AMAZONE

ZA-TS

AMAZONE spreaders fulfil all European environmental standards

ZA-TS mounted spreaders

The high output spreaders from AMAZONE

SPEED spreading

"If everything is adjusted correctly one doesn't need to worry about anything."

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

The ZA-TS mounted spreader is available in hopper capacities from 1,400 to 4,200 l and is equipped with the new TS spreading system. The TS spreading system enables working widths of up to 54 m with, simultaneously, excellent border spread patterns making the ISOBUS ZA-TS spreaders one of the absolutely top performing spreaders.

The reliable weighing system, the precise AutoTS and ClickTS border spreading systems, the innovative ArgusTwin and WindControl technologies and also the many other options make this fertiliser spreader a class apart.

ZA-TS

precise – quick - convenient

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

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

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

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

Working widths of up to
54 m

ISOBUS communication

Up to **30 km/h**
operational speed

From **1,400** to **4,200 litres**
8 different hopper sizes

Fertiliser-protecting
agitation
with automatic shut-off

SPEED spreading

Up to **650 kg/min**

Top features:

- Precise spread patterns of up to 54 m working width with up to 128 part-width sections
- Maximum work rates with outputs of 650 kg/min and operational speeds of up to 30 km/h
- The deep-drawn base hopper without edges and corners ensures the lowest residues and easy cleaning
- Precise monitoring and control of the application rate via the 200 Hz weighing technology and tilt sensor
- Soft Ballistic System pro (SBS pro) for an especially gentle handling of fertilisers and less fertiliser damage
- AutoTS and ClickTS, the disc-integrated border spreading system, electric or manual
- Electrically-driven and fertiliser protecting agitation system with automatic shut-off
- Automatic adjustment of the lateral distribution via ArgusTwin – possibly the most comfortable way of spreading fertiliser
- Compact, tight-fitting and operator-friendly roll-over hopper cover or simple swivel hopper cover
- FertiliserService, top-class quality, unique service with more than 25 years' experience

Options:

- Automatic spreading via **ArgusTwin** and **WindControl**
- **200 Hz** weighing system
- Operator-friendly **roll-over hopper cover**
- **Tilt sensor**
- **Low level sensor**
- **ClickTS** or **AutoTS** manual or electric border spreading system
- Swivelling **rolling** and **parking device**

AMAZONE spreaders fulfil all European environmental standards

MORE INFORMATION
www.amazone.net/za-ts

Frames and hoppers

Robustness is the key

ZA-TS 2000 Profis Tronic

Outstanding design: mounted spreader with 4500 kg payload.

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 – PracticeTest "Four fertiliser spreaders in comparison" · 01/2016)

The frames

- **Super frame:** 3,200 kg payload,
  Cat. II linkage dimensions and fixing pins.
- **Ultra frame:** 4,500 kg payload,
  Cat. III linkage dimensions and Cat. II/III fixing pins.

The deep-drawn hopper

The base hopper has a volume of 700 l.
It is deep-pressed without corners, edges and weld seams ensuring the continuous and the even flow of the fertiliser. Also the cleaning of the spreader is made easy thanks to this design.

Benefits of the design

- No corners and edges
- Even and constant flow of the fertiliser
- Less danger of bridging
- Corrosion resistant
- Simple cleaning procedure

- High quality multi-layer paint finish
  1) sheet steel
  2) zinc phosphate (galvanising layer)
  3) KTL priming coat
  4) top coat

The extensions

In two widths and many sizes

The wide option
with a filling width of 2.71 m and
with twin folding ladders

L 2200 extension

The narrow option
with a filling width of 2.22 m

S 1400 extension S 1700 extension

S 2000 extension

S 2600 extension with single folding ladder

L 2700 extension

L 3200 extension

L 4200 extension

Additional hopper extensions
For a subsequent increase in hopper capacity for the ZA-TS, AMAZONE offers for both the S and L base machines a suitable bolt-on extension.

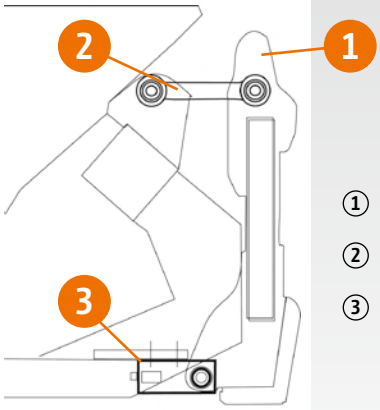
The volume of the extension is 600 l for S hoppers and 800 l for L hoppers.

✔ The direct filling from a tipping trailer or from big bags is no problem. Especially when using large loading shovels the wide L extension is of major benefit.

ZA-TS with L 800 hopper extension

Profis weighing technology –

Who weighs wins!



① weighing frame
② horizontally aligned tie rods
③ weigh cells

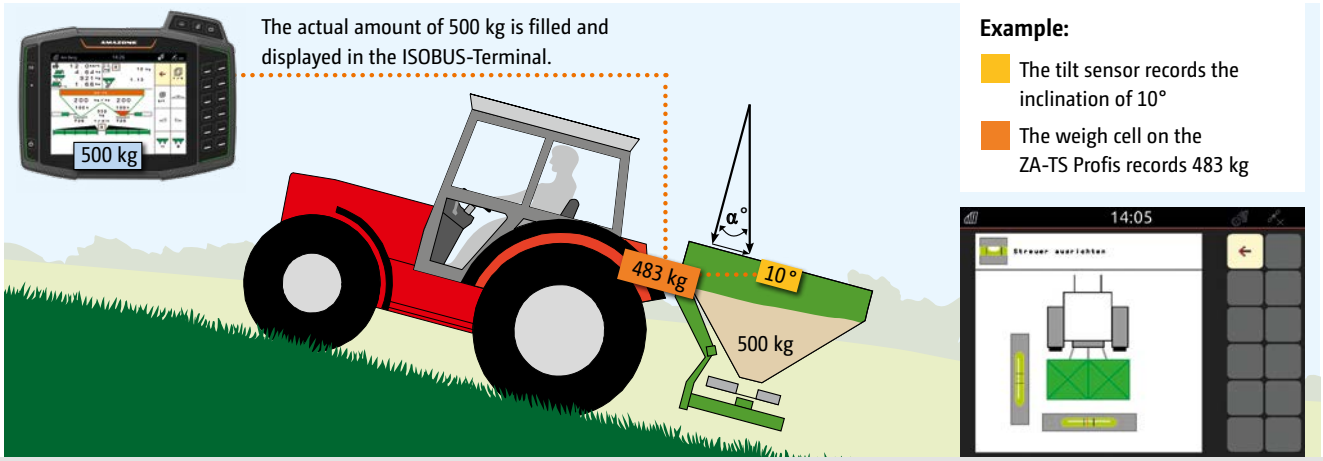
Compact tractor mounting

No calibration: enter the spread rate and drive off! There is nothing simpler.

The weighing system provides controlled convenience and more safety enabling an on-line determination of the different spreading material properties with two 200 Hz weigh cells – with high 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. For a well-balanced nutrient supply, the application rate can be changed via the ISOBUS terminal at the touch of a button.

Tilt sensor for heavily undulating terrain

With the Profis, possible changes in the centre of gravity are taken into account during the measuring procedure whilst on the move via the tilt sensing technology: the two-dimensional tilt sensor which records the angle, both to the front and the rear and to the left and right hand side, corrects the measuring inaccuracies which might arise when driving up and down hill or that might occur when driving on sloping ground.



For simplifying the mounting of the ZA-TS onto the tractor in the horizontal position, the angle of the ZA-TS Profis is comfortably displayed in the ISOBUS terminal.

The spreading disc drive

Mechanical or hydraulic, choose for yourself!

Tronic – mechanical spreading disc drive

With the Tronic version, the spreading discs are driven via the PTO shaft, with the spreader being protected from overload, as standard, via a PTO shaft with friction clutch. 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 across the maximum working width.

With the mechanically driven spreaders, either 8 or 16 part-width sections are switchable, depending on the operator terminal.

Hydro – hydraulic spreading disc drive

The Hydro version makes operation possible irrespective of the tractor's engine revs and with different spreading disc speeds. In this way, fuel is saved and a particularly comfortable and precise spreading is ensured. Also when border spreading, the spreader operates with different spreading disc speeds so that, both in the overlap range and also at the field's border, the best possible lateral distribution can be achieved.

With the hydraulically-driven spreaders, between 8 and 128 part-width sections are switchable, depending on the operator terminal.

"The speed of the discs is always maintained and also, above all, in this way the possibility to set different spreading disc speeds is a poem. One really gets to know, and to evaluate, the benefits offered by the hydraulic system, after having used it"

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

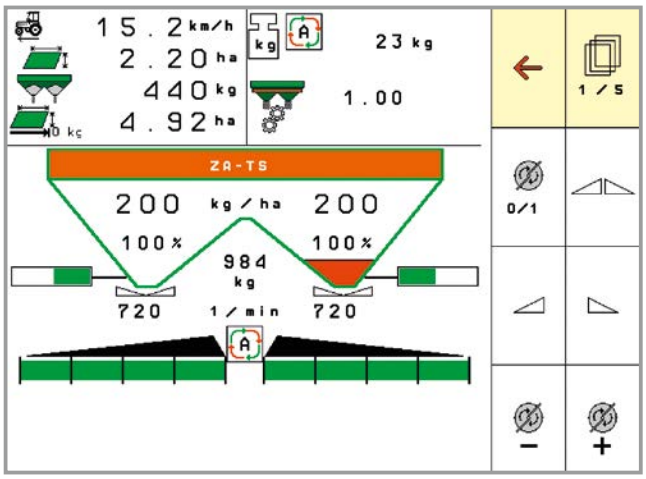
ZA-TS-Tronic –
mechanical spreading disc drive

Reliable in every detail

Low level sensor for the ZA-TS

Low level sensor

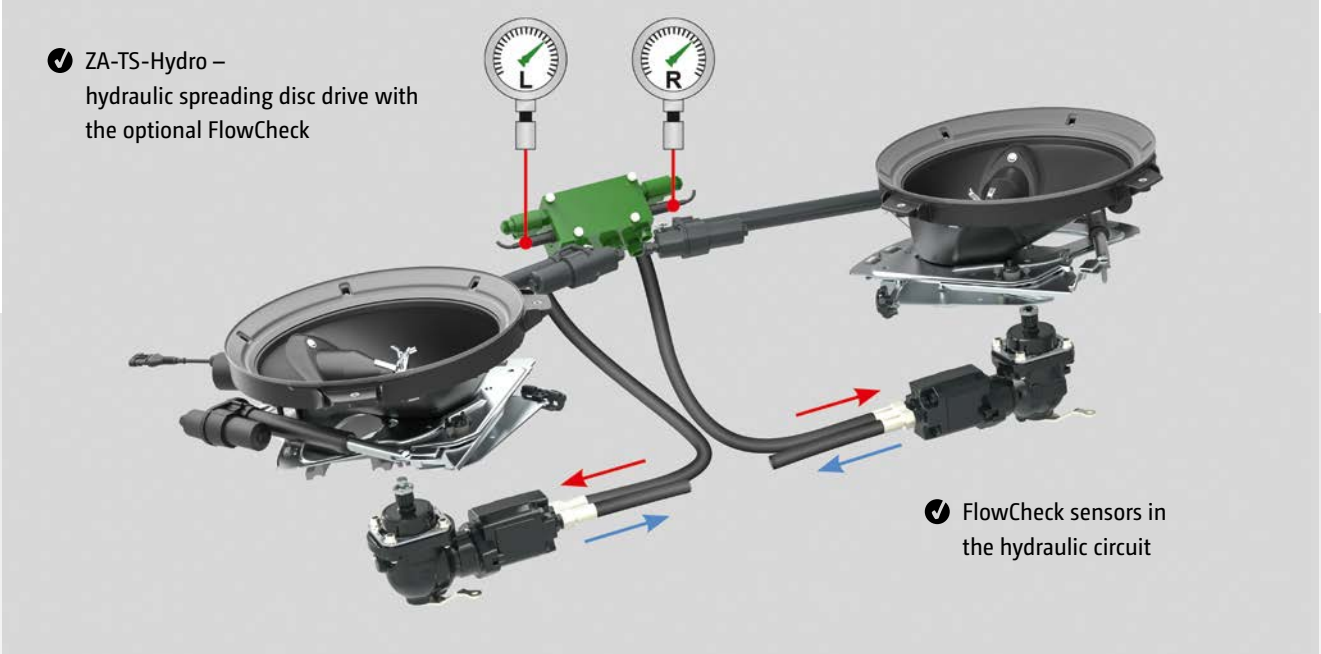
When spreading on slopes or when border spreading it can happen that one hopper tip is emptied quicker than the other. In order to check each outlet apertures individually, AMAZONE therefore additionally offers low level hopper sensors. With a premature emptying of one side, the relevant hopper tip is indicated in red in the operator terminal so that the driver is warned early enough.



The driver receives an early warning, via the terminal, that one hopper tip is almost empty.

FlowCheck – for monitoring the spreader aperture

With FlowCheck, AMAZONE offers a system that continually monitors the shutter apertures against blockage or should they run empty. Whereas FlowCheck ensures that the application rate is the same on both sides or, in case of any deviation, informs the driver of a potential error. The overall application rate is monitored and regulated via the weighing system. In addition, the driver is always informed via the weigh-cells of the actual fill level in the hopper.



ZA-TS-Hydro –
hydraulic spreading disc drive with
the optional FlowCheck

FlowCheck sensors in
the hydraulic circuit

Soft Ballistic System pro

For an even gentler fertiliser treatment

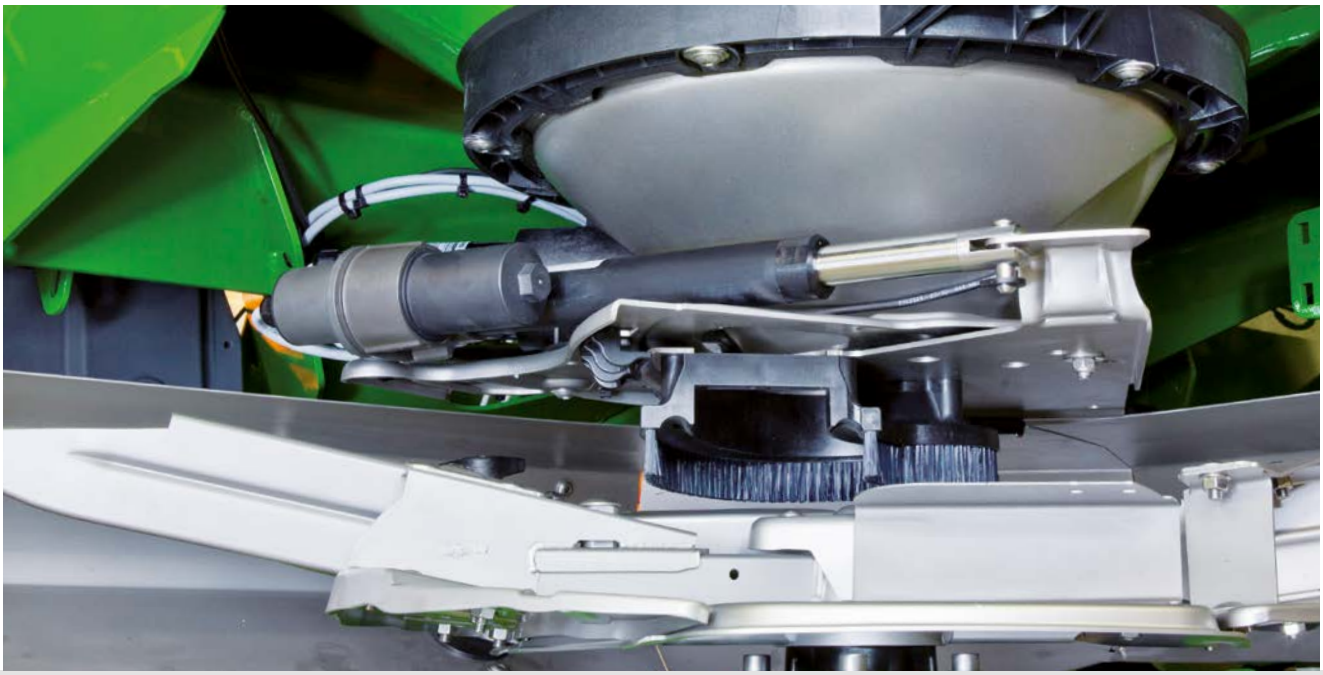
SBS pro
Soft Ballistic System

4 decisive advantages with SBS pro

Mineral fertilisers require an especially gentle treatment to ensure a precise distribution and accurate transport to the crop. Fertiliser which has been already damaged in the spreader can no longer be reliably distributed.

As a safety feature, AMAZONE Soft Ballistic System pro is integrated as standard. This means that the agitator, metering components and spreading discs are all optimally matched thus protecting the fertiliser and ensuring better yields.

1. Gentle guidance
The electrically driven star agitators in the hopper bottoms ensure an even fertiliser delivery onto the spreading discs. The slowly rotating, star shaped segments of the agitator evenly deliver the fertiliser to the relevant outlet opening. When the delivery system is adjusted, the agitator star rotates as well so that it is always perfectly positioned above the aperture. The agitator switches off automatically when the shutter slide is closed.



Spreading system with delivery system, brush kit and spreading disc

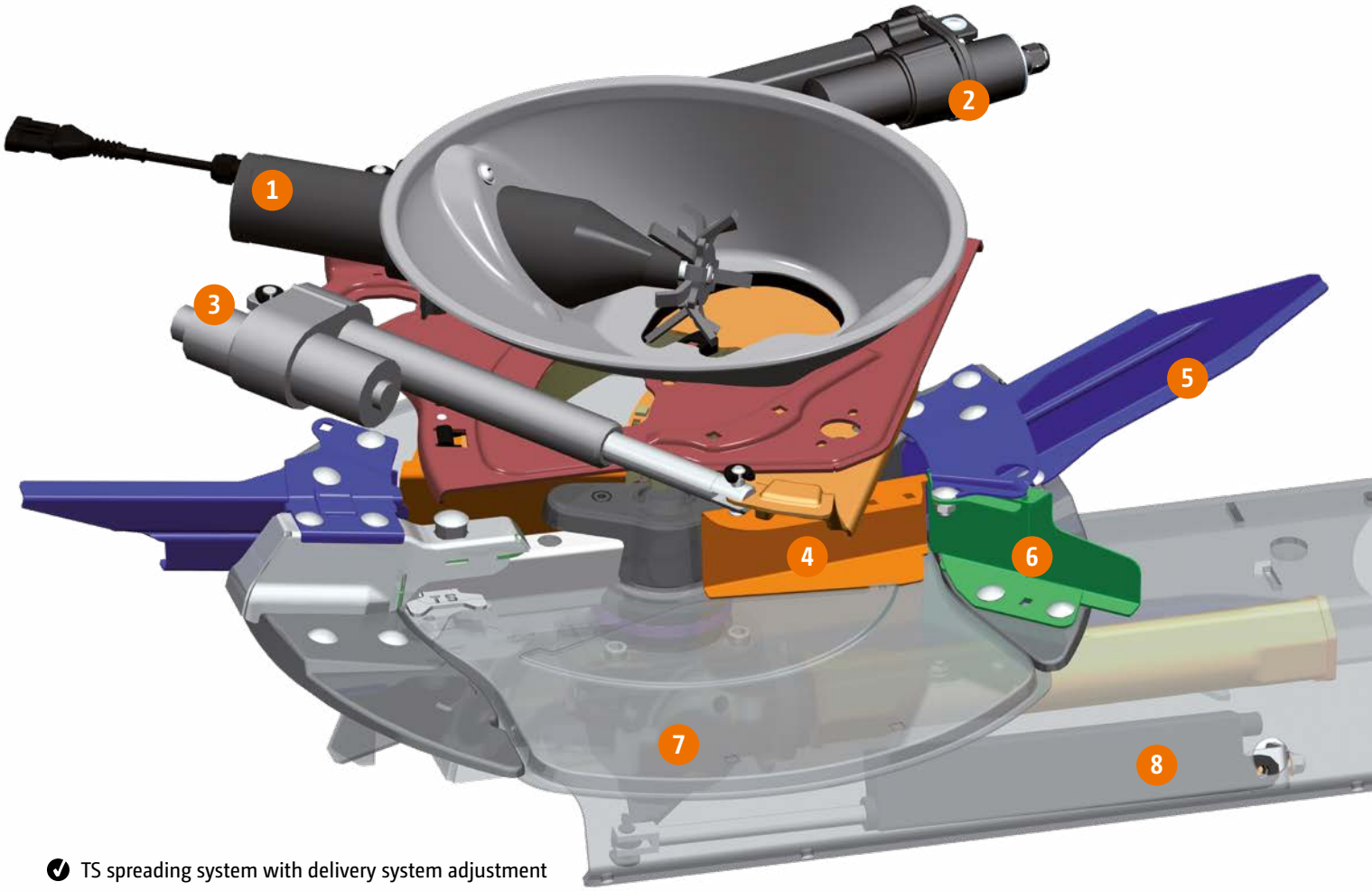
2. Gentle delivery
Due to the delivery system, adjustment to the throwing width and throwing direction can be regulated. In addition, the working width can be adjusted each side individually by changing the disc speed. The fertiliser is fed on centrally at a low peripheral speed resulting in little fertiliser damage. The concentric delivery system adjustment results always in a gentle treatment of the fertiliser.

3. Gentle acceleration
With a standard disc speed from 600 rpm up to 900 rpm, the AMAZONE's Soft Ballistic System pro gently accelerates the fertiliser. Even fertiliser types with minimal breaking strength maintain their spreading properties and provide a clean, even spread pattern.

4. Gentle ejection
With the AMAZONE Soft Ballistic System pro, as little energy as possible is given to the fertiliser for an optimum trajectory and a precise spread pattern. So, the spreading vanes are optimally adjusted to a laid-back position.

TS spreading system

Perfection in every component, like clockwork



✔ TS spreading system with delivery system adjustment

Composition of the TS spreading system

1) electric agitator drive
2) electric setting motor for rotating the delivery systems
3) electric setting motor for the fertiliser metering
4) delivery vane
5) boundary spreading vane
6) normal spreading vane
7) AutoTS actuation
8) electric setting motor for AutoTS including function check

Characteristics of the TS spreading system

- ✔ High throwing width, still double-overlapping even at 36 m
- ✔ Integrated boundary spreading system
- ✔ High application rates (up to 10.8 kg/sec or 650 kg/min)

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

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

The agitator – soft-handling and gentle

The basic function of the agitator is to convey the fertiliser flow actively towards the outlet aperture so that a constant rate of fertiliser can be applied. Fertiliser lumps, which manage to pass the sieve, are, especially at low application rates, actively broken up via the star agitator which runs in the hopper bottom. If foreign objects reach the hopper tip and the agitator is subject to an overload, the relevant electric motor automatically reverses in combination with the relevant shutter slide and remedies the disturbance autonomously. The perfect teamwork of agitator and shutter slides becomes obvious on headlands or when spreading in wedges. As soon as one metering aperture is completely closed, the agitator above stops automatically. In this way the valuable fertiliser is protected from being ground up.

The benefits of electric agitation

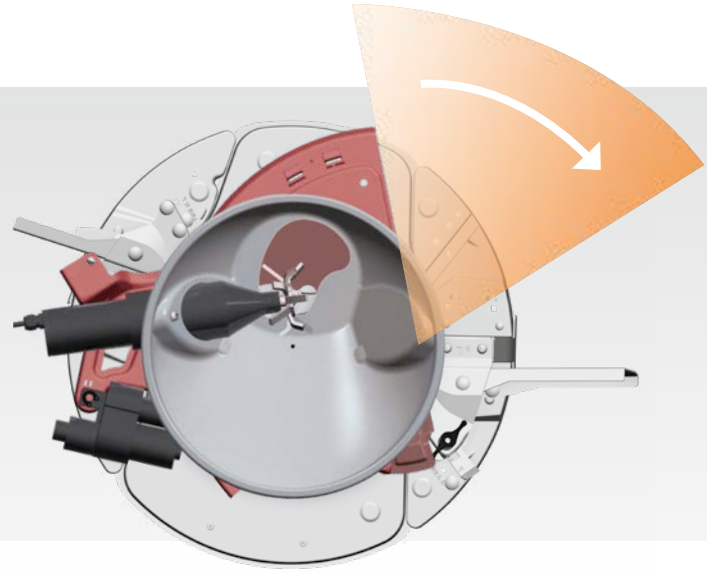
- two slow-running, fertiliser saving agitators; turning at just 60 rpm
- which switch off automatically as soon as the shutter slide is closed, also just to the one side and independently of each other
- that reverse automatically when blocked by a foreign object
- active delivery of the fertiliser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

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

(profi – Practice Test "Four fertiliser spreaders in comparison" · 01/2016)

The AMAZONE delivery system

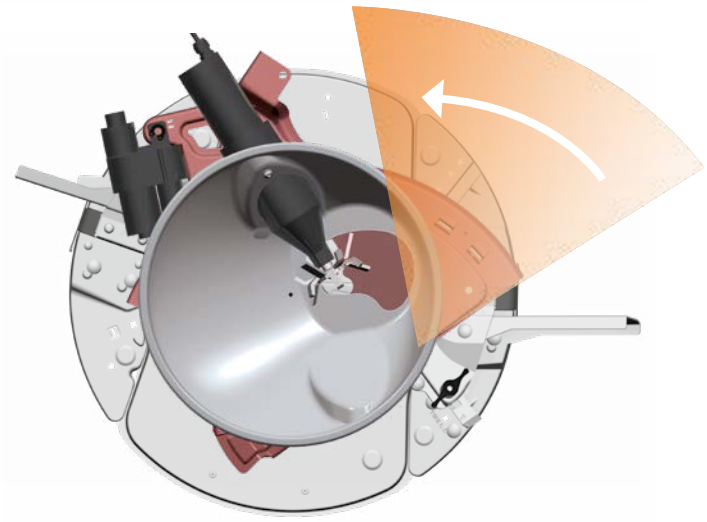
For first-class spreading results



Concentric delivery system adjustment

Via the delivery system, the fertiliser is gently fed-on extremely close to the centre of the spreading disc. At this point, close to the centre of the disc; the peripheral speed is low resulting in a particularly gentle treatment of the fertiliser. For setting the spreading unit to different working widths and types of fertiliser, the delivery system is swivelled (concentrically) around the centre of the discs. The distance between the feed-on point of the fertiliser and the centre of the disc always remains the same.

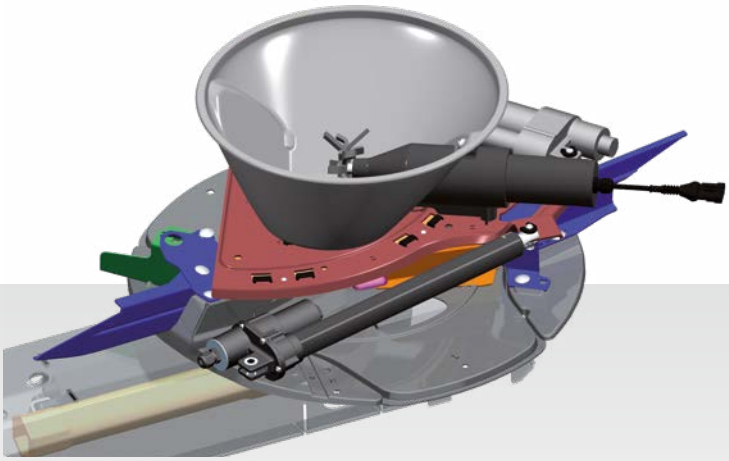
The swivelling of the delivery system provides you with a wide range of possible working widths; just three sets of spreading vanes cover working widths from 15 m to 54 m.



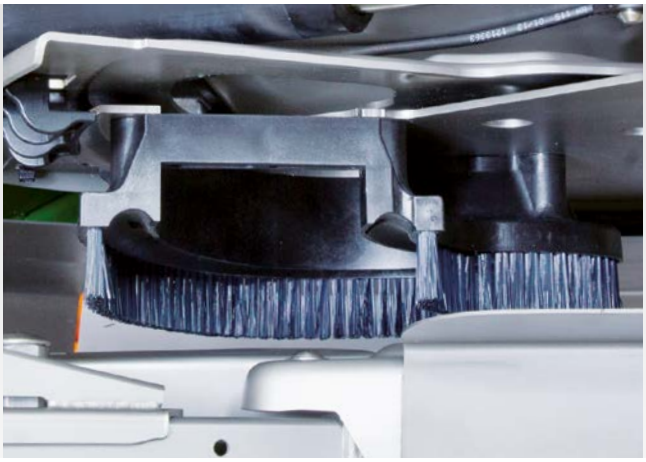
- The delivery system swivels around the centre of the disc

- Every TS spreading unit with electric delivery system adjustment is Argus ready

- Mechanical delivery system adjustment



- Electrical delivery system adjustment



Brush unit for a clean delivery onto the spreading discs

Ultra quick and precise! Electric setting motors

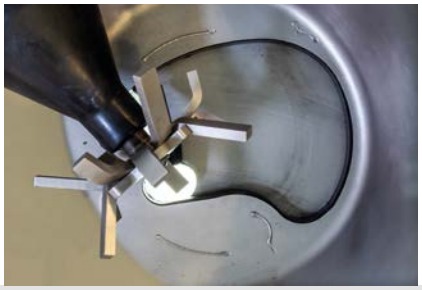
A spreader which, due to the high application rates and operational speeds possible, explores new dimensions in terms of work rates and which, of course, needs to perform extremely precisely at the same time, requires setting motors that function extremely quickly and exactly. Especially in applications, such as the automatic on/off switching at the headland or in wedges, spreading using application maps or with the continuous on-board monitoring (ArgusTwin and WindControl), the setting motors ensure the highest level demands are met.

Clean transfer – The brush unit

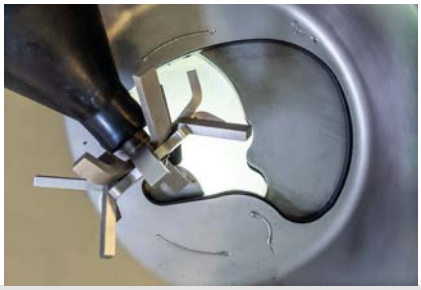
The bristles of the brushes which are fitted directly to the outlet apertures reach to the upper edge of the spreading vanes so that the fertiliser is safely delivered onto the disc.

Quantity effect-free metering aperture

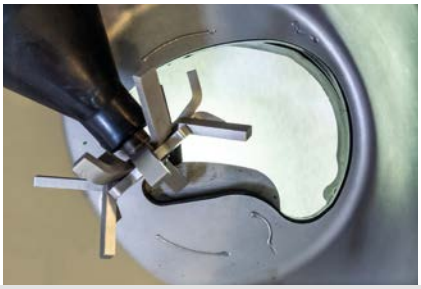
If it is intended to spread a constant application rate it is necessary to match the size of the metering aperture to the prevailing operational speed. Thanks to the shutter slide, this task is fulfilled very quickly and sensitively. Due to the kidney-shaped design of the metering aperture, the spread pattern remains unchanged and precise, even at varying operational speeds so that the position of the delivery system does not require any adjustment.



Stage 1: Hopper aperture slightly open



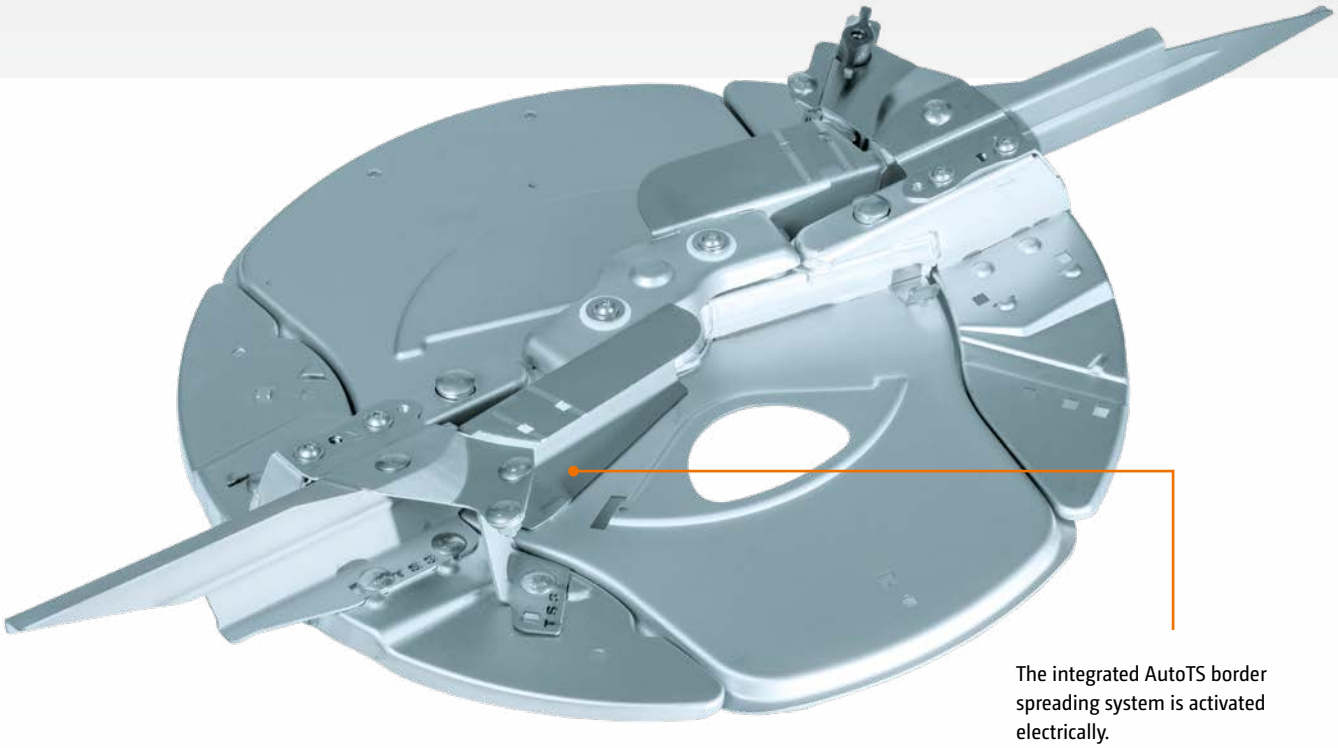
Stage 2: Hopper aperture half open



Stage 3: Hopper aperture wide open

TS spreading discs

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



The integrated AutoTS border spreading system is activated electrically.

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

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

The vane change system enables the quick and easy change of just the spreading vane tips. 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-coated spreading vane

The spreading vanes are coated with a special long-lasting anti-wear protection. This is made possible by an especially hard structure to the metal. This finish is produced through a high-speed flame heating process that develops an ultra-hard coating to protect the spreading vanes against abrasive wear. Consequently, the result is a three-fold increase in lifespan.

Spreading vane sets

- TS 1 = 15 m – max. 24 m
- TS 2 = 21 m – max. 36 m
- TS 3 = 24 m – max. 54 m

"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)

Optimised spread pattern

Normal spreading

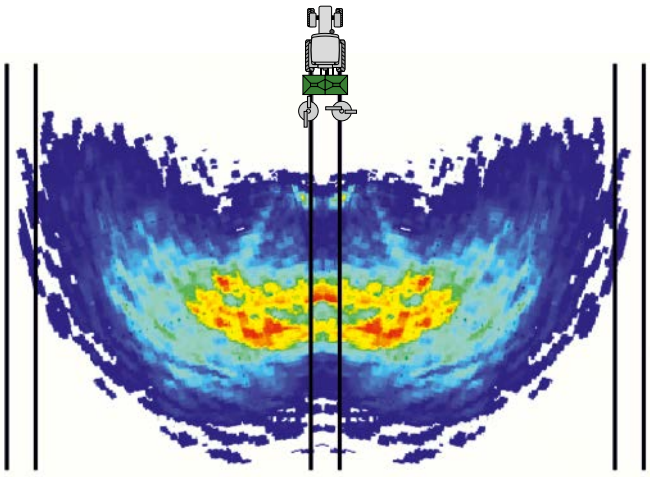
Via the adjustment of the delivery system, the feed-on point of the spreading material on to the spreading disc is changed and thus the spreading width and the lateral distribution are controlled. In addition, the working width can be set even more individually by changing the disc speed.

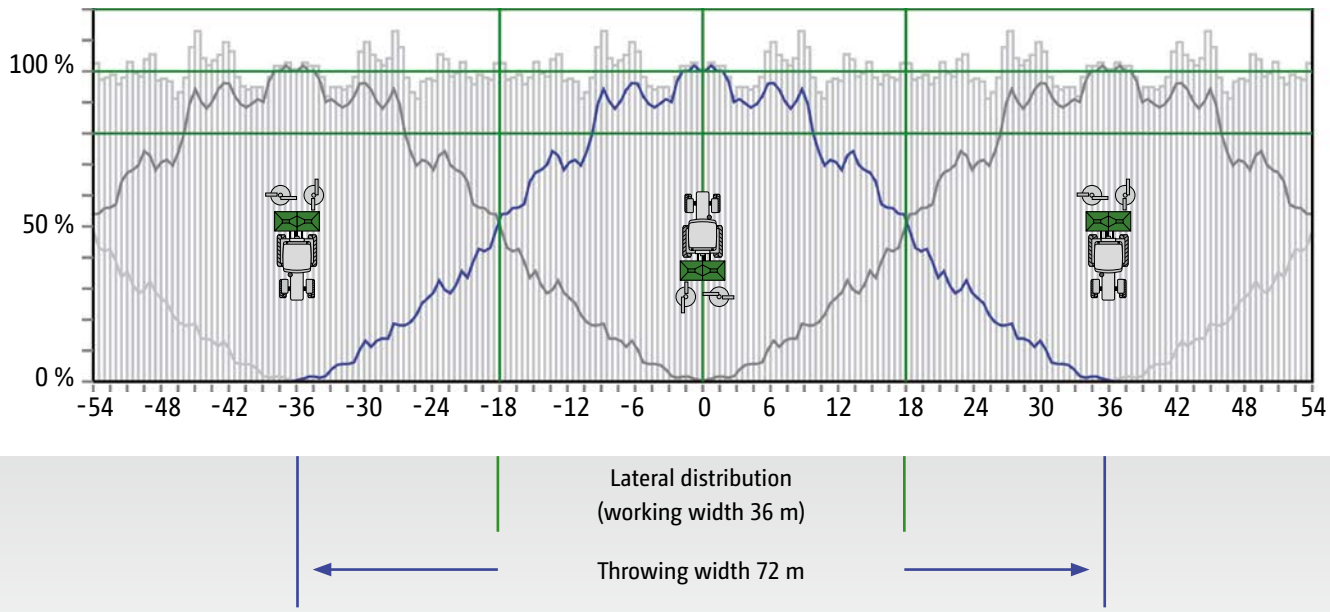
Three-dimensional spread pattern

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 the external influences such as a side wind, change in topography, humidity and changing fertiliser qualities.

Non-sensitive spread pattern via the multi-sectional spread fan

The specific shape and angling of the spreading vanes result in a multi-spread fan from the TS spreader unit. This means that the long and short spreading vanes do not influence the spread pattern to either side and an optimum trajectory is maintained.





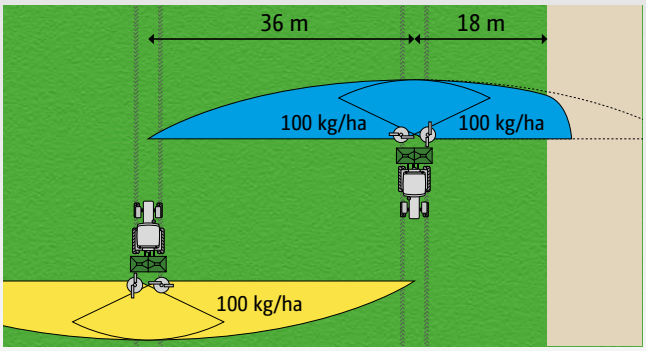
Border spreading systems from AMAZONE

Complete control. At any time!

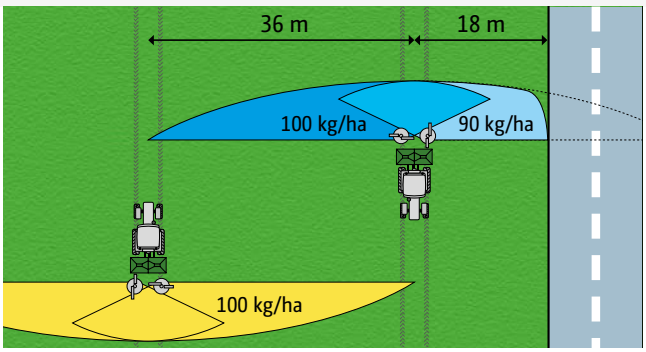
- Watercourse spreading: highest distribution accuracy up to 1 m towards the field's border

Effective and precise – spreading only where the fertiliser is of benefit to your plants

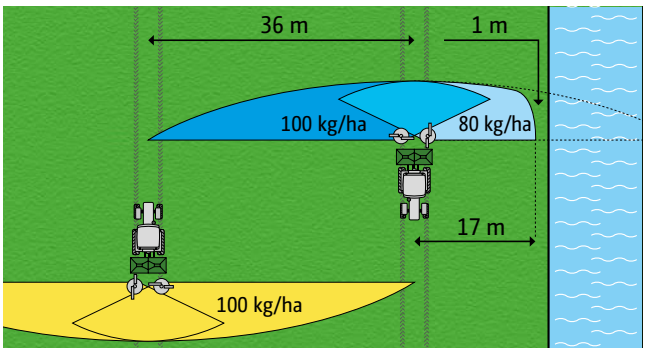
Side spreading (yield oriented setting)
The neighbouring field is an area that is used agriculturally. In this case it is tolerable for a small quantity of fertiliser to be thrown over the border of the field. The fertiliser distribution inside the field boundary is still 80 % of the desired application rate at the edge of the field.



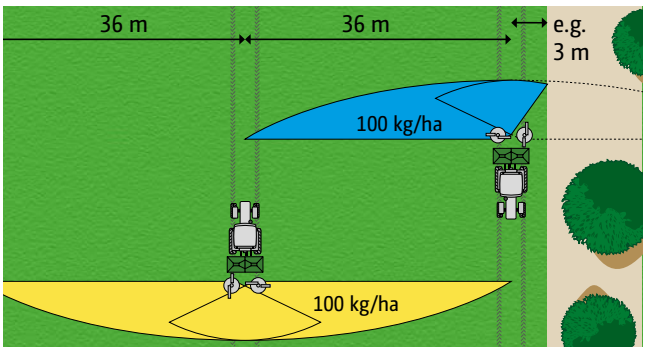
Boundary spreading (environmentally oriented setting)
If the field is adjacent to a road or cycle path, no fertiliser must be thrown beyond the border of the field. The spread rate must be reduced on the border side so that no over-fertilisation occurs within the boundary of the field. A small amount of under-fertilisation occurs up to the edge of the field. The border spreading procedure complies with fertiliser application legislation requirements.



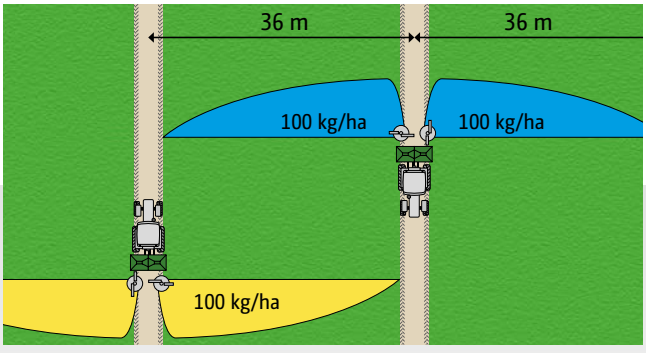
Water course spreading (environmentally oriented setting)
In case of a water course right against the side of the field, the fertiliser decree requires, with a boundary spreading system, a distance of one metre left fertiliser-free around the border and, without a boundary spreading system, as much as three metres. In order to avoid the over-fertilisation inside the field, the spread rate has to be reduced on the field's border.



Border spreading with the border spread deflector
If the first tramline is situated at the field's edge, border spreading (environmentally-orientated adjustment) is then achieved by the half-side shut-off of the spread fan. No fertiliser is thrown beyond the field's border and, inside the field, optimum fertilisation is maintained.

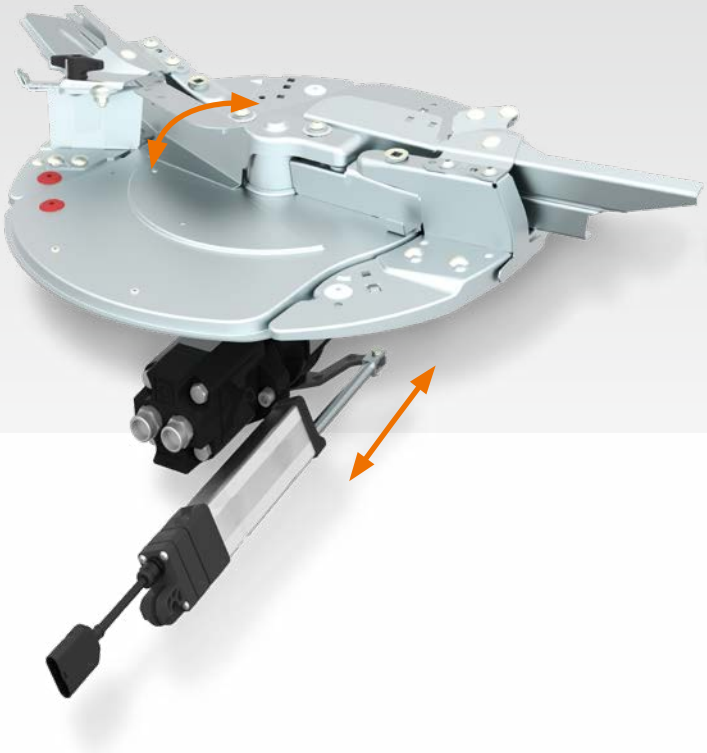


Bed spreading with bed spreading deflector to both sides
For spreading specialist crops in beds to either side of the tractor AMAZONE offers the bed spreading deflector. It keeps the track virtually free from fertiliser.



AutoTS + ClickTS

The disc integrated boundary spreading systems



AutoTS – adjustment of the delivery vane for boundary spreading

AutoTS – comfortable and precise Lateral distribution right up to the field's border

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

AutoTS - the ingenious principle

A setting motor twists the delivery 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 shorter vane, the fertiliser is thrown over a significant shorter distance without affecting it mechanically.

"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 border."

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

AutoTS – adjustment for normal spreading

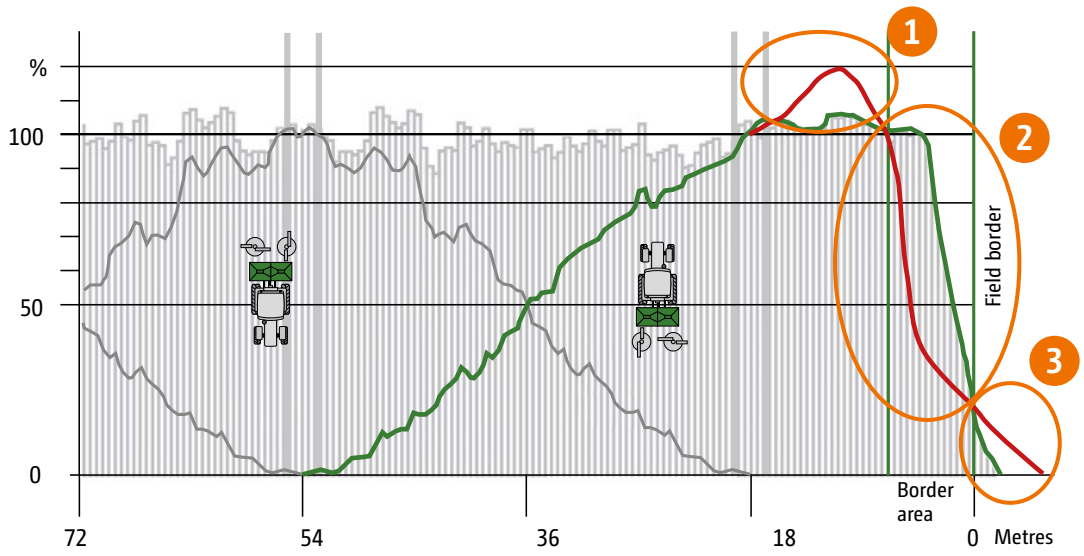
AutoTS – adjustment of the delivery vane for boundary spreading

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

Increased yield on the border thanks to AutoTS and ClickTS

The AutoTS and ClickTS border spreading systems generate a steep border spread pattern and thus the ability to provide the optimum growth conditions close to the field's border. Compared to other border spreading systems, a significant increase in yield is possible.

The AutoTS spreading system makes use of an automated rate reduction when boundary spreading with the spread rate setting in freely-selectable percentage steps. As the two spreading discs can be operated independently from one another, the change to one or both sides can be adjusted.



	AutoTS border spreading system	Conventional border spreading systems
1	Due to the shorter spreading vane, the fertiliser is limited in its spreading width.	The mechanical deflection of the fertiliser causes damage to the granules which then drop next to the tramline.
2	The fertiliser is undamaged and optimally distributed right up to the field border.	This amount of damaged fertiliser is then missing from the border area resulting in under-fertilisation.
3	Due to the reduced throwing speed of the fertiliser, only a few granules fall beyond the field edge.	Not all the fertiliser granules are mechanically deflected so that some are clearly spread beyond the field's border.

Border and bed spread deflectors

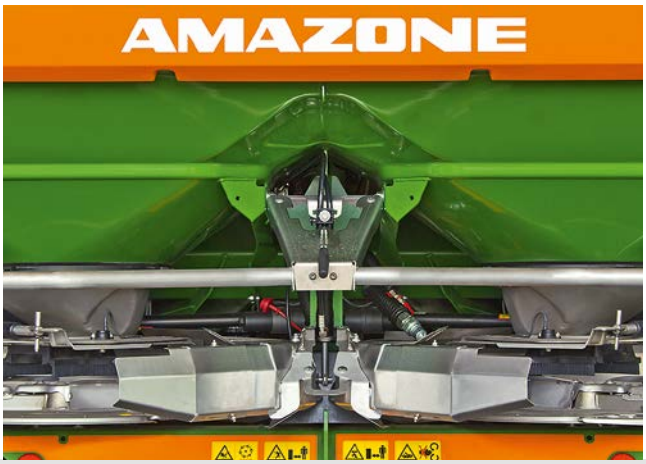
Border spread deflector

In the case of operation to spread directly from the field side into the inner field, the border spread deflector is available. When the border spread deflector is swivelled into work then spreading is carried out only with the field side spreading disc so that any fertiliser is deflected in such a way that it is thrown into the field and only behind the tractor, however, and not beyond the border. The border spread deflector can be utilised on both the left and right hand side. The actuation of the border spread deflector is carried out manually or, as option, hydraulically from the tractor seat. When swivelled out of work, the border spread deflector has no influence to the normal spreading.

Bed spreading deflector

For spreading beds to either side of the tractor, the bed spreading deflector provides the optimum fertiliser distribution without spreading any material behind the tractor. For optimising the fertiliser distribution, the telescopic end pieces on the bed spreading deflector can be adjusted to suit, depending on working width and fertiliser type. The bed spreading deflector can be utilised to either one, or both sides and actuation of the bed spreading deflector is carried out, similar to when border spreading, either manually or, as an option, hydraulically from the tractor seat. If the bed spreading deflector is swivelled upwards then again the spreader can be utilised as usual for arable farming.

Border spread deflector swivelled upwards



Bed spreading deflector swivelled downwards on both sides with telescopic end pieces.

Front-Rear duo

A new level of precision

Front spreader with suitable lighting system for travel on public roads

Two in one go

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.

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)

Comfortable and reliable

To enable operation of a "reversed" fertiliser spreader on the front of the tractor, an intelligent software package is utilised which reliably mirrors the spreading function and required working without any rethinking. In this way, even normal, side, border and watercourse spreading can be actuated on the correct side without any problems. Even the optimum switching points for the automatic on/off switching on the headland is matched.

Precise spreading of two different fertiliser types

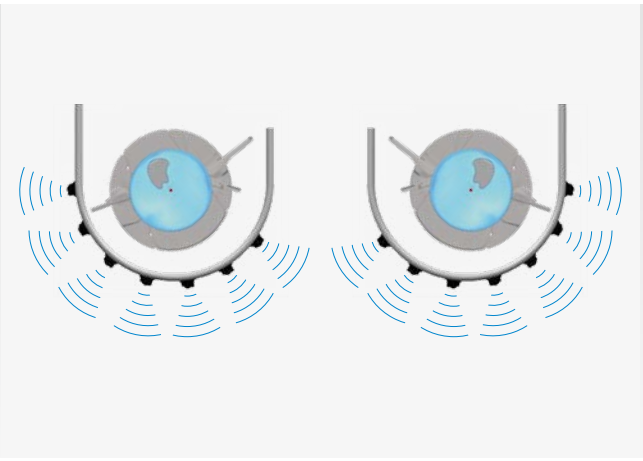
ArgusTwin

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

Argus

"ArgusTwin optimised the lateral distribution within seconds."
(profi – Test report Amazone ArgusTwin · 01/2016)

ArgusTwin is completely integrated into the overall dimensions of the ZA-TS



Independent monitoring of both sides of the spread fan via 14 radar sensors

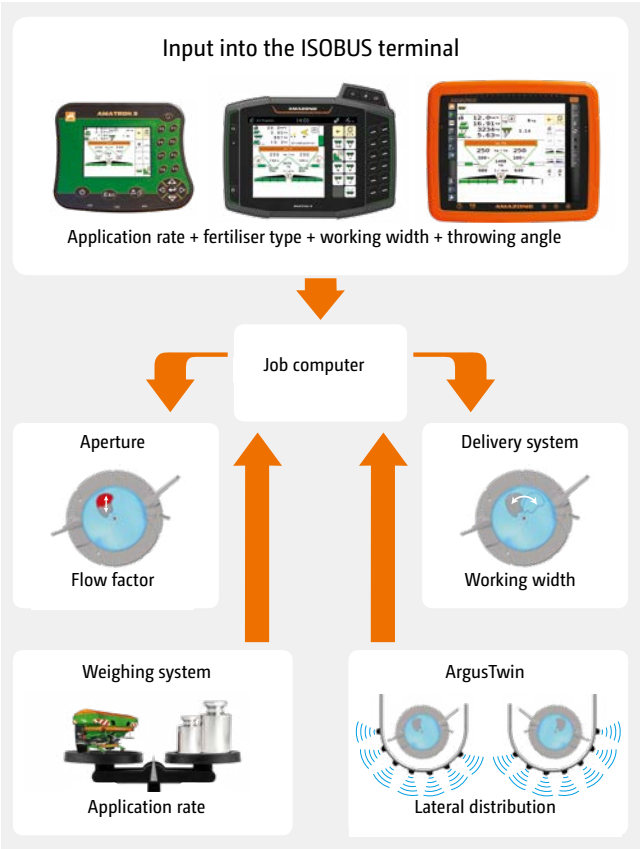
Automatic adjustment to the optimum lateral distribution

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.

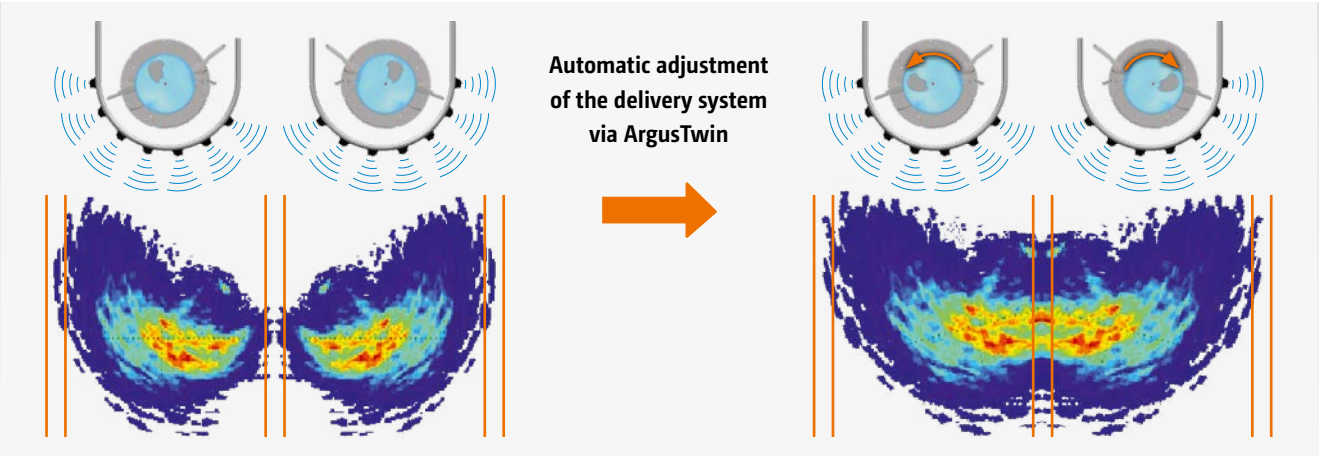
The Argus system, which checks the spread fan and automatically regulates the lateral distribution, is based on radar technology that is independent of dust and pollution and thus provides reliable results in practice. ArgusTwin constantly monitors, via radar sensors mounted on both the sides of the spreader, the left and right hand spread fans simultaneously and re-adjusts 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 for 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 concept of the fertiliser spreader with ArgusTwin and weighing system



The problem in practice – poor lateral distribution, for instance, due to a change in fertiliser properties

The perfect lateral distribution gives evenly established crops even with changing fertiliser qualities and properties

The system is immediately live and operates even when border spreading and if part-width sections are switched off and on. In hilly terrain, Argus even provides slope compensation of the spread pattern via the automatic readjustment of the delivery position of the fertiliser.

While Argus optimises the lateral distribution, the optional weighing system ensures the maintenance of the application rate.

Top features of ArgusTwin:

- The system is ready for operation immediately
- Positioned directly above the spreading discs
  - the system is located safely between the outer guard tube and the base hopper
  - therefore no areas where moisture, dirt or fertiliser may deposit
- Constant on-line monitoring of both spread fans
- Maintains an optimum lateral distribution of the fertiliser even with changeable fertiliser quality
  - Basis for optimum crop management
  - More effective use of the fertiliser
- The system is also active when border spreading or if a part-width section is switched on or off
- Automatic slope compensation of the spread pattern by readjustment of the delivery system position
- Rigidly attached to the spreader: no moving parts – completely maintenance-friendly and free of wear

WindControl

for areas where wind is always a problem

Both the wind speed and wind direction are displayed in the terminal

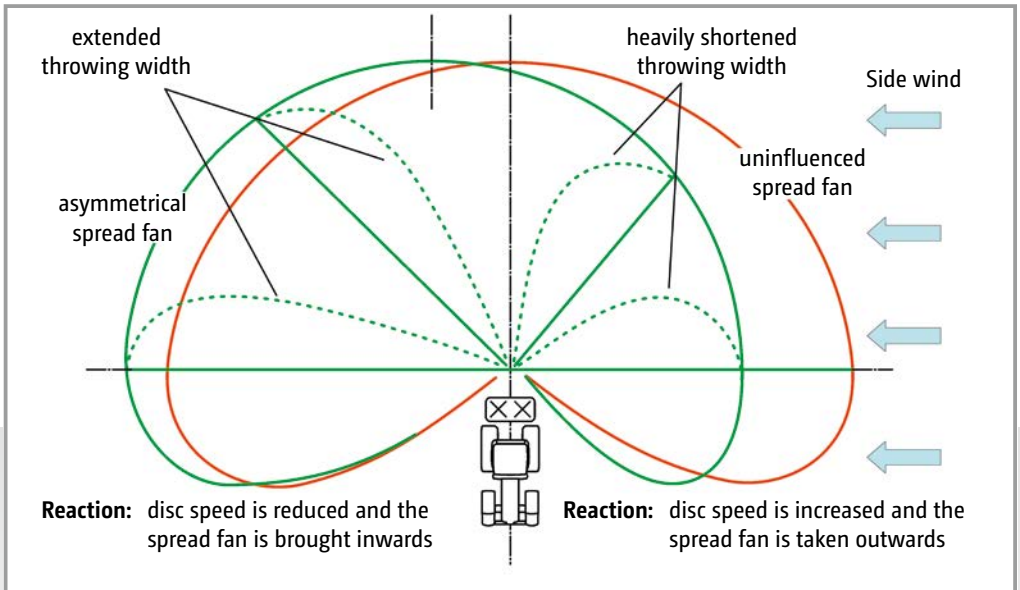
Optimal distribution

In areas that are particularly windy, AMAZONE now offers WindControl (in accordance with Prof. Dr. Karl Wild, HTW Dresden) as a supplement to the ArgusTwin system. Via WindControl, the influence of wind on the spread pattern can also be constantly monitored and automatically compensated for.

Mounted on the machine, a high frequency measuring wind sensor, registers both the wind speed and also the direction of wind. According to this data, the job computer then calculates, in conjunction with the information from ArgusTwin, any new settings for the delivery system and the spreading disc speed which are then automatically acted upon. For side winds, the disc speed to the windward side is increased and the delivery system advanced whereas, at the same time, the disc speed on the leeward side is reduced and the delivery system retarded.

With the aid of WindControl, larger time windows are created for spreading under the 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, in heavy winds, when the system is no longer able to compensate for, or when the wind gusts are too frequent, WindControl sends an automatic alarm to the driver.

Wind sensor



Automatic compensation for wind effect

Equipment

Perfect down to the last detail

Position indicator for the bed spread deflector

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 lighting equipment ensure more recognisability in road traffic.

Position indicator for the border spreading systems

For checking the position of the border spreading system from the tractor cab, AMAZONE offers a specific position indicator. Via the mechanical display which is in sight to the front of the fertiliser spreader, the position can be comfortably monitored during the spreading procedure.

Roll-over hopper cover

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

"The roll-over cover is superb: it closes cleanly to, keeps the water out during a shower and does not interfere with the filling operation when open."

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

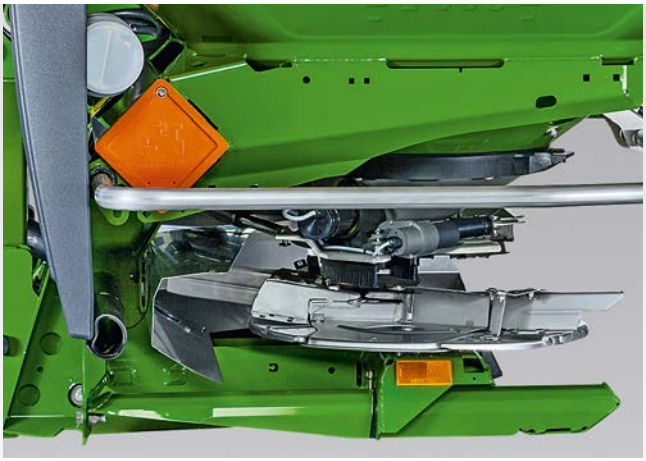
Swivel hopper cover

As a less expensive alternative to the roll-over hopper cover, a swivel hopper cover with large sight window can be chosen for the S-extensions.

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

"The robust (and steered at the front) rollers with brakes are swivelled in or out with a bold kick. There is no better way."

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



Parking set with integrated stands

Swivel rolling and parking device

The swivel rolling and parking device facilitates the easy mounting on and off the tractor and manoeuvring in the yard. The castor wheels are quickly folded in and out and optimally protected from dirt. They are permanently mounted on the spreader – so no need to search for them between one location and another.

Parking stands

As an alternative to the swivel rolling and parking device, a cheaper parking set with integrated stands is also available.

Calibration kit

For the comfortable spread rate check without removal of the spreading disc, the lateral calibration kit, left or right hand side, is available.

Ladders that ensure a 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.

Calibration kit

"Even with the ladder Amazone sets the standard: fitted to both sides, the steps (from stainless steel!) are well integrated and do not protrude."

(profi – Practice Test "Four fertiliser spreaders in comparison" · 01/2016)

ZA-TS model overview

Always the right choice

With the tractor ISOBUS base equipment, all the benefits of the ZA-TS can be utilised even on older tractors.

One spreader – so many possibilities

Decide for yourself!

	ZA-TS Tronic Manual delivery system	**ZA-TS Tronic** Electric delivery system	**ZA-TS Profis Tronic** Manual delivery system	**ZA-TS Profis Tronic** Electric delivery system	**ZA-TS Profis Hydro** Manual delivery system	**ZA-TS Profis Hydro** Electric delivery system
Electric shutter slide actuation	X	X	X	X	X	X
Electric agitator	X	X	X	X	X	X
Forward speed-dependent spread rate regulation	X	X	X	X	X	X
Low hopper level sensors (optional)	X	X	X	X	X	X
Border spreading via ClickTS (alternative equipment level)	X	X	X	X	X	X
Border spreading AutoTS (alternative equipment level)	X	X	X	X	X	X
Weighing technology			X	X	X	X
On-line spread rate calibration			X	X	X	X
Tilt sensors (optional)			X	X	X	X
ArgusTwin (optional)		X		X		X
WindControl (optional)						X
FlowCheck (optional)						X
Maximum no. of part-width sections	8	16	8	16	128	128
GPS-Switch ready	X	X	X	X	X	X
Necessary terminal	ISOBUS terminal	ISOBUS terminal	ISOBUS terminal	ISOBUS terminal	ISOBUS terminal	ISOBUS terminal

ISOBUS –

Machine actuation in the digital age

MEMBER OF AEF

One language, many benefits!

With every ISOBUS-compatible machine, AMAZONE offers state-of-the-art technology from the digital future with virtually unlimited possibilities. To what extent you make use of that potential lies solely in your own hands. It doesn't matter whether for this purpose you utilise an operator terminal from AMAZONE or use an existing ISOBUS terminal. ISOBUS is a worldwide recognised communication standard between, on the one hand, operator terminal, tractor and connected implements and, on the other hand, agricultural office software.

Operation with any ISOBUS terminal

Which means that ISOBUS enables you to take control of all your ISOBUS compatible equipment. You just connect the machine with the relevant ISOBUS terminal and immediately the normal operator interface is displayed on the monitor screen in your tractor cab.

Benefits of ISOBUS:

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

AMAZONE – more than just ISOBUS

Improved control, more yield! Precision Farming 4.0

Our competence in electronics

To increase the operational comfort, AMAZONE implements and operator terminals feature a function scope beyond ISOBUS standards.

The benefits of more than just ISOBUS:

- Highest compatibility and safety functionality of your ISOBUS equipment
- No additional modules on the machine side. All ISOBUS machinery from AMAZONE is already equipped as standard with the necessary ISOBUS functions
- MiniView display with all AMAZONE terminals and additional ISOBUS terminals. See, for instance, the machine data in the GPS view
- The possibility using the tractor terminal or in a twin terminal solution to separate the functionalities of tractor and connected implement
- Unique operation concept. Freely-configurable displays and individual user interfaces in the operator terminal
- Up to 3 user profiles are possible. Establish for every driver or operation an individual user profile!
- Freely-configurable machine operation as, for instance, the folding procedure of the booms of your AMAZONE crop protection sprayer
- Intelligent tractor-ECU function evaluation. Automatic motion sequence detection depending on the ISOBUS tractor, such as, for example the automatic switching on of the work lights or the locking of a steering axle when reversing.
- Integrated TaskController data logger. As a matter of principle, every ISOBUS telemetry solution is possible (for example, TONI telemetry from CLAAS).
- Freely-configurable part-width sections

Discover every possibility with AMAZONE

Variable rate spreading for part-area site specific application

Easy and comfortable!

Especially in operation, no matter whether via an operator terminal from AMAZONE or with your tractor terminal, one can experience how practically-oriented the machine software has been developed. In this way, for instance, a simple and clear division of the field menu and the setting menu provides a very easy and intuitive operation. Understandable operational symbols ensure clearness and a safe functionality.

Task Controller (job management)

Task Controller (TC) allows the data registration of the machine and the data exchange between machine and the farm management information system, using the standardised ISO-XML format. In this way, jobs can be comfortably imported into the terminal or the finished documentation can be exported after work. Both, the total values of the machine (TC.BAS) and also the location specific data (TC-GEO) can be saved. In addition to job management and to the documentation, Task-Controller can also be used to process application maps in an ISO-XML file format.

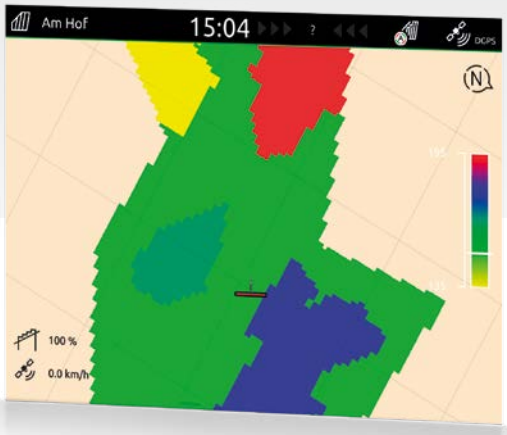
As standard, Task Controller is included in AmaTron 3 and in AmaPad. For AmaTron 4 it can be ordered via the “GPS-Maps&Doc” software pack.

- Creation or loading of jobs
- Processing jobs
- Documentation of the finished work
- Processing of application maps in an ISO-XML format

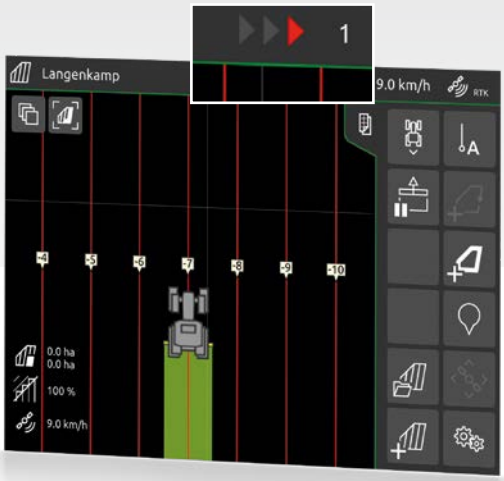
Clear distinction between field menu and setting menu

“The ISOBUS control is an in-house development from AMAZONE and has been designed clearly and is easily understandable. If desired, some keys can be freely allocated. Also the multi-function display can be freely selected.”

(agrarheute magazine– “Test report Centaya seed drill“· 06/2018)



GPS-Maps – part-area, site specific application



GPS-Track – your parallel driving aid in the field

GPS-Maps

GPS-Maps enables uncomplicated part-area site specific management because this software module provides easy use of application maps in a shape file format. Here, either the required rate of the actual material to be spread or also the required active ingredient rate can be directly processed. This level of functionality is included with AmaPad as standard and can be added for AmaTron 3 and AmaTron 4 via the software packs “GPS-Maps” and “GPS-Maps&Doc”.

- GPS-Maps is an intuitive system to process application maps
- Automatic part-area site specific regulation of the application rate
- Optimum crop management via need-oriented application

GPS-Track

The GPS-Track parallel driving aid proves to be an enormous benefit when it comes to orientation in the field, especially also on grass or other areas without tramlines. It features several track modes, such as A-.B lines and Contour lines. The track lines are clearly numbered. Any deviation from the ideal line is plotted in the display by an integrated light bar. Thanks to the clear steering recommendations with exact tramline distances you always remain on track!

- With AmaPad, the GPS-Track function is already included as standard
- With AmaTron 4 and AmaPad, the light bar is, as standard, integrated already in the status bar

Everything from a single source!

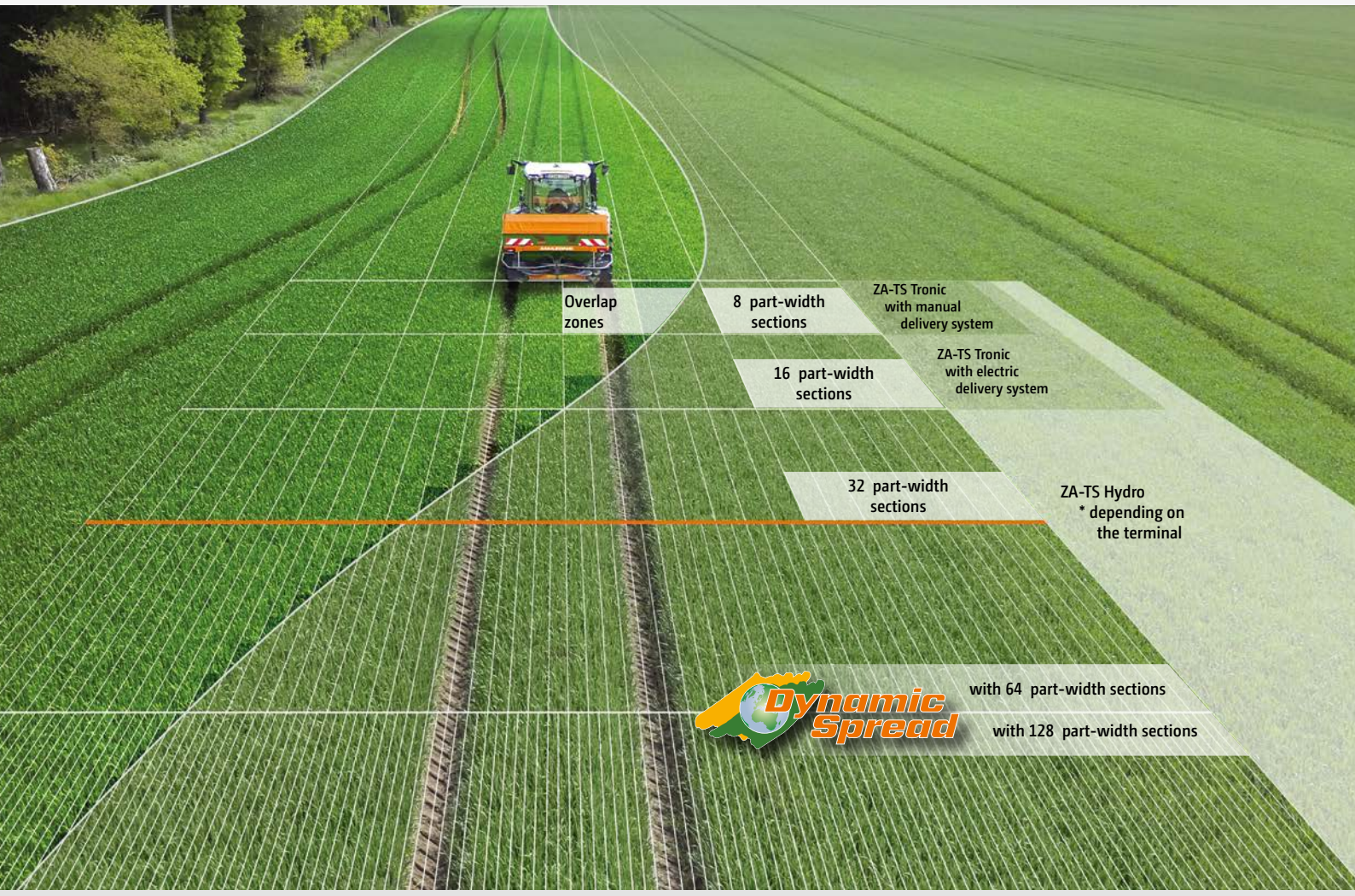
Thanks to the AUX-N feature, you can operate multiple functions of the machine via AmaPilot+ or any other ISOBUS multi-function joystick.

The benefits of AmaPilot+:

- Perfect ergonomics
- Almost every function directly controlled via 3 levels
- Adjustable hand-rest
- Freely-programmable, individual key layout

- “The joystick rests comfortably in the hand.”
  (dlz agrar magazine – “Test report Pantera 4502“ · 02/2016)

Automatic GPS-Switch part-area shut-off with Section Control



With DynamicSpread, individual outlying part-width sections can also be controlled.

More precision, more efficiency!

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.

Part-width section control for ISOBUS fertiliser spreaders	ZA-TS Tronic Manual delivery system adjustment	ZA-TS Tronic Electric delivery system adjustment	ZA-TS Hydro Manual delivery system adjustment	ZA-TS Hydro Electric delivery system adjustment
Spread rate regulation	X	X	X	X
Setting the delivery system		X		X
Matching the spreading disc speed			X	X
Number of part-width sections • Manual mode via key pressure • Automatic mode via SectionControl/GPS-Switch	8 In manual and automatic mode	8 In manual mode 16 In automatic mode	8 In manual mode up to 128 In automatic mode	8 In manual mode up to 128 In automatic mode
Possible working widths	15 – 54 m	15 – 54 m	15 – 54 m	15 – 54 m

Automatic part-width section control

If the terminal to be operated features Section Control, such as, for example, GPS-Switch part-width section control from AMAZONE, the switching of the part-width sections can be carried out completely automatically and in relation to the GPS position. Once a field has been established by the driver, then, in the automatic mode, they can fully concentrate on handling the vehicle whilst the switching of the part-width sections in wedges and on the headland is carried out automatically.

Benefits of automatic part-width section control:

- Stress relief on the driver
- Increase in precision especially at night or at higher speeds
- Less overlaps and gaps
- Saving of resources
- Less crop damage and environmental pollution

"With Section Control, the ISOBUS computer relieves the driver from a lot of work."

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

GPS-Switch

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

GPS-Switch for AmaTron 3

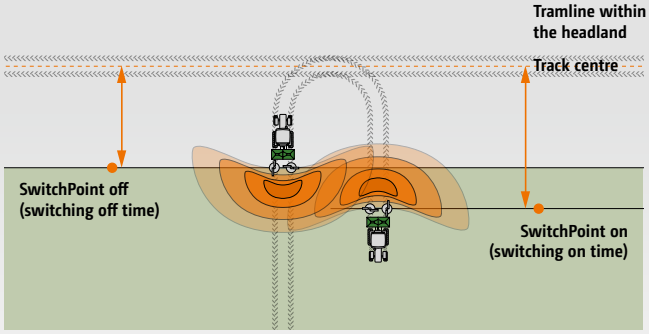
- Automatic part-width section control of up to 80 part-width sections

GPS-Switch basic for AmaTron 4

- Automatic part-width section control of up to 16 part-width sections

GPS-Switch pro for AmaTron 4 and AmaPad

- Automatic part-width section control of up to 128 part-width sections
- Creation of a virtual headland
- Creation of Point of Interests (POI)
- Automatic boom lowering on an AMAZONE crop protection sprayer
- With AmaPad, the GPS-Switch pro licence is already integrated as standard



- SwitchPoint

  SwitchPoint allows, when utilising GPS-Switch, to re-adjust the on/off switching points depending on the fertiliser type and the working width. Both values can be taken from the setting chart and entered into the relevant operator terminal.

ISOBUS terminals from Amazone

Intuitive, comfortable, better – workday made easy

From simple to high-tech – everything is possible

With the ISOBUS compatible AmaTron 3, AmaTron 4 and AmaPad, AMAZONE offers three particularly comfortable operator terminals for its ISOBUS equipment. In addition to the pure machine operation, even more application possibilities are available, such as, for example, the automatic GPS-Switch (Section Control) part-width section control. To meet those requirements, licences are needed for the additional applications so that every terminal can be equipped individually.

- All applications come pre-installed and can be initially tested free of charge
- Intuitive and clear actuation

Everything in view with the 2-terminal solution

In addition to the possibility of utilising an AMAZONE ISOBUS machine via the tractor terminal, the possibility is available to separate the functionalities of the tractor and the mounted implement and to operate them via two terminals. The tractor terminal can continue to control the tractor or also display the GPS applications whereas the additional operator terminal in its UT display mode is fully utilised to monitor and control the machine.

Terminal	AmaTron 3	AmaTron 4	AmaPad
Display	5.7 inch, colour display	8 inch, multi-touch colour display	12.1 inch, multi-touch-colour display
Mode of operation	8 keys	Touch and 12 keys	Touch
BUS system	AMABUS/ISOBUS	ISOBUS	ISOBUS
Job management and Application maps in ISO-XML format	Task Controller	GPS-Maps&Doc * with integrated Task Controller	Task Controller
Application maps in shape file format	GPS-Maps *	GPS-Maps&Doc *	GPS-Maps pro
Parallel driving aid	GPS-Track * with external light bar	GPS-Track * with integrated light bar	GPS-Track pro with integrated light bar
Automatic track following	–	–	GPS-Track Auto
Automatic part-width section control (SectionControl) Note: dependent on the max. no. of sections of the machine!	GPS-Switch * with up to 80 part-width sections	GPS-Switch basic * with up to 16 part-width sections oder GPS-Switch pro * with up to 128 part width sections	GPS-Switch pro with up to 128 part width sections
Camera connectivity	–	1x camera connection * With reversing detection	–
USB interface(s)	1x USB interface port	2x USB interface ports	2x USB interface ports

* = optional

AmaTron 3

One knows what one has!

With AmaTron 3, AMAZONE offers an operator terminal that is easy to handle. As a full ISOBUS terminal the less expensive AmaTron 3 offers an entry into the ISOBUS world and at the same time is compatible with all older AMABUS machines (AmaTron+ controlled equipment)

Proven and reliable

AmaTron 3 features 8 backlit function keys and a high-contrast and low-reflection display. Depending on the driving situation and personal taste you can choose between the UT display (Universal Terminal) for machine operation or GPS displays. Here, the very good price-performance ratio is convincing! So AmaTron 3 is the ideal terminal for all who intend to supplement their existing AMAZONE machine park with a new ISOBUS machine.

Benefits of AmaTron 3:

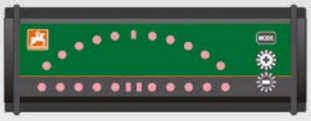
- Compact design, requires little space
- Low-priced entry-level model for the ISOBUS world
- AmaTron 3 is a full ISOBUS terminal and allows, in addition, to operate all AMAZONE machines with AMABUS (AmaTron+ machines)
- Several applications can be actuated at the same time. Via the "Toggle-Button" the operator can toggle easily between the operational screens.

Terminal features

- ISOBUS compatible with all ISOBUS machinery from AMAZONE and other manufacturers
- AMABUS implement operation
- Tractor ECU function for retrofit to a non-ISOBUS tractor (power, speed, PTO speed, GPS geometry...)
- USB interface for data exchange
- ASD interface, e.g. for an N-sensor
- GPS interface

The following applications are possible:

- Task Controller – job management in ISO-XML format
- GPS-Maps (optional) – processing of application maps in shape file format
- GPS-Track (optional) – parallel steering aid with optional external light bar
- GPS-Switch (optional) – automatic part-width section control for up to 80 part width sections



- External light bar

  Als a possible extension for the GPS-Track parallel steering aid, an external light bar is available for AmaTron 3 which can be readily coupled with GPS-Track. The external light bar can be freely positioned in the tractor cab.

- "On the start screen, Amazone shows the usable programmes of AmaTron 3 – there is no better way."

  (profi – "Raid on the terminal" 12/2018)

- "It can be comfortably and clearly operated and also the 5.7" display is large enough and logically designed."

  (profi – "Test report Cirrus 3003 Compact"· 04/2015)

AmaTron 4

Manager 4 all

Why not handle a terminal as intuitively like a tablet or a smartphone? With this in mind AMAZONE has developed the highly intuitive and operator-friendly AmaTron 4 which offers a noticeably smoother operational process, especially when it comes to job management.

Easy and comfortable operation as intuitive as your tablet

AmaTron 4, with its 8" multi-touch colour display, fulfils the highest demands of any end user. No matter whether via the cleverly designed operator elements (touch / 12 backlit keys / 3 one-touch keys) or via the intuitive operation in day or night mode, AmaTron 4 offers maximum user-friendliness. Via a finger swipe or via the App carousel, one quickly gets from application to application and to the clearly and simply structured operator terminal. The practical MiniView, a freely configurable status bar and also an integrated light bar make the use of AmaTron 4 especially clear and comfortable.

Benefits of AmaTron 4:

- Automatic full screen mode of the 8" multi-touch colour display when not being touched
- Practical MiniView concept
- Operation via the touch display or via soft keys
- Especially intuitive and user-friendly
- Field-related documentation
- Practice-oriented and intelligent menu guidance
- Day and night mode

Terminal features

- ISOBUS compatible with all ISOBUS machinery from AMAZONE and from other manufacturers
- Tractor ECU function for retrofit to a non-ISOBUS tractor (power, speed, PTO speed, GPS geometry...)
- Two 2.0 USB interface ports for data exchange
- Interface for the connection of sensors via SCU-L adapter (e.g. for N-Sensors)
- GPS interface
- Analogue video input (camera connection)

The following applications are possible

- GPS-Maps&Doc (optional):
  - Task Controller – job management and application maps in ISO-XML file format
  - processing of application maps in shape file format
- GPS-Track (optional) – parallel steering aid
- GPS-Switch basic (optional) – automatic part-width section control of up to 16 part-width sections
- GPS-Switch pro (optional) – automatic part-width section control of up to 128 part-width sections
- AmaCam (optional) – Software licence for a camera of automatic reversing detection

AmaPad

The especially comfortable way to control agricultural machinery

With AmaPad, AMAZONE offers an especially high performance operator terminal. The 12.1" multi-touch colour display is particularly comfortable and fulfils the highest demands on Precision Farming.

The new dimension of control and monitoring

AmaPad features a high-resolution, high-contrast and low-reflection 12.1" multi-touch colour display. The operation of AmaPad is carried out solely via touch. With the practical "MiniView concept", applications which aren't being actively operated at that moment but need to be monitored are clearly displayed at the side. When needed these can be enlarged via "a finger swipe". The possibility to individualise a "dashboard panel" with the displays of choice rounds up the user ergonomics. In addition to GPS-Switch part-width section control with GPS-Track pro also a professional parallel steering aid with integrated light bar is installed as standard.

Benefits of AmaPad:

- Particularly low-reflection, high contrast, large 12.1" multi-touch colour display
- Standard high-tech equipment level with GPS-Maps pro, GPS-Track pro and GPS-Switch pro
- Extended MiniView concept
- Upgrade to automatic steering is possible thanks to the automatic GPS-Track Auto track guidance
- Day and night mode

Terminal features

- ISOBUS compatible with all ISOBUS machinery from AMAZONE and from other manufacturers
- Two 2.0 USB interface ports for data exchange
- WLAN module (via USB adapter)
- Remote servicing via the internet possible
- Interface for the connection of sensors via SCU-L adapter (e.g. for N-sensors)
- GPS-interface
- Light sensor for the optimum adjustment of the display

The following applications are possible:

- Task Controller – job management and application maps in ISO-XML file format
- GPS-Maps pro – processing of application maps in the shape file format
- GPS-Switch pro – automatic headland and part-width section control of up to 128 part-width sections
- GPS-Track pro – parallel steering aid with integrated light bar
- GPS-Track Auto – automatic track guidance (only on Pantera)

"With AmaPad the spreader is easy to operate"

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

Spreader Application Centre

Exemplary advice – for more than 25 years

The settings are crucial!

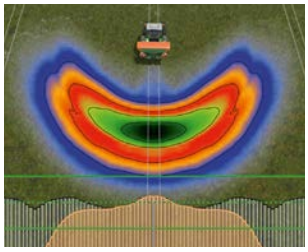
With the Spreader Application Centre, AMAZONE offer even better customer service. In addition to the already well-established fertiliser laboratory and spreading hall, the Spreader Application Centre now also includes the areas of "Test and Training", "Data management" and the relevant "Knowledge transfer".

The two last areas are accompanied by a reorganisation that caters for the increasing globalisation and digitalisation of agriculture. The aim of the Spreader Application Centre is to offer to the customer an even better service with regard to fertiliser application.

Fertiliser laboratory

Spreading hall

Test and Training



Data management and knowledge transfer

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

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

Modern fertiliser spreader test hall

FertiliserService – You can contact us via:

The FertiliserService works beyond limits. Because no matter whether your fertiliser spreader is 5 or 50 years old, we are always by your side with competent and reliable assistance.

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

Also available via an App for iPhone and other Smartphones.

Android equipment

iOS equipment

EasyCheck

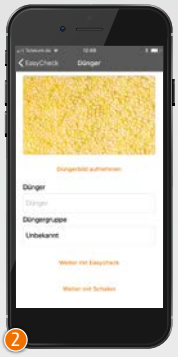
Precise spreading made easy!

Digital, mobile test kit for the easy optimisation of the lateral distribution

Instead of testing trays, such as those found in the normal mobile test kit, the EasyCheck system consists of just 16 lightweight test mats made from rubber and the EasyCheck App for Smartphones. The test mats are positioned in pre-determined distances away from the tramline. Then the relevant tramline is spread and the mats with the fertiliser granules laying on them are photographed. The App now compares automatically how much fertiliser has been collected on each test mat and sets the results of the individual rows to an average. In cases where the spreading results are not the optimum, the App suggests readjustments for the setting of the relevant fertiliser spreader.

EasyCheck – Smartphone App for fertiliser spreaders

1 Choose the fertiliser spreader and the working width in the App



2 Select the fertiliser

3 Displays the position of the mats

4 Photograph the mats

5 Photograph, confirm the value

6 The value for the mat is displayed in the App

7 Lateral distribution and setting recommendations are displayed

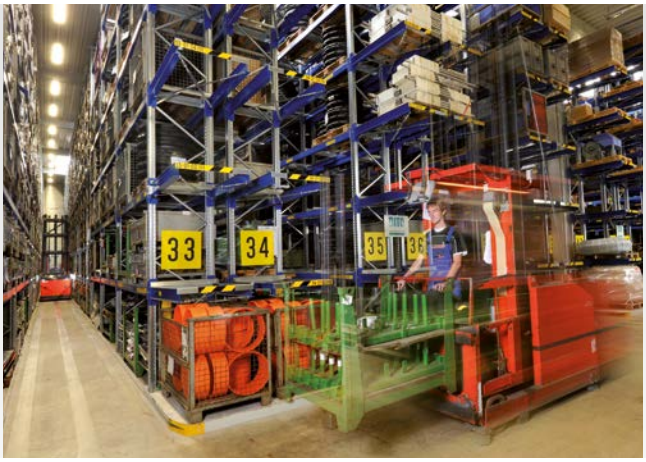
AMAZONE Service – always in the vicinity

Your satisfaction is our challenge

AMAZONE SmartService 4.0

Due to the increasing use of evermore complex machine technology, AMAZONE utilises, with the SmartService 4.0, both virtual and augmented reality as well as digital media for service, training and maintenance advice.

1. **SmartTraining:** training and instruction in the use of complex machinery by using the Virtual Reality technology (VR).
2. **SmartLearning:** interactive driver's training for the user for complex machinery operation (www.amazone.de).
3. **SmartInstruction:** repair or maintenance instructions using Augmented Reality (AR) and mobile terminal equipment
4. **SmartSupport:** direct local support from the service technician via Augmented Reality (AR) and mobile terminal equipment



The satisfaction of our customers is the most important objective

For this we rely on our competent sales partners. Also for service queries, they are the reliable contact for farmers and agricultural contractors. Due to continuous training, our sales partners and service technicians are always up to date when it comes to looking after this state of the art technology.

We provide you with a first-class spare-parts service

The central spareparts store in our headquarters at Hasbergen-Gaste forms the basis of our world-wide spare parts logistics. This ensures the optimum availability of spareparts, even for older machines.

Parts, are available in our central spareparts store in Hasbergen-Gaste and which have been ordered up until 17 hours, are dispatched the same day. 34,000 different spareparts and wearing metal are held in our ultra-modern stores system. Daily, up to 800 orders are dispatched to our customers.

Better to choose the original, right from the beginning

Your equipment is exposed to the most arduous of demands. The quality of AMAZONE spareparts and wearing metal offers you the reliability and safety you need for efficient soil tillage, precise sowing, professional fertilisation and successful crop protection.

Only original spareparts and wearing metal is perfectly matched to AMAZONE machinery in their functionality and durability. This ensures the optimum operational performance. Original parts at a fair price pay off in the end.

Therefore, make your decision the original!

The advantages of original spareparts and wearing metal

- Quality and reliability
- Innovation and efficiency
- Immediate availability
- High resale value of the used machine

AMAZONE "SmartLearning" – the new way of driver training via a PC

Via the Internet "SmartLearning" portal, AMAZONE has extended its service offering on its homepage www.amazone.de/smartlearning with a very useful function. "SmartLearning" offers interactive driver training, which enables the driver to practice the operation of complex machinery on his own, both online and offline, via a PC or tablet. The new service offers drivers the possibility to get acquainted with a new machine prior to its initial operation. However, experienced drivers can also refresh their knowledge enabling them to utilise better still the full potential of their machinery.

Technical data

ZA-TS		1400	1700	2000	2200	2600	2700	3200	4200
Working width (m)		15 – 54							
Hopper volume (l)		1,400	1,700	2,000	2,200	2,600	2,700	3,200	4,200
– with S 600 hopper extension (l)		2.000	2,300	2,600	–	–	–	–	–
– with L 800 hopper extension (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
Filling height (m) without rolling & parking device		1.13	1.23	1.31	1.30	1.49	1.42	1.54	1.76
Filling width (m)		2.23	2.23	2.23	2.72	2.23	2.72	2.72	2.72
Total width (m)		2.55	2.55	2.55	2.92	2.55	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
Drive		mechanical (Tronic) / hydraulic (Hydro)							
Weighing system		optionally with Profis weighing system							
Regulating electronics		ISOBUS communication via AmaTron 3, AmaTron 4, AmaPad or other non-Amazone ISOBUS terminals							
Lower linkage	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 2)		471	480	489	539	528	555	573	685

Illustrations, content and technical data are not binding! Deviations of technical data are possible depending on the equipment. The illustrations may deviate from the requirements for local road traffic regulations.

ZA – the spreader

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