



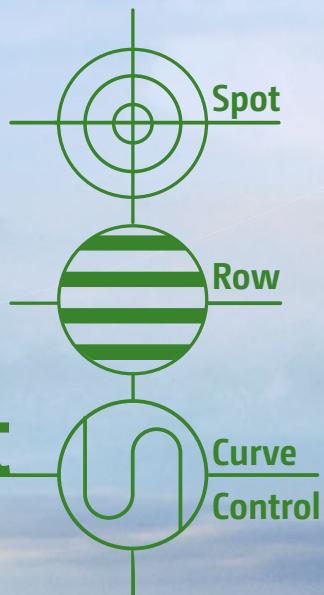
AMAZONE

www.precision-today.net

» PRECISION in perfection



AmaSelect





AMAZONE

Precision plant protection in perfection

Our aim is to continuously advance crop protection technology through innovation. For you, this means achieving your goal of effectively and cost-efficiently protecting your crops and keeping them healthy.

The use of precision technology, such as the AmaSelect electric individual nozzle switching on the UX trailed and the Pantera self-propelled sprayers, is essential in achieving these goals. In combination with the automatic part-width section control GPS-Switch, AmaSelect enables part-width sections of only 50 cm, thanks to its individual nozzle switching. This prevents up to 85 % less overlap in wedge-shaped fields or on headlands compared with conventional methods, and reduces the amount of plant protection agent needed by up to 10%. Two absolute must-haves.

NEW: To help make your crop protection application even more precise and efficient, we offer AmaSelect with different levels of individual nozzle switching equipment. Precision can be even further increased and the use of plant protection agent further reduced with the AmaSelect CurveControl, AmaSelect Row and AmaSelect Spot functions.

This enables cost savings while contributing to sustainable, environmentally-friendly agriculture.

Your AMAZONE Team



Precision TODAY
AmaSwitch electric individual
nozzle switching



Just right!

When you buy a new ISOBUS fertiliser spreader, an ISOBUS crop protection sprayer or a Precea precision air seeder with an AmaTron 4 operator terminal, you will receive a GPS-Switch basic licence for the automatic switching of up to 16 part-width sections, worth €950.00 (not incl. VAT), free of charge within the campaign period from 1 November 2020 to 28 February 2021! If you require increased control, as provided by AmaSelect with up to 128 part-width sections, you will need the GPS-Switch pro licence as well!

For a binding quotation please contact your participating AMAZONE sales partner. Campaign only valid for Germany/Austria. Cannot be combined with any other campaign!

» Further information is available at www.amazone.net/licences





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Precision

One of a kind: AmaSelect

Electric individual nozzle switching with 50 cm part-width sections

The AmaSwitch electric individual nozzle switching consists of a four-fold nozzle body with electric on/off and additional switching between nozzles. As well as 50 cm part-width sections, which can be automatically controlled using GPS-Switch, the system enables electric switching between the four mounted nozzles via the operator terminal, as well as fully automatic switching when changing the driving speed or application rate.

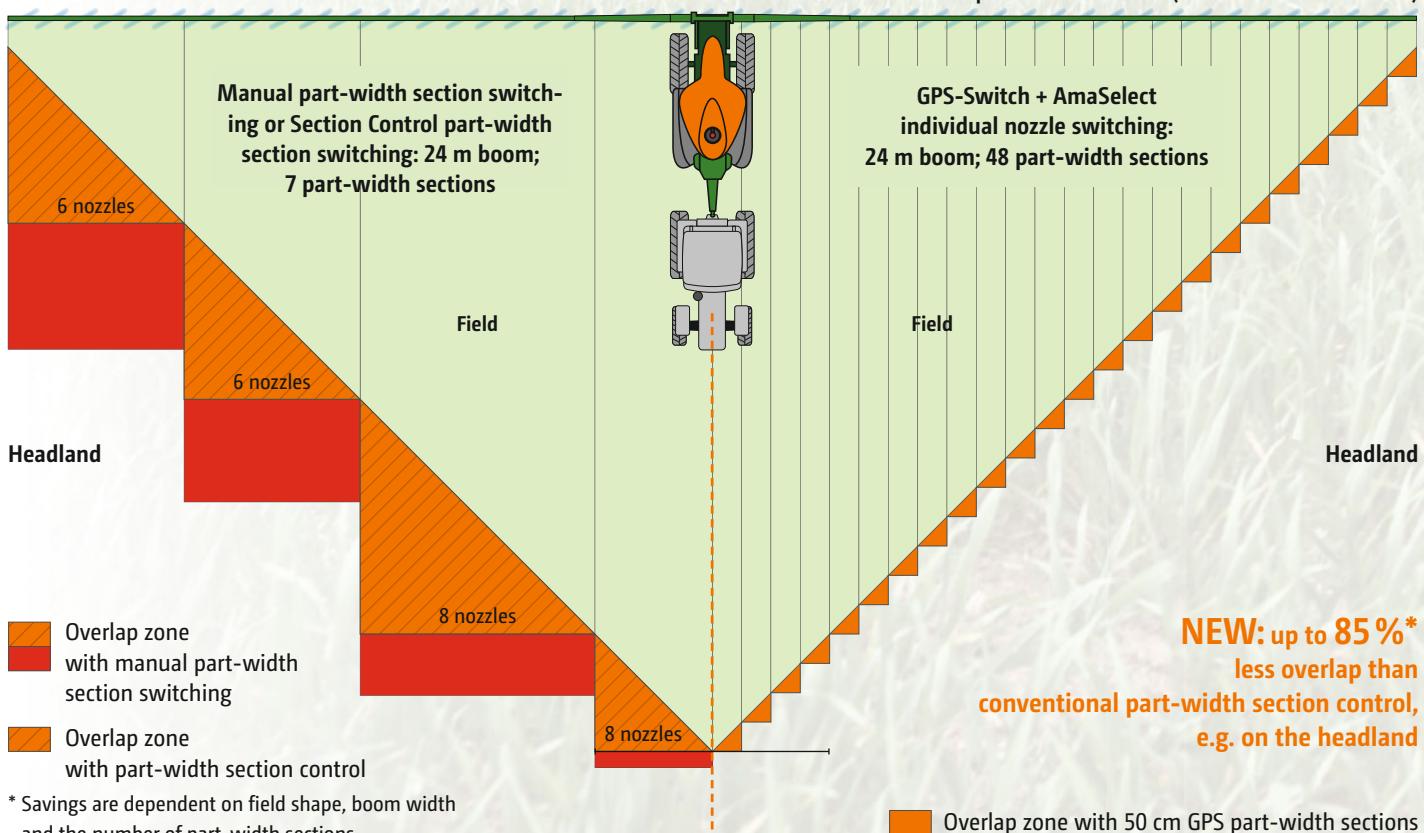
The top benefits:

- Up to 80 part-width sections with 50 cm spacing
- Four nozzles per nozzle body
- Perfect 25 cm nozzle spacing using the extension set – optional
- Automatic nozzle changeover and switching
- Nozzle selection from the cab
- Nozzle pairs can also be run in combination
- Freely programmable part-width sections
- High pressure recirculation (DUS pro)
- With LED individual nozzle lighting
- Optimised application rate whilst driving around bends with AmaSelect CurveControl
- Part-area application based on spot application maps with AmaSelect Spot
- Switching to band spraying from the cab with AmaSelect Row – optional



AmaSelect: 50 cm GPS part-width sections! 85 % less overlap!*

Example: 24 m boom width (6-6-8-8-8-6-6 = 48 nozzles)



* Savings are dependent on field shape, boom width and the number of part-width sections



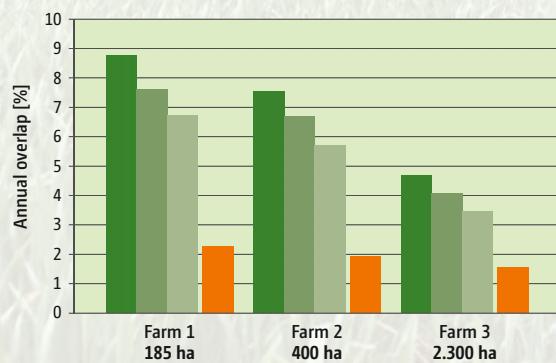
SAVINGS IN plant protection agent

5%*

with the GPS-Switch automatic headland
and part-width section shut-off

+ 5%*

with AmaSelect electric single nozzle control



Sprayer equipment level:

- 9 part-width sections
- 11 part-width sections
- 13 part-width sections
- 50 cm part-width section individual nozzle switching

Calculated example:

Annual average overlapping of conventional part-width sections vs. 50 cm part-width sections in combination with Section Control

Important knowledge for field analysis

- Average overlap with 50 cm part-width sections only 1.92%
- Average overlap with 9 part-width sections 7%
- Short payback period for large farms due to annual saving potential
- Due to smaller field sizes, smaller farms save proportionally more
- When growing crops with a high demand on crop protection (e.g. potatoes, beet), the 50 cm part-width section is particularly cost-effective



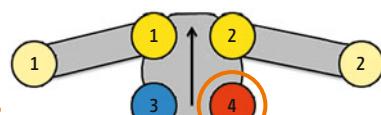
AMAZONE

HeightSelect

Optimum distance to the target at all times

Using HeightSelect in conjunction with AmaSelect, it is now possible to continuously and automatically adjust the distance between the boom and the target crop according to the nozzle spacing and nozzle type on the UX 01 trailed and Pantera self-propelled sprayers. When the nozzle is switched on, the automatic boom guidance ensures an optimal distance to the target. This degree of automation increases the efficiency of the respective plant protection agent and reduces the driver workload.

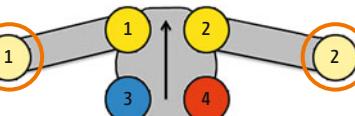
Functional principle of HeightSelect



Automatic spraying height: 57 cm



110° nozzle: 50 cm nozzle spacing



Automatic spraying height: 45 cm

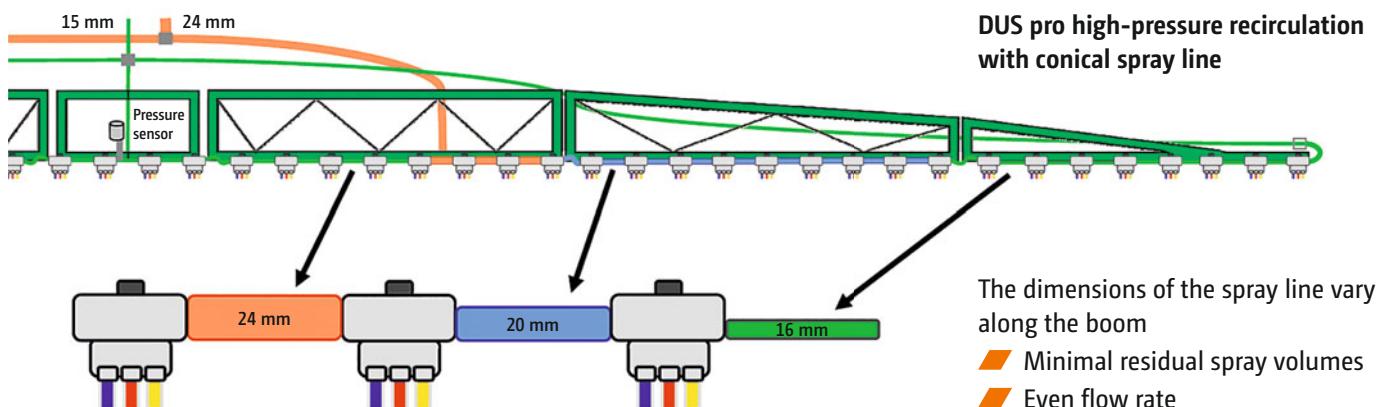


80° nozzle: 25 cm nozzle spacing

DUS pro pressure recirculation system

Constant spraying pressure with minimal residual spraying volumes

With the DUS pro pressure recirculation system, the spray agent is always in motion, even when the nozzles are closed – which prevents any build-ups. The spraying pressure is constant right up to each individual nozzle and at the set spraying pressure. In addition, the conical spray lines keep residual spray volumes in the liquid circuit to a minimum.





AmaSelect with quad nozzle body and extension set
for a perfect 25 cm nozzle spacing

LED individual nozzle lighting

Say goodbye to fumbling in the dark!

Professional work lighting is today the basis of a flexible, output-increasing solution to operating in twilight and at night. LED individual nozzle lighting picks out each individual spray fan. Nozzle function can be reliably assessed, down to the very last nozzle on the boom.



**AMAZONE**

AmaSelect CurveControl

Optimised application when driving round bends



Find out more!



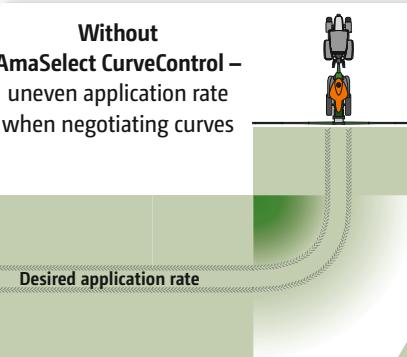
Video

With CurveControl for the AmaSelect electric individual nozzle switching, the UX 01 traile sprayer and Pantera self-propelled sprayer gain yet another valuable function for driving around bends. As well as nozzle pressure, CurveControl measures the radius of the curve using sensors and automatically calculates the pressure adjustment for the adjusted flow rate. The system then balances out the application rate on the boom with automatic nozzle switching.

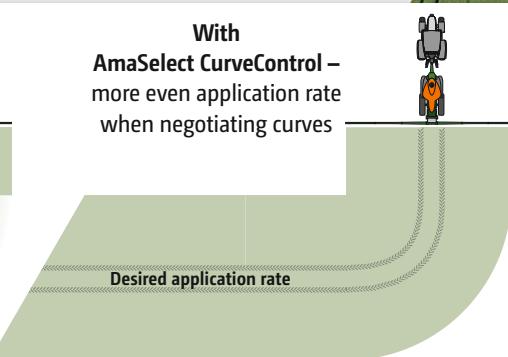
Advantages of AmaSelect CurveControl combined with the ContourControl boom:

- Consistent application quantity across the entire working width when driving around bends
- Optimum crop management
- Prevention of resistance by underdosing

Without
AmaSelect CurveControl –
uneven application rate
when negotiating curves



With
AmaSelect CurveControl –
more even application rate
when negotiating curves



AmaSelect Row – equipped for the future

Precise band spraying for reduced usage of plant protection agent

Find out more!



Video

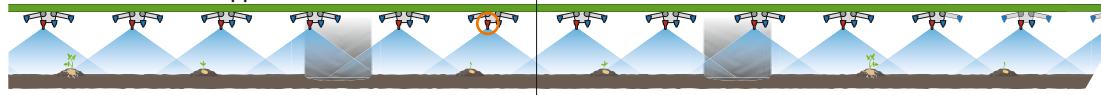
With AmaSelect Row for the UX 01 traile and Pantera self-propelled sprayers, AMAZONE now offers the possibility to convert a machine with AmaSelect nozzle bodies remotely from the cab from whole-area application to row-specific band spraying. With row-specific band spraying using special 40° nozzles, the use of plant protection agents can be reduced by up to 65%.

Row specific applications in crops with a 50 cm row spacing can very easily be implemented without any further retooling. The optional extension set for the AmaSelect nozzle body, with 25 cm nozzle spacing, also enables row-specific application in crops with a row width of 75 cm. Only the nozzles at the desired spacing are switched on for that purpose. Alternative row widths, such as 45 cm for sugar beet, can be achieved with an additional nozzle arrangement.

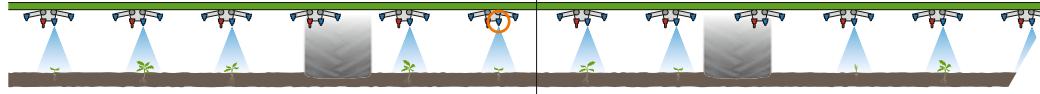
Advantages of AmaSelect Row:

- Switching between band spraying and full-width spraying at the push of a button
- Different row spacings possible, thanks to the optional 25 cm extension set
- Outstanding user comfort, with integrated filling menu for quantity calculation
- Use of plant protection agents reduced by up to 65%

Traditional full-width application



Band application in sugar beet 50 cm



Band application in potatoes 75 cm







AMAZONE



AmaSelect Spot – Equipped for the future

Part-area, site-specific crop protection treatments based on spot application maps with AmaPad 2

Find out more!



Video

To reduce the amount of plant protection agent needed, AMAZONE offers part-area, site-specific weed control based on highly accurate spot application maps for the UX 01 trailedd sprayer and Pantera self-propelled sprayer with AmaSelect individual nozzle switching. The spot maps are generated by external providers.

In the first step, the field to be treated is mapped and converted into a spot application map. Depending on the service provider, different procedures are used to map the field area, such as drones, satellite or special sensor frames.

In the second step, weeds are spot-treated across the surface area. To do so, the spot application map simply needs to be loaded onto the AmaPad 2 ISOBUS operator terminal. Unlike blanket treatment approaches, AmaSelect individual nozzle switching lets you treat only those areas where there are actually weeds.

Advantages of AmaSelect Spot:

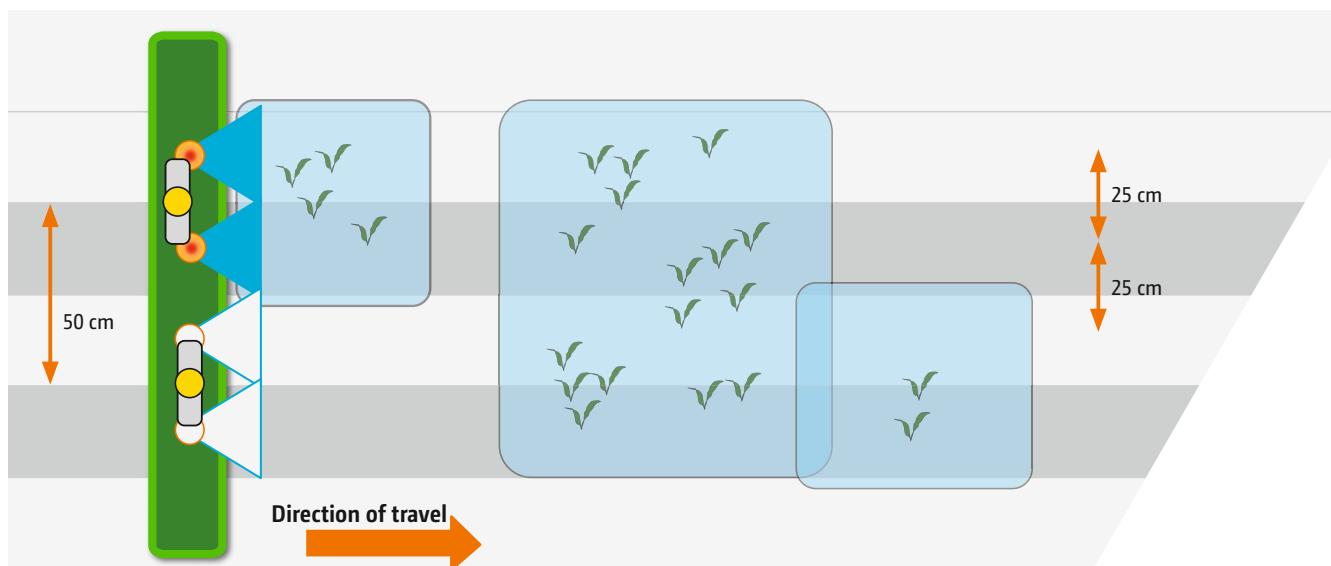
- Precise spot spraying of weeds with the standard AMAZONE crop protection sprayer
- Reduces use of plant protection agents by up to 80%
- Protects the environment
- Minimal residual spray volumes, thanks to exact planning of application rate using the spot application maps
- Prevents resistance, thanks to small-area spot application with 100% concentration of plant protection agent



Precision with AmaSelect Spot

- 25 cm nozzle spacing using special SpotFan nozzles
- 50 cm part-width section control for highly accurate control of spot margins
- Switching to full-width application possible at any time

Processing the application maps
in AmaPad 2



Schematic actual distances between weed and spot margin are greater



AmaSelect Spot with DroneLink

DroneWerkers is a provider from the Netherlands that creates the spot maps. The areas to be treated are surveyed by drones, analysed using artificial intelligence, and converted into a spot application map.



Images are recorded by drone using a special RGB camera





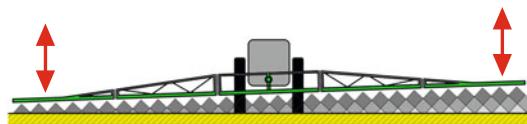
The ultimate precision team: AmaSelect with ContourControl and SwingStop

Optimal interaction of individual nozzle switching and boom guidance

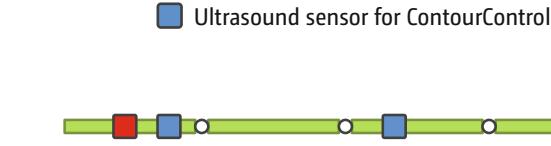
When using large boom widths, AmaSelect Row or on hilly terrain, the high-precision AMAZONE boom guidance can be even further optimised with active ContourControl boom guidance combined with the active SwingStop vibration damping on the UX 01 trailed sprayer and the Pantera self-propelled sprayer.

Advantages of ContourControl:

- Optimum lateral distribution
- Precise, rapid and automatic height control
- Target surface distance under 50 cm – less drift
- Rapid folding
- Maximum precision at fast working speeds

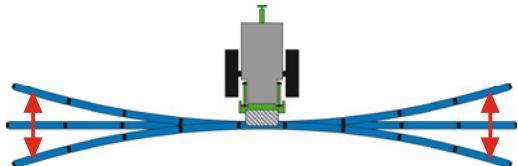


Goal: Prevent negative vertical boom movement



Advantages of SwingStop:

- Optimum longitudinal distribution
- Reduction of horizontal boom movement for a smooth boom ride
- Rapid, elegant and precise system with fast working speeds



Goal: Prevent negative horizontal boom movement

■ Acceleration sensor for SwingStop

■ SwingStop cylinder



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.



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