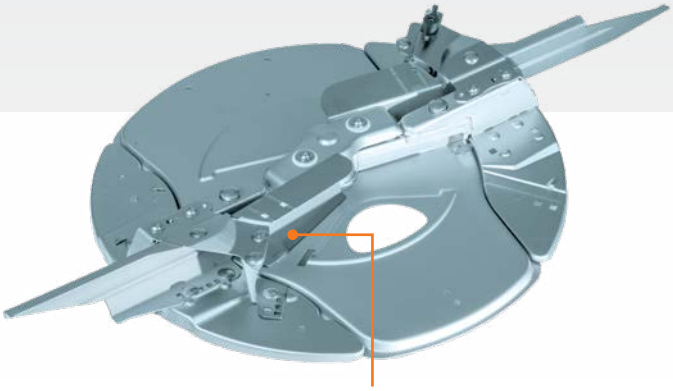
Model Overview

● Standard
○ Option
— not available

	Tronic	Hydro
Part-width section control		
Using the delivery system adjustment	●	●
Using the spreading disc speed	—	●
Maximum number of part-width sections	16	128
Border spreading system		
AutoTS border spreading	●	●
Border spreading using BorderTS	○	○
Bed spreading using the bed spreading deflector	○	○
Optimized lateral distribution		
ArgusTwin	○	○
Wind Control	—	○
Headland Control	●	●

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.

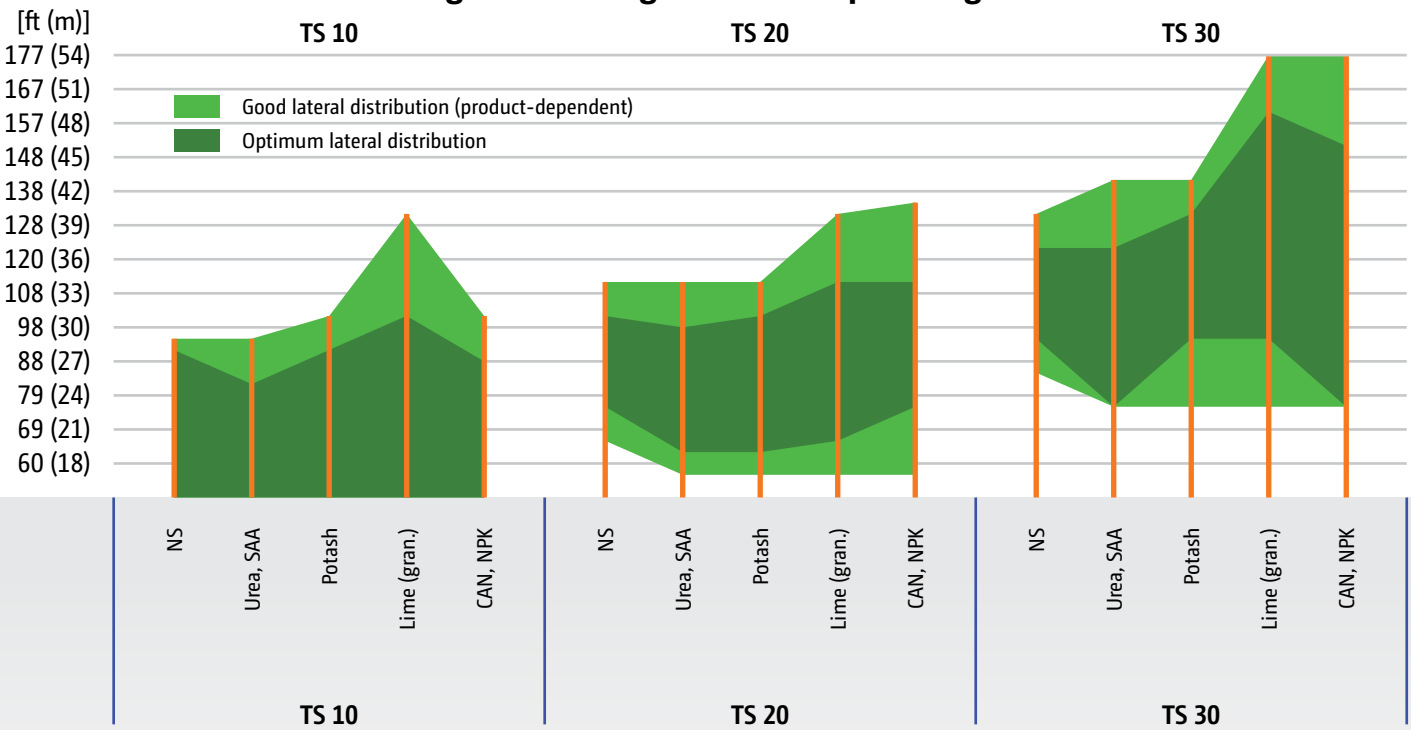
Hard-coated spreading vanes
The spreading vanes are coated with special long-lasting anti-wear protection. A three-fold increase in lifespan is seen in products treated in this way.

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

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

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

Range of working widths for spreading vane sets



Optimized spread pattern

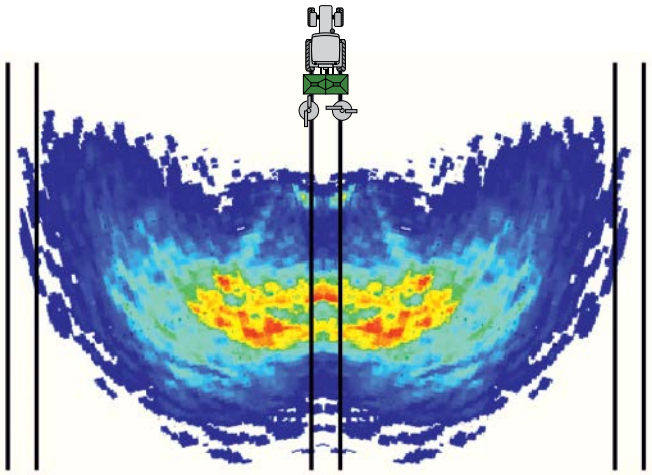
Multiple spread patterns: optimum lateral distribution under any conditions

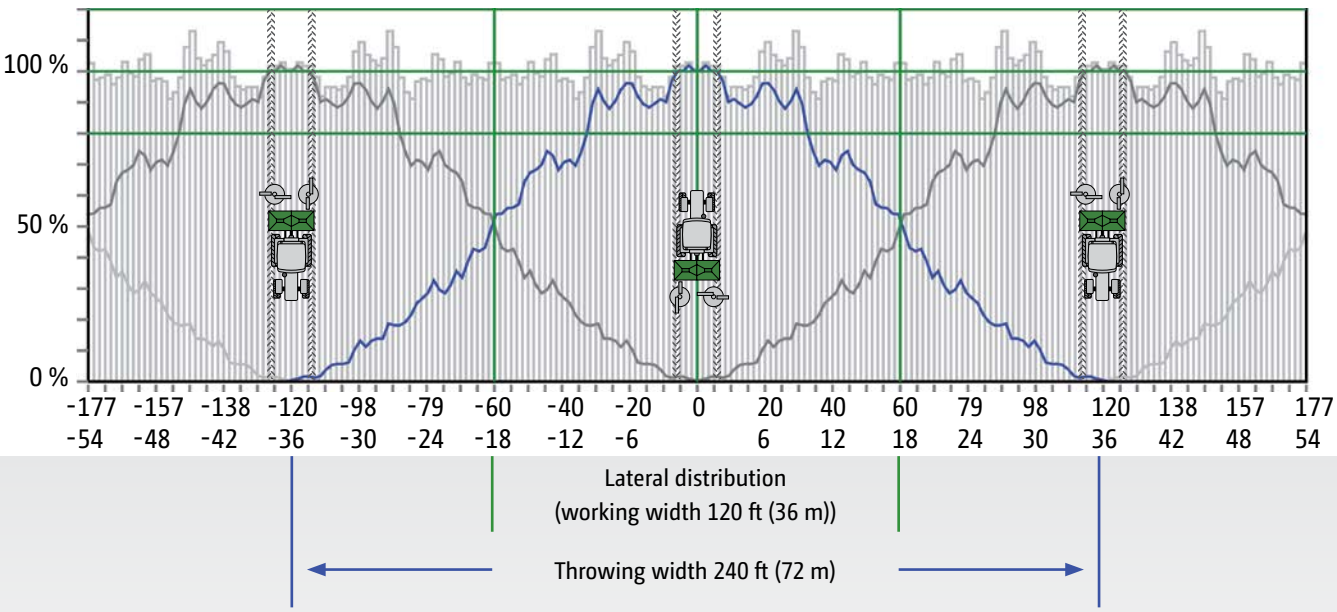
The specific shape and angling of the spreading vanes produce spread patterns from the TS spreader unit. Optimized fertilizer trajectory and greater overlap maintain spreader efficiency during changes in angle and height.

- Easy to adjust, just level up and drive off
- The same setting for normal fertilization and late top dressing
- Changes in angles due to varying hopper fill levels do not affect distribution

Three-dimensional spread pattern

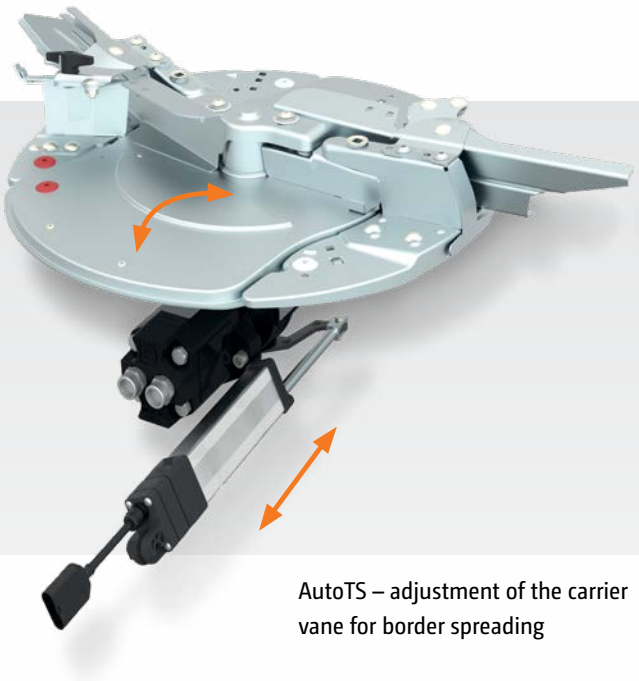
The spreading unit was developed to have three-dimensional spread patterns, in order to achieve perfect lateral distribution of up to 177 ft (54 m) working widths. The large overlap zones ensure a perfect spread pattern and are significantly more consistent, even in inconvenient conditions such as side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





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

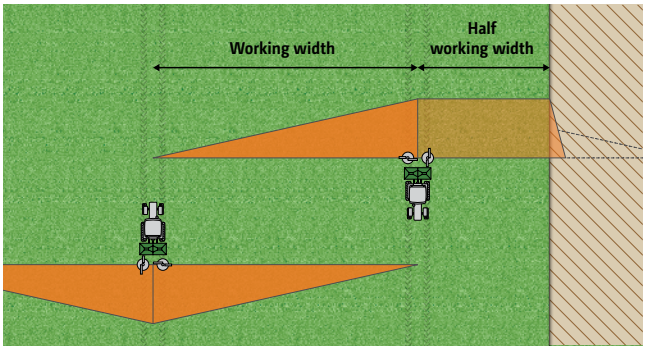
The disc-integrated AutoTS border spreading system can be used to activate various border spreading techniques. Side, border or watercourse spreading can be activated simply from the terminal in the tractor cab and on either side.

AutoTS – the ingenious principle

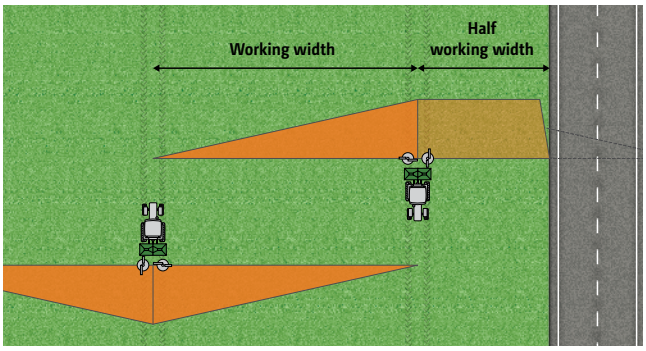
An electric motor rotates the carrier vane forward by approximately 10° so the fertilizer can be delivered via the shorter border spreading vanes when spreading along borders or waterways. The combination of disc speed and a shorter vane ensures that the fertilizer is thrown over a significantly shorter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

Effective and precise – fertilizer is spread only where it boosts plant growth

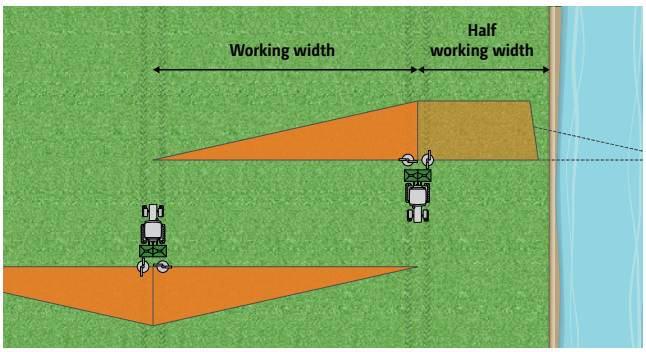
Side spreading (yield-oriented adjustment)
The neighboring field is an area that is used agriculturally. In this case, it is tolerable for a small quantity of fertilizer to be thrown over the border of the field. The full target rate is applied right up to the field boundary.



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.



Waterway 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.



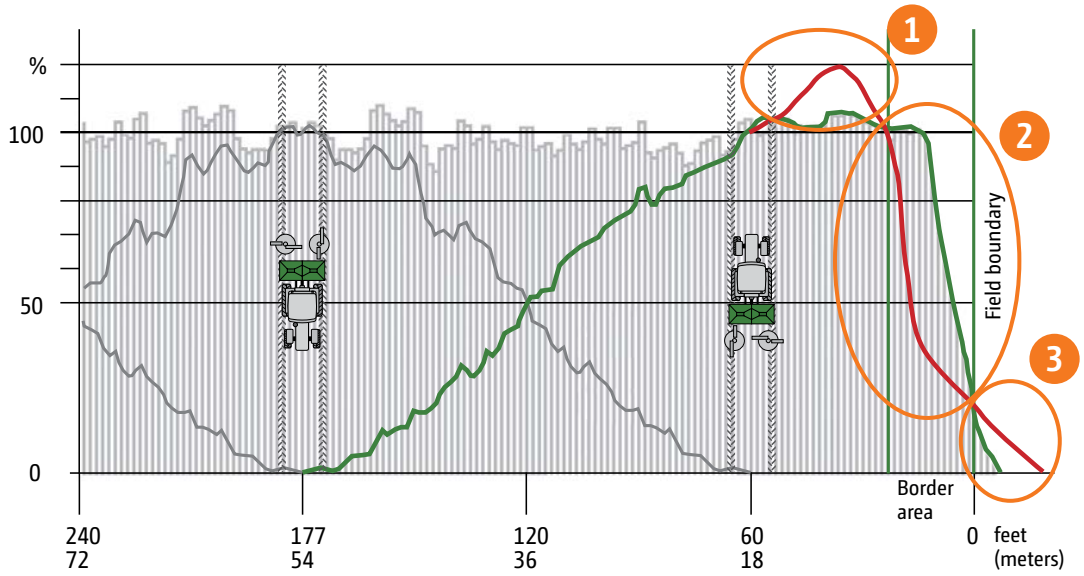
> “The design specification for the development of the Amazone ZA-TS was clear: no longer should there be any compromise between normal spreading and side, border, and waterway spreading around the field boundaries.”
>
> (profi – Spreading systems in practice “hydraulic or mechanical”· · 06/2017)

Increased yield on the border thanks to AutoTS and ClickTS

Exclusive!

The AutoTS border spreading system makes it possible for the operator to reliably generate a very steep cut-off to the border spread pattern and thus create the perfect growing conditions right up against the field edge. 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 system. Rate changes can be made in freely-selectable percentage steps on the monitor. 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, which could result in less-than-optimal fertilization, are not spread along the border area.
3	Reducing fertilizer throwing speed results in a minimal amount of 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

Optimum amount of fertilizer right up to the field boundary

AMAZONE developed the BorderTS deflector for even greater precision 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.

> "The BorderTS is an absolute class act: It allows the exact amount of fertilizer to be applied right up to the field boundary - it doesn't get any better. BorderTS is very efficient at spreading close to the boundary, and we have hardly noticed any decrease in yield at the field boundaries."
>
> (profi - "Big, bigger, ZA-TS" - 12/2024)

> "... 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 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.

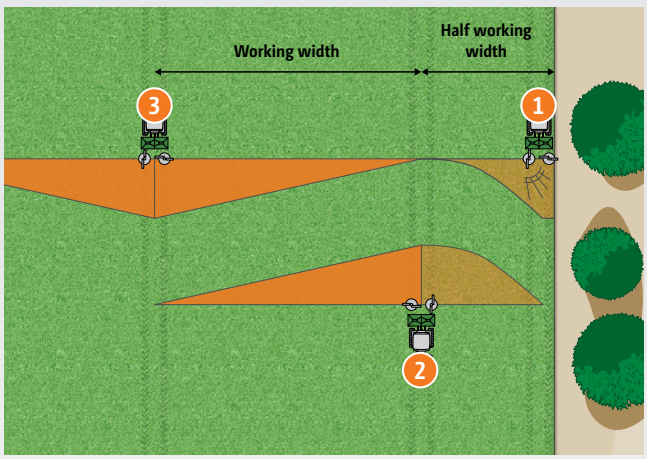
Baffle plate construction with integrated software

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.

> “We used the mats at the field boundary during application to check the effectiveness of the deflector. In addition, the fertilizer rate for the field was applied right up to the boundary after driving in the headland tramline and around 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.

Proven precision!

Innovation Farm field trial

INNO VATION FARM

FARMING FOR FUTURE

- 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	$54.89 (€52.28)	$38.81 (€36.96)	$22.42 (€21.35)
Hydro	$58.84 (€56.04)	$41.59 (€39.61)	$24.03 (€22.89)
AutoTS	$122.87 (€117.02)	$86.85 (€82.71)	$50.18 (€47.79)
BorderTS	$127.28 (€121.22)	$89.96 (€85.68)	$51.98 (€49.50)

Additional revenue per acre of crop and year by using 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.

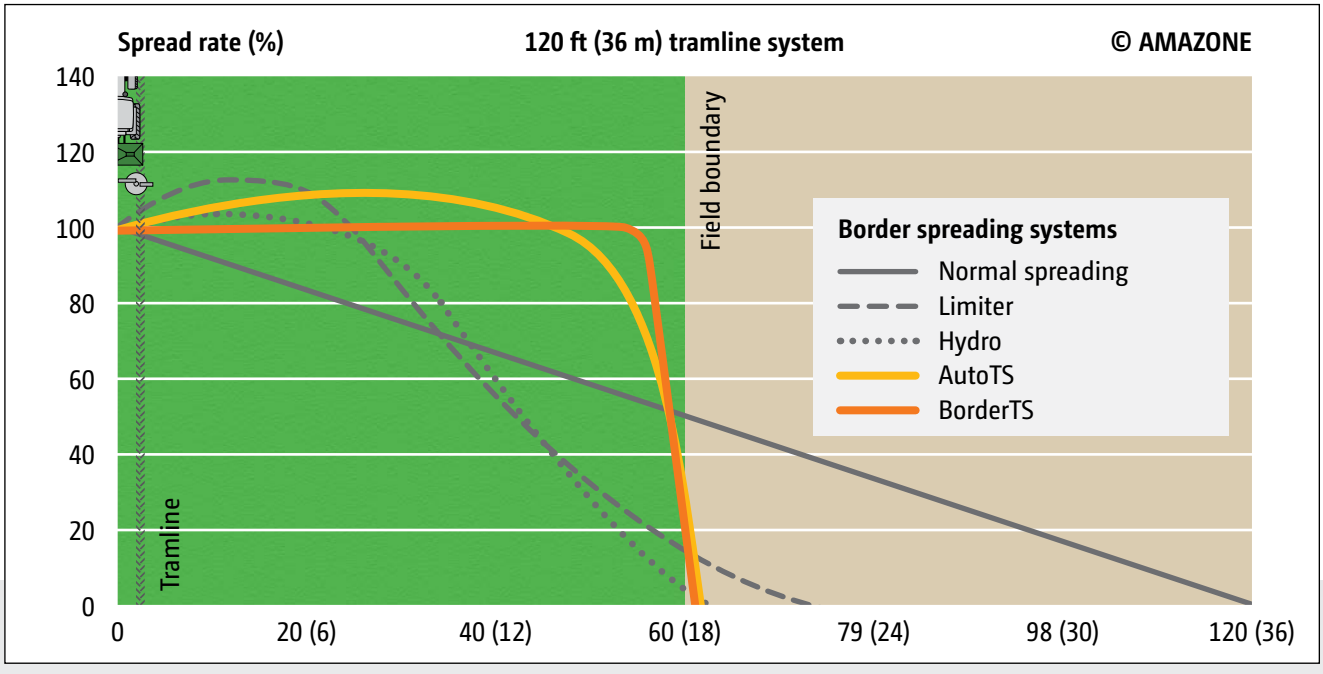
Precise technology is required to spread the full rate of fertilizer right up to the field boundary, even at the larger working widths, as well as avoiding any fertilizer losses outside the field boundary.

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 where the rate then drops steeply."
- "Any under applying was clearly reduced by using AutoTS and BorderTS, which translates into higher yields."
- "This means that using both AutoTS and BorderTS is beneficial at 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 AutoTS and BorderTS which continued to apply a very even spread."

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

Profis weighing system

He who weighs, wins!

- The Profis weighing system comes with a visual filling aid

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

- The convenient low level sensors in each hopper warn the driver that they are nearly empty.

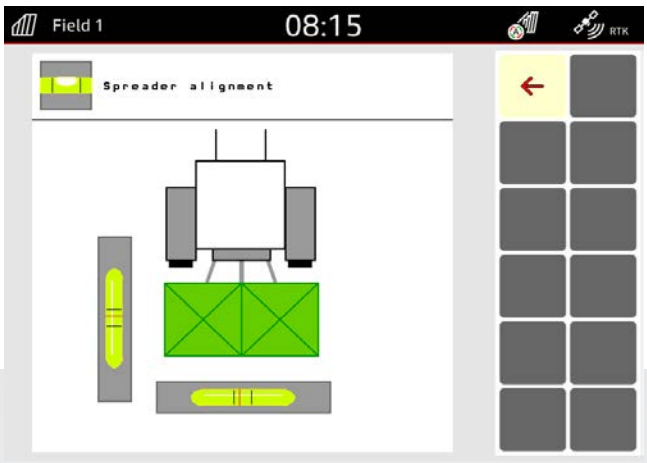
Compact tractor mounting

No calibration required. 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 working on steep, sloping 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 ZA-TS Profis equipped with a tilt sensor conveniently displays the angle of the spreader on the ISOBUS terminal. It uses spirit level symbols to simplify the horizontal alignment of the ZA-TS.

The benefits

Regulation/calibration under all operating conditions:

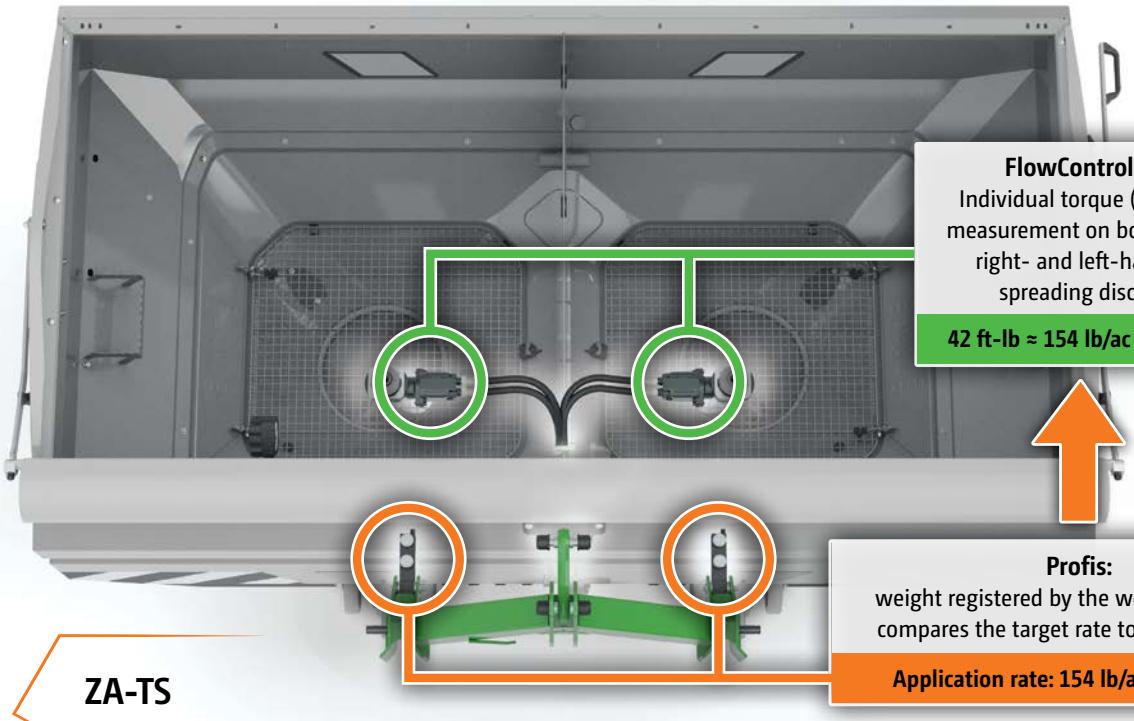
- Side, border and waterway spreading
- Part-width section control
- Using application maps/N-sensors
- Spreading blended fertilizers

Accurate weight measurement:

- Residual volume display
- Residual area and hopper level display
- Documentation of the total volume spread

ProfisPro weighing system with torque measurement

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



FlowControl:
Individual torque (ft-lb) measurement on both the right- and left-hand spreading discs

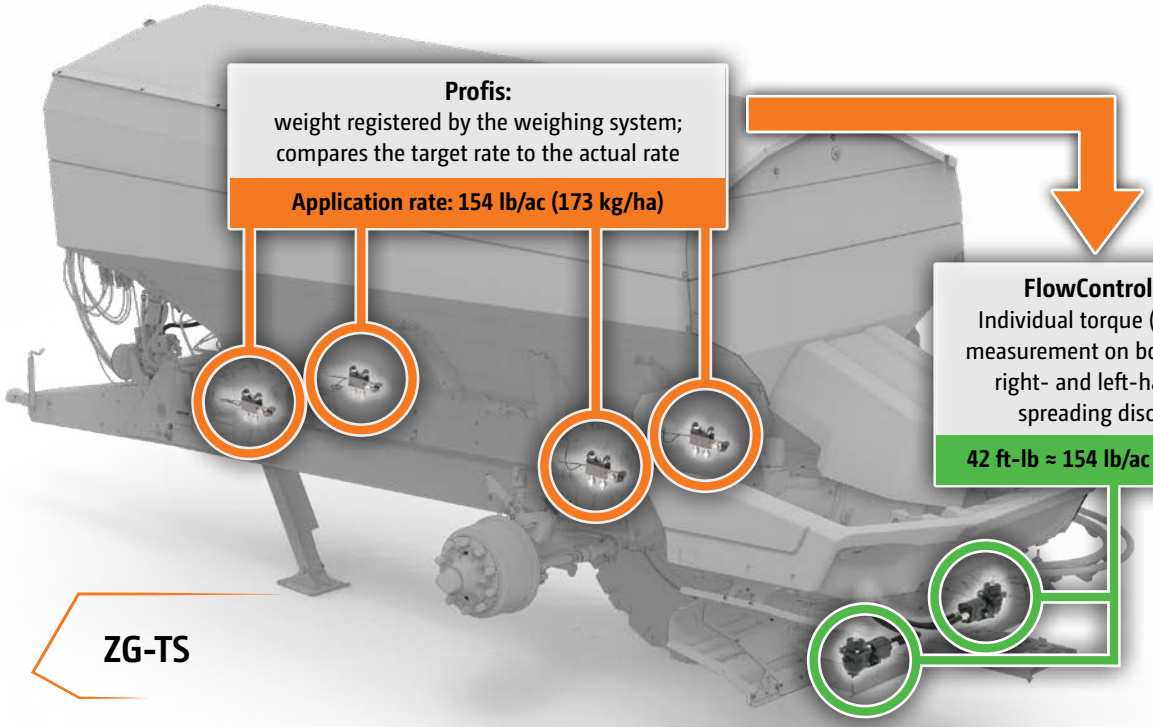
42 ft-lb ≈ 154 lb/ac ✓

Continuous monitoring and calibration

Profis:
weight registered by the weighing system; compares the target rate to the actual rate

Application rate: 154 lb/ac (173 kg/ha)

ZA-TS



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Continuous monitoring and calibration

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Individual torque (ft-lb) measurement on both the right- and left-hand spreading discs

42 ft-lb ≈ 154 lb/ac ✓

ZG-TS

Profis – Intelligent weighing system

The Profis weighing system is integrated in the frame; on the ZA-TS, the hopper and frame are connected to a separate chassis by two 200 Hz weigh cells or four weigh cells on the ZG-TS. There are therefore no weight measuring points to be influenced by the traction forces of the tractor. The result is precise online weighing every 55 lb (25 kg)! An additional tilt sensor provides further compensation for the machine on slopes. On the ZG-TS, the sensor signal is also used for the steering axle to counter-steer on slopes, thereby preventing the ZG-TS from drifting downhill.

ProfisPro
=
Profis + FlowControl

FlowControl – torque measuring system

The FlowControl torque measuring system reliably monitors the torque on each spreading disc drive from the very start and can adjust the position of each spread rate shutter in the event of a deviation from the target rate on either side. The applied rate is precisely documented to obtain a field-associated balance of nutrients. The application rate can be altered at any time by pressing a button on the ISOBUS terminal.

ProfisPro
=
Profis + FlowControl

Optimized spread rate from the very start

This combination of the Profis weighing system and FlowControl enables the fertilizer spreader to use torque to regulate its theoretical application rate throughout the 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.

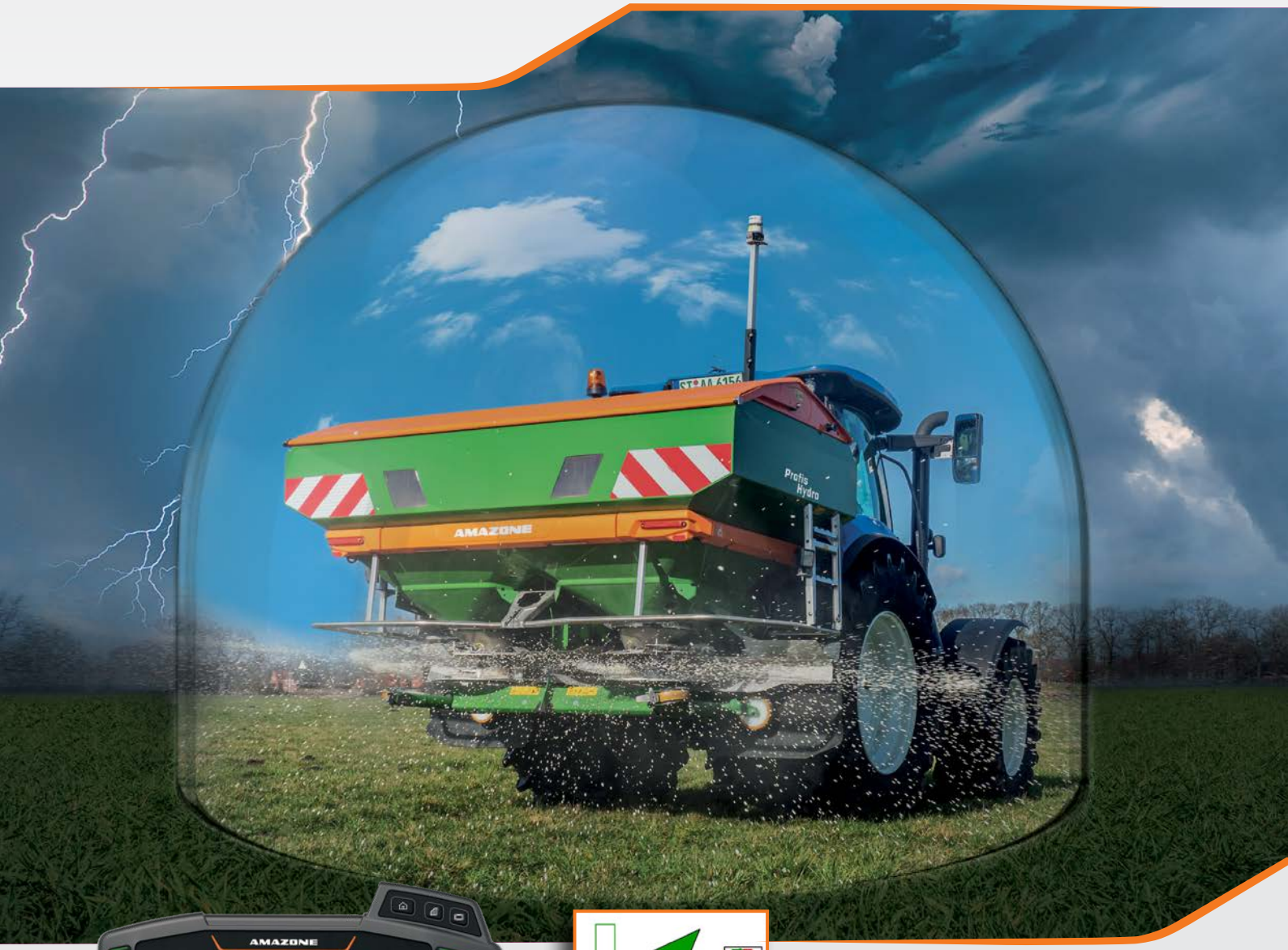
The benefits

- Absolute precision from the very first second
- Application rate calibration in any field situation, regardless of the side
- Ideal precision by simultaneous monitoring of the weighing system and torque measurement
- Running empty and clogging detection
- Accurate weight measurement, indicating remaining quantity and area
- Documentation of the total amount spread
- Additional features of the ZG-TS: steering axle control on hilly terrain and load-dependent braking force control

Exclusive!

Wind Control

Don’t give wind a chance!

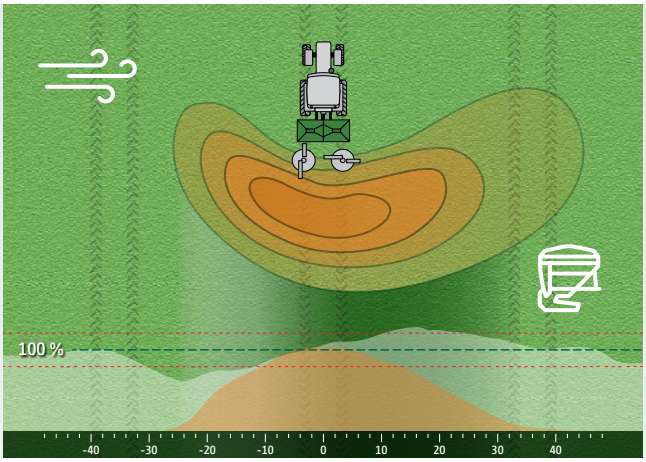


AMAZONE WindControl ensures optimum lateral distribution even in crosswinds

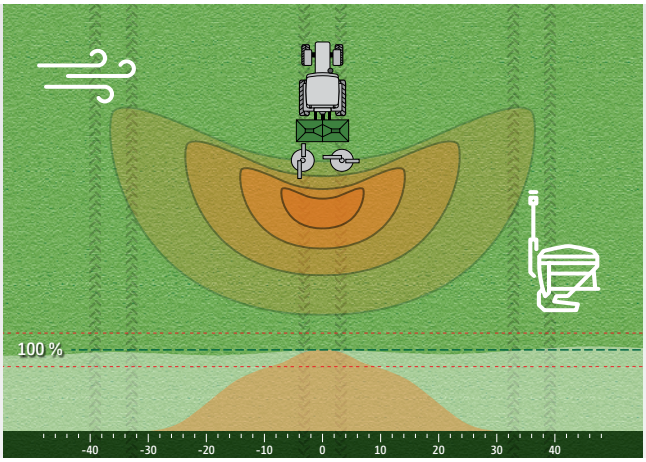
- WindControl traffic light system
  - Green: Unlimited spreading
  - Yellow: Increased control in border areas
  - Red: Stop spreading!

“WindControl is always well worth buying.”

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



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



With WindControl: WindControl counteracts the effect of a cross-wind 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.

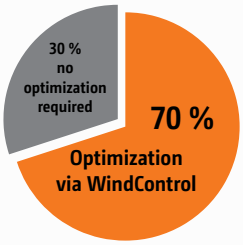
The benefits

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

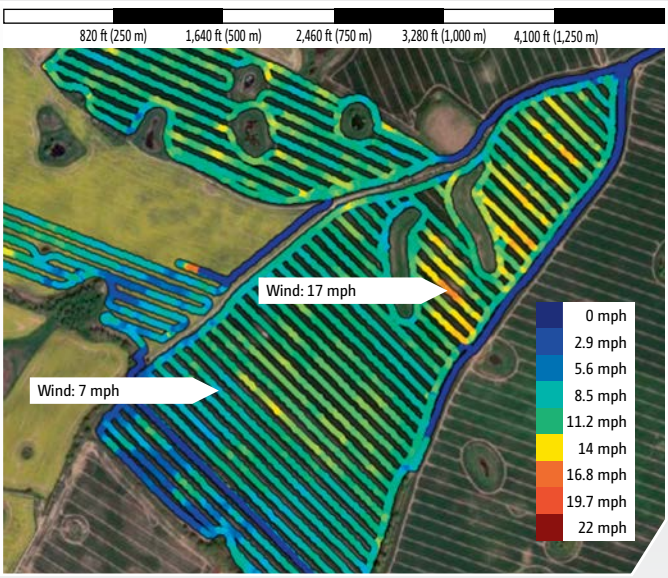
WindControl in practice

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



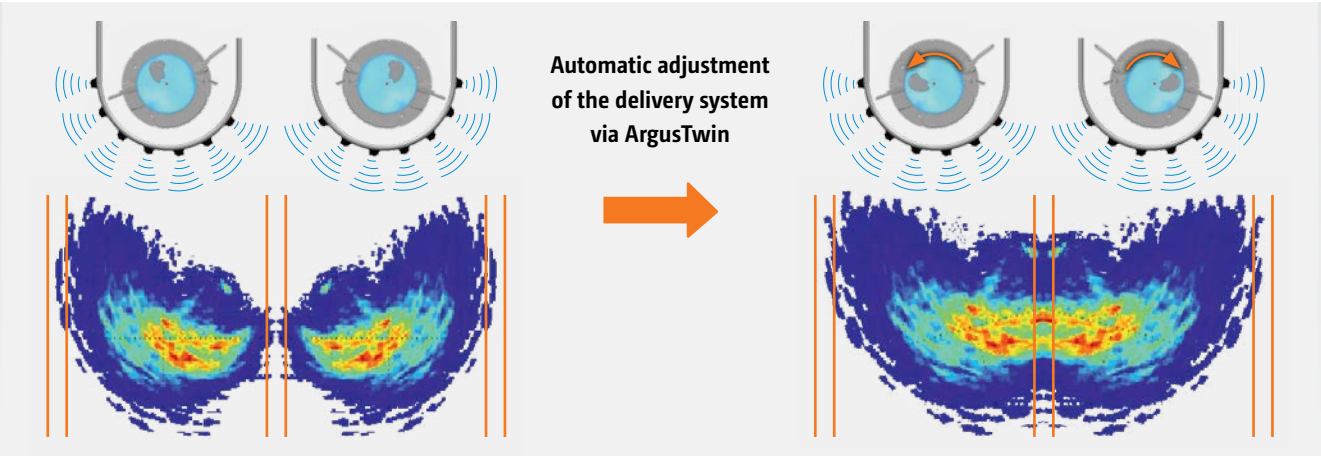
ArgusTwin

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

Argus

"ArgusTwin optimized lateral distribution within seconds."

("profi"– Test report Amazone ArgusTwin · 01/2016)



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 lateral distribution, uses radar technology that is unaffected by dust and pollution and thus provides reliable practical results. ArgusTwin uses sensors mounted on both sides of the spreader to constantly monitor the left- and right-hand side 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, slopes in the path of travel, or = starting and stopping procedures, the spreader autonomously adjusts the setting for the delivery system – and configures 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 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

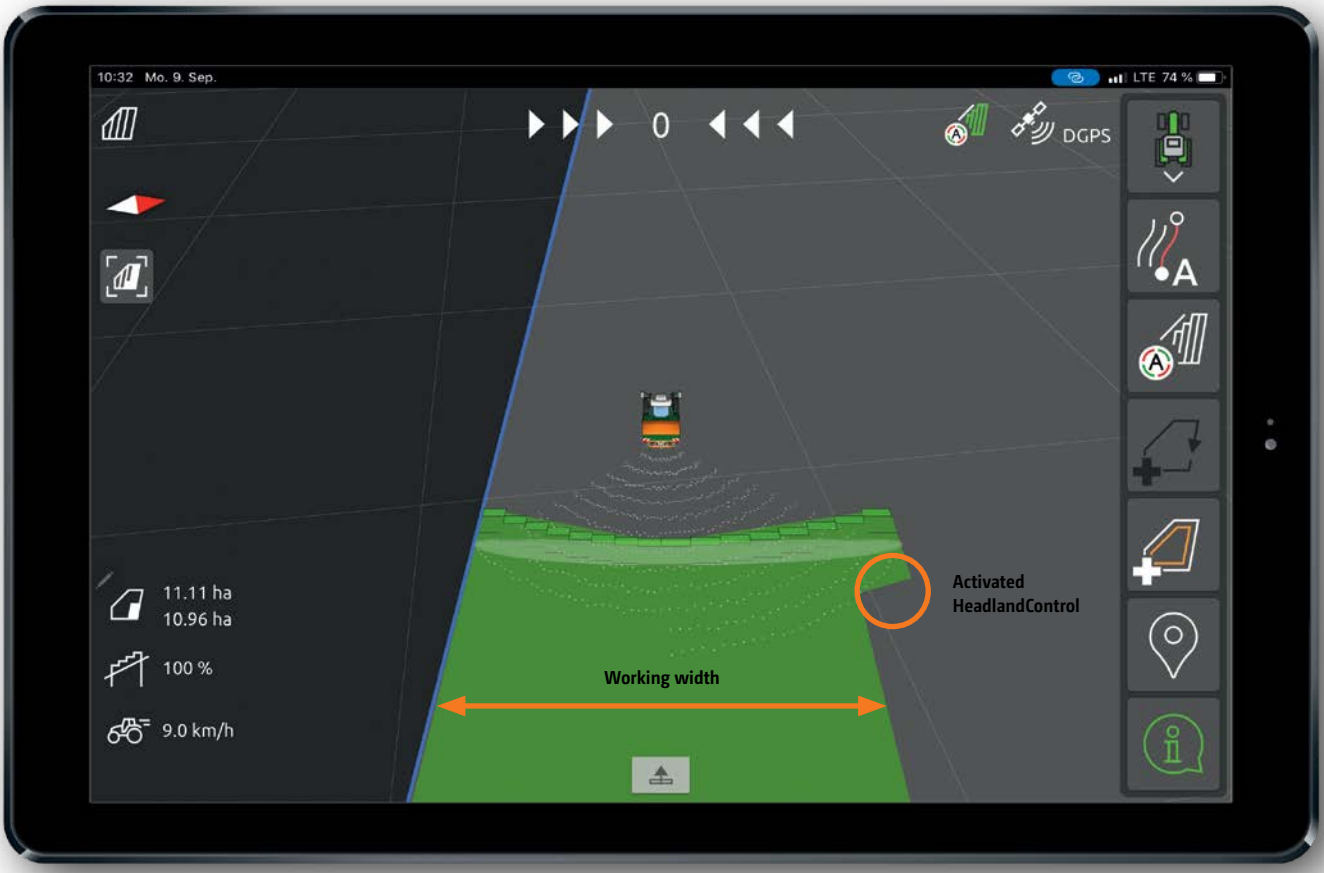
REACTION FROM END USERS!
Find out more

Exclusive!

MORE than ISOBUS

Headland Control

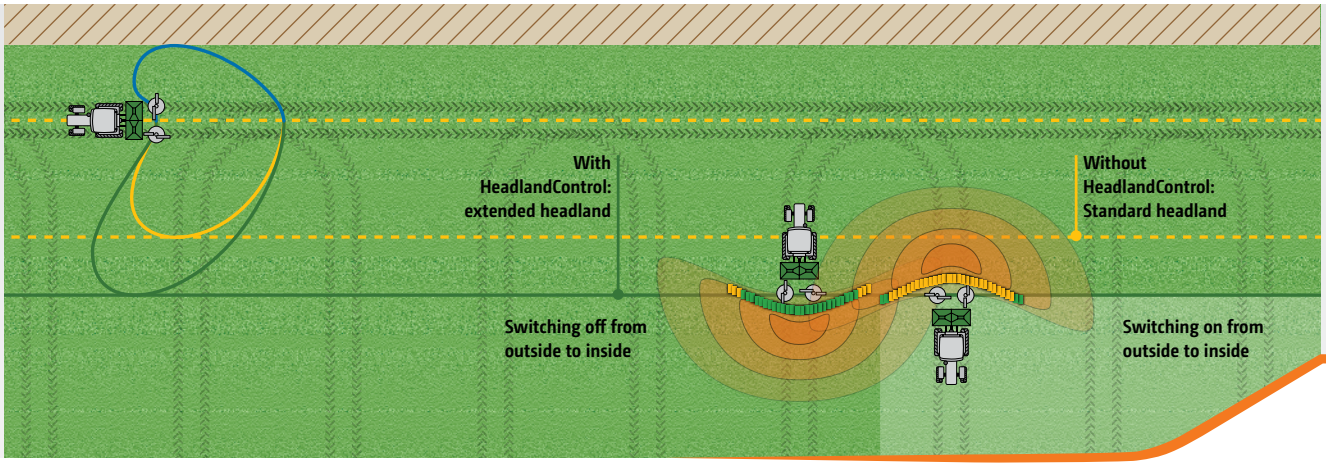
Optimum lateral distribution on the headland



Urea

CAN

The characteristics of HeadlandControl vary depending on the working width, spreading disc and fertilizer. This is why HeadlandControl is individually calculated for the optimum spread pattern for each pass.



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.

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.

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

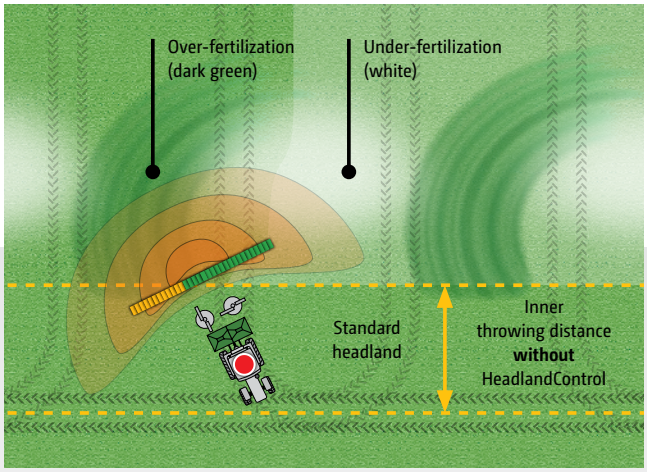
Result: over- and under-fertilized zones are created

With Headland Control

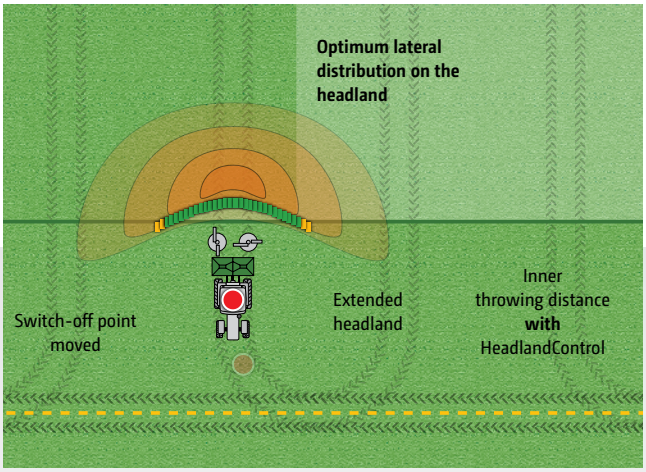
1. Headland Control means that the spreader continues to apply fertilizer to the crop when it is on the headland
2. The tractor can follow the wheel tracks of the crop protection sprayer

Result: uniform crops across the entire headland

Without Headland Control
Shut-off when turning



With Headland Control
Shut-off before turning



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

Automatic part-width section control via GPS-Switch

Urea

CAN

Each fertilizer has different trajectory characteristics. This is why Section Control calculates the exact switching points for the optimum spread pattern during each pass.

> “With Section Control, the ISOBUS terminal takes a lot of pressure off the operator.”
>
> (“dlz agrar magazine” – test report ZA-TS fertilizer spreader · 02/2017)

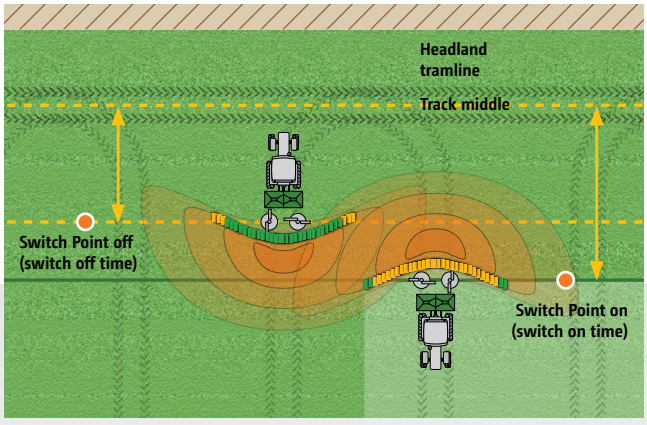
More precision, more output!

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.

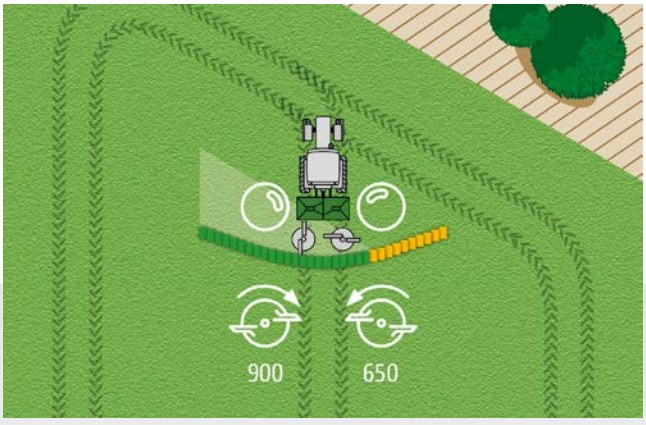
If the operating terminal has Section Control capabilities, such as GPS-Switch part width section control from AMA-ZONE, the part width sections are automatically activated based on GPS position. Once a field has been configured, the driver can concentrate fully on operating the vehicle in automatic 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



SwitchPoint can adjust the switch on and off points according to fertilizer type and working width.



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

Exclusive!

GPS-ScenarioControl

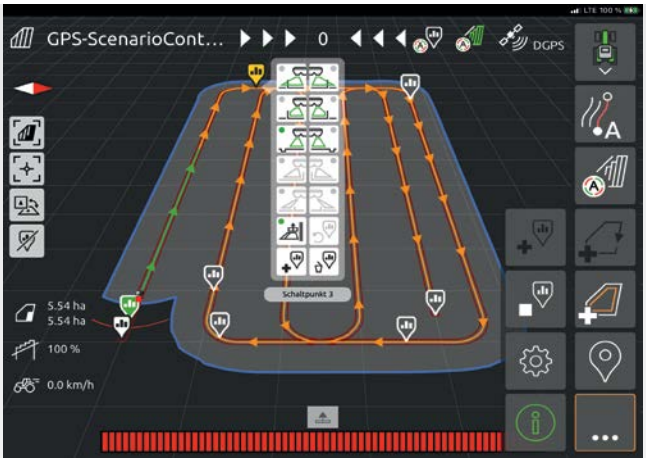
Terminal software for the automation of complex switching processes

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 in the selection of 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.

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.

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.

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 operators apply the fertilizer beside ditches and paths within the law and that it is optimized for yield across the entire field. This is particularly interesting when operators change frequently or when the boss wants to entrust the fertilization to his trainees, for instance."

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

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 is compatible with all ISOBUS functions - increasing convenience, user-friendliness and overviews. 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 aluminum housing
- Rear-mounted hand rest for a secure grip

RELIABILITY

WELL THOUGHT THROUGH!

- Practical and clear menu navigation for simple and intuitive use
- Operation via touch display or soft keys
- Simple documentation and job management: work first - then save the data
- Optional software licenses to make the most of precision agriculture

COMFORT

COMFORT!

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

Licenses providing extended functionality	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 guiding assistance • Various track modes options • ISOBUS Level 1 tramline control
AmaCam	• Camera display with reverse gear assistance
AmaTron Twin	• Expanded display using the AmaTron Twin App
GPS-ScenarioControl	• AmaTron Twin license extension to display cross-machine routes and automate complex switching processes when fertilizing

More comfortable machine operation

AMATRON Twin App – expanded display for user-friendly operation

The AmaTron Twin App offers the driver even greater comfort during work since the GPS functions in the map view can also be operated from a mobile device such as a tablet while the machine is being operated through 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 parallel map view, 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 Wi-Fi, allows all the data to be imported and exported online. The App can be used to send application maps easily 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, e-mail or using a messenger service, such as WhatsApp, once the job has been completed. This is user-friendly data management!

The AmaTron Share App

What end users have to say about the ZA-TS and ZG-TS

Siaak Huetink – Huetink Bloembollen Lemelerveld B.V., Netherlands
ZA-TS 3200

- "A good fertilizer spreader needs a good weighing system, a good in-cab terminal and WindControl."
- "If the spreader indicates that the distribution is good, then it's good."
- "We achieve optimum results using the minimum amount of fertilizer."
- "In my opinion, everyone should choose this as standard."

Philipp Tegethoff –
Tegethoff Agrar, Germany
ZG-TS 10001 ProfisPro

- "We tried everything – pneumatic spreaders and other types of spreaders. But the results led us to the AMAZONE ZG-TS ProfisPro with A HOPPER CAPACITY OF 353 CUBIC FEET (10,000 LITERS)."
- "A unique selling point for us – WindControl."
- "By using WindControl, Argus and FlowControl, we have been able to go up to 120 ft (36 m) working widths."
- "We can even spread light, fine fertilizers reliably over 120 ft (36 m), even in windy conditions."
- "We are no longer reliant on weekend work or night shifts."

ZA-TS

ZA-TS

Fertilizer hopper from 49 to 177 cubic feet (1,400 to 5,000 liters)

Advantages of the ZA-TS:

- Maximum precision during normal and border spreading, regardless of external conditions such as wind, hilly terrain or varying fertilizer properties
- Quick switching spreading vanes for flexible working widths
- User-friendly operation thanks to comprehensive software solutions for the spreader over and above the ISOBUS standard
- Precise fertilization with high efficiency

50 ft – 177 ft
(15 m – 54 m)

49 cu ft to 177 cu ft
(1,400 L to 5,000 L)

16 to
128 part-width
sections

Fertilizer, pelleted materials, seeds, slug pellets

Hydraulic roll-over cover

Mechanical roll-over cover

"The roll-over cover is good: it shuts 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 maestro" · 01/2016)

Swivel rolling and parking device

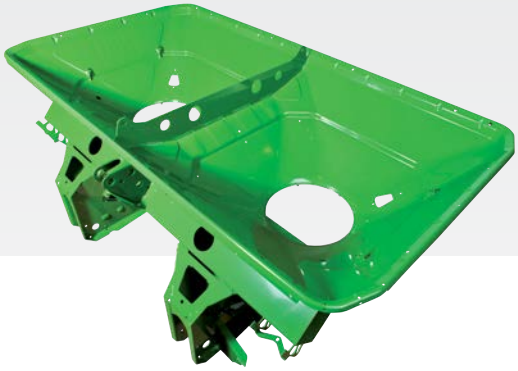
"The robust (and front-steering) parking rollers with brakes are swiveled in or out with a strong kick. It doesn't get any better."

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

ZA-TS

Ideal hopper profile

ZA-TS fertilizer hopper



ZA-TS 5000 ProfisPro Hydro with steps

The stamped hopper

The basic hopper has a capacity of 25 cu ft (700 L). It is manufactured by a stamping 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. The range of available hopper extensions enable total capacities of up to to 177 cubic feet (5,000 liters).

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

- 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.

Hopper extensions

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

For the ZA-TS, the following frames are available:
Super frame: 7,055 lb (3,200 kg) payload, Cat. 2-point hitch
Ultra frame: 9,920 lb (4,500 kg) payload, Cat. 3-point hitch

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 9,921 lb (4.5 t) is the highest."
  (profi – Practice test "Comparison of four fertilizer spreaders" · 01/2016)

ZA-TS

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.

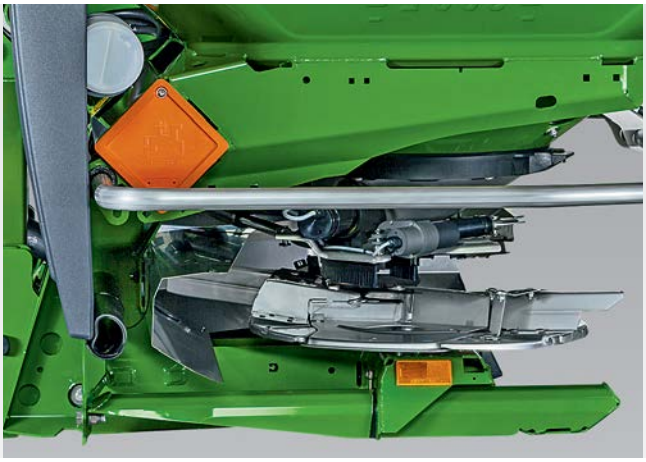
FlowCheck to monitor shutter opening

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.

Flow Check sensors in the hydraulic circuit

Swivel hopper cover in the maintenance position



Parking device with stands included

Roll-over cover

The hydraulic roll-over cover can be opened and closed from the tractor cab, offering maximum driver convenience. The mechanical roll-over cover is operated manually.

The swivel hopper cover is a simple alternative to the roll-over cover. Only available for S extensions. The maintenance position enables easy cleaning from the inside.

Parking device options

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

Ladders to 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
"Comparison of four fertilizer spreaders" · 01/2016)

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 at the same time. It can also be coupled to an ISOBUS terminal with an analog video input.

The picture from the camera can also be displayed via the analog video input on the AmaTron 4,

ZA-TS

Let there be light

Multiple benefits of the working lights

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

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.

> “In conjunction with the weighing system, the LED work lights make filling that much easier. The light flashes and then stays steady, indicating that you are approaching and then have reached your pre-defined weight requirement – fantastic.”
>
> (profi - “Big, bigger, ZA-TS” - 12/2024)

Internal hopper lighting

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

Front and Back 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

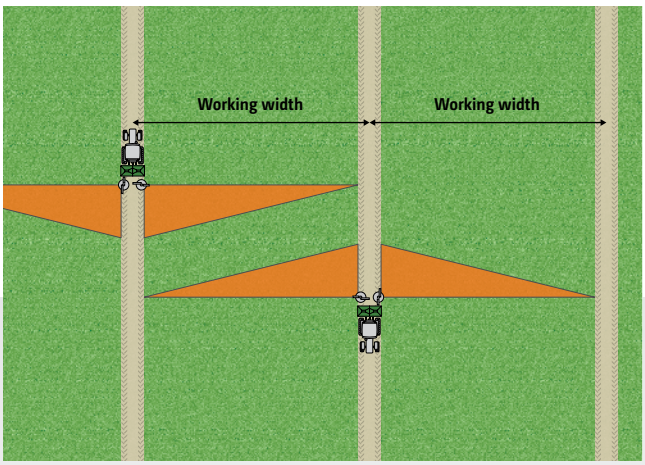
- Ability to accurately spread two different types of fertilizer in just one pass
- More capacity from the additional hopper capacity, while retaining the benefits of a mounted machine – maneuverability and speed

- "The spreader duo shows its strengths in its precision."
- "The combination is maneuverable, efficient and improves weight distribution on the front and rear axles."

(agrarheute magazine– test report with the front mounted spreader · 09/2018)

Optimal bed spreading

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.



ZA-TS

Technical data

ZA-TS mounted spreader

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. roll-over 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.


OS AW 1883
FENDT
ProfisPro
Tronic
AMAZONE
VARIO 512 C

ZG-TS

ZG-TS

Fertilizer hopper from 265 to 535 cubic feet (7,500 to 10,000 liters)

Advantages of the ZG-TS:

- Maximum precision during normal and border spreading, regardless of external conditions such as wind, hilly terrain or varying fertilizer properties
- Optimum weight distribution that reduces axle loads
- True track-following thanks to a steering axle with a steering angle of up to 28°
- Highly efficient fertilization with maximum area coverage

Plastic boxes on both sides with an integrated hand wash tank provide a sufficient amount of storage space

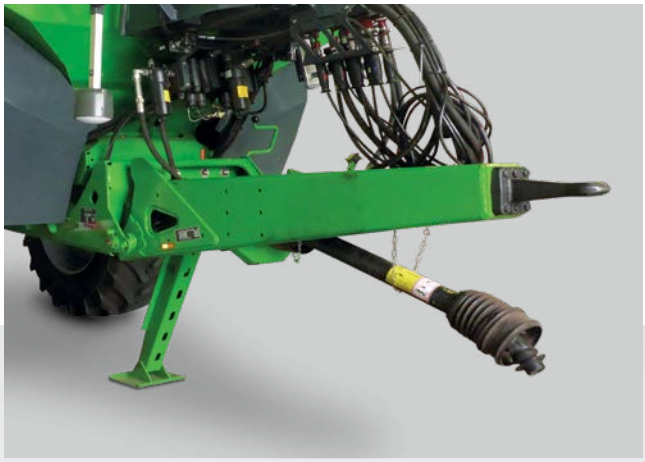
50 ft – 177 ft
(15 m – 54 m)

265 cu ft or 353 cu ft
(7,500 L or 10,000 L)

128 part-width
sections

Fertilizer, pelleted materials,
seeds, slug pellets

Hydraulic parking jack for the ZG-TS



Hybrid drive with combined oil supply
- Oil requirement with steering axle max. 22 gal/min (85 l/min)
- Oil requirement without steering axle max. 16 gal/min (60 l/min)

Hydro drive with oil supply exclusively from the tractor
- Oil requirement with steering axle max. 34 gal/min (130 l/min)
- Oil requirement without steering axle max. 28 gal/min (105 l/min)

ZG-TS

Optimally balanced

ZG-TS fertilizer hopper

Enormous work rates

With hopper capacities of 265 cu ft and 353 cu ft (7,500 l and 10,000 l), the ZG-TS models are especially efficient and ideal for large farms that focus particularly on increased precision. Their size saves valuable traveling and loading time. A large hopper opening enables convenient loading via a front end loader or from a bulk filling system. The belt floor, automatically centered to the middle, ensures optimum material flow.

Advantages of the base hopper

- Low hopper center of gravity
- Low filling height
- Large fill opening
- Wear-resistant rubber floor belt
- Automatic belt floor centering

Automatic pre-chamber filling

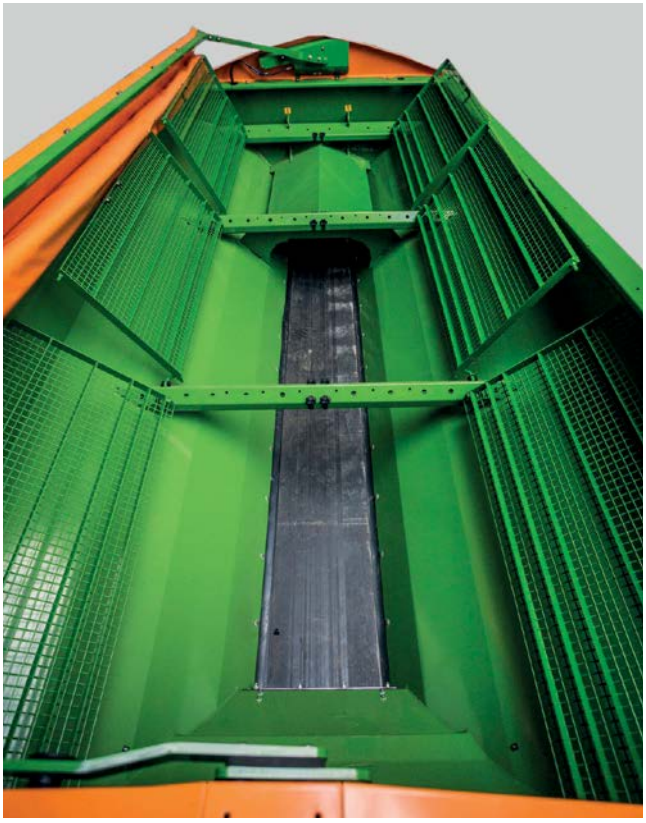
An endless floor belt for conveying the fertilizer is provided along the bottom of the hopper. This automatically fills the pre-chamber during the spreading operation.

Accurate metering

After the pre-chamber, the fertilizer is metered by means of shutter slides exactly the same way as on the mounted spreaders.

Optimum load distribution

The floor belt rises by 5 degrees to enable weight transfer from the back to the front. This guarantees optimum load distribution during spreading. Maximum drawbar load and reduced axle loads enable safe driving in the field under all operating conditions.



Benefits of the hopper design

- Optimum material flow even on sloping terrain
- Simple cleaning procedure
- Generous space for axle steering
- Optimum weight distribution
- High ground clearance

Model	Hopper capacity	Tare weight	Payload
ZG-TS 7501	265 cu ft (7,500 l)	8,500 lb (3,850 kg)	19,000 lb (8,650 kg)
ZG-TS 10001	353 cu ft (10,000 l)	8,800 lb (4,000 kg)	18,700 lb (8,500 kg)

Intelligent fill level management

ZG-TS

Your reliable assistant!

Intelligent fill level management

The extremely sensitive Profis weighing system kicks in with its intelligent fill level management right from the loading stage. Without the need for an external scale, the system provides precise information about the load condition at all times, thus preventing overloading and empty runs. Profis also sets standards as a filling aid as well as through the continuous measurement of hopper contents.

The benefits

- Intelligent filling aid
- Reliable fill level measurements without even using an external weighing system
- Avoiding unnecessary empty traveling and excess leftover

- The filling process can be conveniently monitored from the large, easily accessible platform.

Extremely simple filling by just one person!

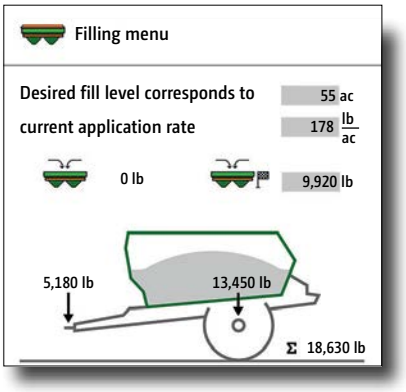
If the work light is constantly illuminated, the desired fill level has been reached

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.

"Via flashing signals the work lights [...] inform the driver of the filling vehicle as to the quantity filled – so precise filling is possible"

("profi"– Test report ZG-TS 01 ProfisPro · 06/2018)

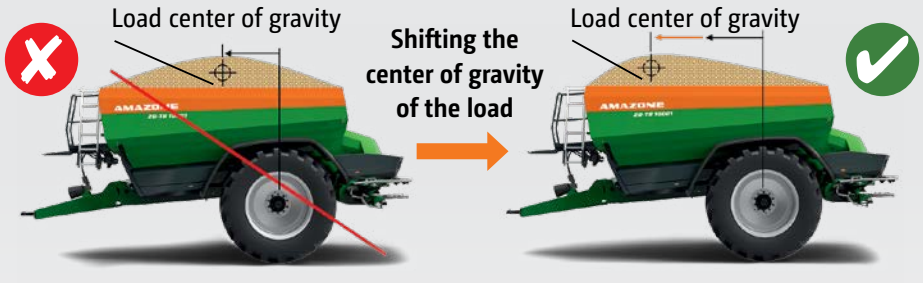


Filling menu – determination of the desired fill level

Optimum load distribution under all spreading conditions

Real time measuring via the Profis weighing system enables optimal use of the axle and support loads during the filling procedure. This is because, during the filling procedure, it is possible to see where the load is concentrated and thus prevent overloading of the axle or the drawbar.

Furthermore, the floor belt rises 5 degrees, which enables transfer from the back to the front. This guarantees optimum load distribution during spreading. Maximum drawbar load and reduced axle loads enable safe driving in the field under all operating conditions.



Support load 2200 lb (1 t) Max. 5,510 lb (2.5 t)

Axle load 24,250 lb (11 t) Max. 22,040 lb (10 t)

Support load 5,510 lb (2.5 t) Max. **5,510 lb** (2.5 t)

Axle load 22,040 lb (10 t) Max. 22,040 lb (10 t)

ZG-TS

Maneuverable and comfortable

Perfect driving behavior on the road and in the field

Greater comfort – gentle on the crop

- True track following at track widths of 6 to 7.5 ft (1.80 to 2.25 m)
- Increased driving comfort due to a sprung-suspended and height-adjustable hitching system
- Stable and robust chassis technology, designed for speeds of up to 37 mph (60 km/h)
- Automatic braking force control
- Oversized tires reduce the ground pressure and allow for operation even under the most extreme conditions
- Wheel diameters of up to 81 in (2.05 m) available

"The axle steering is new for fertilizer spreaders [...] This makes the machines maneuverable and enables true-track following."

("profi"– Test report ZG-TS 01 ProfisPro · 06/2018)

Steering axle with a steering angle up to 28°

Braking force control via electronic braking system (EBS)

True track axle steering

The ZG-TS trailed spreader, equipped with the optional steering axle, provides a maximum steering angle of up to 28°. This means true track-following is still possible even with a track width of 71 in (1,800 mm) and a tire width of 20 in (520 mm). Automatic steering even facilitates counter-steering on slopes. As soon as the spreading disc drive has been deactivated and a speed of 9 mph (15 km/h) is exceeded, steering automatically stops to ensure safe road transport at speeds of up to 37 mph (60 km/h).

Automatic braking force control

In order to be safe on the road, even at high speeds and different load capacities, the ZG-TS offers optional automatic load-dependent braking force control. The electronic braking system (EBS) receives the signal to calculate the load-dependent braking force from the new Profis online weighing system. Since the weighing system continuously measures the quantity in the hopper, the delivered braking force adapts automatically. This makes braking sensitivity perfect for all load ranges. The ZG-TS also meets the requirements of EU braking regulation 167/2013.

Benefits of axle steering

- Steering angle up to 28°
- Minimum turning radius of 14.5 ft (4.5 m)
- True track-following – for gentle crop treatment
- Counter-steering on sloping terrain

Benefits of the electronically-controlled braking system

- Load-dependent braking
- Comfortable and safe road travel
- Maximum safety on the headlands and on slopes

ZG-TS

Optional equipment

Perfect down to the last detail

Your safety is paramount!

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

- The picture from the camera can also be displayed via the analog video input on the AmaTron 4,

The roll-over hopper cover – comfortable and reliable

The hydraulically-driven, roll-over hopper cover is especially simple. It can be unrolled and retracted easily and safely from the tractor cab. Thanks to the clever tensioning mechanism, the cover rolls firmly and tightly against the hopper so no water, dirt or fertilizer can collect there. The cover, when firmly rolled away, also ensures that almost the entire hopper opening can be used without a troublesome rod or a loosely hanging cover getting in the way.

Work lights kit – as bright as day at any time

With the optional work lights, all the main areas of the spreader can be sufficiently illuminated during nighttime operations. High-visibility LED spot lights illuminate the inside of the hopper for fill level monitoring and loading. Additional work lights are installed to aid in the checking of the agitators and changes to the spread pattern. Work lights are also attached to the sides to illuminate the spread pattern at nighttime and can be used at the same time to assist in filling.

- Hydraulically actuated roll-over hopper cover

Work lights inside the hopper

ZG-TS

Technical data

ZG-TS trailed spreaders

Model	ZG-TS 7501 ProfisPro	ZG-TS 10001 ProfisPro
Working width (ft (m))	50 – 177 (15 – 54)	
Hopper capacity (cu ft (l))	265 (7,500)	353 (10,000)
Permissible total weight (lb (kg))	27,500 (12,500)	27,500 (12,500)
Max. payload (lb (kg))	19,000 (8,650)	18,700 (8,500)
Filling height (in (m)) + static tire radius	67.3 (1.71)	78 (1.98)
Filling width (in (m))	161 (4.09)	
Filling depth (in (m))	76.4 (1.94)	
Overall length (in (mm))	289 (7.33)	
Total width (in (m)), (depending on the tires)	97.6 – 114 (2.48 – 2.90)	
Total height (in (m)), (depending on the tires)	106 – 119 (2.68 – 3.03)	116 – 129 (2.95 – 3.30)
Spreading disc drive options	Hydraulic drive with oil supplied exclusively from the tractor Oil requirement with steering axle max. 34 gal/min (130 L/min) Oil requirement without steering axle max. 28 gal/min (105 l/min) Hybrid drive with combined oil supply Oil requirement with steering axle max. 22 gal/min (85 l/min) Oil requirement without steering axle max. 16 gal/min (60 l/min)	
Weighing system	ProfisPro c/w FlowControl torque measuring system	
Min. weight (lb (kg)) (without optional equipment)	8,500 (3,850)	8,800 (4,000)

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Spreading lime and fertilizer with the ZG-TX

The ZG-TX combi spreader from AMAZONE can spread both lime and fertilizer. The spreading unit on the machine can be quickly converted for lime. Lime is then efficiently spread over working widths of up to 53 feet (16 meters) with hopper capacities of between 240 cubic feet (6,800 liters) and 400 cubic feet (11,200 liters). Further information can be found in the additional “ZG-TX combi spreader” brochure.

ZG-TS Truck

Precision combined with the advantages of the carrier vehicle

PRODUCT FILM
Find out more

50 ft – 177 ft
(15 m – 54 m)

265 cu ft or 353 cu ft
(7,500 L or 10,000 L)

128 part-width sections

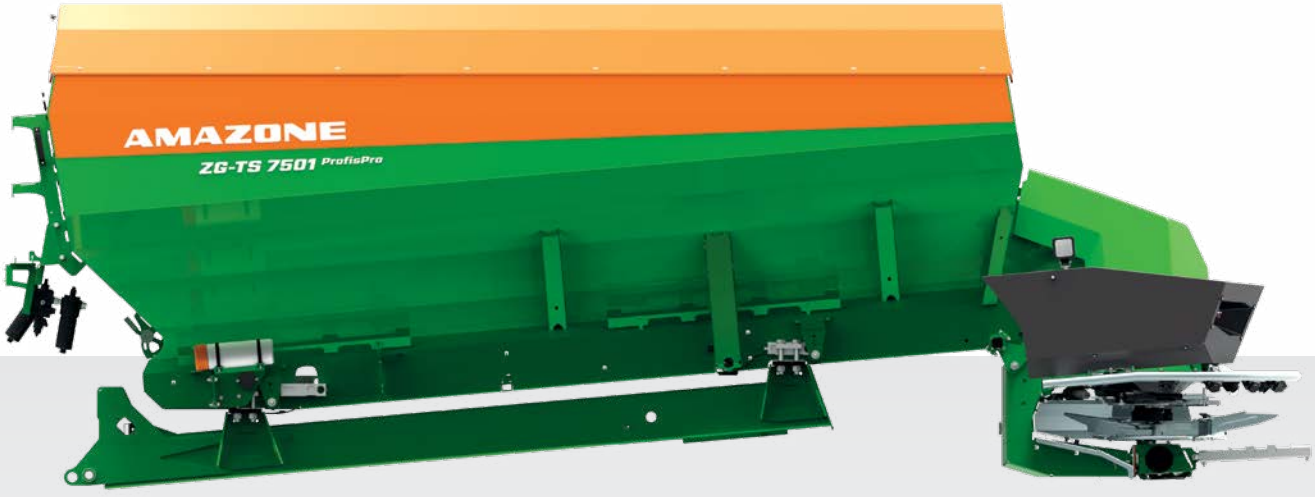
Fertilizer, pelleted materials, seeds, slug pellets

More efficiency and flexibility

The ZG-TS Truck mounted spreader is the ideal solution for contractors and farms that need to travel long distances between the field and yard quickly. In addition, the spreaders can be used on a carrier vehicle with larger ground clearances and track widths, increasing the range of application. The work rates can also be considerably increased with a self-propelled machine. Since the ZG-TS Truck is also supplied as a mounted spreader with the intelligent ProfisPro, WindControl and ArgusTwin systems, it sets new standards in the self-propelled machine segment as far as precision is concerned.

Advantages of the ZG-TS Truck

- Better maneuverability in the yard and in the field
- More efficiency on the road, thanks to higher transport speeds
- Benefits of the carrying vehicle include larger ground clearance and track widths
- Optimum center of gravity by emptying from back to front



- Optimized weight distribution achieved through forward tipping of the hopper.

The best of both worlds

Cathodic dip painting (CDP) combined with powder coating

7 years guarantee
against perforation corrosion
register
enregistrer
registrieren

The new painting technique, in combination with a large proportion of stainless steel components, ensures a high level of operational reliability and a long service life.

All components are coated with KTL dip-paint primer that provides nearly one-hundred percent 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.

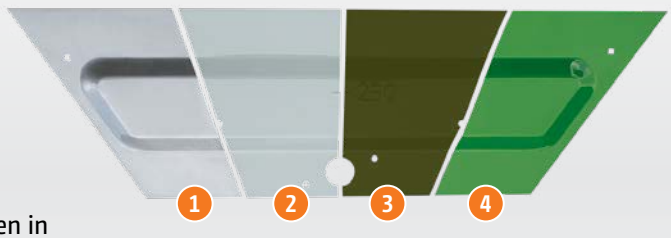
This registration is done very simply via the manufacturer's portal, myAmazone, bearing in mind the terms and conditions (www.amazone.net/7-years) stated there. After registration, you can continue to work without any worries.

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 topcoat**
  - 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 most modern from all angles:

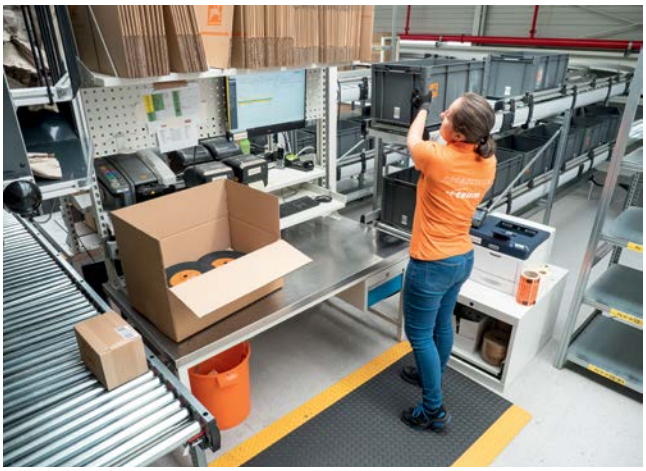
① 14-stage **painting preparation** (e.g. degreasing)
② **Zinc phosphating** provides the most effective offset to rust formation
③ **Thick cathodic dip priming** for full corrosion protection, even in cavities and hard-to-reach areas
④ **Powder coating** for a high-quality appearance and extra thick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

The original is simply better

AMAZONE service and quality



Experience that pays off. AMAZONE guarantees the highest quality thanks to the extremely high level of vertical integration of its factories in Europe - achieved over more than 140 years. The original is simply better.

In most cases, things need to happen very quickly, especially when time is tight for optimum fertilization. That is why AMAZONE offers a first-class parts service with genuine parts that are specifically matched to your machine.
To make sure your machine is always ready - quality parts available worldwide.

The Global Parts Center in Tecklenburg-Leeden in Germany is the base for our worldwide parts logistics system.
This ensures optimum availability of parts, even for older machines. Whenever you need us, the AMAZONE service team will be there for you, supported by a network of competent and highly trained sales partners and service technicians.

AMAZONE also offers an intensive introduction to the operation and handling of your new machine on your farm by a trained member of the AMAZONE team.
Another option we offer is “SmartLearning” - AMAZONE's interactive driver training - to become familiar with machine operation before you use it for the first time.

Efficient fertilization from the very first meter.

The advantages of original spare parts and wearing metal:

- Quality, reliability and performance
- Immediate availability, even for older machines
- Higher resale value of your used machine

myAMAZONE

for better performance

Register now
www.amazone.net/myamazone

WARRANTY

» Register now and apply for a 7-year warranty against penetration by rust!

- Extend the protection offered for your machine with a 7-year manufacturer warranty.

  » The warranty on offer can be applied for within the contractual warranty period of 12 months after initial installation.

» Register now and apply for a 24 month manufacturer warranty!

- Extend the protection offered for your machine with a 2-year manufacturer warranty.

  “ The warranty on offer can be applied for within the contractual warranty period of 12 months after initial installation.

NEW

PARTS

» Parts – find the right parts for your machine even more easily now!

- The list of right parts for your machine just one click away.
- Identify the correct part from the exploded views in no time.
- Create a shopping basket and send it to your service partner.

ADJUSTMENT AND OPERATION

» Now enter the machine number and see all the relevant information at a glance to get the maximum performance from your machine

- Season start and commissioning
- Adjustment and operation
- Parts lists and operating instructions
- Maintenance and storage

Spreader Application Center

The heart of spreader development

The Spreader Application Center (SAC) with its fertilizer laboratory (over 30,000 samples), spreading hall (over 100,000 spreading tests), customer service and in-house software development is at the heart of AMAZONE's fertilization technology development. For decades, the company has been working on optimizing fertilizer spreaders with pioneering technologies such as AutoTS, ArgusTwin and WindControl, as well as the use of artificial intelligence for EasyCheck or EasyMix.

The goal is precise lateral distribution and spread rate accuracy under all conditions and for all fertilizers, to provide our customers with the best possible support - work that has been ongoing since 1950, when the first manual spreading tests were carried out. Today, working widths of up to 240 feet (72 meters) can be tested in one of the most technologically advanced spreading halls in the world and digitally examined with our in-house developed software.

We also offer our customers personal fertilizer analysis (11 lb (5 kg) samples), in order to provide individual recommendations on the optimum spreader settings and spread patterns for their fertilizer samples. These recommendations can be read directly in the mySpreader App via a QR code and used immediately to adjust your fertilizer spreader.

Access to the SAC's extensive fertilizer database for all fertilizers and all spreader types allows you to benefit from decades of experience and expertise in the field of fertilization – for the best results and maximum efficiency!

The benefits

- Extensive fertilizer database for all spreader models
- Free setting recommendations for your fertilizer samples
- Direct contact for questions about spreader settings or unknown spreading materials

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

The AMAZONE FertilizerService cooperates closely 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:

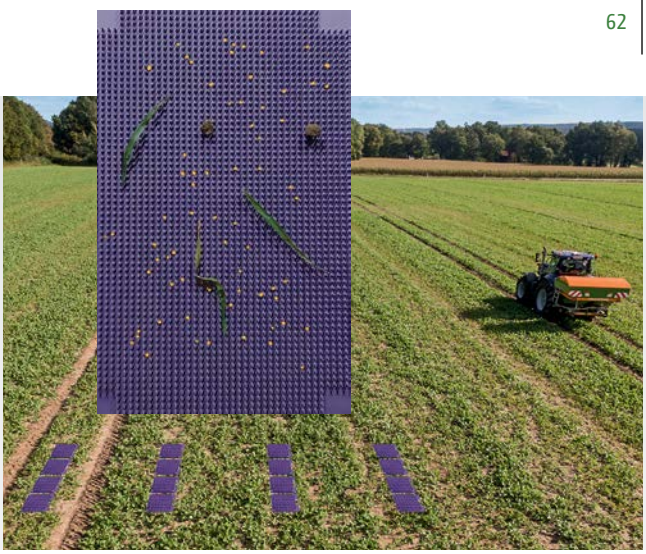
The FertilizerService works across borders, and not just geographically. This is because regardless of whether your fertilizer spreader is 1 or 100 years old, we will always be by your side with competent and reliable assistance.

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 using the free **mySpreader app**:

mySpreader app

The all-in-one package for perfect spreader adjustment



EasyCheck is an integral part of the mySpreader App

This is FertilizerService!

The optimum spreader adjustment is an essential element for all-around plant growth. In this respect, the large range of the spreading materials represents a major challenge. With the all-in-one package of the mySpreader App, the operator has the entire fertilizer database at their fingertips and can draw on the combined expertise of the AMAZONE Spreader Application Center (SAC). The operator can access precise recommendations for the setting of the respective AMAZONE fertilizer spreader based on the machine model, the individual fertilizer type, working width and the application rate.

The mySpreader App has a wide selection of functions, such as the calibration aid, EasyCheck, EasyMix and connection via Bluetooth, making it an ideal management tool for your spreader.

The benefits

- A single App for all spreader settings
- The entire fertilizer database at your fingertips
- Clear and user-friendly

EasyCheck mobile test kit with AI – always accurate!

The camera function in the mySpreader App is equipped with artificial intelligence to enhance the use of the Easy-Check digital mobile test kit. When photographing the collecting mats, foreign objects, e.g. soil or leaves, are detected and effectively filtered out. The App calculates fertilizer distribution and provides precise setting recommendations for easy optimization of lateral distribution.

EasyMix – optimized adjustment and evaluation of blended fertilizers

Fertilizer blends consist of individual constituents that have different spreading properties. The EasyMix setting aid checks the compatibility of the individual fertilizers according to spreading pattern information and provides optimized setting values for your spreader.

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.

AMAZONE

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