



AMAZONE

IDEAS FOR OUR FUTURE ...

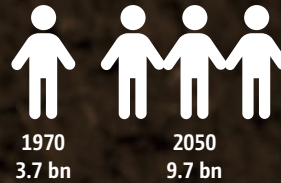


...practically implemented
and resource-conserving.

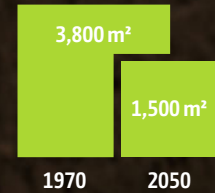


Professional farming and thus agricultural machinery demands are faced with major challenges today. On the one hand, agriculture needs to produce high-quality food to feed the growing world population. On the other hand, the amount of arable land on which food can be produced is being reduced. This is exacerbated by climate change with extreme weather conditions.

World population



Area cultivated per capita



IDEAS FOR OUR FUTURE

Conservation of valuable resources and a sustainable reduction in the amount of inputs

In addition to saving resources, it goes without saying that the optimum use of inputs is of enormous importance. At the same time, increasing biodiversity must be an important goal, in order to offer good, long-term prospects for the generations to come.

Greater precision for higher yields, better sustainability and improved cost efficiency

The core objective, for agriculture and for AMAZONE, is to create a high level of yield per hectare of land using sustainable methods. It is therefore important to improve the efficiency of the production processes, especially by means of digitalisation and automation, and to treat each plant as precisely as possible. In this respect, the precision of sowing, fertilising and crop protection equipment must continue to increase, so that applications are increasingly carried out on a part-area basis and the emphasis being placed more and more on the individual plant in future.

AMAZONE wishes to make a decisive contribution to global food security and provide our farmers and contractors with innovative ideas which help them to secure their future on a sustainable basis.

Yours sincerely,

Your AMAZONE Team



Cirrus 6003-2CC with Minimum TillDiscs – minimal, water-conserving soil tillage



ZA-TS mounted spreader with WindControl – windless conditions at the touch of a button



#ideasforfuture

Fertilisation – ZA-TS

WindControl and ArgusTwin spread fan monitoring system



ProfisPro weighing system with torque monitoring

ProfisPro weighing system with FlowControl combines all the advantages of the 200 Hz online weighing system with the torque monitoring of the spreading discs. For a precise application rate from the first second!

Apply now for a 7-year manufacturer guarantee against perforation corrosion for ZA-V, ZA-TS and ZG-TS fertiliser spreaders via myAMAZONE!

Improved paint quality as a result of a new painting process from model year 2022.

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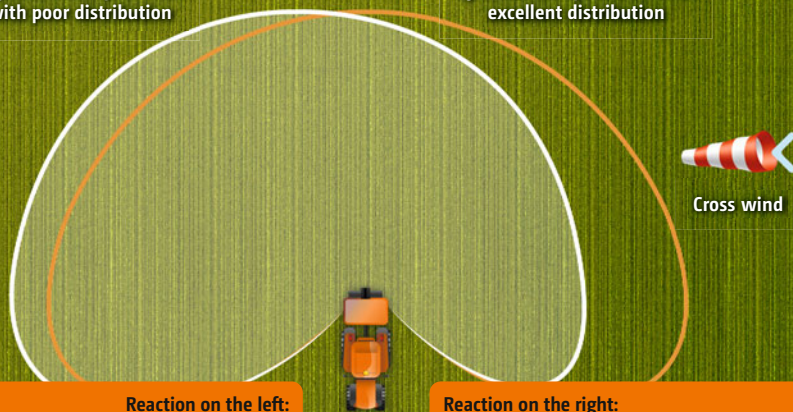
Video in use

Without WindControl

Asymmetrical spread fan with poor distribution

With WindControl

Symmetrical spread fan with excellent distribution



Reaction on the left:
Speed reduction and rotation
of the spread fan inwards

Reaction on the right:
Speed increase and rotation
of the spread fan outwards

Spread fan optimisation with WindControl

According to Prof. Dr. Karl Wild of the University of Applied Sciences, Dresden, the influence of wind on the spread pattern is constantly monitored and automatically compensated for by WindControl, even under difficult wind conditions. A high-frequency wind sensor mounted on the machine records both the wind speed and the wind direction and transmits this information to the job computer. The delivery system and the spreading disc speed are then automatically adjusted. In this way, WindControl also increases the available windows for fertiliser spreading.



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WindControl **improves** the lateral distribution by **5.6 %**. This means an additional yield of **24 €/ha***



Find out more!

ArgusTwin spread fan monitoring system

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

14 radar sensors above the left and right spreading disc monitor the spread fan and optimise the lateral distribution when using fertilisers with variable spreading qualities, on slopes and in the event of external environmental influences.



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ArgusTwin **improves** the lateral distribution by **5.1 %**. This means an additional yield of **22 €/ha***



Video in use

* Results based on long-term trials

Fertilisation – ZA-TS

AutoTS border spreading system

Overlap zones

8 part-width sections

16 part-width sections

32 part-width sections

DynamicSpread dynamic part-width section control

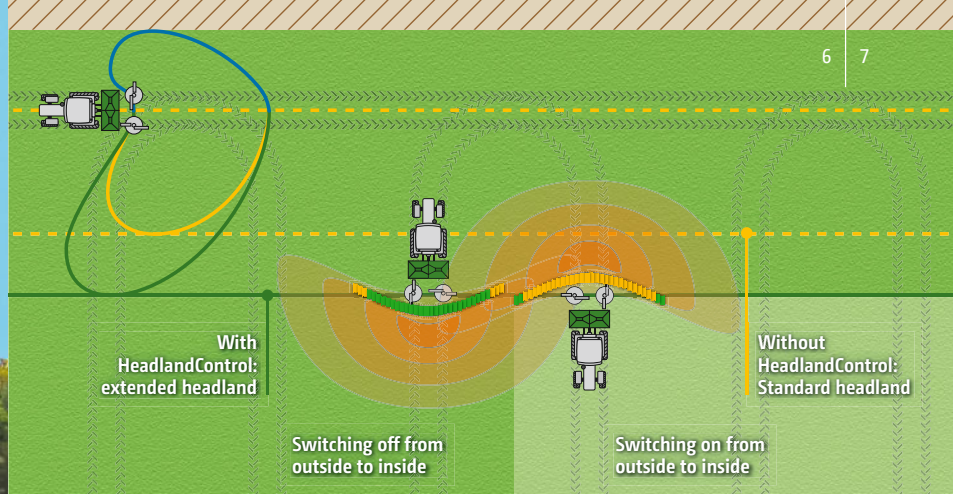
The automatic part-width section control with up to 128 part-width sections in the form of a kidney-shaped pattern guarantees a highly-precise shut-off in wedge-shaped fields or on the headland. This saves fertiliser and protects the environment.



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**Reduction in fertiliser use and
higher distribution accuracy**





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

HeadlandControl headland management

HeadlandControl offers you optimum lateral distribution on the headland. When HeadlandControl is activated, the throwing width and spread rate are increased on the inner field side, so that the switch-off point is moved towards the inside of the field. The part-width section control is adapted to the shape of the spread fan and causes the part-width sections to be switched off from the outside to the inside when entering the headland. The tractor can follow the tracks of the sprayer yet still achieve optimum lateral distribution. The result: crops across the headland are more uniform.



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Widening of the headland for optimised switching of the part-width sections.
More uniform crops on the headland

AutoTS border spreading system

The disc-integrated AutoTS border spreading system enables the comfortable activation of various border spreading techniques, such as side, border or watercourse spreading, via the terminal in the tractor cab, irrespective of which side. Sharp cut-off border spread patterns are made possible, thereby creating optimum growing conditions right up to the field boundary. The throwing distance of the fertiliser is limited by a shorter spreading vane, so that it is optimally distributed up to the field boundary without damaging the fertiliser.

In practice, the system offers the following advantages:

- increased yields in comparison to normal border spreading techniques
- The optimum application in every border spreading situation from side, border and watercourse spreading



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Proven precision!
Up to **17% additional yield** around the field boundary –
proved by field trials at the Wieselburg Innovation Farm

» Calculate the extra revenue with the AMAZONE Border Spreading Calculator
www.amazone.net/border-spreading-calculator

with 64 part-width sections

with 128 part-width sections

Plant protection – UX Super DirectInject direct feed system



ContourControl and SwingStop

ContourControl active boom guidance and SwingStop active vibration damping automatically ensure the best possible boom guidance at all times, even at low boom heights, high forward speeds, with undulating terrain or when starting off and braking.



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Significantly **more even** distribution
of plant protection agents

50 cm part-width section with AmaSwitch

Precise switching on the headland and in wedge shaped fields by combining GPS-Switch automatic part-width section control with AmaSwitch single nozzle control.



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Up to **10 % reduction** in plant
protection agent usage*

* Values dependent on field size, working width, number of part-width sections, row width and weed density. Please ask your AMAZONE sales partner or factory representative about the technical capabilities of the new AmaSwitch functions.



DirectInject equipment with 50 l tank and pump unit in the storage compartment of the UX 01 Super

Quick, flexible and needs-based injection of additional plant protection agents

The DirectInject system has enabled AMAZONE to offer a system of direct plant protection agent injection for the first time. You can add or remove crop protection agents as and when required during application. The special feature of DirectInject compared to conventional systems is the fast response time of the injection process and its complete integration in the spray agent circuit and operation of the sprayer.

From a plant establishment perspective, it is often necessary to react to areas with a high-density of “problem weed” pockets with specific products and active ingredients just in **patches** or in individual fields. There are also restrictions relating to protection-sensitive fields and bodies of water which farming must consider when selecting the appropriate plant protection agents.

With DirectInject, you can respond individually to the needs of the crop and reduce the use of plant protection agents and the number of additional passes with the sprayer. This saves time, money and protects the environment.

In practice, the system offers the following advantages:

- flexible, fast and needs-based use of plant protection agents
- Reduction in working time, machinery costs and the use of plant protection agents
- Optimum crops



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Significant **savings** on plant protection agents as well as **minimal** and **needs-based** usage



Video in use

Plant protection – UX Super

AmaSelect individual nozzle control

AmaSelect and GPS-Switch

Electric individual nozzle control combined with automatic part-width section control.



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Up to **10 % reduction** in plant protection agent usage*

AmaSelect Row

Highly-efficient row spraying at the press of a button reducing the amount of plant protection agents used.



**IDEAS FOR
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Up to **65 % reduction** in plant protection agent usage*

* Values dependent on field size, working width, number of part-width sections, row width and weed density. Please ask your AMAZONE sales partner or factory representative about the technical capabilities of the new AmaSelect functions.

AmaSelect CurveControl

Over-dosing and under-dosing in curves is significantly reduced.



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Optimised application rate
during cornering



AmaSelect – For precise automatic switching in 50 cm part-width sections

The electric AmaSelect individual nozzle control consists of a quad nozzle body with electric on/off control plus the additional switching over of either a nozzle or a combination of nozzles. In addition to the 50 cm part-width section, the system offers electrical switching between the four mounted nozzles via the operator terminal. This provides the option of changing over to a larger nozzle or switching on a second nozzle, for example, when leaving the optimum pressure range of a nozzle.



Apart from the 50 cm nozzle spacing, AmaSelect can provide a true **25 cm nozzle spacing**. In combination with special 80° nozzles, this offers the advantage of reducing the target surface distance to less than 50 cm, thereby minimising drift during application. The driver can switch between 50 and 25 cm nozzle spacing during the application.

In practice, the system offers the following advantages:

- Up to 84 part-width sections with 50 cm spacing
- Optimum automatic adjustment of the nozzle size to variable forward speeds and application rates
- Flexible switching of nozzles from the cab in variable weather conditions or between the field boundary and the field interior
- Freely programmable part-width sections
- DUS pro high-pressure circulation system – the right concentration available immediately
- With LED individual nozzle lighting for the perfect spray fan illumination
- Time saving and more comfort for the driver
- Extremely wide range of application without any conversion work

AmaSelect Spot

Part-area, site-specific weed treatment on the basis of spot application maps.



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Up to **80% reduction** in plant
protection agent usage*



Video in use

Sowing – Cirrus

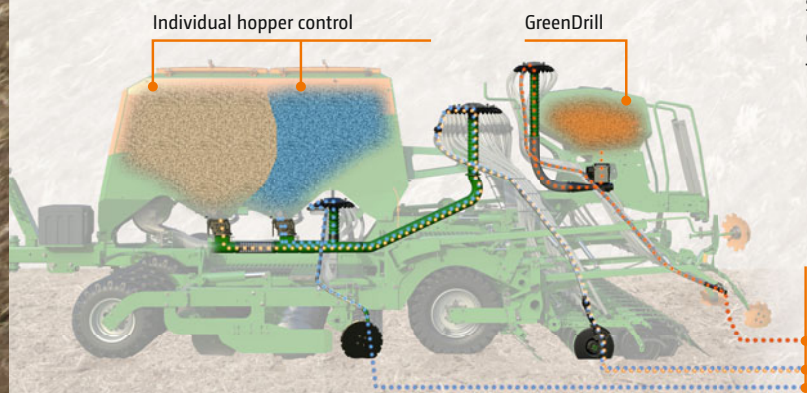
Sowing without limits – MultiBin and MultiMap



MultiBin – Cirrus multi-hopper system

The application of more than one medium during sowing has become commonplace. The use of several hoppers enables you to apply not only seed but also fertiliser, a companion crop or undersow crops at the same time during the same pass.

For example, the Cirrus-CC trailed seed drill combination used in conjunction with the GreenDrill universal catch crop seeder box enables up to three different materials to be simultaneously applied at various placement depths, independently of each other. Seed and fertiliser can therefore be flexibly combined.



The Cirrus precisely meters up to three different materials at three placement depths



Video in use



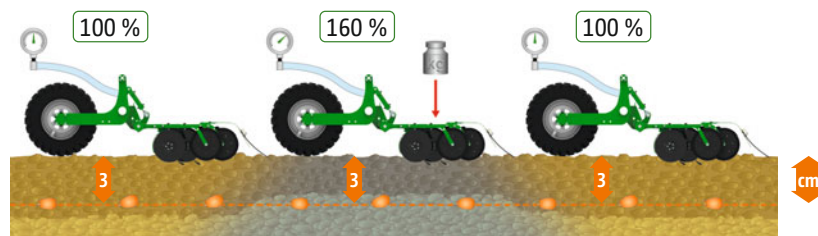
AmaTron 4 provides the MultiMap function with the GPS-Maps&Doc software licence.

MultiMap – part-area, site-specific application for any medium

Since the soil conditions, water availability and therefore also the yield potential can sometimes vary greatly within a field, it makes sense to tailor seed and fertiliser rates to these conditions. MultiMap enables any medium to be regulated independently via application maps, so that it can be applied on a part-area, site-specific basis.

In addition to part-area, site-specific sowing and fertilisation, the coulters pressure can also be regulated depending on the soil quality on the basis of a soil texture maps. Variable soil conditions are compensated for and an even seed placement is obtained.

TwinTeC⁺ coulters pressure:



Automatic coulters pressure adjustment on the basis of an application map ensures even **seed placement**.

light soil heavy soil

In practice, the system offers the following advantages:

- Reduction in the number of passes
- Increase in fertiliser efficiency through the application of a starter fertiliser or depositing fertiliser with the seed
- Precise metering and placement of seed types of varying size
- Integration of undersown crops in the main crop
- Maintenance and promotion of biodiversity

In practice, the system offers the following advantages:

- Tailoring of seed rates, fertiliser rates and coulters pressure to individual part-areas
- Increase in efficiency and exploitation of the natural yield potentials
- Environmentally-compatible and efficient use of inputs
- Simultaneous processing of up to four application maps



Flexible application of several materials



Management of differences in soil type on a part-area, site-specific basis

Precision seeding – Precea

Precise switch on and off points for seed fertiliser – MultiSwitch and MultiBoom



MultiBoom – individual switchpoints for seed, fertiliser and micro-granules



Two or three materials are individually metered via different metering units and delivered at separate entry points enabling the simultaneous application of different materials. Since the fertiliser coulters run in front of the sowing coulters, the two metering units have to be switched at staggered intervals via GPS-Switch pro, in order to prevent overlaps or misses on the headland. The MultiBoom function automatically switches each metered material on and off at the headland with a time delay, in order to achieve optimum switch-on and switch-off points. If a micro-granular applicator is present, this can also be controlled on the basis of time.

- 3. Switch point: Micro-granules
- 2. Switch point: Seed
- 1. Switch point: Fertiliser



Video of Precea
MultiBoom

and



Together with the GPS-Switch software licence, AmaTron 4 enables individual row shut-off both for the seed and the fertiliser

MultiSwitch – individual row shut-off for the seed and fertiliser

Precise switch-on and switch-off points are very important, in order to avoid over- or under-sowing in critical areas such as on the headland. The individual row shut-off of the Precea, combined with the GPS-Switch software licence in the AmaTron 4 operator terminal, provides precise placement. This allows the control of each row and switch it off or on individually. On the one hand, this saves seed, as fewer overlaps occur, and on the other hand, gaps where weeds can spread are prevented.

If fertiliser is to be simultaneously applied with the seed, you can also automatically switch the fertiliser on and off in single rows via GPS-Switch. This optimises fertiliser use and ensures even ripening on the headland.

In practice, the system offers the following advantages:

- Reduction in fertiliser and seed costs
- Optimisation of the yield while taking environmental regulations into account
- Stress relief for the driver



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Reduction in the use of seed and fertiliser

In practice, the system offers the following advantages:

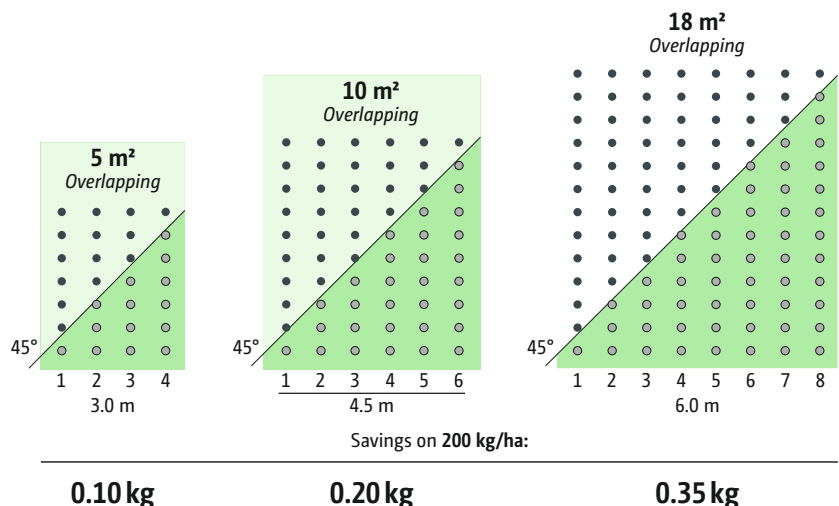
- Precise switch on and off points in the field for each metered material – irrespective of the conveying system and product characteristics
- Prevention of overlaps and misses for fertiliser and seed
- More uniform plant growth



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Maximum precision at the headland for each medium

Savings potential for various working widths



Soil tillage – Cobra

Shallow soil disturbance – Intensive mixing



Knife roller

The knife roller enables extremely shallow soil tillage with simultaneous shredding of the stubble, such as during that initial stubble cultivation after rape. However, the knife roller is also ideal for working in tall catch crops, maize or sunflower stubbles.

Double harrow

As an alternative to the following roller, the double harrow pulls out weeds without any further reconsolidation. The germinated weeds and volunteers lie exposed on the soil surface and die without the need for plant protection agents.



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Weed control **without** the need for plant protection agents



Video in use



Cobra 6000-2TX with knife roller

Why use a shallow cultivator?

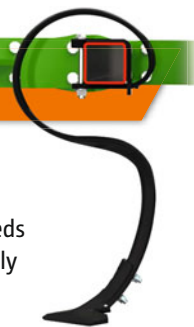
Due to increasing requirements for field hygiene and more attention to ground water conservation, shallow soil tillage is becoming increasingly important. Weed seeds and volunteer grains need to be kept near the soil surface, while germinated plants are completely cut off at the root. Full-surface, light soil movement not only fights weeds, but also disrupts negative water capillary action near the surface. This allows valuable ground water to be preserved for the subsequent crop.

The Cobra cultivator is not only ideal for mechanical weed control, it can also be used on the farm all year round.

It is easy to pull and therefore saves fuel during that shallow stubble cultivation, the second or third deeper tillage pass, catch crop destruction and seedbed preparation.

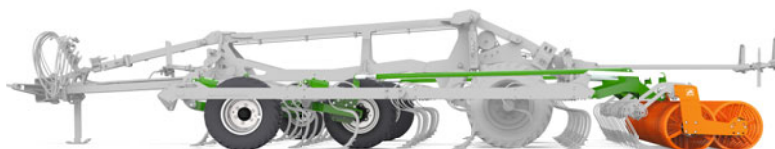
ECO leaf-spring tines

A large amount of fine soil is produced in the mix by the vibration of the ECO leaf-spring tines. This provides optimum germination conditions, so that volunteer cereals and weed seeds establish well, meaning that they can be combated mechanically in the next working pass. The high proportion of fine soil also has a very positive effect on seedbed preparation.



Exact depth control

The exact depth of the Cobra is adjusted via the following rollers and the over-sized support wheels. These are integrated in the tine element to provide better matching to the topography of the terrain. If only a double harrow is used without a following roller, depth control is carried out via the transport wheels in addition to the front support wheels.



Soil tillage – Teres

The plough as an initial plant protection measure



AutoAdapt

Perfectly matched up ploughing, even under variable conditions. **AutoAdapt** automatic hydraulic front furrow adjustment after a change in the working width.



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Has a **positive** effect on
fuel consumption

SmartTurn

Rapid and gentle turnover process at larger working widths as a result of the **SmartTurn frame swivel cylinder**.

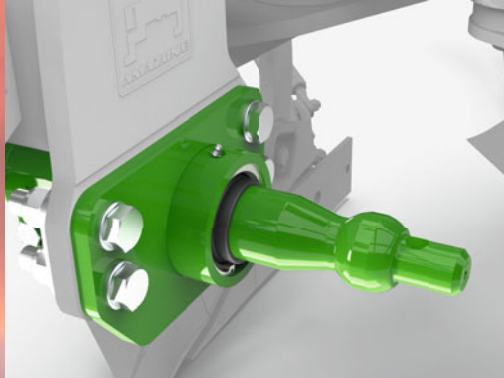


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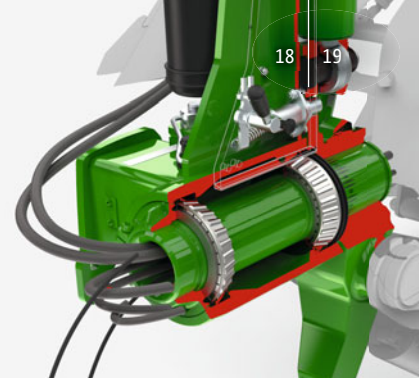
The **stress-free** turnover process is completed within a **very short time**



Video in use



Bearing-mounted lower link shaft –
ProtectShaft for less wear



Hollow turnover shaft on the Teres
for increased durability

The plough as the initial plant protection measure

It is not the philosophy but the right choice of soil tillage method that is critical to success. On many farms, both conventional sowing methods and mulch sowing methods are practised in combination, depending on the weather. The yield-guaranteeing function of the plough is the decisive factor here.

In practice, the system offers the following advantages:

- Effective weed control via mechanical means by light deprivation and reliable control around field borders
- Quicker soil warming and better soil aeration for increased yields in crops which demand higher soil temperatures
- The only soil tillage option in constantly wet conditions
- Reduced risk of disease carryover in the following crop
- Accelerates the microbial activity in the soil by oxygen enrichment
- Mechanical control of slugs, mice and UV-light sensitive soil pests

SpeedBlade – the new innovative plough bodies

The new SpeedBlade plough bodies, with their patented extra-large front shin on the mouldboard and the ©plus hardening process, ensure significantly less wear at high forward speeds. Only the front shin of the mouldboard has to be replaced thanks to this patented enlarged front shin. This avoids the troublesome and expensive replacement of the entire mouldboard.

©plus hardening process

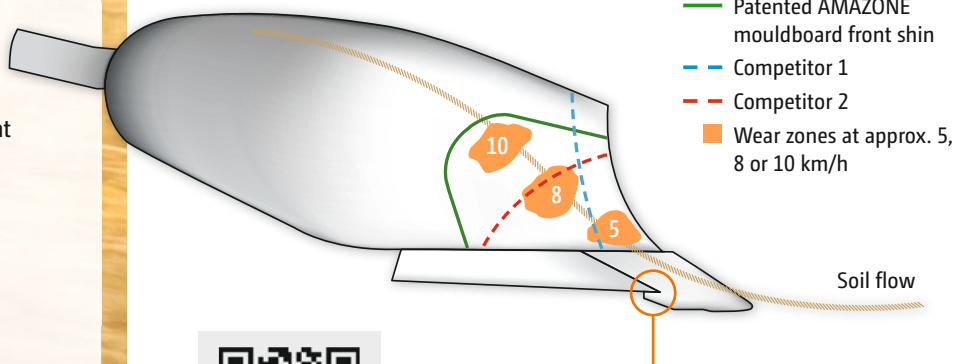
Unique hardening process for ©plus wearing parts.

- Extended service life
- High impact resistance
- Less pulling power requirement
- Reduced fuel consumption
- Less sticking to the smoother outer surface



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Maximum speed –
Minimal wear



SpeedBlade
animation

The point covers the wing:

- ✓ The joint is therefore protected by the point
- ✓ Plant residues, baler twine, wire and root residues cannot get entangled



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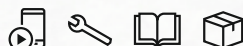


» myAMAZONE – for higher performance

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Enter the machine number and see at a glance all the relevant information to help get the maximum performance from your machine!

- Season start & installation
- Setting & operation
- Maintenance & storage
- Spare parts & operating instructions



Apply for a 24 month manufacturer guarantee via myAMAZONE now!

Extend the protection offered for your machine with a 24 month manufacturer guarantee.



Both of the guarantee offers can be applied for within the contractual warranty period of 12 months after installation.

Apply now for a 7-year manufacturer guarantee against perforation corrosion for ZA-V, ZA-TS and ZG-TS fertiliser spreaders via myAMAZONE!

Improved paint quality as a result of a new painting process from model year 2022.



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 must be checked.



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