



AMAZONE

Mounted spreader **ZA-TS**

Trailed spreader **ZG-TS**



**AMAZONE spreaders
meet all European
environmental
standards**

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



WindControl

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



HeadlandControl

Optimum lateral distribu-
tion on the headland



EasyCheck

Simple optimisation of
lateral distribution with
artificial intelligence



EasyMix

Intelligent adjustment
and evaluation of blended
fertilisers



PRODUCT FILM
Find out more

MORE INFORMATION
www.amazone.net/za-ts

MORE INFORMATION
www.amazone.net/zg-ts



15 m – 54 m



ZA-TS: 1,400 l
up to 5,000 litres
ZG-TS: 7,500 l
or 10,000 l



16 or
128 part-width
sections



Fertiliser, pelleted
materials, seeds,
slug pellets

High outputs with precise results

Highly efficient on a large scale – and yet precise right up to the field boundary. This is the only way to achieve professional fertilisation with high work rates whilst avoiding over-fertilisation and thereby protecting the environment at the same time. The ZA-TS and ZG-TS from AMAZONE meet these current fertilisation challenges with ease thanks to the innovative TS spreading system. Fertiliser is applied reliably, even in windy conditions, or when the fertiliser quality is poor. Up to 54 m working width, with hopper capacities of up to 10,000 litres, precise right up to the border. Pure precision from one spreading unit. This is how the best in fertilisation works.



OUTPUT

High performance!

Highly efficient and intelligent

Precise spread patterns with working widths of up to 54 m and application rates of 650 kg/min

Precise!

AutoTS and BorderTS border spreading systems

Proven precision, maximum yield at the field boundary

ProfisPro rate calibration

Absolutely accurate application rates from the very first second irrespective of the side

HeadlandControl headland optimisation

Uniform yield across the headland with optimised Section Control tailored to the shape of the spread fan



PRECISION



INTELLIGENCE

Intelligent!

WindControl

Windless conditions at the touch of a button to compensate for the effect of wind on the lateral distribution

ArgusTwin

Permanent spread fan monitoring for optimum lateral distribution under any conditions

TS spreading system

Perfection in every component, just like clockwork



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

The TS spreaders open up new dimensions in terms of maximum application rates, forward speeds and precision. To achieve this, they are equipped with an excellent delivery system with quick-reacting, precision actuators. Particularly in applications such as the automatic switch-on and switch-off at the headland or in wedge-shaped fields, spreading with application maps or via continuous on-board monitoring (ArgusTwin and WindControl), the delivery system guarantees the job is done at the highest level.

Concentric delivery point adjustment

The concentric rotation of the delivery system around the centre of the disc allows precise adjustment to various working widths and fertiliser types whilst protecting the fertiliser from shatter by placing it close to the centre of the spreading disc.

Quantity effect-free metering aperture

Due to the kidney-shaped design of the metering aperture, the spread pattern remains unchanged and precise, even at varying forward speeds and rates. This means that the position of the delivery system does not require constant adjustment.



Delivery system adjustment of the TS spreading system

- 1) Intelligent agitator for maximum fertiliser protection
- 2) Electric actuator for rotating the delivery system
- 3) Delivery system for implementing the Section Control and HeadlandControl, WindControl and ArgusTwin functions

Bottom assembly of the TS spreading system

- 4) Electric actuator for precise fertiliser metering at application rates from 3 kg/min to 650 kg/min
- 5) Electric actuator for adjusting 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 spreading vanes for side, border and water course spreading
- 9) Long normal spreading vane for wide throwing widths and double overlap, even at a working width of 36 m

TS spreading disc

- 10) TS spreading disc made of stainless steel, with easily exchangeable spreading vane sets TS 10, TS 20 and TS 30 for working widths from 15 to 54 m

The benefits of electric agitation

- ✔ two slow-running, fertiliser-protecting agitators; turning at just 60 rpm
- ✔ that switch off automatically as soon as the shutter slide is closed, also just to the one side and independently of each other
- ✔ that reverse automatically when blocked by a foreign object
- ✔ active delivery of the fertiliser flow to the aperture



The electric agitator with a brush unit ensures a continuous, precise fertiliser flow onto the spreading disc

The spreading disc drive

Mechanical or hydraulic, choose for yourself!

Tronic – mechanical drive

ZA-TS

The spreading unit is driven via the PTO shaft on the Tronic version. In this case, the spreader is protected from overload, as standard, by a universal drive shaft with friction coupling. The input speed from the tractor PTO is transmitted via the central gearbox resulting in an increased spreading disc speed. This allows fertilisation at low engine revs right through to the maximum working width.

The benefits

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

Hydro – hydraulic spreading disc drive

ZA-TS

ZG-TS

The Hydro version makes use possible irrespective of the tractor's engine revs, even with different spreading disc speeds. In this way, fuel consumption is reduced and a particularly comfortable and precise spreading is ensured. The spreader also operates at various different spreading disc speeds when border spreading, so that the best-possible lateral distribution can be achieved in the overlap area and to the field boundary.

The benefits

- ✔ The side-independent 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, side-independent regulation enables windy conditions to be compensated for
- ✔ Pressure filter as standard





Model overview

- Standard
- Option
- not available

	Tronic	Hydro
Part-width section control		
Utilising the delivery system adjustment	●	●
Utilising the spreading disc speed	—	●
Max. number of part-width sections	16	128
Border spreading system		
AutoTS border spreading	●	●
Border spreading via BorderTS	○	○
Bed spreading using the bed spreading deflector	○	○
Optimisation of the lateral distribution		
ArgusTwin	○	○
WindControl	—	○
HeadlandControl	●	●

TS spreading discs

For the utmost precision at all spreading widths up to 54 m

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

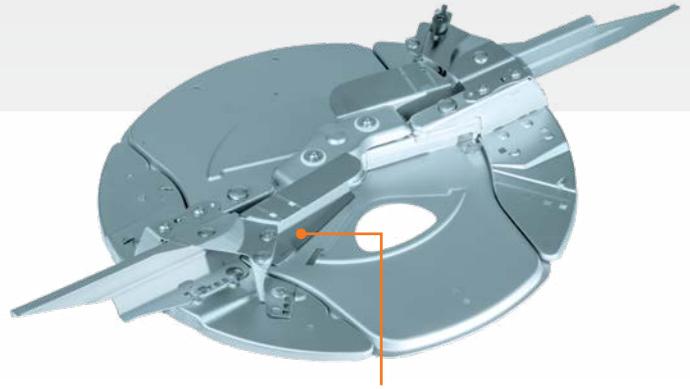
On the TS spreaders, the entire spreading system is made from stainless steel ensuring a long service life.

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

Between normal spreading and border spreading, different spreading vanes are activated via the so-called AutoTS system without the necessity to change spreading disc settings.

Hard-faced spreading vanes

The spreading vanes are coated with a special long-lasting anti-wear protection. Consequently, the result is a three-fold increase in lifespan.



The integrated AutoTS border spreading system is activated electrically.

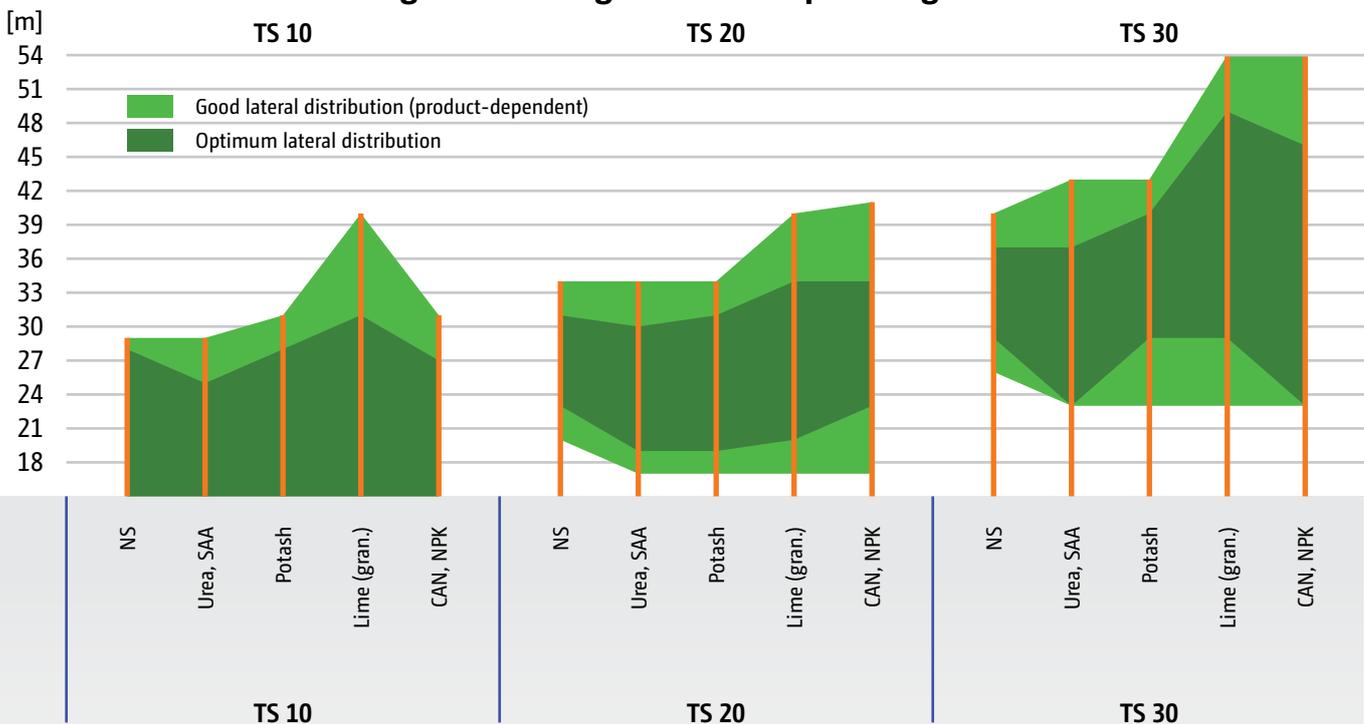
- “For different working widths it is then just a case of interchanging the spreading vane set – a very comfortable solution.”

(profi – Driving impression ZA-TS 4200 Profis Hydro fertiliser spreader– 06/2013)

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

- TS 10 = 15 m – max. 27 m
- TS 20 = 21 m – max. 33 m
- TS 30 = 24 m – max. 54 m

Range of working widths for spreading vane sets



Optimised spread pattern



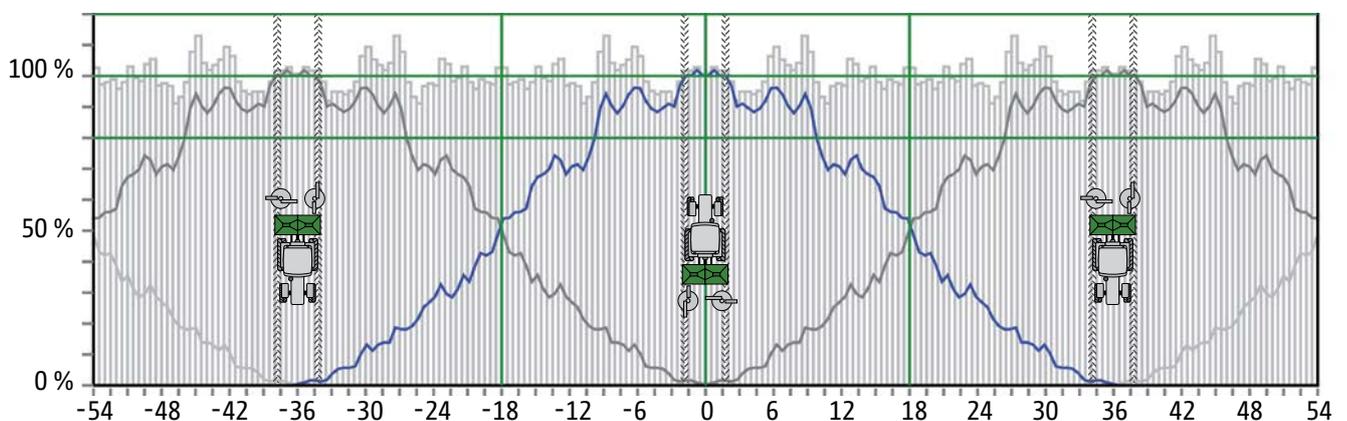
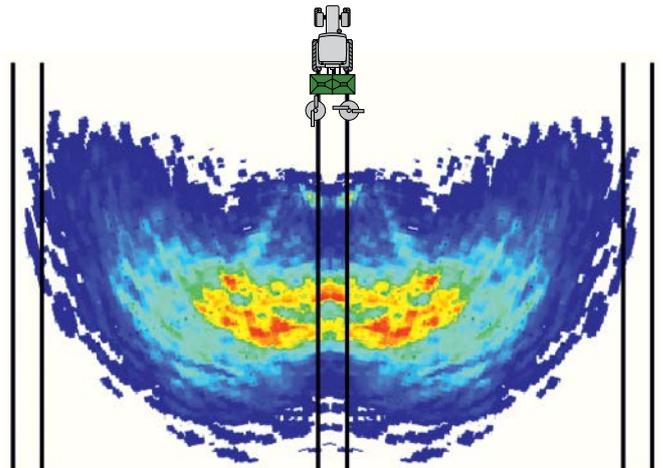
Multiple spread fans: optimum lateral distribution under all conditions

The specific profile and angle of the spreading vanes results in multiple spread fans from the TS spreading system. The optimised trajectory and the large overlap of the fertiliser make the spreader insensitive to changes in inclination and height.

- ✔ Easy adjustment, simply level up and drive off
- ✔ The same setting for normal fertilisation and late top dressing
- ✔ Any changes in inclination due to varying hopper fill levels does not affect the distribution

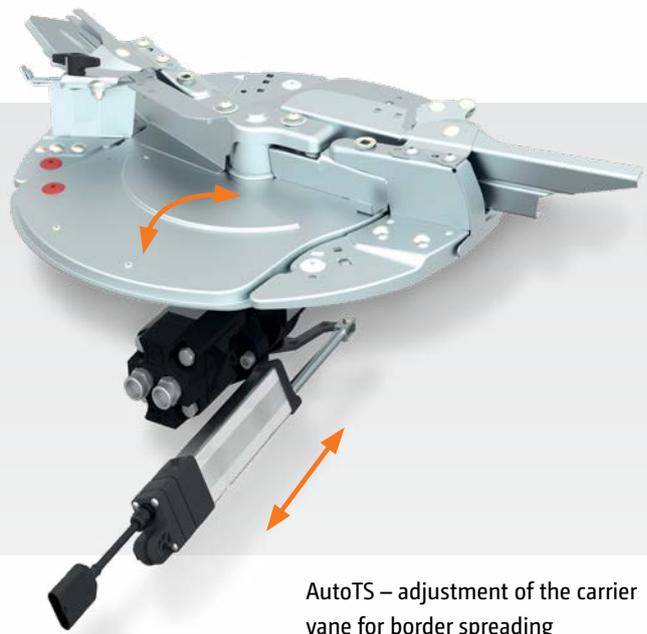
Three-dimensional spread pattern

The spreading unit has been developed using three-dimensional spread patterns so that a perfect lateral distribution of up to 54 m working widths is achieved. The large overlap zones ensure a perfect spread pattern and are significantly more consistent with regard to any external influences such as side winds, a change in topography, humidity or changing fertiliser quality.



Lateral distribution (working width 36 m)

Throwing width 72 m



AutoTS – adjustment of the carrier vane for border spreading

AutoTS

The disc-integrated border spreading system

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

The disc-integrated AutoTS border spreading system, enables the activation of the different border spreading techniques – side, border or watercourse spreading – comfortably via the terminal in the tractor cab and irrespective of which side.

Effective and precise – the fertiliser is spread only where it will benefit plant development

Side spreading (yield-oriented adjustment)

The neighbouring field is an area that is used agriculturally. In this case it is tolerable for a small quantity of fertiliser to be thrown over the field border. The full target rate is applied right up to the field boundary.

Border spreading (environmentally-oriented adjustment)

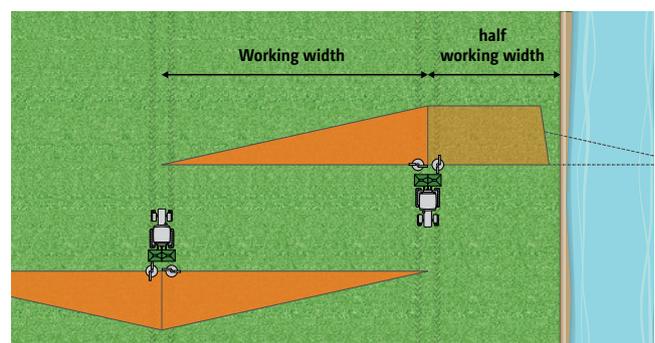
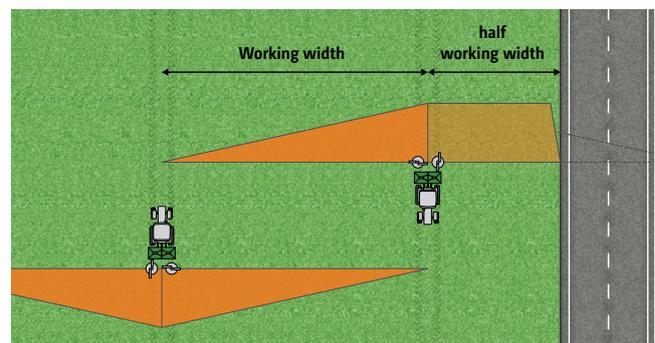
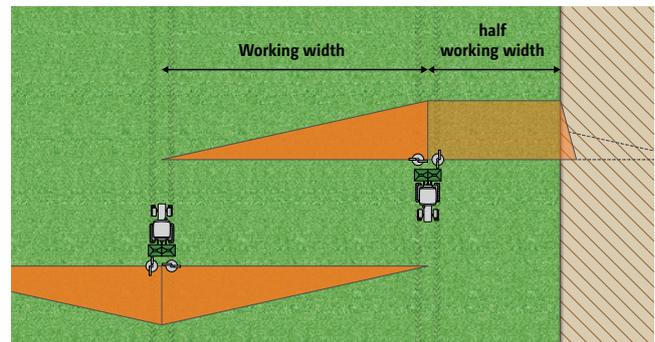
If the field is adjacent to a road or cycle path, no fertiliser may be thrown beyond the field border. In this case, the throwing distance is adjusted in combination with the shutter slide.

Water-course spreading (environmentally-oriented adjustment)

If there is a body of water directly at the edge of the field, a defined distance away from the water must be maintained when fertilising according to the fertiliser regulations. For this purpose, the throwing distance is further reduced in combination with the shutter slide.

AutoTS – the ingenious principle

A setting motor twists the carrier vane forwards by approximately 10° so that, when border or watercourse spreading, the fertiliser is delivered via the shorter border spreading vanes. Due to the combination of disc speed and a shorter vane, the fertiliser is thrown over a significant shorter distance without affecting it mechanically.



❶ “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 watercourse spreading around the field boundaries.”

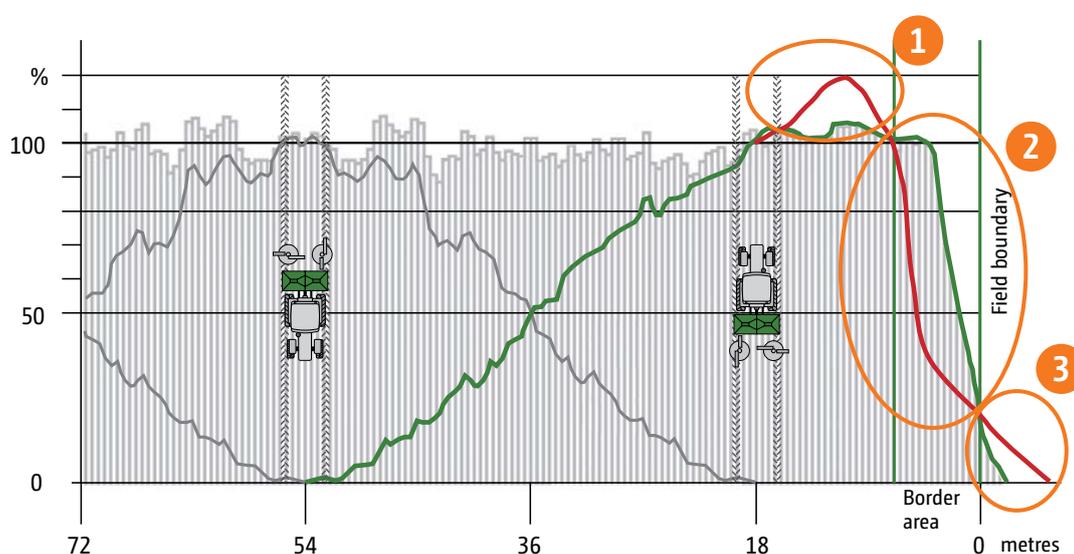
(profi – Spreading systems in practice “hydraulic or mechanical” · 06/2017)

Increased yield on the border thanks to AutoTS and ClickTS

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. Compared to other border spreading systems, a significant increase in yield is possible.

Automatic rate reduction when border spreading is possible with the AutoTS spreading system. Rate changes are possible in freely-selectable percentage steps. As the two spreading discs can be operated independently from one another, the change can be applied to just one, or both sides.

Exclusive!



	AutoTS border spreading system	Conventional border spreading systems
1	A shorter spreading vane restricts the throwing distance of the fertiliser.	Mechanically diverting the fertiliser causes potential fertiliser damage, where the broken granules land next to the tramline.
2	The fertiliser is handled more gently and is optimally distributed right up to the boundary.	The broken granules are not spread out to the border area, resulting in under-fertilisation.
3	Due to the reduced throwing speed of the fertiliser, only a few granules land beyond the field edge.	Not all fertiliser granules are mechanically deflected, meaning that the fertiliser is spread well beyond the field boundary.

Exclusive!

BorderTS border spreading system

Spread only where the crop will benefit from the fertiliser applied



Optimum amount of fertiliser right up to the field boundary

AMAZONE has developed the BorderTS deflector for even more precision up to the field boundary when spreading at those 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 that the appropriate setting parameters are set automatically depending on the application situation.

❗ “The BorderTS is an absolute class act: It allows the exact amount of fertiliser to be applied right up to the field boundary - it couldn't be any better. BorderTS is very efficient at spreading tight 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 fertiliser 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 fertiliser rate and start the new season in good shape.”

(profi - “Border work” - 04/2022)

✔ Using the BorderTS border spreading system enables increased yields of up to 27% across the outer five metres of the field in comparison with conventional border spreading systems.

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





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



When activated, the BorderTS deflector on the ZA-TS is swivelled into the spread fan 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

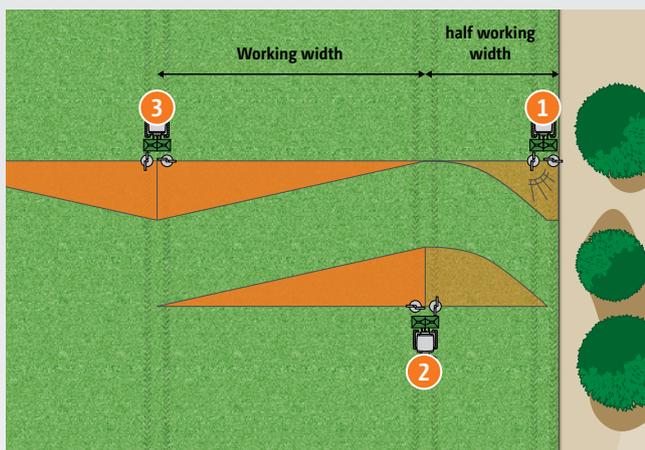
At larger working widths, the fertiliser must be accelerated considerably more in order to achieve a good area of overlap with the spread fan from the first tramline. Due to the high energy of the granules, the evenness of distribution behind the tractor provided by conventional systems is often unsatisfactory. The BorderTS deflector features a special baffle plate construction which 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 is infinitely adjustable for optimal application up to the field boundary. In addition, a sensor detects the working position. When the deflector is in use, the spread rate and the delivery point of the fertiliser 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 during our application showed the effectiveness of the deflector. At the same time, the fertiliser rate for the field was applied right up to the boundary after driving in the headland tramline and round the outside – excellent.”

(profi - “Border work” - 04/2022)

Illustration of the combined use of BorderTS and AutoTS



1. Fertiliser is spread from the edge of the field into the crop by the BorderTS deflector, with automatic reduction of 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 in order to achieve the target rate across the total field boundary area. Normal spreading to the field side with 100% of the target rate.
3. In the 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.

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

average field size	2 ha	4 ha	12 ha
Limiter	€ 52.28	€ 36.96	€ 21.35
Hydro	€ 56.04	€ 39.61	€ 22.89
AutoTS	€ 117.02	€ 82.71	€ 47.79
BorderTS	€ 121.22	€ 85.68	€ 49.50

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.

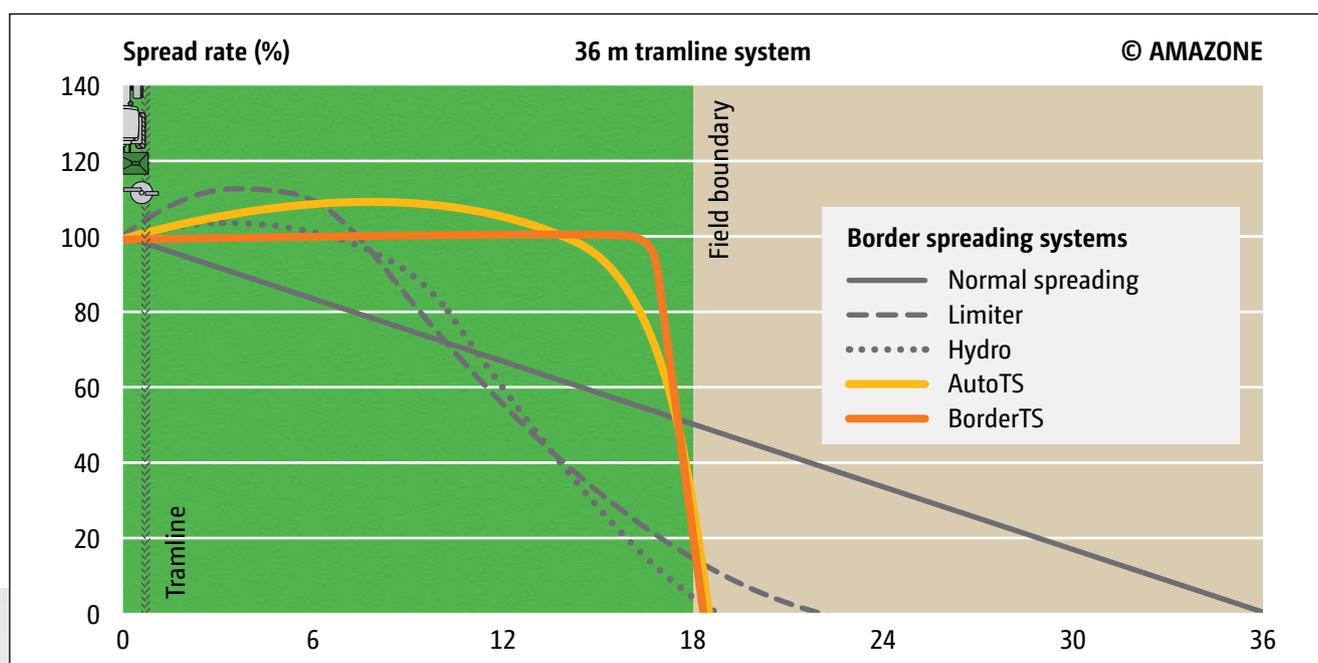
Precise technology is required to spread the full rate of fertiliser right up to the field boundary, even at the larger working widths, as well as avoiding any fertiliser losses outside the field boundary.

AutoTS and BorderTS fulfil 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 underdosage was clearly reduced by using AutoTS and BorderTS, which translates into higher yields.”
- ❗ “This means that using both AutoTS and BorderTS is beneficial at the larger working widths.”

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



The illustration shows the border spreading procedure, whereby ideally no fertiliser 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!



- ✔ Filling aid in combination with the Profis weighing system
 Initial flashing followed by the constant lighting up of the work lights signals that the fill level has been reached.



- ✔ The convenient low level sensors warn the driver of the upcoming emptying of each individual hopper tip.



✔ Compact tractor mounting

No calibration required. Top up the spreader hopper up and off we go! There is nothing simpler.

The weighing system offers controlled convenience and more reliability. It enables on-line determination of the different spreading material properties with two 200 Hz load cells – providing a high level of measuring accuracy. It automatically compares the actually applied rate with the pre-determined rate. Deviations in the flow characteristics, for example when spreading blended mineral fertilisers, are

detected and the spreader is re-adjusted automatically via the electric metering shutter slides. In addition, for field-related nutrient application, for example, the applied rate is precisely documented. In addition, 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

On the Profis system, any possible effects of gravity on the measuring of the hopper contents are taken into account during work with the help of a tilt sensor: A twin-axis tilt sensor that assesses the front and back tilt as well as to the

left and right, corrects measurement errors that may arise when going up and down hills or when driving across a hillside.

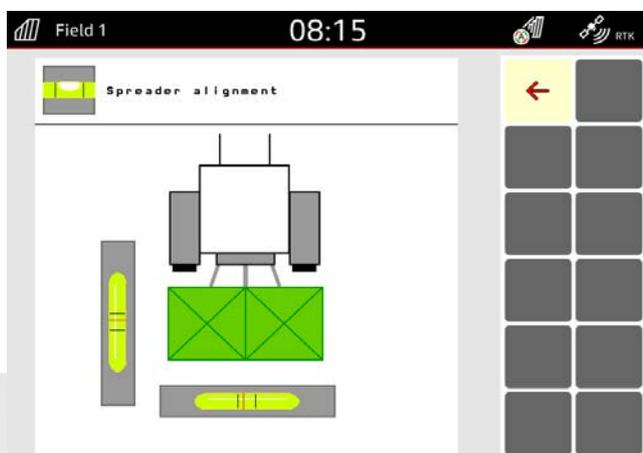
The benefits

Regulating/calibrating under all operating conditions:

- ✔ Side, border and water course spreading
- ✔ Part-width section control
- ✔ Using application maps/N-sensors
- ✔ Spreading of blended fertilisers

Accurate weight measurement:

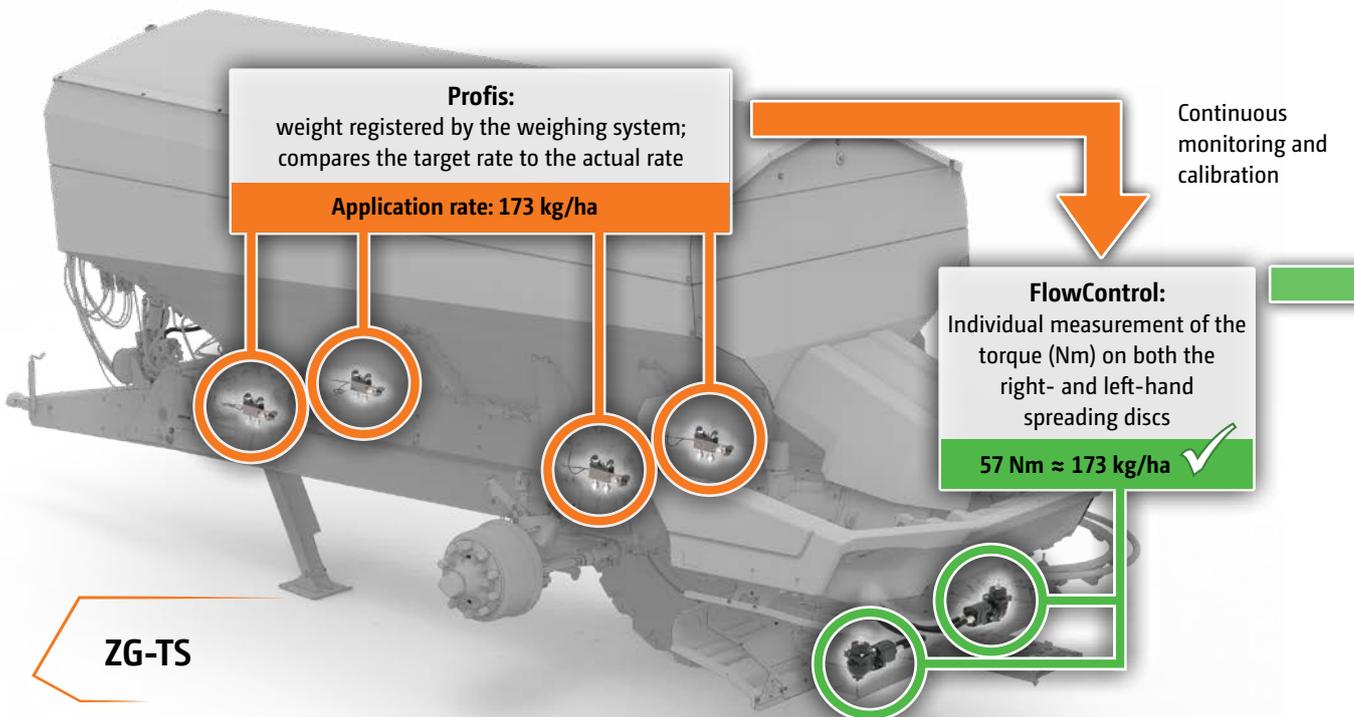
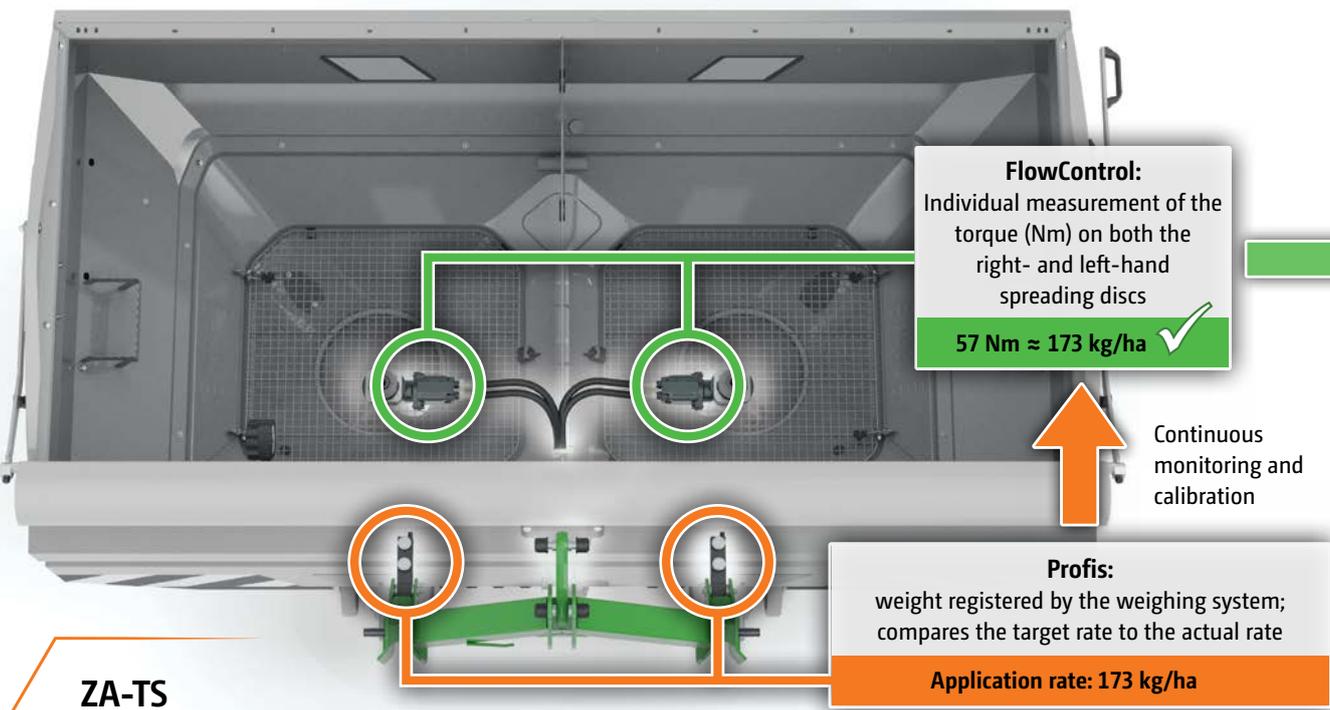
- ✔ display of residual volume
- ✔ Residual area and residual hopper level display
- ✔ Documentation of the total volume spread



- ✔ For the ZA-TS Profis with tilt sensor, the angle of the spreader is conveniently displayed on the ISOBUS terminal via spirit level symbols for simplifying the horizontal alignment of the ZA-TS.

ProfisPro weighing system with torque measurement

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



Profis – Intelligent weighing system

With the frame-integrated Profis weighing system, the hopper and its frame are connected to a separate chassis via two 200 Hz weigh cells on the ZA-TS or via four weigh cells with the ZG-TS. Thus, there are no weight measuring points which are influenced by the traction forces of the tractor. Precise online weighing every 25 kg is the result! An additional tilt sensor is fitted to compensate for the inclination of the machine on slopes. In the case of the ZG-TS, the signal is also used to counter-steer on slopes via the steering axle to prevent the ZG-TS from drifting downhill.

ProfisPro
=
Profis + FlowControl

ProfisPro
=
Profis + FlowControl

The benefits

- ✔ Absolute precision from the very first second
- ✔ Side-independent calibration of the application rate in any field situation
- ✔ Highest precision through simultaneous monitoring of the weighing system and the torque measurement
- ✔ Detection of running empty and any blockages
- ✔ Accurate weight recognition with indication of the quantity remaining and the remaining area
- ✔ Documentation of the total amount applied
- ✔ Additional features for ZG-TS: control of the steering axle on hilly terrain and load-dependent braking force control

FlowControl – torque measuring system

The FlowControl torque measuring system reliably monitors the torque on each spreading disc drive from the very first second and can adjust the position of each spread rate shutter in the event of a deviation from the target rate irrespective of which side. The applied rate is precisely documented for a field-related nutrient balance. In addition, the application rate can be altered at any time by the press of a button on the ISOBUS terminal.

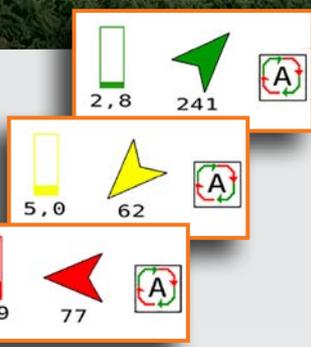
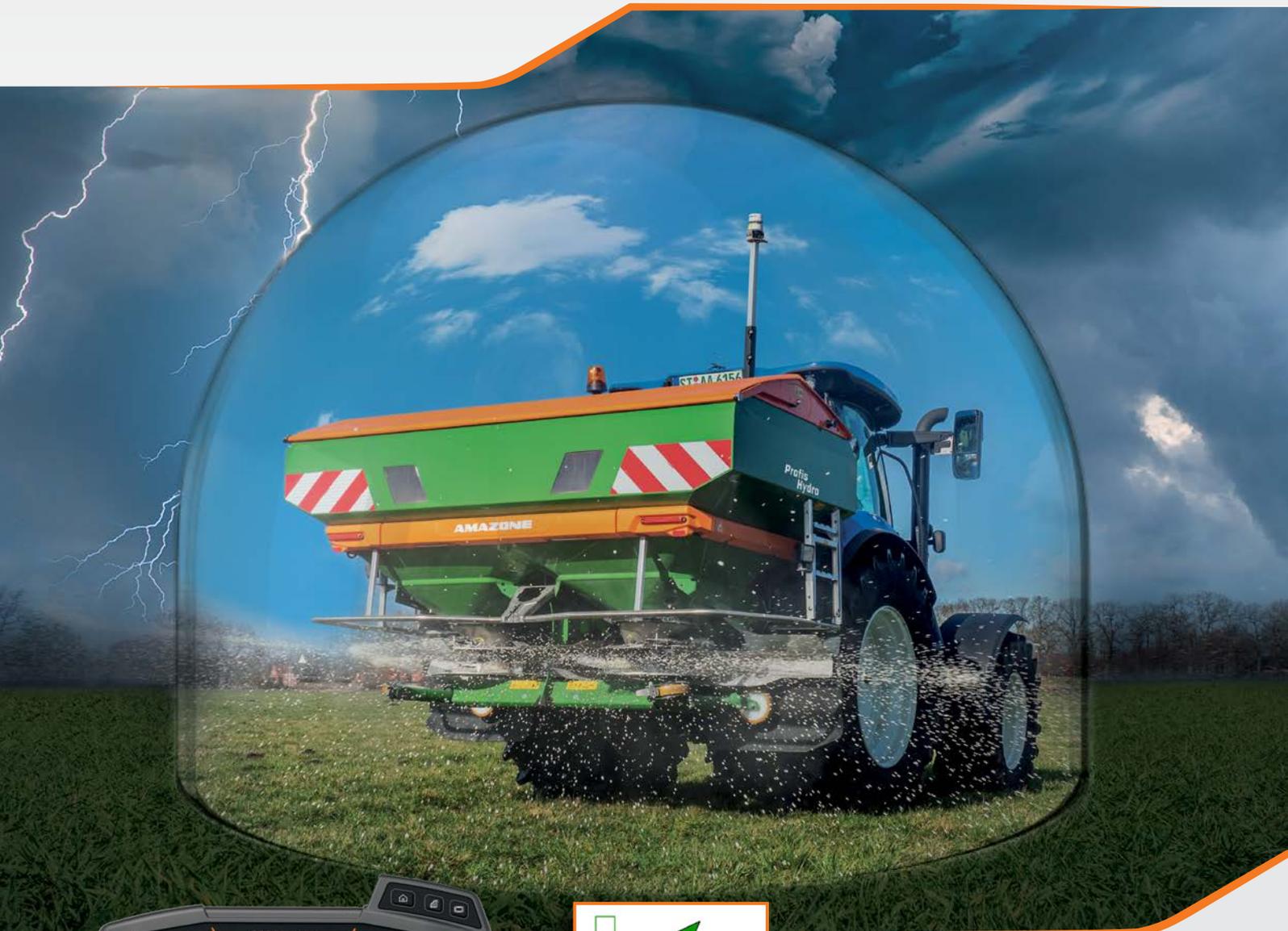
Optimised spread rate from the very first second

This combination of the Profis weighing system and FlowControl enables the fertiliser spreader to use torque to regulate its theoretical application rate throughout the complete spreading process. The Profis weighing system monitors the actual spread rate every 25 kg. This allows FlowControl to recalibrate itself at regular intervals. This takes place without any need to stop. The ProfisPro intelligent weighing system means that the spread rate is optimised from the very first second of the spreading process. In addition, the driver has an overview of the actual quantity remaining in the hopper at all times as well as the possibility to display the remaining distance to travel until empty.

Exclusive!

WindControl

Don't give wind a chance!

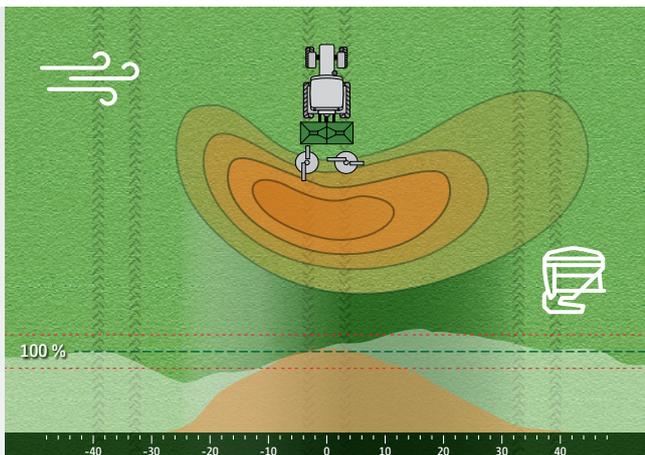


- WindControl traffic light system
 - Green: Unlimited spreading
 - Yellow: Increased control in border areas
 - Red: Stop spreading!

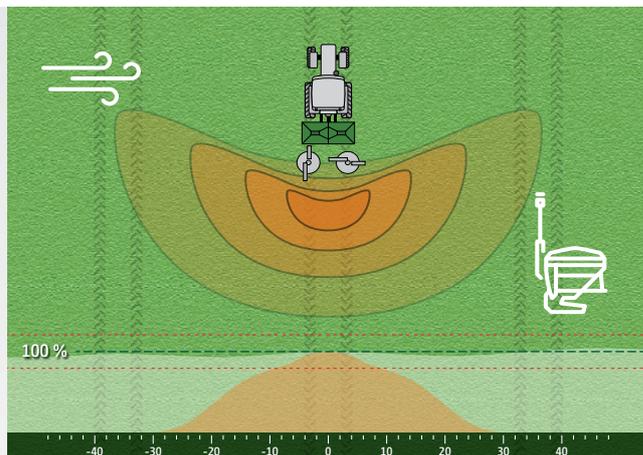
AMAZONE WindControl ensures an optimum lateral distribution even in crosswinds

❗ "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 crosswind ensuring an optimum 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 fertiliser 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).

Mounted on the machine, a high frequency measuring wind sensor, registers both the wind speed and also the wind direction. According to this data, the job computer then calculates 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.

With the aid of WindControl, larger time windows are created for spreading even where there is an influence of wind. Apart from all the important fertiliser spreader parameters, the user additionally always has, in view, the real-time direction of the wind, the force of wind and if the wind is gusting. In addition, WindControl 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.

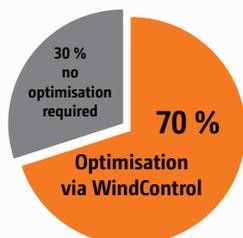
The benefits

- ✔ Higher output through longer windows of use
- ✔ Increased yield through optimised lateral distribution
- ✔ Operational safety via the automatic warning system

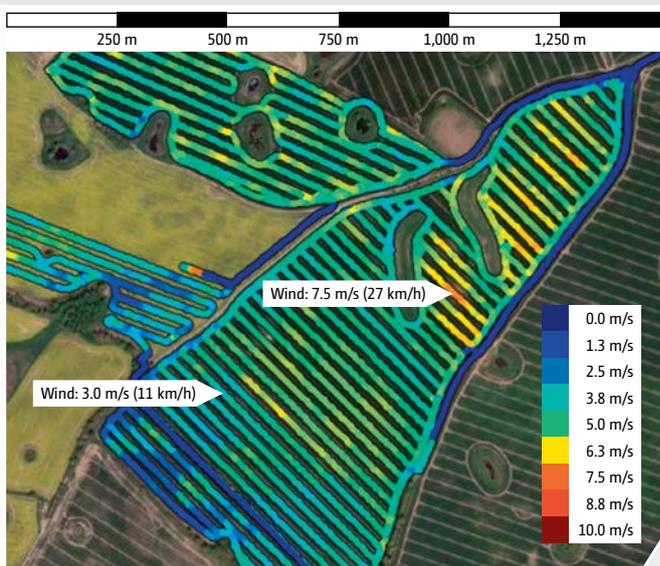
WindControl in practice

Key data and information

- Field size 70 ha
- Wind speeds of up to 27 km/h
- WindControl improves the lateral distribution across 70 % of the area*



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



ArgusTwin

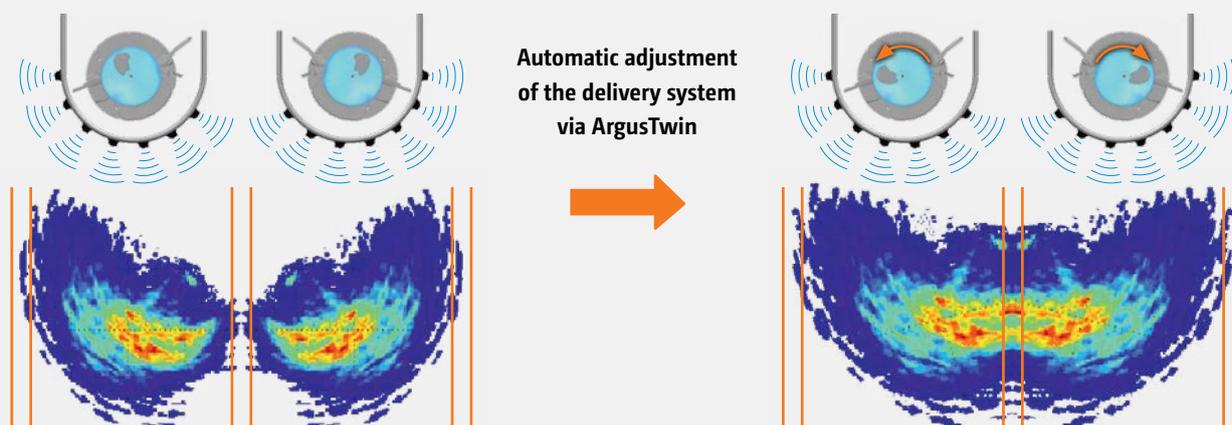
The spreader's eyes – they see what you don't see!



Argus

! "ArgusTwin optimised the 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 fertiliser properties

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

Automatic adjustment to the optimum lateral distribution

Via the constantly working on-line monitoring and readjustment of the delivery system, the ArgusTwin system ensures an optimum lateral distribution of the fertiliser. This leads to a more effective fertiliser use and forms the basis for optimum crop management.

The Argus system, which checks the spread fan and automatically regulates the lateral distribution, is based on radar technology that is independent of dust and pollution and thus provides reliable results in practice. ArgusTwin constantly monitors, via radar sensors mounted on both the sides of the spreader, the left and right hand spread fans simultaneously and readjusts the electric delivery system independently of each other if necessary.

Automatic delivery system adjustment

Via the ISOBUS terminal, the application rate, and any further relevant data relating to the fertiliser to be spread, are entered from the setting chart. For the Argus system, the spreading chart has been updated to include the throwing angle that gives the optimum lateral distribution. Utilising this value, ArgusTwin constantly checks whether the predetermined direction of throw for that fertiliser 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 fertiliser, worn spreading vanes, working across slopes or during starting and stopping procedures, the spreader readjusts, on its own, the setting for the delivery system – and that of each side individually. The only pre-condition for its use is the electric delivery system adjustment.

The benefits

- ✔ Constant on-line monitoring of both spread fans
- ✔ Maintains an optimum lateral distribution of the fertiliser even with:
 - variable fertiliser quality
 - environmental influences, such as moisture and dew
 - Fertiliser coating on the spreading discs
- ✔ Automatic slope compensation of the spread pattern
- ✔ Positioned protected directly above the spreading discs



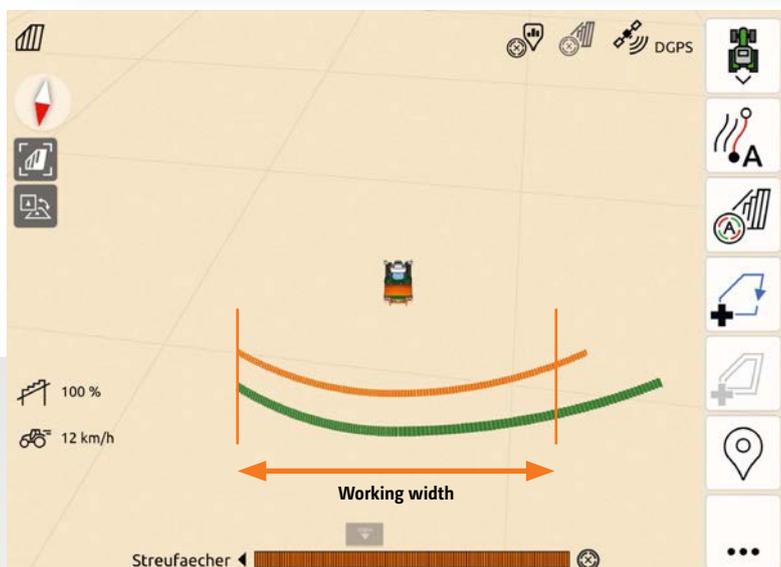
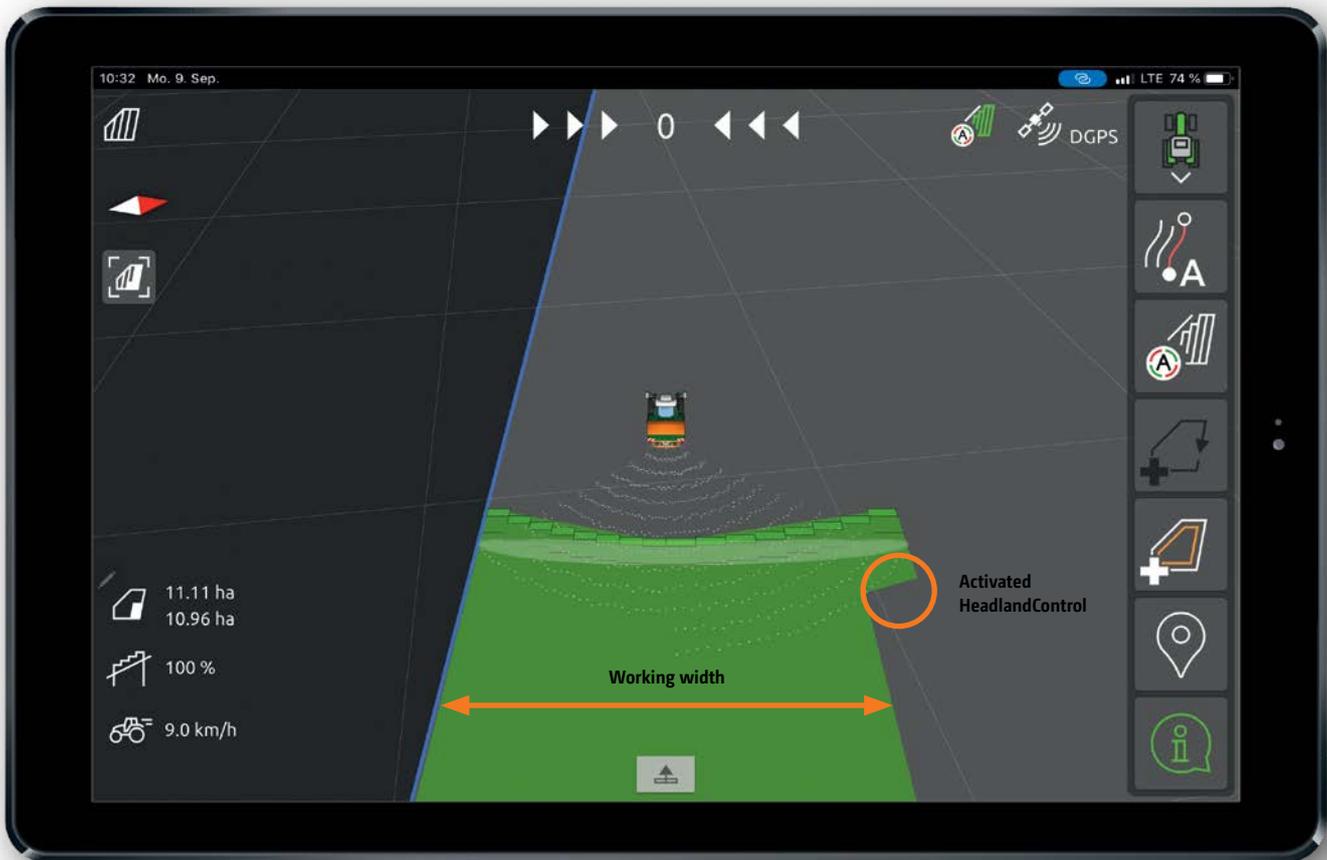
REACTION FROM THE END USERS!
Find out more

Exclusive!

MORE
than ISOBUS

HeadlandControl

Optimum lateral distribution on the headland

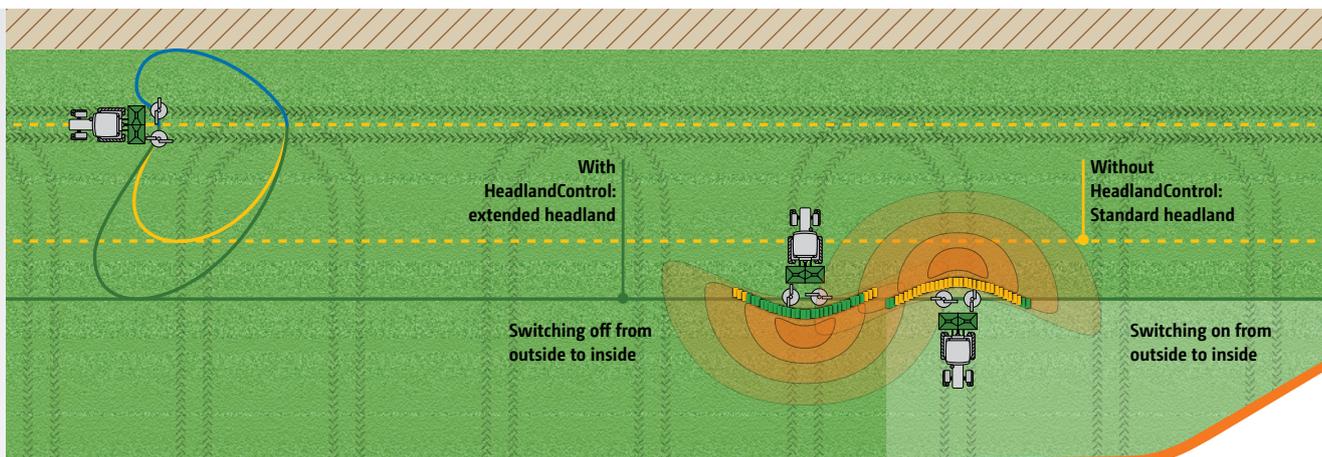


Urea



CAN

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



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

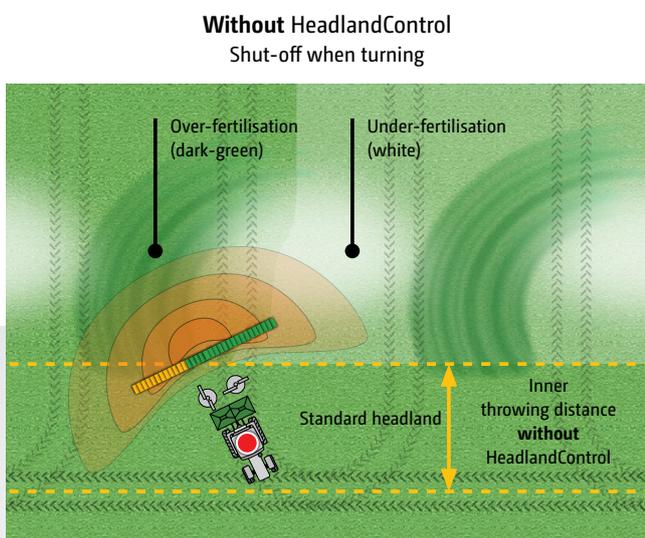
The problem: over- and under-fertilisation on the headland

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

Switch-off time on the headland: Without HeadlandControl

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

Result: over- and under-fertilised zones are created



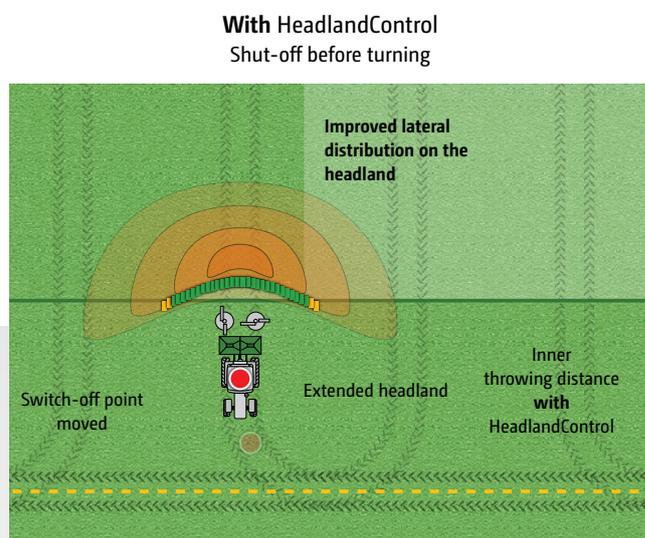
The solution: HeadlandControl

When HeadlandControl is activated, the throwing width and spread rate are increased on the field side, so that 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 fan, causes the part-width sections to be switched off from the outside to the inside when entering the headland. Over- and under-fertilised zones on the headland are subsequently avoided.

With HeadlandControl

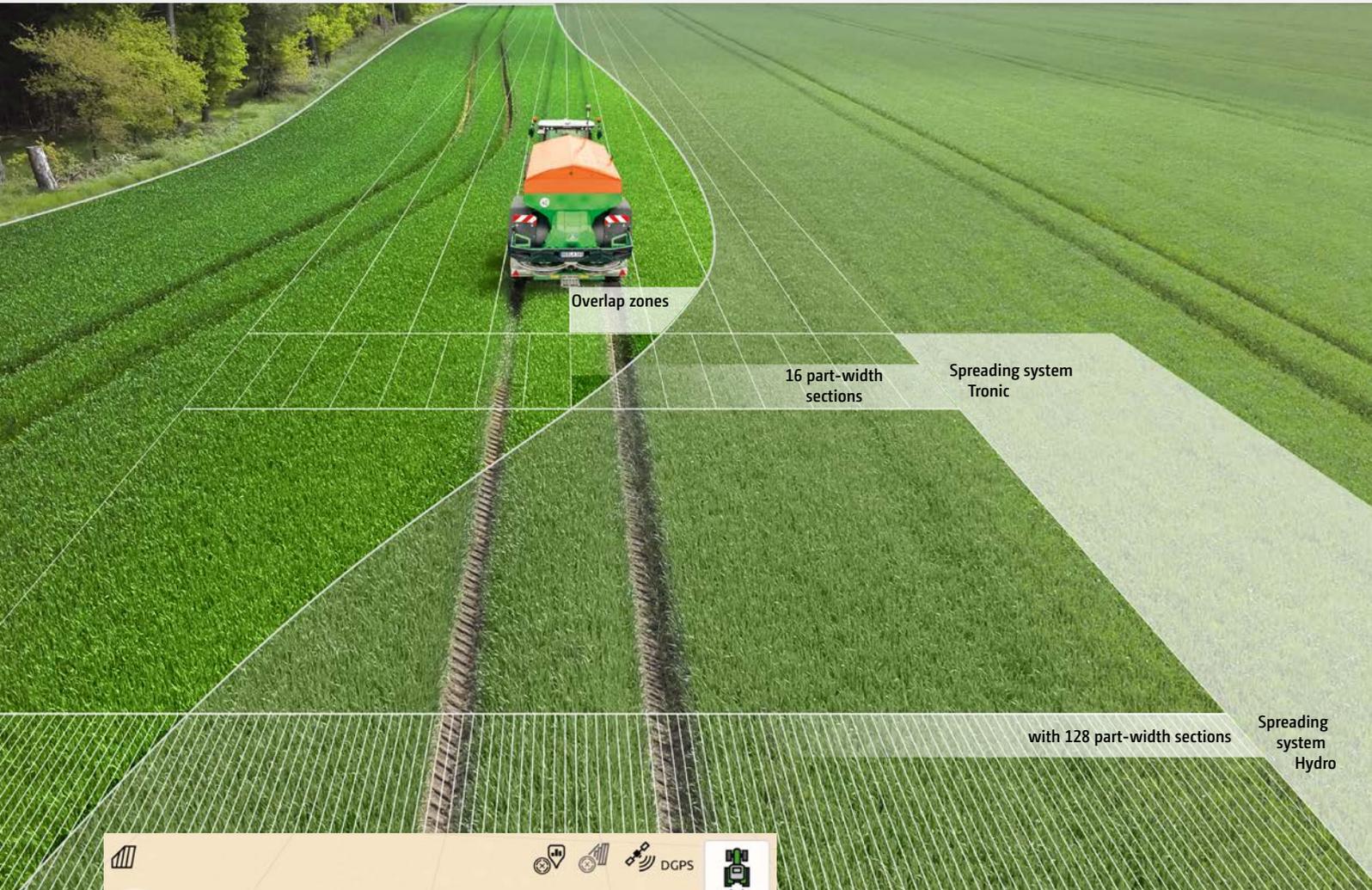
1. HeadlandControl means that the spreader continues to apply fertiliser to the crop when it is on the headland
2. The tractor can follow the wheel tracks of the crop protection sprayer

Result: uniform crops across the full headland



“More than ISOBUS” functions from AMAZONE extend beyond the ISOBUS standards. Because of this, HeadlandControl, amongst other things, does not function on all ISOBUS terminals.

Automatic part-width section control via GPS-Switch



Urea



CAN

Each fertiliser has different trajectory characteristics. This is why Section Control calculates the exact switching points for the optimum shape and position of the spread fan for each pass.

❗ “With Section Control, the ISOBUS terminal takes a lot of pressure away from the driver.”

(“dlz agrar magazine” – test report ZA-TS fertiliser spreader · 02/2017)

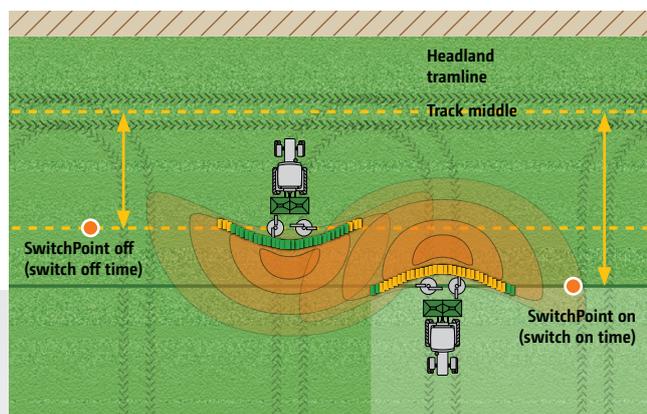
More precision, more output!

In view of the very large working widths used now, the matching of the spread patterns is very important. Thanks to the electric delivery system adjustment on the TS spreading system, it is able to react precisely and sensitively in these cases. So even outer part-width sections can be easily controlled. In addition, due to the individual speed adjustment of the left and right hand side discs, the spreading width can be reduced from the far outside to the centre, so that, even at large working widths, long and shallow-shaped wedges and short work are optimally spread. 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). When utilising a relevant Section Control licence on the terminal, a part-width section control of up to a maximum of 128 part width sections can be utilised.

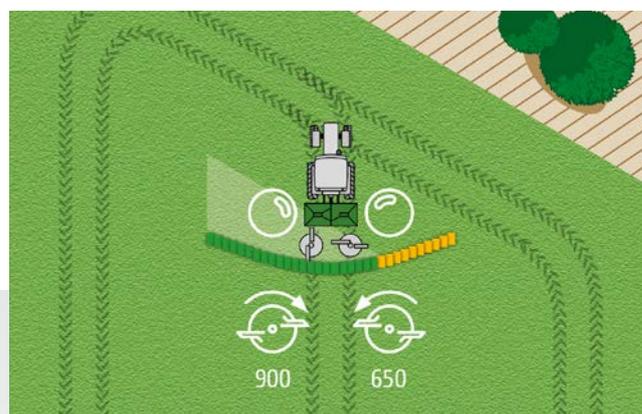
If the operating terminal facilitates Section Control, such as GPS-Switch part-width section control from AMAZONE, the part-width sections are activated completely automatically and in relation to the GPS position. Once a field has been created, and then in automatic mode, the driver can concentrate fully on the operation of the towing vehicle, since the part-width sections are switched automatically in wedge shaped fields and on headlands.

Benefits of automatic part-width section control:

- ✔ Stress relief on the driver
- ✔ 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 enables the adjustment of the switch-on and switch-off points depending on the fertiliser 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 fertilisation

When applying fertiliser, drivers have to juggle various tasks. Firstly, they need to ensure optimal lateral distribution of the material to be spread, as well as maintaining the desired application rate of the fertiliser. 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 fertilisation. This can lead to operator errors, especially when changing drivers, as the right border spreading procedure is not activated or deactivated in the right place. Lack of driver knowledge can also lead to non-compliance when applying fertilisers.

Record and store the right driving strategy

When crossing the field for the first time with the fertiliser spreader, all the switching points, driving route and driving direction can be automatically plotted by an experienced driver using GPS ScenarioControl, by pushing the record button. The switching points are clearly marked on the map and the driving direction is visualised with arrows. 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 reduction of driver workload

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

The advantages at a glance:

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

❗ “As a result, the tool provides farm managers with the assurance that their drivers apply the fertiliser beside ditches and paths within the law and elsewhere are optimised for yield. This is particularly interesting when the drivers frequently change or when the boss wants to entrust the fertilisation to, for instance, his trainees.”

(“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 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Section Control with up to 16 part-width sections • Virtual headland • Automatic boom lowering • HeadlandControl and parabolic switching
GPS-Switch pro	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Optical parallel guidance aid • Various different track modes • ISOBUS Level 1 tramline control
AmaCam	<ul style="list-style-type: none"> • Camera display with reversing aid facility
AmaTron Twin	<ul style="list-style-type: none"> • Display extension using the AmaTron Twin App
GPS-ScenarioControl	<ul style="list-style-type: none"> • 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



ISO
BUS



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



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

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



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

- ❗ “We tried everything – pneumatic spreaders, other spreaders. But the results led us to the AMAZONE ZG-TS ProfisPro with A 10,000 LITRE HOPPER CAPACITY.”
- ❗ “A unique selling point for us – WindControl.”
- ❗ “By using WindControl, Argus and FlowControl, we have gone up to 36 m working widths.”
- ❗ “Even with light, fine fertilisers, we can spread them reliably over 36 m, even in windy conditions.”
- ❗ “We are no longer reliant on weekend work or night shifts.”



ZA-TS

Fertiliser hopper in 1,400 to 5,000 litres



Advantages of the ZA-TS:

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



15 m – 54 m

1,400 l
to 5,000 l16 or
128 part-width
sectionsFertiliser, pelleted
materials, seeds,
slug pellets

Hydraulic roll-over cover



Mechanical roll-over cover



Swivel rolling and parking device



- ❗ “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)

- ❗ “The robust (and steered at the front) parking rollers with brakes are swivelled in or out with a bold kick. It doesn't get any better.”

(profi – Practice test “Four fertiliser spreaders in comparison” · 01/2016)

ZA-TS

Optimum hopper profile

ZA-TS fertiliser hopper



The deep-drawn hopper

The basic hopper has a capacity of 700 l. It is a deep-drawn meaning that it does not have any corners, edges, and welded seams. This ensures a continuous and even flow of fertiliser. Also the cleaning of the spreader is made easy thanks to this design. The range of hopper extensions available enable total capacities of up to 5,000 litres.

The benefits of the design

- ✔ No edges and weld seams, one-piece hopper
- ✔ Optimum fertiliser flow, consistent passage
- ✔ No residues
- ✔ Open frame structure facilitates easy cleaning
- ✔ Electronic components protected in the box section frame



✔ Quick Hitch Adapter

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

ZA-TS 5000 ProfisPro Hydro with steps

Hopper extensions

The narrow ones
with a filling width of 2.22 m



S 1400 extension S 1700 extension



S 2000 extension



S 2600 extension with foldable ladder

The wide ones
with a filling width of 2.71 m and
foldable 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: 3,200 kg payload, Cat. 2 linkage

Ultra frame: 4,500 kg payload, Cat. 3 linkage

The benefits

- ✔ lightweight frame design with excellent rigidity
- ✔ optimised centre of gravity and yet plenty of space for hitching up

- ❗ "For Amazone, their payload of up to 4.5 t is the highest."
(profi – Practice test "Four fertiliser spreaders in comparison" -
01/2016)

Optional equipment

Perfect down to the last detail



ZA-TS

SafetySet – integrated as standard

The SafetySet, which is fitted as standard equipment ensures improved safety. The outer guard tube fulfils the accident prevention regulations. Large marker boards to the rear and the LED road lighting kit ensure more recognisability in road traffic.

Mount for the GPS receiver on the fertiliser spreader

The holder, including a 12 m GPS connecting cable, serves to mount a GPS receiver on the fertiliser spreader instead of on the tractor. The GPS receiver can remain on the spreader if the tractor is changed frequently, such as with machine cooperatives. In use, the GPS receiver is always located clearly above the fertiliser spreader.

FlowCheck for monitoring the shutter apertures

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 to each side, FlowCheck only detects blockages and when one of the two shutter apertures is running empty. Should a blockage occur, both systems rectify the fault by quickly opening and closing the shutter slide whilst simultaneously reversing the agitator. This means absolute reliability of operation for the farmer.



 FlowCheck sensors in the hydraulic circuit



- ✔ Swivel hopper cover in the maintenance position

Roll-over cover

The hydraulically controlled roll-over cover provides maximum comfort as it can be opened and closed from the tractor cab. 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.

Ladders to ensure safe access

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



- ❗ “Amazone sets the standard, even with the ladder: The rungs (stainless steel) are well integrated on both sides and do not protrude.”

(profi – Practice test “Four fertiliser spreaders in comparison” - 01/2016)



- ✔ Parking device with integrated stands

Parking device options

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

Camera system for the ZA-TS – Safety first!

The optionally available camera system mainly serves for safety when manoeuvring. The high resolution, antiglare monitor is backlit and can also display two cameras at once. The coupling to an ISOBUS terminal with an analogue video input is also possible.



- ✔ Alternatively, the picture from the camera can also be displayed via the analogue video input on the AmaTron 4,

Let there be light

Multiple benefit of the working lights

Spread fan, spreading unit and hopper internal lighting

An optional work 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 of the spreader. This ensures that the user has an overview of the fill level in the hopper at night, and has adequate lighting for changing the spreading discs and for setting the telescopic blades on the spreading vanes.



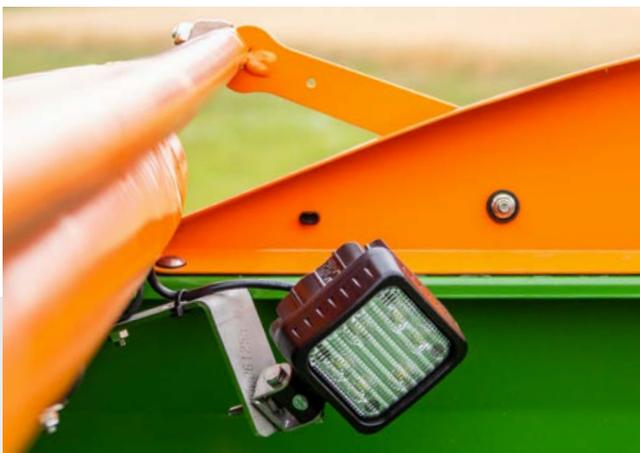
The lighting for spreading unit is integrated safely in the lighting carrier.

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

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

! "In conjunction with the weighing system, the LED work lights become a filling aid. A light flashes and then lights up continuously to indicate that you are approaching and then have reached your pre-defined desired weight – fantastic."

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



Internal hopper lighting



The pre-set weight is reached when the work lights come on continuously.

Front and Back duo

A new level of precision



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

Two into one goes

For customers who intend to accurately spread two different mineral fertilisers in just one pass, AMAZONE offers the unique possibility of a front-mounted spreader. Other than when utilising blended fertilisers in one fertiliser spreader, this option allows the optimal setting of each spreader according to the properties of the relevant fertiliser. In this way, the perfect lateral distribution for both fertilisers is achieved. Also spreading with two different application maps is possible.

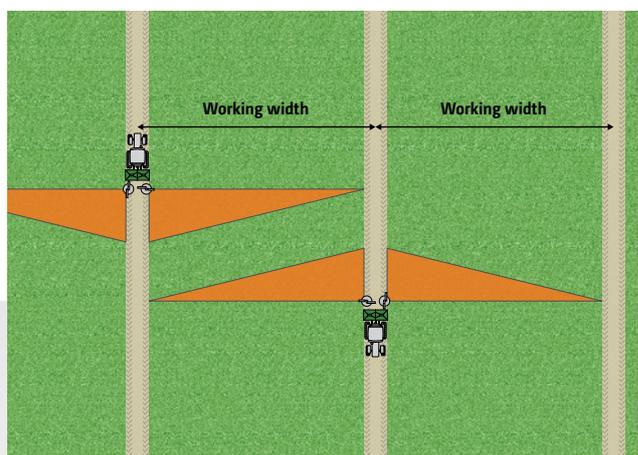
The benefits of front-mounting

- ✔ Possibility to accurately spread two different types of fertiliser in just one pass
- ✔ More capacity from the additional hopper capacity yet with the benefits of a mounted machine – manoeuvrable and speedy
- ❗ “The spreader duo shows its strengths in its precision.”
- ❗ “The combination is manoeuvrable, efficient and improves the weight distribution on the front and rear axle.”
(agrarheute magazine– test report with the front mounted spreader · 09/2018)

How to optimally spread in beds

Bed spreading with bed spreading deflector for both sides

For spreading specialist crops in beds to either side of the tractor, AMAZONE offers the bed spreading deflector. It keeps the track virtually free of fertiliser. Actuation of the bed spreading deflector is carried out hydraulically from the tractor seat.



Technical data

ZA-TS mounted spreader

ZA-TS	1400	1700	2000	2200	2600	2700	3200	4200	5000	
Working width (m)	15–54									
Hopper capacity (l)	1,400	1,700	2,000	2,200	2,600	2,700	3,200	4,200	5,000	
– with bolt-on extension S 600 (l)	2,000	2,300	2,600	–	–	–	–	–	–	
– with bolt-on extension L 800 (l)	–	–	–	3,000	–	3,500	4,000	–	–	
Payload (kg)	Super frame	3,200	3,200	3,200	3,200	3,200	3,200	3,200	–	–
	Ultra frame	–	–	–	4,500	–	4,500	4,500	4,500	4,500
Filling height (m) without rolling & parking device	1.13	1.23	1.31	1.30	1.49	1.42	1.54	1.76	1.96	
Filling width (m)	2.23	2.23	2.23	2.72	2.23	2.72	2.72	2.72	2.72	
Overall width (m)	2.55	2.55	2.55	2.92	2.55	2.92	2.92	2.92	2.92	
Total length (m) without weighing system	1.48	1.46	1.46	1.55	1.46	1.55	1.55	1.68	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 linkage dimensions and fixing pins								
	Ultra frame	Cat. III linkage 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 70 l/min), (1 d/a valve for hyd. rollover cover)								
Min. weight (kg) (with spreading vane set TS 20)	471	480	489	539	528	555	573	685	730	

Illustrations, content and technical data are not binding and may differ depending on the level of equipment. 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 the listed combination options are possible with all tractor manufacturers.



ZG-TS

Fertiliser hopper in 7,500 or 10,000 litres



Advantages of the ZG-TS:

- ✔ Maximum precision during normal spreading and border spreading, regardless of external influences such as wind, hilly terrain or varying fertiliser properties
- ✔ Reduction of the load on the axle through optimum weight distribution
- ✔ True track-following thanks to a steering axle with a steering angle of up to 28°
- ✔ Highly efficient fertilisation with maximum area coverage



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



15 m – 54 m



7,500 l
or 10,000 l



128 part-width
sections



Fertiliser, pelleted
materials, seeds,
slug pellets



✔ Hydraulic parking jack for ZG-TS



Hybrid drive with combined oil supply

- Oil requirement with steering axle max. 85 l/min
- Oil requirement without steering axle max. 60 l/min



Hydro drive with oil supply exclusively from the tractor

- Oil requirement with steering axle max. 130 l/min
- Oil requirement without steering axle max. 105 l/min

Optimally balanced

ZG-TS fertiliser hopper



Enormous work rates

With hopper capacities of 7,500 l and 10,000 l, the ZG-TS models are especially efficient and ideal for large farm sizes which focus in particular on increased precision. Thanks to their size, valuable travelling and loading times are saved. Due to the large hopper opening, the loading procedure can also be carried out very comfortably via a front end loader or from a bulk filling system. The belt floor, automatically centred to the middle, ensures the optimum material flow.

Advantages of the base hopper

- ✔ Low hopper centre of gravity
- ✔ Low filling height
- ✔ Large fill opening
- ✔ Low wear rubber floor belt
- ✔ Automatic belt floor centralisation



Accurate metering

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

Automatic pre-chamber filling

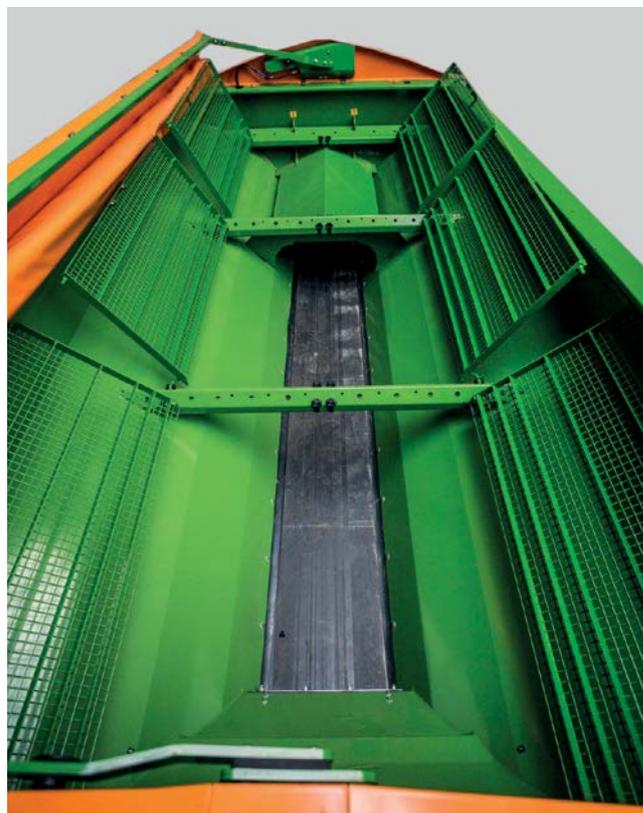
An endless floor belt for conveying the fertiliser is provided along the bottom of the hopper. This automatically fills the pre-chamber during the spreading operation.

Optimum load distribution

The floor belt rises by 5 degrees which enables a 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 in sloping terrain
- ✔ Simple cleaning procedure
- ✔ Generous space for the axle steering
- ✔ Optimum weight distribution
- ✔ High ground clearance



Model	Hopper capacity	Unladen weight	Payload
ZG-TS 7501	7,500 l	3,850 kg	8,650 kg
ZG-TS 10001	10,000 l	4,000 kg	8,500 kg

Intelligent fill level management

Your reliable assistant!



Intelligent fill level management

The extremely clever Profis weighing system goes into action with its intelligent fill level management right from the loading stage. Without the use of an external scale, the system gives precise information about the load condition at all times, thus preventing overloading and empty travelling. Profis also sets standards as a filling aid as well as through the continuous measurement of the hopper contents.

The benefits

- ✔ Intelligent filling aid
- ✔ Reliable fill level measurements even without using an external weighing system
- ✔ Avoidance of unnecessary empty travelling and excessive residues

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





✔ Filling by just one person, very simple!



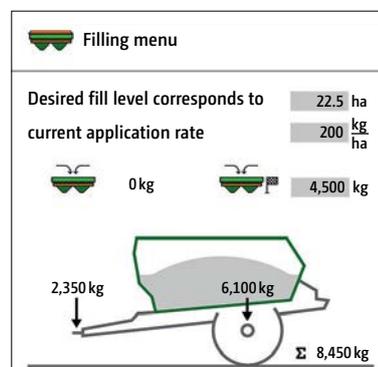
✔ If the work light illuminate constantly, the desired fill level has been reached

Filling aid

Operators will particularly love the filling aid provided by the work lights and the Profis weighing system. Initial flashing followed by the constant lighting up of the work lights signals that the fill level has been reached. A second person, or the frequent dismounting for checking, are no longer necessary.

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

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

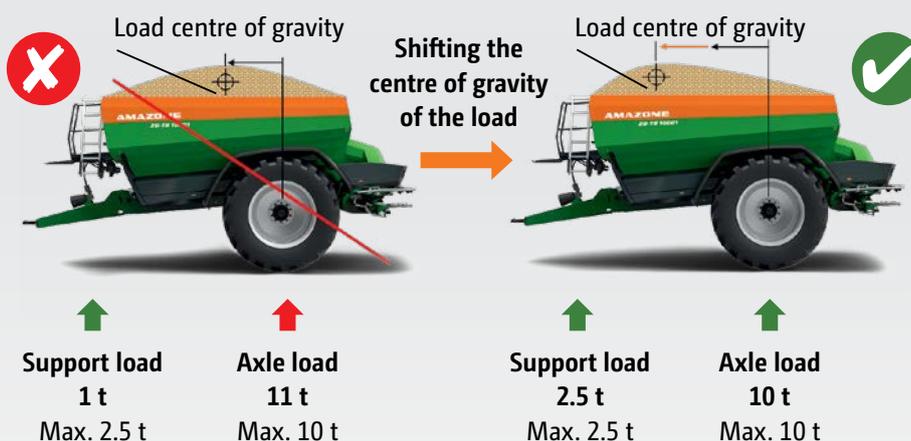


Filling menu – determination of the desired fill level

Optimum load distribution under all spreading conditions

Thanks to the real time measuring via the Profis weighing system, the axle and support loads can be optimally utilised during the filling procedure. This is because during the filling procedure it is possible to see where the load is concentrated and thus prevent either the overloading of the axle or the drawbar.

Furthermore, the floor belt rises by 5 degrees which enables a 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.



Manoeuvrable and comfortable

Perfect driving behaviour on the road and in the field



60 km/h

Greater comfort – gentle on the crop

- ✔ True track-following at track widths of 1.80 to 2.25 m
- ✔ Increased driving comfort due to sprung-suspended and height adjustable drawbar system
- ✔ Stable and robust chassis technology, designed for speeds of up to 60 km/h
- ✔ Automatic braking force control
- ✔ Oversized tyres reduce the ground pressure and allows operation even under the most arduous of conditions
- ✔ Wheel diameters of up to 2.05 m possible

- ① “The axle steering is new for the fertiliser spreaders [...] This makes the machines manoeuvrable 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 spreaders, 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 1,800 mm and a tyre width of 520 mm. The automatic steering even allows counter-steering on slopes. As soon as the spreading disc drive has been deactivated and a speed of 15 km/h is exceeded, the steering automatically stops to ensure the safe road transport at speeds of up to 60 km/h.

Benefits of axle steering

- ✔ Steering angle up to 28°
- ✔ Minimum turning radius of 4.5 m
- ✔ True track-following – for gentle crop treatment
- ✔ Counter-steering in sloping terrain

Automatic braking force control

In order to be safe on the road, even at high speeds and different load capacities, the ZG-TS offers an optional automatic load-dependent braking force control. The electronic braking system (EBS) receives the signal for determining the load-dependent braking force from the Profis on-line weighing system. Since the weighing system continuously determines the quantity in the hopper, the delivered braking force adapts automatically. Due to this, the braking sensitivity is perfect for all load ranges. The ZG-TS also fulfils the requirements of the EU braking regulations 167/2013.

Advantages of the electronically-controlled braking system

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



Optional equipment

Perfect down to the last detail

Your safety is paramount!

The optionally available camera system mainly serves for safety when manoeuvring. The high resolution, antiglare monitor is backlit and can also display two cameras at once. The coupling to an ISOBUS terminal with an analogue video input is also possible.

The roll-over hopper cover – comfortable and reliable

Also the hydraulically-controlled, roll-over hopper cover is especially comfortable. It can be unrolled and retracted comfortably and safely from the tractor cab. Thanks to the clever tensioning mechanism, the cover rolls up firmly and tight to the hopper so that no water, dirt or fertiliser 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.



✔ Hydraulically actuated roll-over hopper cover

ZG-TS



✔ Alternatively, the picture from the camera can also be displayed via the analogue video input on the AmaTron 4,

Work lighting kit – as bright as day all of the time

With the optional work lights, all the main areas of the spreader are adequately illuminated when working at night. For monitoring the fill level and for when loading, high-capacity LED spot lights illuminate the inside of the hopper. For checking the agitators and for changes in the spread pattern, additional work lights are installed. In addition, work lights are attached to the sides which illuminate the spread pattern at nighttime and at the same time can be utilised as a filling aid.



Work lights inside the hopper

Technical data

ZG-TS trailed spreaders

Model	ZG-TS 7501 ProfisPro	ZG-TS 10001 ProfisPro
Working width (m)	15–54	
Hopper capacity (l)	7,500	10,000
Permissible total weight (kg)	12,500	12,500
Max. payload (kg)	8,650	8,500
Filling height (m) + static tyre radius	1.71	1.98
Filling width (m)	4.09	
Filling depth (m)	1.94	
Overall length (m)	7.33	
Total width (m), (depending on the tyres fitted)	2.48–2.90	
Total height (m), (depending on the tyres fitted)	2.68–3.03	2.95–3.30
Spreading disc drive options	Hydraulic-drive with oil supplied exclusively from the tractor Oil requirement with steering axle max. 130 l/min Oil requirement without steering axle max. 105 l/min Hybrid drive with combined oil supply Oil requirement with steering axle max. 85 l/min Oil requirement without steering axle max. 60 l/min	
Weighing system	ProfisPro c/w FlowControl torque measuring system	
Min. weight (kg) (without optional equipment)	3,850	4,000

Illustrations, content and technical data are not binding and may differ depending on the level of equipment. 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 the listed combination options are possible with all tractor manufacturers.

Spreading lime and fertiliser with the ZG-TX

The ZG-TX combi spreader from AMAZONE can spread both lime and fertiliser. The spreading unit on the machine can be quickly converted for lime. Lime is then efficiently spread over working widths of up to 16 metres with hopper capacities of between 6,800 litres and 11,200 litres. Further information can be found in the additional brochure “ZG-TX combi spreader”.



ZG-TS Truck

Precision combined with the advantages of the carrier vehicle



PRODUCT FILM
Find out more



15 m – 54 m

7,500 l
or 10,000 l128 part-width
sectionsFertiliser, pelleted
materials, seeds,
slug pellets

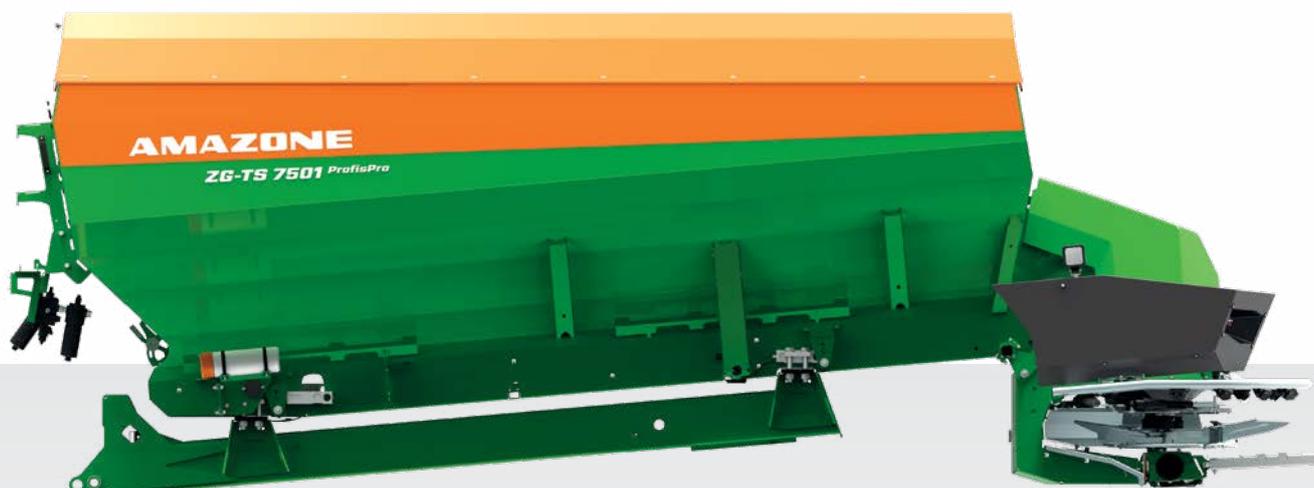
More efficiency and flexibility

The ZG-TS Truck demount spreader is the ideal solution for contractors and farms that need to quickly travel large distances between the field and yard. In addition, the spreaders can be used on a carrier vehicles with larger ground clearances and track widths, so that the range of application is increased. 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 also sets new standards in the self-propelled machine segment as far as precision is concerned.



Advantages of the ZG-TS Truck

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



- ✔ Optimum weight distribution due to the hopper being inclined forwards

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.



The KTL dip-paint priming of all components enables an almost comprehensive corrosion protection.



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

High-quality, multi-layer paint

The paintwork on a fertiliser spreader is exposed to particular demands. The paintwork is intended to protect the spreader from corrosion, especially when handling fertiliser and where moisture is involved. Starting with the 2022 model year, a new painting process is used for the ZA-V, ZA-TS and ZG-TS fertiliser 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's guarantee

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

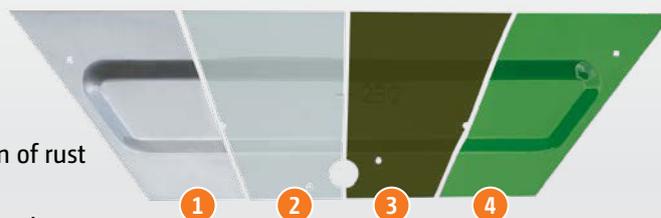
registration is done very simply via the manufacturer's portal, myAmazone, bearing in mind the terms and conditions (www.amazone.net/7-years) stated there. After registration, one can continue to work without any worries.

The benefits

- ✔ **Cathodic dip painting process**
 - Suppression 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 counteraction of rust formation
- ③ **Thick cathodic dip priming** for full corrosion protection, even in cavities and those 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. That's why AMAZONE guarantees you the highest quality thanks to a very high level of vertical integration within its own factories in Europe – and it has been doing so for 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 fertilisation. That is why AMAZONE offers a first-class parts service with genuine parts that are precisely matched to your machine. So your machine is always ready for use – quality parts and available worldwide.

The Global Parts Centre 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 is 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. Alternatively, you can use "SmartLearning" – AMAZONE's interactive driver training – to familiarise yourself with the machine's operation before using it for the first time.

Efficient fertilisation from the very first metre.

The advantages of genuine parts and wearing metal:

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

myAMAZONE

for more performance



Register now

www.amazone.net/myamazone



WARRANTY

» Register now and apply for a 7-year guarantee against rust perforation!

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

“ The guarantee 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 guarantee!

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

“ The guarantee 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 right parts list for your machine with just one click.
- ✔ Identify the correct part from the exploded views in a trice.
- ✔ Create a shopping basket and send it to your service partner.



ADJUSTMENT AND OPERATION

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

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



Spreader Application Centre

The heart of spreader development

The Spreader Application Centre (SAC) with its fertiliser 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 fertilisation technology development. For decades, the company has been working on optimising fertiliser spreaders with pioneering technologies such as AutoTS, ArgusTwin and WindControl or the use of artificial intelligence for Easy-Check or EasyMix.

The goal is precise lateral distribution and spread rate accuracy under all conditions and for all fertilisers, in order to provide our customers with the best possible support - and this has been the case since 1950, when the first manual spreading tests were carried out. Today, working widths of up to 72 metres 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 fertiliser analysis (5 kg samples), in order to provide individual recommendations on the optimum spreader settings and spread patterns for their fertiliser samples. The recommendations can be read directly in the mySpreader App via a QR code and used immediately to adjust your fertiliser spreader.

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

The benefits

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

Only when properly spread is your fertiliser worth its weight in gold

The AMAZONE FertiliserService cooperates closely with well-known, spreading material manufacturers – worldwide – to be able to make available to you the best settings as quickly as possible. AMAZONE is the name for precise spreading charts, worldwide.



FertiliserService – You can contact us via:

The FertiliserService works across borders, but not only geographically. This is because no matter whether your fertiliser spreader is 1 or 50 years old, we are always 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

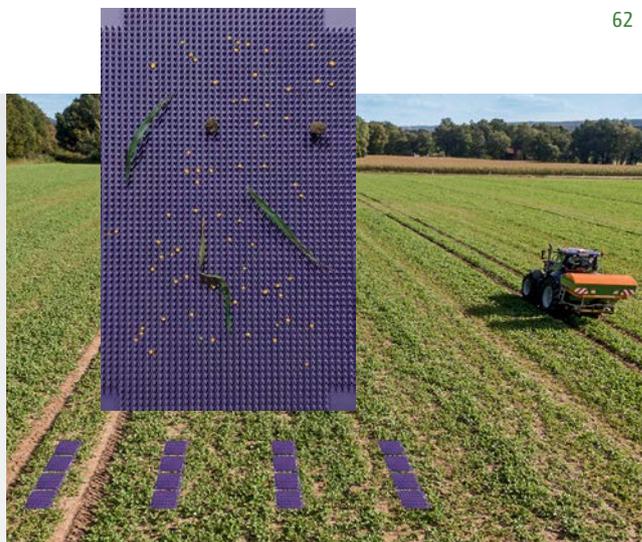
AMAZONE fertiliser spreaders can be optimally set up using the free **mySpreader App**:



Modern fertiliser spreader testing hall

mySpreader App

The all-in-one package for perfect spreader adjustment



EasyCheck is an integral part of the mySpreader App

This is FertiliserService!

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

With extensive functions such as the calibration aid, Easy-Check, EasyMix and connection via Bluetooth, the mySpreader App becomes a useful management tool for your spreader.

The benefits

- ✔ A single App for all spreader settings
- ✔ The entire fertiliser database at your fingertips
- ✔ Clear and intuitive to use

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 the fertiliser distribution and provides precise setting recommendations for easy optimisation of the lateral distribution.

EasyMix – optimised adjustment and evaluation of blended fertilisers

Fertiliser blends consist of individual constituents that have different spreading properties. The EasyMix setting aid checks the compatibility of the individual fertilisers based on the spreading pattern information and provides optimised setting values for your spreader.

All the settings for the spreader can be transferred from the mySpreader App to the AMAZONE fertiliser spreader via a Bluetooth adapter. This saves time and avoids setting errors, whilst, at the same time, being much more convenient.





AMAZONE



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