



AMAZONE

www.amazone.net/digitalisation



AMAZONE 4.0

Meeting agricultural challenges with intelligent solutions!





AMAZONE 4.0 – the right digital technology

AMAZONE 4.0 is the keyword for customer-oriented, digital solutions which enable intelligent crop production. Clever AMAZONE technology optimises operational systems, ensuring a high level of operational

comfort and helps farmers work more efficiently, conserve resources and, above all, work much more precisely.

Precision

Reliable electronics for automation

Example:
Variable rate of application



Perfection

Helpful sensor systems and maximum precision

Example:
ArgusTwin



Networking

Simple data exchange and use of external data analyses

Example:
mySpreader App



myAMAZONE

Solutions for practical digitalisation

for sustainable agriculture

Precision

Precision includes our digital solutions, which already enable very precise work with the help of automated machine control and ISOBUS electronics. This segment provides the farmer or contractor with a high degree of time saving as well as an increase in operational comfort, whereby the work processes run automatically and can be adapted to the local conditions.



Perfection

Perfection is the extension of precision. These digital solutions meet the highest demands of precision agriculture by enabling the machines to perfect the quality of work via additional intelligent sensor systems, or to apply inputs to the smallest part-areas in an even more targeted manner.



Networking

Networking stands for the digital networking of our machines and the resulting benefits for our customers. In conjunction with our AMAZONE Apps, data can be exchanged on-line quickly and securely between AMAZONE machinery and the Apps. This significantly improves the quality of work. The added value of external data analysis via service providers, e.g. through artificial intelligence or soil and yield maps, can be harnessed by our machinery and the application of inputs optimised.



More information
can be found in the
AMAZONE 4.0 brochure

» www.amazone.net/digitalisation



» Digital solutions on the farm

GPS satellites



- Basis for steering, switching, metering
- Yield mapping
- Remote sensing
- Soil sampling
- Weather data



Hoeing



- Automatic part-width section control
- Fully automatic row guidance by means of camera technology

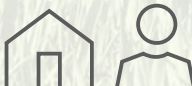
Plant protection



- Part-area, site-specific application – on-line/off-line
- GPS-Switch automatic headland and part-width section shut-off down to a 50 cm part-width section
- AmaSwitch and AmaSelect individual nozzle control
- ContourControl and SwingStop
- AmaSelect CurveControl
- AmaSelect Row
- AmaSelect Spot
- UX SmartSprayer project

Information exchange between machine and the digital farm

Farm PC



- Compilation of all data
- Documentation
- Job management
- Machine evaluation



Service



- myAMAZONE for farmers
- SmartService 4.0

Tractor and ISOBUS terminal



- Automatic steering
- Job management and documentation
- Software licences: GPS-Maps&Doc, GPS-Track, GPS-Switch basic, GPS-Switch pro and AmaCam
- AmaTron 4 and AmaPad 2 ISOBUS terminals
- AmaTron Connect: Connectivity to agrirouter and the AmaTron Twin display enhancement

Fertilisation



- AutoTS border spreading system
- ProfisPro spread rate regulation
- Part-area, site-specific application – on-line/off-line
- HeadlandControl headland shut-off
- GPS-Switch and DynamicSpread automatic part-width section control
- ArgusTwin spread fan monitoring system
- WindControl – reducing the influence of the wind
- mySpreader App

Spreading hall



- Spreader application Center
- FertiliserService

Soil tillage



- Cenius-2TX ZoneFinder with exatrek

Drilling



- GPS-Switch automatic headland and part-width section shut-off
- Part-area, site-specific sowing on the basis of application maps
- Automatic coulter pressure adjustment on the basis of application maps
- SmartForce automatic coulter pressure regulation for precision seeding
- Precise application of multiple materials – multi-boom and multi-bin
- AutoPoint switch time optimisation
- Seed pipe monitoring
- mySeeder App

Robotics



- Crop monitoring, plant protection, sowing etc.

Service providers/agricultural software

- Advice
- Farm Management Information System
- Utilising application maps
- Documentation



» Data is correlated
» Data is made available
for use with added value
for the farmer

» Intelligent fertilisation



Precision

- AutoTS border spreading system
- ProfisPro weighing system with FlowControl torque measuring system
- Part-area, site-specific application via application maps or online sensors
- HeadlandControl headland shut-off
- GPS-Switch automatic part-width section control



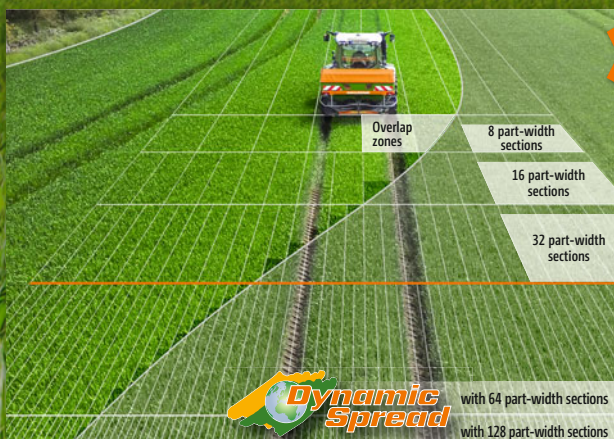
Perfection

- DynamicSpread automatic part-width section control
- ArgusTwin spread fan monitoring system
- Reduction in the influence of the wind – WindControl (according to Prof. Dr. Karl Wild of the University of Applied Sciences, Dresden)



Networking

- agrirouter
- mySpreader App:
The first all-in-one package for perfect spreader adjustment



DynamicSpread automatic 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 high precision shut-off in wedge-shaped fields or on the headland. This saves fertiliser and protects the environment.

AmaTron 4 ISOBUS terminal



» ArgusTwin

Permanent monitoring and optimisation of the lateral distribution, even in the case of variable fertiliser qualities, spreading on slopes or when border spreading. This improves fertiliser usage efficiency!

» WindControl system

WindControl enables the effect of the wind on the spread pattern to be permanently monitored and compensated for, even under difficult wind conditions. This provides larger time windows for spreading.



» PRODUCT FILM ZA-TS with WindControl

Find out more!

» AutoTS border spreading system

Comfortable and precise border spreading system which enables an average additional yield of approximately 17% to be obtained from the field boundary area. The various border spreading techniques can be easily activated from the cab via the terminal.

» HeadlandControl

HeadlandControl headland shut-off optimises the lateral distribution on the headland and provides more uniform crops in this area without over- or under-fertilisation.

» ProfisPro weighing system

The combination of the Profis weighing system and the FlowControl torque measuring system enables permanent checking and monitoring of the application rate. The right application rate at all times, even when border spreading or in wedge shaped fields!



» Intelligent crop protection



Precision

- Part-area, site-specific application via application maps or online sensors
- GPS-Switch automatic headland and part-width section shut-off down to 50 cm part-width sections
- SmartCenter operator station with Comfort-Pack plus



Perfection

- GPS-Switch automatic headland and part-width section shut-off down to 50 cm part-width sections
- AmaSwitch and AmaSelect individual nozzle control
- ContourControl and SwingStop
- AmaSelect CurveControl
- AmaSelect Row



Networking

- agrirouter
- AmaSelect Spot
- UX SmartSprayer project: Pinpoint spot application of foliar herbicides in real time, pre- and post-emergence, by means of camera technology



» AmaSelect – Electric individual nozzle switching with 50 cm part-width sections

In addition to the 50 cm part-width section shut-off, the electric 4-fold nozzle body provides automatic adjustment of the nozzle size to variable forward speeds and application rates. This allows an extremely wide range of application! A 25 cm nozzle spacing can also be implemented via an extension kit without any problems.



» ContourControl and SwingStop

ContourControl active boom guidance and SwingStop active vibration damping 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.

» SmartCenter operator station with Comfort-Pack plus

With its pressure-sensitive touch-screen and fully automatic processes, Comfort-Pack plus offers maximum comfort during filling and cleaning.

» FILM about the UX SmartSprayer project

Find out more!



» GPS-Switch automatic headland and part-width section shut-off

Enables savings on plant protection agents of up to 10%* in combination with the electric individual nozzle switching. The driver's workload is reduced and precision is increased, even at night or at faster forward speeds.



» AmaSelect CurveControl

For uniform application when negotiating bends. Resistance and plant damage are avoided.

» AmaSelect Row

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

» Reduction in plant protection agent usage by up to 65%*

» AmaSelect Spot

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

» Reduction in plant protection agent usage by up to 80%*

* 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.

» Intelligent seeding



Precision

- GPS-Switch automatic headland and part-width section shut-off
- Part-area, site-specific sowing on the basis of application maps
- Automatic coulter pressure adjustment on the basis of application maps
- SmartForce automatic coulter pressure regulation for precision seeding
- Precise application of several materials



Perfection

- AutoPoint switch time optimisation
- Seed pipe monitoring



Networking

- agrirouter
- mySeeder App:
For comfortable and precise calibration and emptying



2.7 sec.



3.3 sec.



Switch time optimisation – GPS-Switch with AutoPoint



- Automatic determination of the conveying time of various seed types from the metering unit to the sowing coulter
- Minimisation of misses and overlaps for good field hygiene
- Minimisation of disease pressure
 - ▷ Fewer plant protection measures needed and costs reduced at the same time



Metering unit

AutoPoint sensor

» Part-area, site-specific sowing on the basis of application maps

Sowing on the basis of application maps increases efficiency, maximises economic success and protects resources and the environment. Automatic coulter pressure adjustment on the basis of application maps ensures even seed placement.



» Seed pipe monitoring

Blockages of the coulter or in the pipe are detected, in order to prevent sowing errors.

» PRODUCT FILM Cirrus universal seeding combination

Find out more!



» Precise application of several materials

The Multi Boom function enables different materials to be automatically switched on and off at the headland with a time delay. This provides optimum switch-on and switch-off times without overlaps or misses.

» Versatile auger conveyor systems

Up to 3 different materials precisely metered at 3 placement depths. From single-shoot and double-shoot to triple-shoot.

» mySeeder App

Comfortable calibration of multiple hoppers via your smartphone.



AMAZONE ISOBUS control – intuitive, comfortable, perfectly tailored

All the machine software is developed by AMAZONE in its in-house electronics department with a high degree of practical relevance, in order to increase the operational comfort and to achieve significant added value for machine operation.

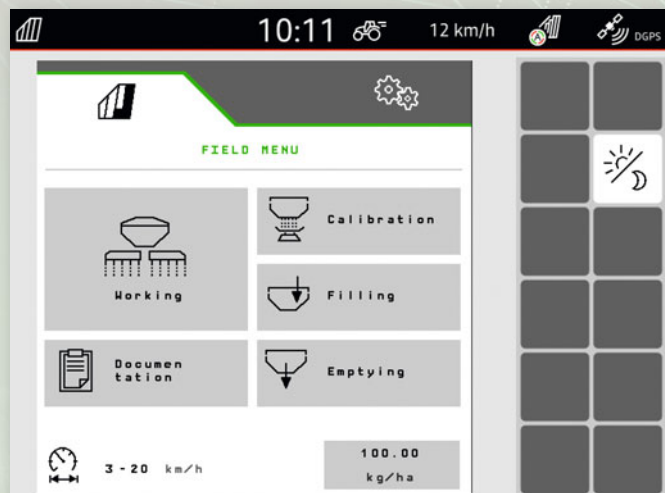
As a result, the farmer or contractor receives software which is **tailored** to his or her machine and scores highly for its extremely user-friendly and simple operation.



Clear display of the work menu in the AMAZONE machine operation

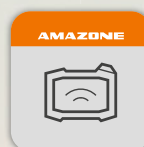
Advantages of the AMAZONE machine software:

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



AmaTron Twin Screen Enhancement

Comfortable control of GPS functions in parallel via a mobile device with an authentic representation of the working machine and its part-width sections.



AmaTron Twin App

» AmaTron 4 ISOBUS terminal

» Manager 4 all

- Low-reflection 8" display with App carousel
- Intuitive and user-friendly tablet-style operation
- Practice-oriented and intelligent menu navigation
- Field-related documentation

» GPS-Switch automatic part-width section control

With up to 128 part-width sections to relieve driver stress, reduce the use of inputs and increase precision at high speeds and at night.

» GPS-Maps&Doc

For documenting the work done and utilising application maps for part-area, site-specific application.



» agrirouter and myAmaRouter App

For simple and secure data exchange between AmaTron 4 and a Farm Management Information System.

ready for
agrirouter



» FILM about
SmartService 4.0 –
SmartLearning

Find out more!



» SmartLearning

For the safer use of your AMAZONE machinery

AMAZONE SmartLearning provides interactive driver training where the user can independently practise operating a complex machine on a PC or smartphone without working in the field. This means that drivers and engineers are given the opportunity to familiarise themselves with the machine in advance with the help of the modules and to learn the basics. Experienced end users can refresh their knowledge and thereby increase their output potential.

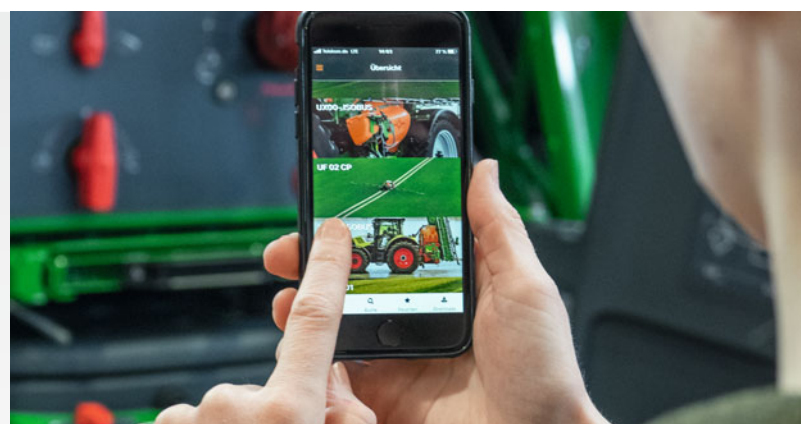
The following practical advantages are provided:

- Helpful information for the correct use and adjustment of the machines available within a few minutes
- Easy preparation for the new season
- Video tutorials provide assistance if you are unsure of how to operate the machine
- You can familiarise yourself with the operation of a machine before you buy it

Learn more about operating the machine
Click here to go to SmartLearning:
www.amazone.net/smartlearning

» SmartLearning App

Get the SmartLearning App
directly on your smartphone.





» mySpreader App

The precise setting recommendations for your AMAZONE fertiliser spreader can be easily found using the fertiliser database in the mySpreader App directly in the field via a mobile device by entering in the machine type, working width, fertiliser type and application rate.



» FertiliserService

Comprehensive advice for optimum spreader setting

The spreader test hall in the Spreader Application Centre is the central hub for research, development and series production support at AMAZONE. When a new spreading material is to be included in the setting chart, it is tested in the spreader test hall. The Spreader Application Centre is also in close contact with the fertiliser manufacturers, in order to be able to inform our customers at an early stage about new spreading materials with reliable setting recommendations.

We offer comprehensive advice as part of our FertiliserService, in order to provide our customers with the best possible

support in the application of fertilisers and other spreading materials. The extensive fertiliser database already contains the appropriate setting recommendations in most cases. If this is not the case, a customised setting recommendation can be provided free of charge by sending in a 5 kg sample of fertiliser which is then analysed in our fertiliser laboratory.

The FertiliserService works across borders, but not only geographically. Because no matter whether your fertiliser spreader is 1 or 50 years old, we will always be able to provide you with expert and reliable advice.

On-line FertiliserService

The on-line FertiliserService enables you to request the current setting recommendations for the optimum lateral distribution of your AMAZONE fertiliser spreader from our database at any time.



www.amazone.net/fertiliserservice

Contact details of the FertiliserService

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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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MI8796 (en_II) 05.22