



AMAZONE

UX



UX trailed sprayers



SPEED
spraying

UX trailed sprayers, in tank capacities from 3,200 to 11,200 litres are characterised by their robust and operator-friendly design. Equipped with either Super-S2 or Super-L2 sprayer booms, and in working widths from 15 to 40 m, the UX models offer the highest of efficiency.



UX – slick – sleek – sly

	Page
Top features & benefits	4
Product family	6
Technology Tank, frame and braking systems	10
Technology Drawbars and towing eyes	12
Technology Steering	14
Technology Operator station	16
Operation Rinsing, agitating, cleaning	20
Control AMASPRAY+ ProfiClick	22
Control ISOBUS terminals	24
Control AMATRON 3	26
Control GPS-Switch, GPS-Track and GPS-Maps	28
Control CCI 100 AMAPAD	30
Control Comfort-Pack	32
Booms	33
DUS and boundary nozzle switching	40
AmaSwitch and AmaSelect	42
Plant protection management	46
Special equipment	48
UX 11200	52
UX 11200 Technology Chassis, drawbar, tank	54
UX 11200 Technology Steering	56
UX 11200 Operation Controls	58
UX 11200 World record Practice reports	60
AMAZONE Service	62
Technical data	64

Spray liquid tank with

3,200 to 6,200 litres

AmaSwitch or AmaSelect

individual nozzle switching as an option

Boom widths from

15 to 28 m

DUS

pressure recirculation system
as an option



Super-S2 and Super-L2

sprayer booms in lightweight design

Top features:

- ⊕ Profile steel frames that are as strong as an ox
- ⊕ Lightweight spray tank with favourable centre of gravity and absolutely smooth walls
- ⊕ Multiple axle and drawbar steering versions of choice
- ⊕ Sprayer booms from 15 to 40 m in super-light, super-strong and super-compact profile design
- ⊕ Parallelogram suspension of the multi-shock damped boom
- ⊕ Option of Profi-fold for flexible boom folding and DistanceControl for improved boom guidance
- ⊕ AmaSwitch or AmaSelect individual nozzle switching as an option – for 50 cm part-width section control
- ⊕ Induction bowl with power injector for quick, safe and precise operation
- ⊕ Maintenance-friendly self-priming piston diaphragm pump which can be run dry
- ⊕ Optional Comfort-Pack for automatic filling, cleaning and switchover procedures





UX 6200 Super
with 36 m Super-L2 boom



MORE INFORMATION
www.amazone.net/ux

ISOBUS offers many advantages:

- ⊕ All AMAZONE ISOBUS sprayers are certified to UT 2.0 in accordance with the AEF conformity test. This means that these AMAZONE machines can be operated via any terminal which is available on the market that has also been certified according to UT 2.0. In addition, with an ISOBUS compatible SectionControl licence, AMAZONE ISOBUS sprayers can be switched via a third-party ISOBUS terminal.
- ⊕ AMAZONE's AMATRON 3, CCI 100 and AMAPAD terminals and all AMAZONE ISOBUS machines support the AUX AEF functionality. This means, that, for instance, the keys of an existing AUX-N compatible multi-function joystick can be reprogrammed to suit an individual's needs. So, any function is there, exactly where the operator wants it to be.

Introducing a comprehensive family

UX 3200 Special
3,600 litres | 24 m



UX 4200 Special
4,600 litres | 27 m

UX Special with single pump:

- ✔ UX 3200 Special, 15–30 metres
- ✔ UX 4200 Special, 15–30 metres

UX Super with tandem pumps:

- ✔ UX 3200 Super, 18–36 metres
- ✔ UX 4200 Super, 18–40 metres
- ✔ UX 5200 Super, 18–40 metres
- ✔ UX 6200 Super, 18–40 metres



UX 5200 Super
5,600 litres | 39 m



UX 6200 Super
6,600 litres | 36 m

Spray liquid tank with

11,200 litres

AmaSwitch or
AmaSelect

individual nozzle switching as an option

Boom widths from

24 to 40 m

Super-L2

sprayer boom in lightweight design



Triple pump system with

900 l/min

suction capacity



Top features:

- ⊕ Huge tank volume, actual capacity 12,000 litres for maximum efficiency
- ⊕ Tank design with a favourable centre of gravity for optimised in-field and on-road behaviour and giving a quick interior cleaning
- ⊕ Single-Trail running gear or, as an option, the fully automatic DoubleTrail axle steering from choice
- ⊕ Hydro-pneumatic, tank fill level controlled axle suspension – for comfortable and safe travel on the road
- ⊕ Optional traction assistance for up to 30% more support load on the tractor rear axle
- ⊕ Sprayer booms from 24 to 40 m in super-light, super-strong and super-compact profile design
- ⊕ Parallelogram suspension of the multi-shock damped boom
- ⊕ AmaSwitch or AmaSelect individual nozzle switching as option – for a 50 cm part-width section control
- ⊕ Triple pump system with efficient, maintenance-friendly and self-priming piston diaphragm pumps which can be run dry
- ⊕ Standard with Comfort-Pack for automatic filling, cleaning and switchover procedures
- ⊕ Protected and centralised hose and cable routing



DUS

pressure recirculation system
as an option

UX 11200 Super
with 36 m Super-L2 boom

🔗 UX 11200 special section on page 52



MORE INFORMATION
www.amazone.net/ux11200

ISOBUS offers many advantages:

- ⊕ All AMAZONE ISOBUS sprayers are certified to UT 2.0 in accordance with the AEF conformity test. This means that these AMAZONE machines can be operated via any terminal which is available on the market that has also been certified according to UT 2.0. In addition, with an ISOBUS compatible SectionControl licence, AMAZONE ISOBUS sprayers can be switched via a third-party ISOBUS terminal.
- ⊕ AMAZONE's AMATRON 3, CCI 100 and AMAPAD terminals and all AMAZONE ISOBUS machines support the AUX AEF functionality. This means, that, for instance, the keys of an existing AUX-N compatible multi-function joystick can be reprogrammed to suit an individual's needs. So, any function is there, exactly where the operator wants it to be.

The combination of design, ergonomics, innovation and reliability

Tank – beautiful yet smart!

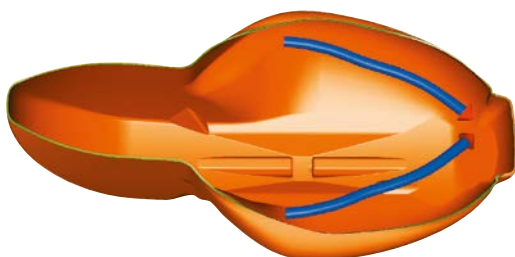
The compact tank is made from polyethylene to be particularly strong and long lasting. The completely smooth inner and outer walls of the tank with rounded corners and no nooks and crannies ensure quick and easy internal and external cleaning.

Important: Residual spray volume is kept to a minimum due to the special shape of the tank bottom

No need for internal baffles due to the optimised conical shape. For instance, during tractor braking, the liquid in the tank is concentrated at the centre thus preventing any surging.

The result: Safety even at high forward speeds.

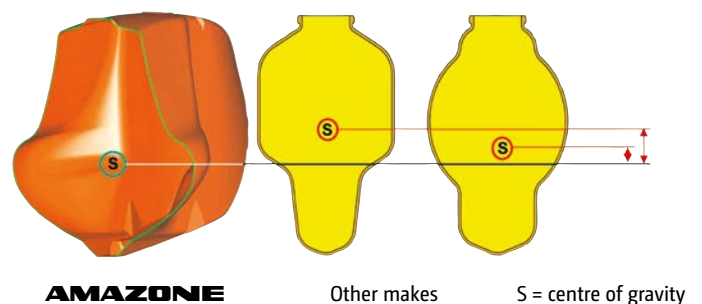
The shape of the UX tank and the compact AMAZONE boom ensure a low centre of gravity and very compact transport dimensions. In addition, the boom is supported close to the back of the wheels using the parallelogram suspension.



The tank design offers the following specific features:

- ✔ low transport height
- ✔ less tank nooks and crannies
- ✔ reduced boom overhang behind the wheels
- ✔ low centre of gravity
- ✔ allows parallelogram boom suspension
- ✔ internal tank baffles no longer necessary
- ✔ simple internal tank cleaning
- ✔ minimal residues

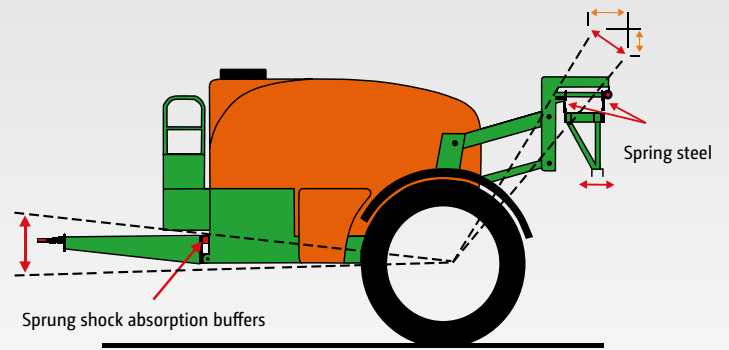
Low centre of gravity – the decisive difference!



✔ Functional tank design

- Slim-line tank with favourable centre of gravity
- Smooth tank walls for easier cleaning inside and outside
- Minimised residual volumes even on slopes due to the optimised design
- JKI-tested agitation efficiency





The frame – strong and yet elastic!

The wide profile steel frame made from high grade steel, the compact tank and the robust boom technology all add together to provide the necessary strength. All edges are rounded off; all hoses are perfectly routed so that they are protected inside the frame.

Hydraulic height adjustable jack for increased comfort

A height adjustable jack is integrated in the frame and with its convenient optional hydraulic height adjustment makes coupling to the tractor quick and easy. A manual mechanical retainer has been fitted as standard.



Drawbar damping protects the boom

The drawbar supplied as standard with a shock absorption system to minimise the horizontal to and fro movement within the base machine. The sprung steel centre boom section (on 4-section fold booms) is a further measure towards protecting the boom when travelling quickly on the road or in the field.

Axle and brakes – Safety first!

With a permitted travelling speed of up to 50 km/h and available, as an option, with ALB (automatic load related braking valve), the UX is perfectly suited for road travel. Tyres, up to 520/85 R46 (2.05 m diameter), with their large contact surface result in little ground pressure. Track width adjustment of the fixed axles can be specified from 1.50 to 2.25 m and by turning round the wheels two track widths are possible. The adjustable axle (UX 3200/UX 4200) with its infinitely variable track width potential from 1.50 to 2.25 m provides the utmost flexibility. The large ground clearance of approx. 80 cm and the flat, smooth chassis underbelly design with additional deflector plate made from stainless steel prevents crop damage. For arduous conditions on the road, axle suspension is also available. For extreme conditions, there is a hydro-pneumatic sprung axle option with patented roll stabilisation.



Drawbars and towing eyes



✔ Towing eyes

The UX field sprayer can be equipped with a clevis trailer coupling which is TÜV certified to tow up to a maximum of 12 t at 50 km/h.

❗ "Even on poor country lanes and at high speed we had, in fact, nothing to complain about its driving behaviour."

(dlz agrar magazine – Test report "Safe on the road" · 06/2011)



Straight drawbar, steered



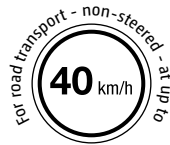
Hitch drawbar, rigid with hydraulic pump drive

Strong, shock absorbed drawbar!

All drawbars - no matter whether steered or rigid, upper or lower hitched - are provided with the drawbar shock absorbance system, an important design element in the UX. Minimising the to and fro movements between frame and drawbar it also protects the booms and prevents any rocking movement of the tractor keeping the operator comfortable. Towing eyes with 40 or 50 mm (50 mm also as a pivoting option) or the modern K 80 ball coupling ensure suitability for any tractor type.

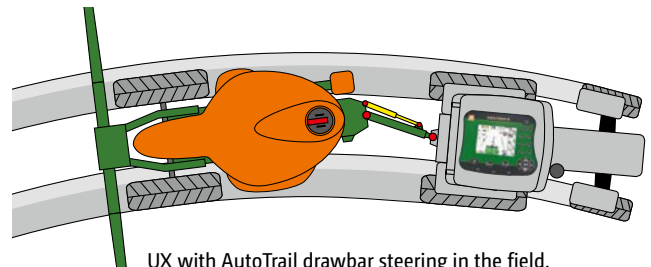
As an alternative to PTO shaft drive, the UX can be equipped with a hydraulic pump drive. Largely unaffected by engine revs, the pump is driven at a gentle, constant speed. LS Profi-fold (load sensing) with active accumulator provides a error-free operation of all hydraulic functions such as AutoTrail and DistanceControl.

AutoTrail drawbar steering



For the UX 3200 and UX 4200, in working widths up to 28 m, there is the option of AutoTrail drawbar steering when working on level ground.

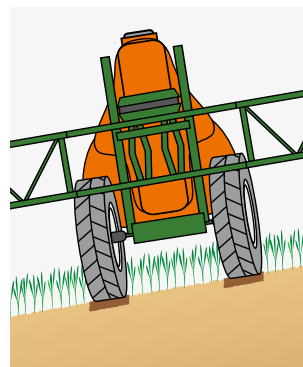
Alternatively, for the steering drawbar, there is hydraulic drawbar control that is usable, for instance, when turning in row crops. In the transport position 40 km/h on the road can be achieved non-steered.



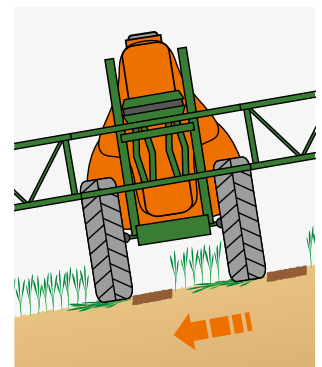
UX with AutoTrail drawbar steering in the field.

AutoTrail with slope compensation

As an option, AutoTrail steering can now also be equipped with a tilt sensor for fully automatic slope compensation. This functions with both axle steering and drawbar steering. As the steering angle, depending on severity of the terrain, has to be possibly adjusted, the intensity of the setting can be altered at any time via the joystick. One particular help offered by AutoTrail is that, in and around tight yards, the drawbar steering can also be released when the booms are folded in.



Activated slope compensation for AutoTrail steering



Deactivated slope compensation

Steering systems for every application

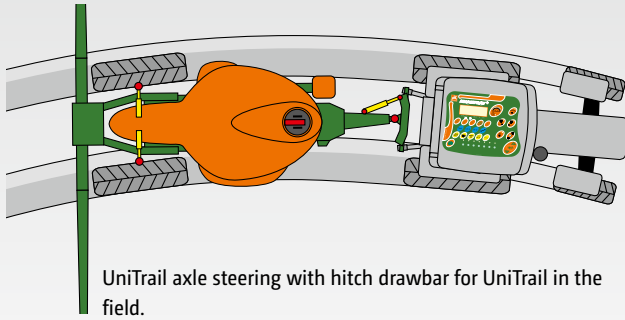


! "When the wheels are turned in the field, hardly any steering forces are transferred to the booms. Therefore the steering is continuously active in the field – even in straight wheel tracks. Then if the tractor steers, the wheels of the sprayer are immediately also steered. How smoothly this happens we were able to see during operation. It didn't matter whether we drove fast or slowly, nothing wobbled on the boom when turning."

(dlz agrar magazine – Test report "Safe on the road" · 06/2011)

✓ AutoTrail axle steering

The AutoTrail axle steering ensures the especially smooth boom guidance and a perfect stability. The track-following capability, particularly when in the reversing position, is outstanding. This steering of the axle is also possible in the folded-in position.



UniTrail axle steering with hitch drawbar for UniTrail in the field.



UniTrail axle steering



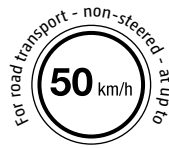
UniTrail axle steering offers an excellent level of operational comfort with its very simple operation. Without needing electronics or a continuous oil circulation, the axle is very simply mechanically steered - and even manual hillside correction is built in. The steering system is directly

❶ "The benefit of axle steering systems are especially noticeable in sloping terrain. Because the steering does not change the centre of gravity, the sprayer remains stable."

(dlz agrar magazine – Test report "Safe on the road" · 06/2011)

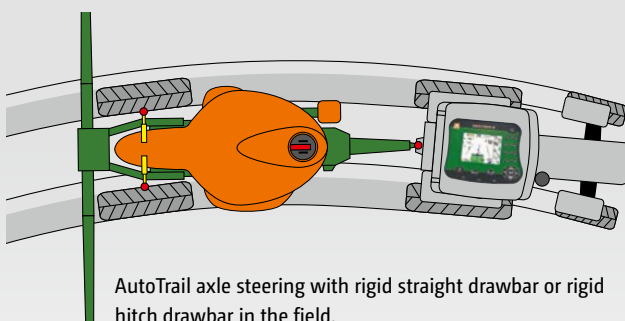
connected with regard to the steering action and oversteers a little when coming into the curve. The UniTrail steering system can be isolated from the tractor cab for transport, allowing comfortable and safe road transport at speeds of up to 40 km/h.

AutoTrail axle steering



AutoTrail axle steering offers the driver the highest level of comfort due to the elegant control via the multi-function joystick AmaPilot.

The sophisticated software provides an intelligent, true-track following steering operation and can be simply calibrated for each tractor type. The AutoTrail steering can be activated at any time and can be overridden for manual correction when working on side hills. Road transport speeds of up to 50 km/h are possible when the steering is deactivated.



AutoTrail axle steering with rigid straight drawbar or rigid hitch drawbar in the field.



Operator station UX Special

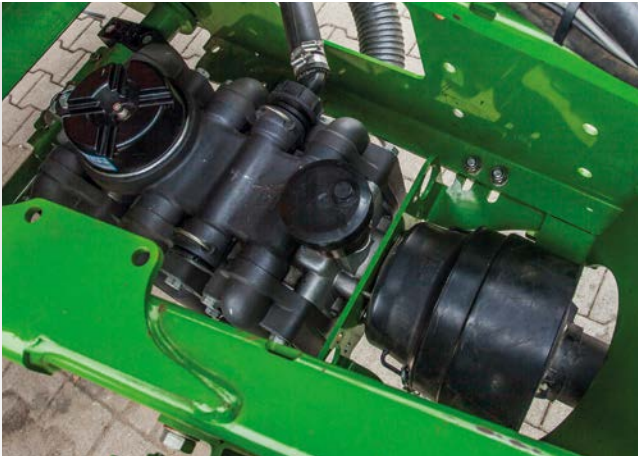
2" suction valve for machines with one pump – filling performance of up to 500 l/min



☑ Centralised operator station of the UX Special

All UX crop protection sprayers are equipped with a central ergonomically designed control centre. All control elements are logically and unmistakably arranged directly to the front left-hand side of the sprayer.

All operational procedures are accurately indicated by simple lever positions.

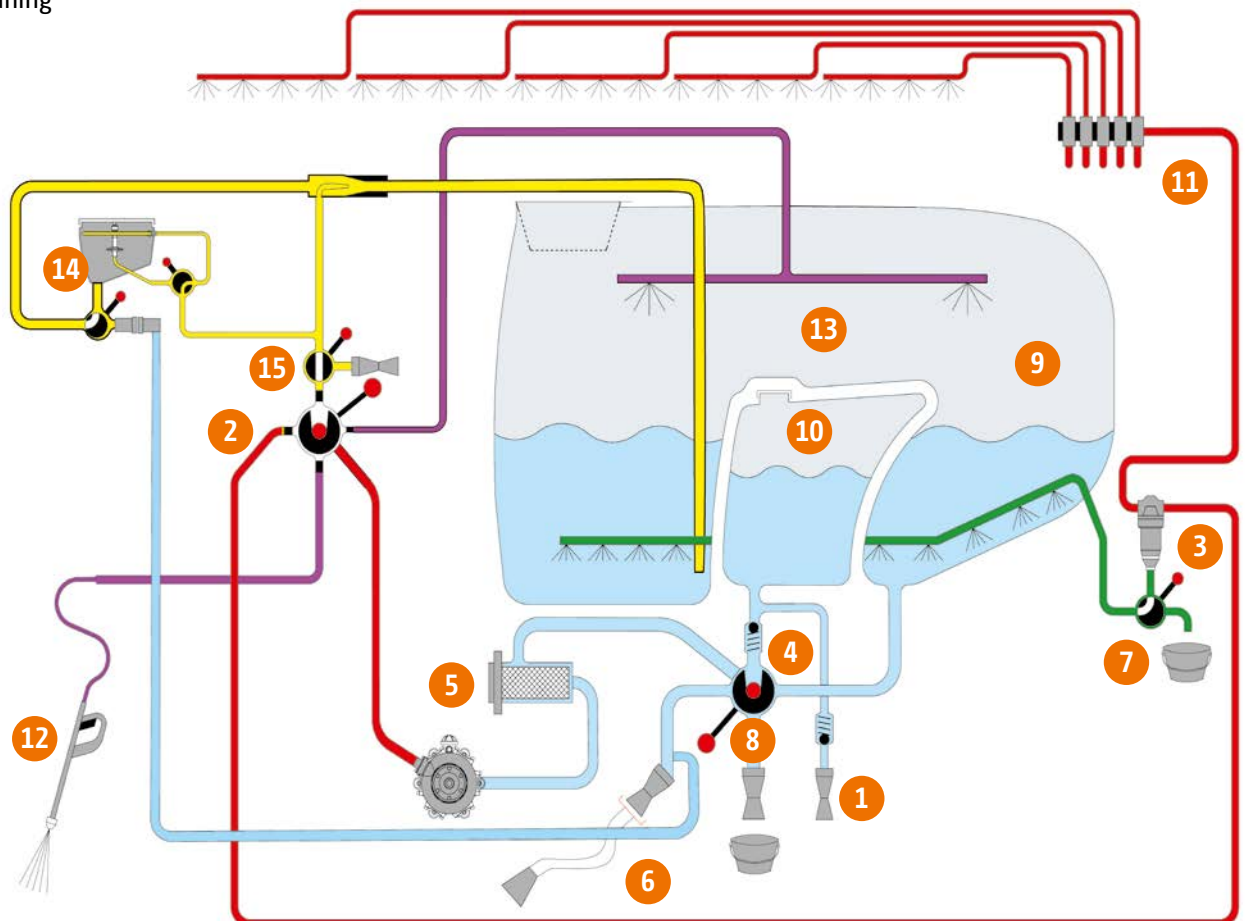


The UX Special can be equipped with either a 260 l/min or 380 l/min pump

Switching on the injector enables fill capacities of up to 700 l/min (UX Super) and 500 l/min (UX Special).

✔ UX Special equipped with single pump

- Suction side
- Pressure side
- Cleaning
- Agitation
- Induction



✔ The controls for the UX Special

- | | | | |
|---|--|--|--|
| <p>1) Fill port
Fresh water rinse tank</p> <p>2) Pressure Vario-Control valve for spraying, inducing, internal or external cleaning</p> | <p>3) Self cleaning pressure filter: individual emptying prior to opening</p> <p>4) Suction Vario-Control valve for filling, spraying, flushing, rinsing</p> <p>5) Large, central suction filter: cleaning possible with a filled tank</p> | <p>6) Fill port for suction hose (3")</p> <p>7) Agitator valve(s) for infinitely variable setting of the agitation intensity</p> <p>8) Pressure-free residue emptying</p> <p>9) Spray agent tank</p> | <p>10) Fresh water rinse tank</p> <p>11) Part-width section valves</p> <p>12) External cleaning</p> <p>13) Internal cleaning</p> <p>14) Induction bowl</p> <p>15) Quick emptying</p> |
|---|--|--|--|

Operator station UX Super

3" suction valve for machines with tandem pumps – filling performance of up to 700 l/min



✔ Centralised operator station of the UX Super

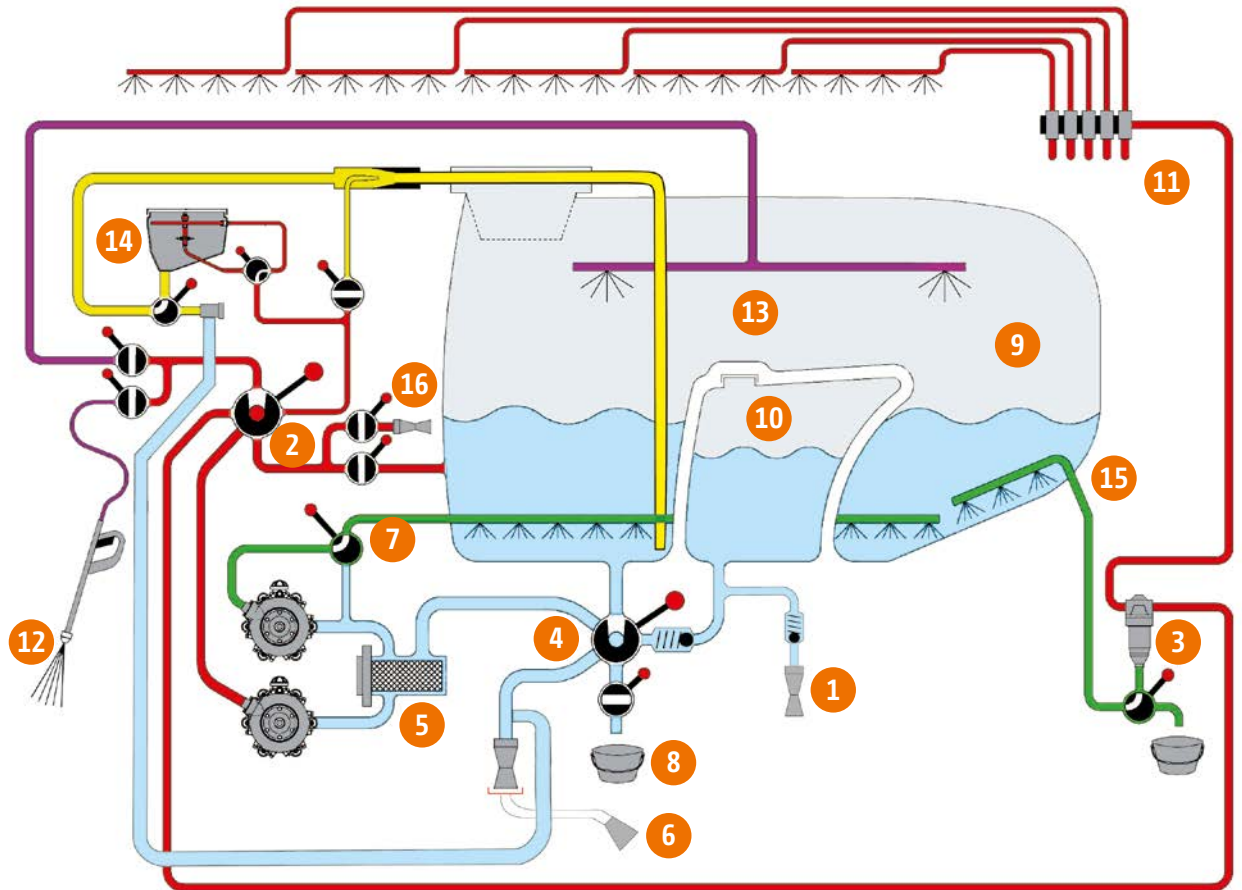
All UX crop protection sprayers are equipped with a central ergonomically designed control centre. All control elements are logically and unmistakably arranged directly to the front left-hand side of the sprayer. All operational procedures are accurately indicated by simple lever positions.



The suction filter can be opened even when the machine is full without losing any spray liquid.

✔ UX Super with tandem pumps

- Suction side
- Pressure side
- Cleaning
- Agitation
- Induction



✔ The controls for the UX Super

- | | | | |
|---|--|---|-------------------------------|
| 1) Fill port
Fresh water rinse tank | 3) Self cleaning pressure filter:
individual emptying prior to opening | 6) Fill port for suction hose (3") | 10) Fresh water rinse tank |
| 2) Pressure Vario-Control valve
for spraying, inducing,
internal or external cleaning | 4) Suction Vario-Control valve for
filling, spraying, flushing, rinsing | 7) Agitator valve(s) for infinitely
variable setting of the agitation
intensity | 11) Part-width section valves |
| | 5) Large, central suction filter:
cleaning possible with a filled tank | 8) Pressure-free residue emptying | 12) External cleaning |
| | | 9) Spray agent tank | 13) Internal cleaning |
| | | | 14) Induction bowl |
| | | | 15) Additional agitation |
| | | | 16) Quick emptying |

Induction bowl

Precise, economical and environmentally friendly



Induction bowl and power injector

The high-performance induction bowl features a volume of 55 l and ensures the safe induction of crop protection agents. The circular ring line, including an additional nozzle within the induction bowl, means that powdered or granulated spray agents can be quickly and safely dissolved and simultaneously quickly inducted via the power injector.

The induction bowl is completely dust-proof when closed so that no dirt is allowed to penetrate and no liquid to escape.

Also, with the Ecofill port, transferring small amounts from large canisters is made considerably easier.

Canister rinsing with the aid of the induction bowl

Problem-free cleaning of the spray agent canisters and thus also making full use of the canister contents is possible by flushing with the rotating nozzle and the closed induction bowl can also be rinsed for self-cleaning.



Ecofill with rinsing pedestal – clean filling from large containers

Filling via the suction hose

Agitation and cleaning facility

High performance and environmentally-friendly



Infinitely variable, hydraulic agitation intensity

The intensity of the hydraulic agitation can, steplessly, be reduced down to nothing in order to avoid any foaming of the crop protection agent or to facilitate spraying out the remaining tank contents.

On AMAZONE crop protection sprayers the un-sprayed plant protection agent is delivered back via the return flow into the suction system. In this way any unintended agitation of the spray liquid via the return flow is prevented.

Cleaning equipment for both inside and out

Three powerful rotating nozzles clean the spray agent tank. Short pipe runs and the smallest cross sectional areas ensure minimal residues.

With the spray lance of the exterior wash down kit, the outside of the crop protection sprayer can be thoroughly cleaned after use whilst still in the field.

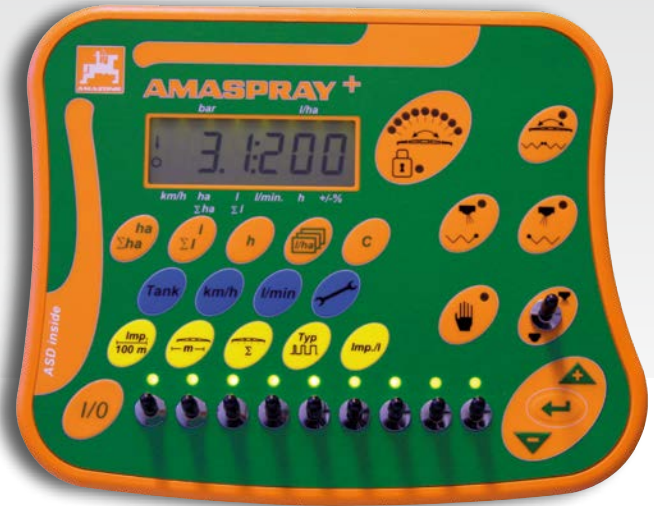


AMASPRAY⁺ on-board computer

AMASPRAY⁺ – simple and versatile

AMASPRAY⁺ enables the simple yet fully automatic regulation of the UG. Switches, integrated into the operator terminal, make possible the isolation of 5, 7 or 9 boom part-width sections. AMASPRAY⁺ has digital pressure indication and digital tank level indication. It registers both, the quantity sprayed and the area worked. The actuation of the hydraulic functions though is carried out via the tractor control valves. AMASPRAY⁺ also visually indicates boom tilt and locking. As an option, AMASPRAY⁺ enables one sided folding of the boom or alternatively the access to the boundary and end nozzle spraying systems.

The AMASPRAY⁺ operator terminal with serial Interface can also be used for the automatic documentation (ASD) and part area site-specific application.



Standard functions:

- ✔ Single, high-contrast, backlit screen
- ✔ Overall and part-width section control
- ✔ Up to 9 part-width sections
- ✔ Digital pressure indication
- ✔ Digital fill-level indicator
- ✔ Display of boom position and locking status
- ✔ Hectare counter (total and daily counter)
- ✔ +/- 10 % key
- ✔ Field record management system

Special functions:

- ✔ Pre-select fold for the independent boom folding
- ✔ End or boundary nozzle on/off control (alternatively to pre-select fold)
- ✔ Fold or tilt via 1 double acting control valve (electric changeover unit)
- ✔ ASD inside: serial interface



Electrically-controlled TG valve chest

For actuation using either ISOBUS or AMASPRAY⁺, modern valve chest technology is utilised. The part-width boom sections are switched, on and off, quickly and drip-free via electric motor valves with pressure relief.

In all situations the spray rate is exactly and quickly controlled directly via the computer and so negating the need for any mechanical equal pressure control.

ProfiClick

The small switchbox
with a huge comfort factor



✔ ProfiClick mounts conveniently on the AMASPRAY⁺

For boom control and steering

The ProfiClick switchbox offers the simple and precise actuation of all hydraulic functions of the booms and steering with AMAZONE crop protection implements.

It is available in combination with the electro-hydraulic pack "Profi-fold 1" for the entire crop protection sprayer product range from AMAZONE. All the operational functions of the ProfiClick switchbox are ergonomically arranged and directly linked with a function. The potentiometer for the re-adjustment of boom tilt or for the automatic steering of a trailed sprayer can be controlled on the move without looking thanks to the centre position via a detent function. So the driver can concentrate perfectly on driving.

The ProfiClick switchbox for actuating the hydraulic functions of an AMAZONE sprayer can be combined with AMASPRAY⁺, AMATRON 3 or with any other ISOBUS terminal. Thus it offers a favourable and comfortable control of the hydraulic functions via an oil circuit. On the tractor, only one single acting spool valve with a pressure-free return flow is required.

ProfiClick is available for UF, UG and UX without steering and the UG with drawbar steering or for a UX with axle steering.



✔ ProfiClick switchbox without steering
– Actuation of the boom functions via the oil circuit



✔ ProfiClick switchbox with steering
– Actuation of the boom functions and the steering for true track following via the oil circuit

- ① Ergonomic hand support
- ② On/off
- ③ Boom pendulum lock
- ④ Boom fold
- ⑤ Boom up/down
- ⑥ Boom tilt

- ① Ergonomic hand support
- ② On/off
- ③ Steering automatic/manual
- ④ Manual steering
- ⑤ Boom pendulum lock
- ⑥ Boom fold
- ⑦ Boom up/down
- ⑧ Boom tilt



ISOBUS terminals

ISOBUS is the name for a communication standard, valid world-wide, between operator terminals, tractors and implements on the one hand and agricultural office software on the other hand. That means with one terminal you can control all ISOBUS compatible implements.

The UX sprayer can be operated with different AMAZONE ISOBUS terminals:



AMAZONE AMATRON 3
5.6" size screen



AMAZONE CCI 100
8.4" size touch screen

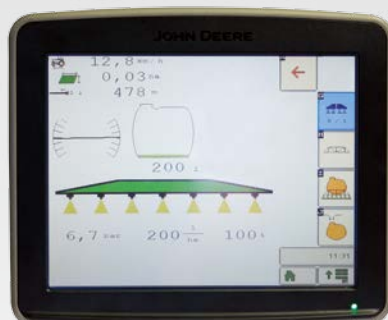


AMAZONE AMAPAD
12.1" size touch screen

Other ISOBUS terminals



e. g. Fendt Vario terminal



e. g. John Deere GreenStar



e.g. Müller COMFORT terminal

MEMBER OF



✔ AmaPilot multi-function joystick

Actuating the boom and control chest functions is particularly comfortable via the AmaPilot multi-function joystick. All the functions in the operation menu can also be actuated via the AmaPilot multi-function joystick or other ISOBUS joysticks (AUX-N).



The benefits thanks to ISOBUS:

- ⊕ AMAZONE ISOBUS sprayers are UT 2.0 certified and as such can be operated via any ISOBUS terminal with UT 2.0.
- ⊕ All AMAZONE ISOBUS terminals and job computers support the AUX standard enabling the keys to be assigned on any AUX-N compatible multi-function joystick.
- ⊕ AMAZONE ISOBUS sprayers can be accessed with any ISOBUS compatible Section Control licence.

Special characteristics of AMAZONE ISOBUS sprayers:

- ✔ Up to three user profiles and individual interfaces for different drivers can be created.
- ✔ The operation menu can be optimally matched to the differing numbers of keys on other ISOBUS terminals.
- ✔ Any machine function can be freely positioned in the menu set-up.
- ✔ Complete documentation via TaskController (ISO-XML). As an alternative to documentation via TaskController, the simple recording of field data (worked area, required time and applied rate) is possible. The recorded data can then be captured as a screen shot and then exported via a USB stick.

Important information

Please note that when working with other ISOBUS terminals, additional Section Control software, for example, from the tractor manufacturer, is normally necessary. This is not usually included in the standard version of other ISOBUS terminals.

2-terminal solution

A twin-terminal solution with the simultaneous use of a tractor ISOBUS terminal and AMATRON 3 or CCI 100 is recommended if the tractor terminal does not support the Section Control function or if you intend to use the sprayer via AMATRON 3 or CCI 100 and a separate screen.

Modern operator terminals



AMATRON 3

AMATRON 3 is fully downwardly compatible to AMATRON⁺ and upwardly compatible to the ISOBUS standard and forms a bridge between the non-ISOBUS and ISOBUS world.

AMATRON 3 enables the user to safely and comfortably operate both AMAZONE implements with AMATRON⁺ (AMABUS) and implements that meet the ISOBUS standard. Needless to say, even if these are not from AMAZONE.

AMATRON 3

The terminal for all crop protection functions

Accurate metering and simple operation

The AMATRON 3 operator terminal allows the fully automatic regulation of the pre-set application rate (l/ha). Rate changes are possible in pre-selected % steps.

Due to its clear, simple and logical handling and its illuminated keys, this terminal is especially operator-friendly. For monitoring the system a high contrast and low reflection display has been installed. The very compact shape of the terminal requires little space in the tractor cab.

By using two flow meters, the application rate is extremely precisely maintained, particularly at low spray rates.

The terminal features the following functions:

- ✔ ISOBUS machine operation
- ✔ AMABUS machine operation
- ✔ Tractor ECU function
(Interface for speed and PTO shaft)
- ✔ TaskController job management for documentation
- ✔ Import/Export of field data via a USB stick
- ✔ GPS-Switch automated part-width section control (optional)
- ✔ GPS-Track parallel guidance system (optional)
- ✔ Optional external light bar display for GPS-Track parallel guidance
- ✔ GPS-Maps application map module (optional)
- ✔ ASD interface via RS232 (nominal rate transfer), e.g. for N sensors



Standard functions:

- ✔ Overall and part-width section on/off
- ✔ Digital pressure indication
- ✔ Digital fill-level indicator
- ✔ Display of boom position and locking status

Special functions:

- ✔ Foam marker
- ✔ End or boundary nozzle on/off control
- ✔ Pre-select fold for the independent boom folding
- ✔ Profi-fold for independent boom folding or boom tip angling (only 1 tractor control valve required)
- ✔ DistanceControl – automatic boom guidance
- ✔ Comfort-Pack – remote controlled liquid flow circuit
- ✔ GPS-Switch, GPS-Track and GPS-Maps



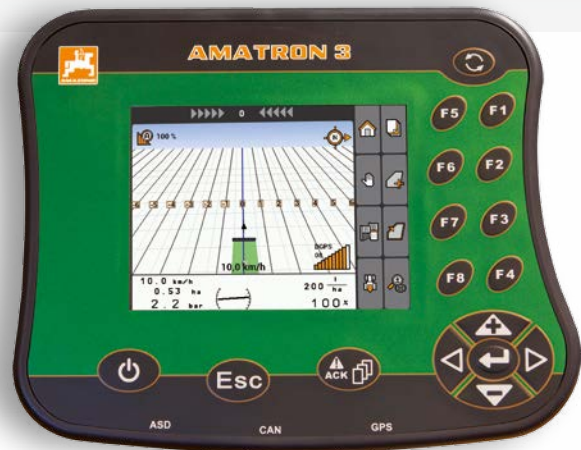
✔ AMACLICK

Special crops and bed work often require the on/off switching of the individual part-width sections in the middle of the boom. AMACLICK is an additional ergonomic control unit that can be used either in conjunction with the AmaPilot multi-function joystick or also though as a standalone system alongside an ISOBUS terminal.

GPS-Switch, GPS-Track and GPS-Maps

Even more precision with GPS-Switch, GPS-Track and GPS-Maps

Available as optional equipment: GPS-Switch automated headland and part-width section control, GPS-Track parallel guidance and GPS-Maps part-area site specific application map function.



GPS-Switch for AMATRON 3

This GPS assisted operator terminal system automates the exact control of the machine on the headlands, around the field border and when spraying in wedges. The working width and the arrangement of the part-width sections are taken into account.

The automatic GPS-Switch part-width section control offers precision, comfort and safety: simply select the desired degree of overlap and leave the GPS-Switch in automatic mode. So, even in difficult circumstances, such as wider working widths, limited visibility at dawn or dusk, or in high crops, the job can be mastered. In addition: you save up to 5 % on crop protection agents, whilst at the same time safeguarding the environment and can fully focus on monitoring the sprayer.

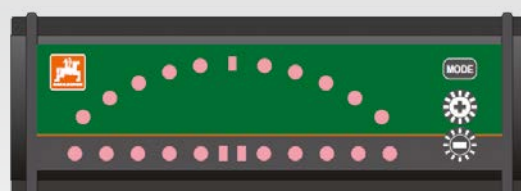


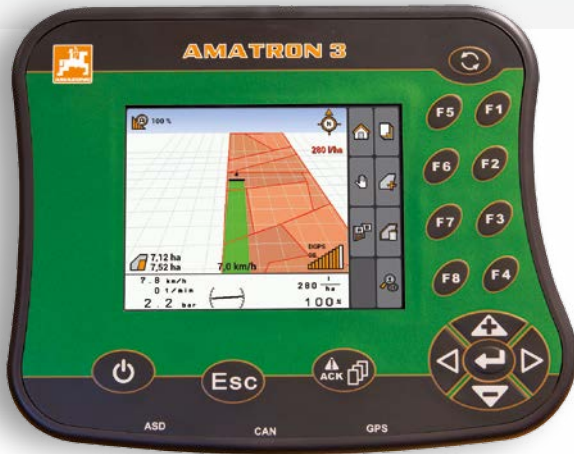
GPS-Track for AMATRON 3

The GPS-Track parallel driving aid turns out to be an enormous advantage for easy orientation in fields without tramlines or on grassland. It features various track modes, such as A-B line and contour travel and an obstacle function. The bouts are numbered all the way across. The deviation from the true line is shown on the display. Unmistakable steering recommendations help keep you in the track. Also the distance to the next tramline is shown precisely, providing the ideal guide, for example, when locating the correct maize row.

External light bar for GPS-Track parallel driving aid

As a possibility, an external light bar display is available which can be easily used in conjunction with GPS-Track. The external light bar display can be freely positioned anywhere in the cab.





GPS-Maps for AMATRON 3

The additional module enables GPS-based processing of application maps in a Shape file format. Both in AMABUS, and also in ISOBUS mode.

The direct application rate can be used or the amount of spray agent. With AMATRON 3, the spray rates can still be adapted.

Task Controller is available as standard and enables the processing of application maps in ISO-MXL format, both in AMABUS and also in ISOBUS mode, even without GPS Maps.



Future proof technology

The serial interface (RS232), that enables use to be made of sensor technology (e.g. Yara N-Sensor) or different GPS terminals, is integrated, as standard, into the comprehensive equipment level provided by AMATRON 3 and AMASPRAY+.

So, depending on the target and the terminal, several possibilities are offered, both for part-area site specific application from a map or using a sensor. You, as the operator, can decide for yourself on the right system for your conditions and application.

Documentation with ASD

Starting from field records, the automatic plot related documentation (ASD) offers the possibility to exchange, via a blue tooth interface, application plans and actual spray programmes with the AMASPRAY+ and AMATRON 3 operator terminals. Documentation becomes more precise and simpler. Many hand-written steps are no longer required.

ASD now enables documentation in conjunction with many major field record database providers in Europe. The ASD interface is available as an open standard for all device and software providers. With ASD, AMAZONE offers a practical, value for money documentation system for all types of farming.



CCI 100 terminal

The benefits

The CCI ISOBUS terminal from AMAZONE is the result of the cooperation with several other manufacturers of agricultural machinery who are joint participants in the Competence Center ISOBUS e.V (CCI). With CCI, AMAZONE and its partners have laid the foundation to introduce ISOBUS into practice. The CCI is the basis to convert all AMAZONE machinery and implements successively to the ISOBUS standard.

- ✔ The bright 8.4" colour display with its high screen resolution and ambient light sensor matches the brightness automatically to the light conditions. This avoids the driver in twilight or at night being blinded by too bright a display.
- ✔ Easy input via the operator-friendly touchscreen display, or via the softkeys.
- ✔ Fatigue-free operation at night is assisted by the back-lighting of the keys which are also connected with the light sensor.
- ✔ The proven AMAZONE one-handed operation is still possible because the function of the "soft keys" can be simply mirrored.
- ✔ For intuitive menu guidance and the convenient input of values and text, the terminal is provided with a high-quality touch screen.



- ✔ For the direct quick, input and adjustment of the input values, a scroll wheel with actuating function is ergonomically integrated in the housing.

The terminal includes the following functions:

- ✔ ISOBUS machine operation
- ✔ Tractor ECU function (Interface for speed, PTO shaft and lower link position)
- ✔ CCI.Control job management for documentation
- ✔ CCI.Command (optional):
 - automatic part-width section shut-off CCI.Command.SC
 - parallel guidance aid CCI.Command.PT
- ✔ Application maps supported in ISO-XML format
- ✔ USB interface for data exchange
- ✔ Interface for the connection of a GSM modem
- ✔ ASD and LH5000 interface via RS232 (nominal rate transfer), e.g. for N sensors
- ✔ Camera function CCI.Cam



- ✔ External light bar for CCI.Command.PT parallel driving aid
 - As a possible addition, an external lightbar is available which can comfortably be coupled with CCI Comand PT. The external lightbar can be positioned freely in the tractor cab. The only precondition for its utilisation is the activation of the Parallel Tracking module in CCI.Command.

AMAPAD

An especially comfortable method of controlling agricultural machinery

The new dimension in control and monitoring

With the AMAPAD operator terminal, AMAZONE offers an entirely new and high-class solution for GPS application such as automated GPS based part-width section control and Precision Farming applications.

AMAPAD features an especially ergonomic, 12.1" touch screen. With the unique "Mini-View" concept, applications that do not need to be actuated but which, however, need to be monitored, are clearly shown at the side. If needs be, these can be enlarged by "finger tip" widening. The possibility also exists to customise the display, a feature which rounds off the exceptional layout of this operator terminal.

The terminal includes the following functions:

- ✔ ISOBUS implement operation
- ✔ TaskController job management for documentation
- ✔ automated GPS-Switch pro part-width section control
- ✔ Integrated light bar for GPS-Track pro parallel steering aid
- ✔ as an option: upgradable to automatic steering
- ✔ GPS-Maps pro application map module
- ✔ RS232 interface via SCU adapter (for data exchange)
- ✔ Two USB interfaces for data exchange
- ✔ WLAN mode (via USB adapter)
- ✔ GPS output



In addition to GPS-Switch pro part-width section control, a high-quality professional manual light bar guidance system is also installed as standard. GPS-Track can also be upgraded to an automated steering system.

The characteristics of AMAPAD:

- ✔ screen made from toughened glass
- ✔ housing made from impact-proof plastic
- ✔ extra-narrow rim for maximum visibility
- ✔ flush finish, no penetration of dust / humidity

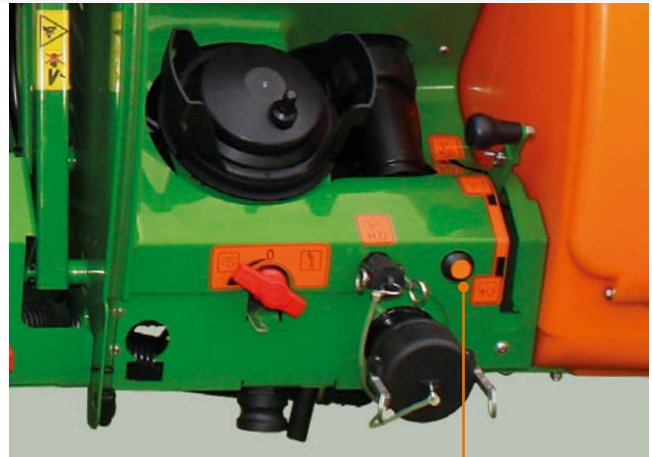


Comfort-Pack for ISOBUS terminals

Operator and environmentally-friendly



UX Special Comfort-Pack



UX Super Comfort-Pack

Control of the spray liquid system

The AMAZONE Comfort-Pack controls the most important functions of the liquid system.

- ✔ Automatic fill stop
- ✔ Regulation of the agitation plus agitator switch off for the UX Super
- ✔ Agitator switch off with the UX Special
- ✔ Automatic, in-cab remote cleaning.

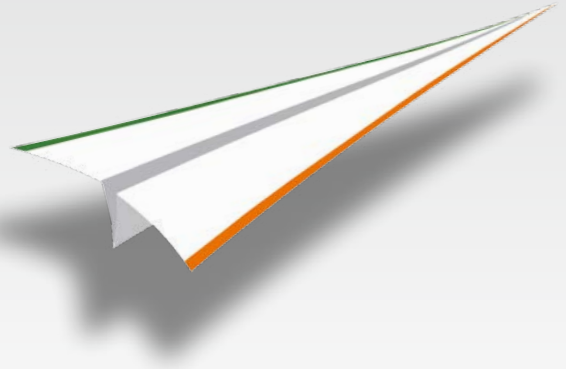
The intensity of the hydraulic agitator is, depending on the fill level, reduced until completely shut off to prevent foaming of the crop protection agent or to minimise the residual spray volumes. On AMAZONE crop protection sprayers the un-sprayed plant protection agent is delivered back via the return flow into the suction system. In this way, any unintended dilution of the spray agent is prevented.

500 l/min agitation capacity is available to achieve a perfect result even with difficult tank mixes and high concentrations. The seven sequentially switched internal cleaning nozzles provide the best cleaning job inside the tank. The Comfort-Pack automatically ensures that the agitation will be rinsed.

Minute final residual volumes of less than 20 litres and the large fresh water contents ensure a very effective cleaning procedure whilst still in the field.



AMAZONE aircraft-style boom design

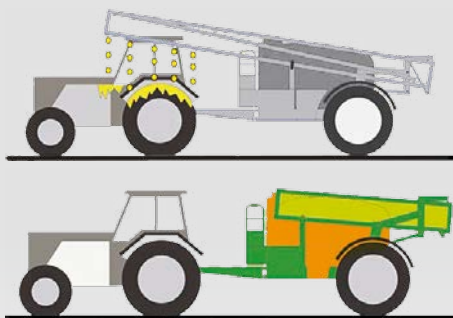


Simultaneously superbly robust and superbly light

Thanks to the special profile design AMAZONE booms are at the same time superbly light and superbly strong. The boom working widths from 15 to 40 metres allow the optimised matching of the sprayer to the structure of the farm. High-grade quality ensures a long operational life even over very high acreages.



This does not happen with AMAZONE sprayer booms!



- ✔ No spray agent from the booms drips on to the tractor. The booms also do not hit the tractor cab.

Sprung damping of the boom during transport



- ✔ Everything shipshape: The boom is located safely without movement in its transport position. The parallelogram suspension dampens shock loads in the field as well as in the transport position. This is pure convenience and, above all, ensures the long service life of the boom.



- ✔ Focussing on the substance: the road in front of you
You can concentrate entirely on driving. The visibility in road transport is exemplary. Where the tractor can get through then the trailed sprayer can also pass. No protruding parts, no boom damage. 50 km/h no problem!

Profi-fold

Flexible, quick and precise



Even better with Profi-fold!

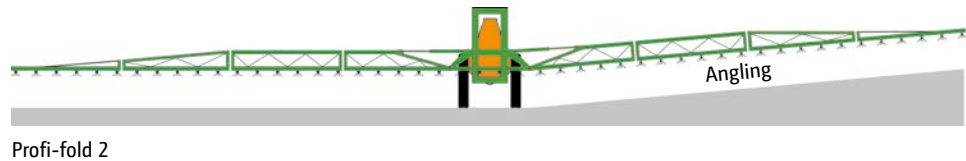
Profi-fold – flexible and comfortable. All the hydraulic functions can be carried out safely and simply via the ISOBUS terminal in the tractor cab. The multi-function joystick makes handling especially comfortable.

Profi-fold 1:
Height adjustment, fold out and in, independent one-sided folding at a reduced forward speed (max. 6 km/h), boom width reduction, tilt adjustment.

Profi-fold 2:
In addition with variable geometry, individual boom tip angling.

Standard with Profi-fold:
Large filter in the oil circuit for safe, reliable function.

Now for the first time, there is one solution that responds to all the demands on the pump drive, boom or steering hydraulics – a special load-sensing hydraulic system (LS Profi-fold). This means that AMAZONE now provides a hydraulic pump drive that is not dependent on tractor size.

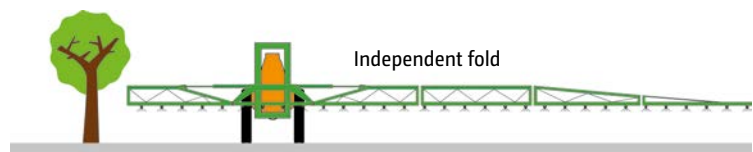


Pre-select folding

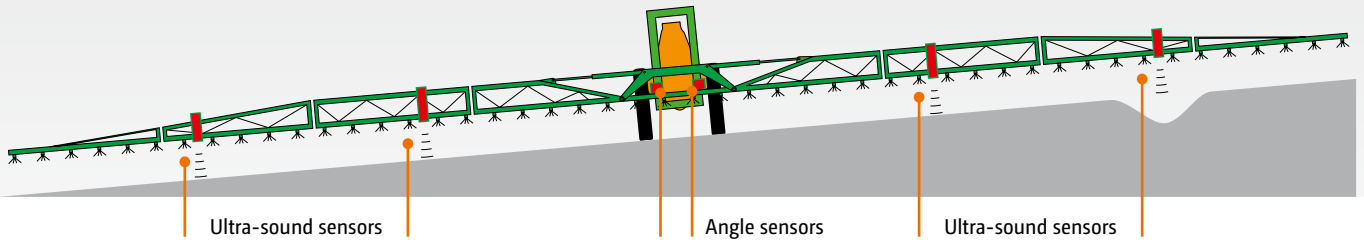
One-sided boom folding is possible through either an AMASPRAY+ or ISOBUS terminal using the tractor spool valves.

The high level of flexibility offered by the pre-select folding function enables all part width sections to be folded individually. Both the left and right-hand sides can be folded in separately

and independently of each other in order to adapt to any circumstances in your fields.



✔ DistanceControl plus



DistanceControl with 2 sensors or DistanceControl plus with 4 sensors

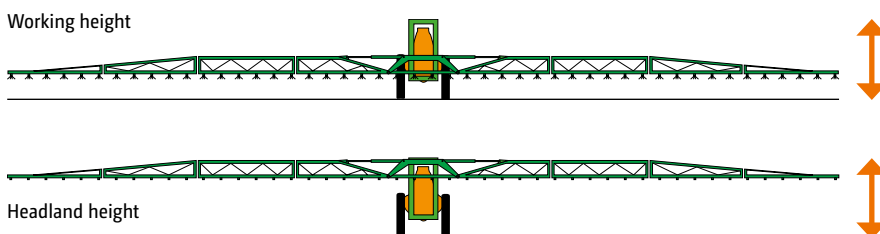
For all booms, in combination with Profi-fold 1 or 2, the fully-automatic boom guidance system DistanceControl, with 2 or DistanceControl plus with 4 sensors, is available. In heavily differing crop heights, or in areas with partially lodged corn, it could be that the boom, when equipped

with 2 sensors, dips into the crop. In this case equipping the boom with four sensors will prevent this. The sensors are electrically connected in parallel and so it is always the sensor that is closest to the target surface that is actuated.

AutoLift – the convenient automatic headland system for every UX with Profi-folding

When the sprayer is switched off whilst turning on the headland, the boom is raised automatically and when the sprayer is switched back on, the boom returns down to its working height. This reduces the risk of damage to the boom while turning on the headland.

- ✔ The spraying and headland height are stored in the ISOBUS terminal (DistanceControl menu)
- ✔ For Profi-fold 1 and 2
- ✔ As before, the tilt has to be adjusted manually



✔ Automatic boom lowering in GPS-Switch

In GPS-Switch via AMATRON 3, the boom can be set to already start to lower before the untreated area has been reached. So, when the nozzles open, the boom is already at the optimum operating height. Precondition is a field border in GPS-Switch and the function AutoLift/Profi-fold.

- ✔ Lift module 700: For an additional lift height of 70 cm.

Super-S2 boom

Superbly strong spraying technology – superbly light profile design – superbly compact mounting

Superbly compact on the road

Superbly narrow transport width of just 2.40 m on all Super-S2 booms: 15 – 18 – 20 – 21 – 24 – 27 – 28 m.

The Super-S2 boom folds fully automatically, in or out, via oversized hydraulic rams. In the transport position, the boom sits compactly behind the tank with a transport width of only 2.40 m.

The multiple-folded steel profiles of up to 140 mm wide make the Super-S2 boom extremely robust.

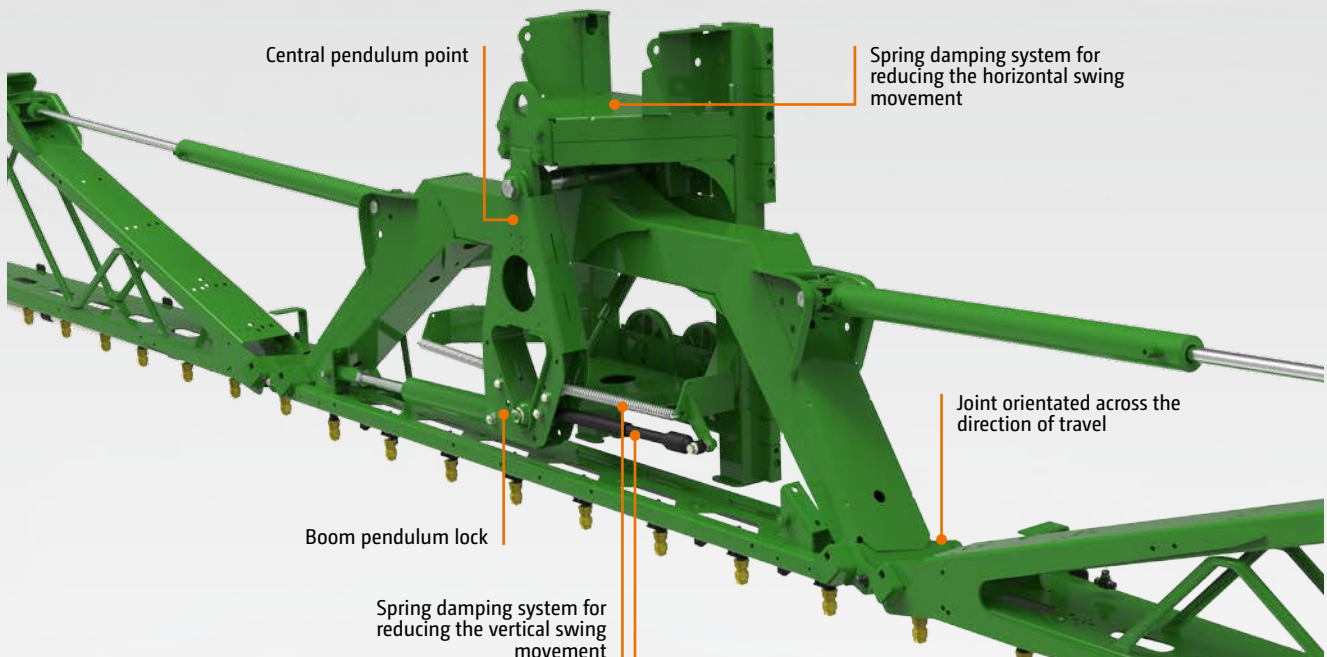
Three important elements for excellent boom guidance

Super-S2 booms come as standard with:

- ✔ central pendulum suspension for the optimum boom guidance on slopes and on level ground,
- ✔ combined spring and damping elements for shock absorbed suspension to damp down the vertical roll movements,
- ✔ integrated damping system consisting of braking plates and buffer blocks to damp down the horizontal yaw movement.

Due to the shock absorbed suspension with nitrogen accumulators in the parallelogram linkage, the Super-S2 boom is safely guided at the correct distance above the spray target surface.

Super-S2 boom suspension



UX 4200 Super,
27 m



AMAZONE booms – an idea gets its way

Drive safely!

The visibility in road transport is exemplary. Anywhere the tractor can go, the sprayer with its narrow booms goes as well. No protruding parts, no boom damage, minimal transport width.

Clean working!

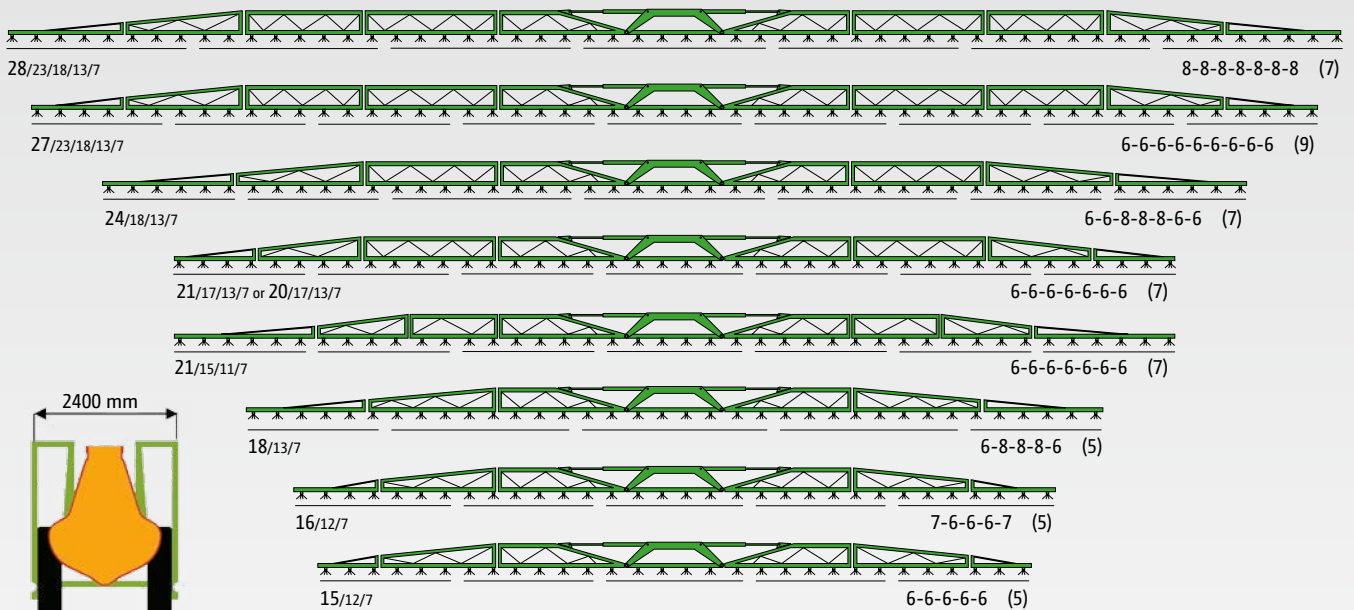
No spray agent from the booms drips on to the tractor or on the operator station and the booms also do not hit the tractor cab.

Everything shipshape!

The boom locates safely in the transport hooks. No rattling. No wear susceptible boom thar rests on the tractor. Travelling fast is not a problem.

Mechanical folding points

Examples of nozzle layout (part-width sections)



In transport position

Super-L2 booms

For large hectare work rates

Fully automatic folding in and out

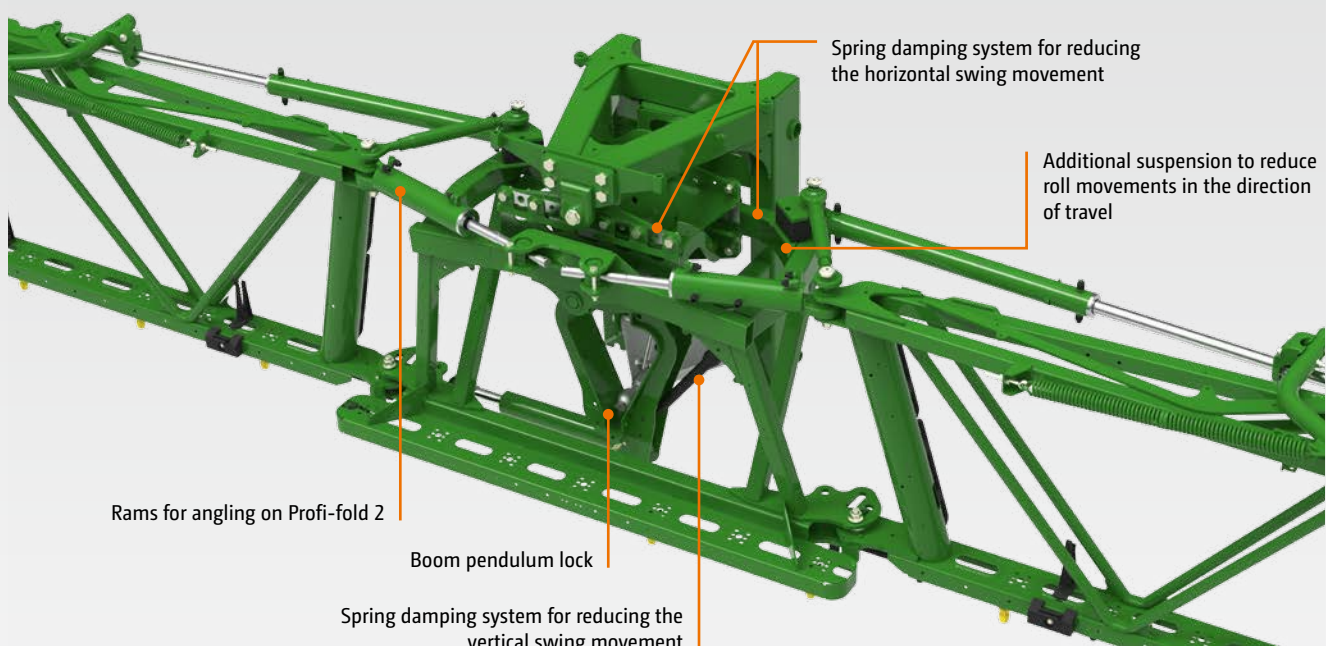
Superbly narrow transport width of just 2.40 m on all three-fold Super-L2 booms with working widths of 21, 24, 27 and 28 m. Amazing transport width of only 2.60 m on all four-fold Super-L2 booms with working widths of 27, 28, 30, 32, 33, 36, 39 and 40 m (UX 6200: 2.80m).

The Super-L2 boom is automatically folded fully in or out via oversized hydraulic rams. The folded in booms are positioned down the sides of the tank. The boom is fixed safely, without movement, on the transport locking device with any shock loads being absorbed via the parallelogram suspension even in the transport position. The multiple-folded steel profiles of up to 220 mm make the Super-L2 boom superbly robust.

As standard the Super-L2 booms are equipped with:

- ✔ an over-long central pendulum for the parallel guidance of larger booms,
- ✔ combined spring and damping elements for shock absorbed suspension to damp down the vertical roll movements,
- ✔ a large dimensioned integrated damping system consisting of brake plates and buffer blocks to damp down horizontal yaw movements and
- ✔ spring plates to damp down movement in direction of travel (only four-fold booms).

Super-L2 boom suspension



Rams for angling on Profi-fold 2

Boom pendulum lock

Spring damping system for reducing the vertical swing movement

Spring damping system for reducing the horizontal swing movement

Additional suspension to reduce roll movements in the direction of travel



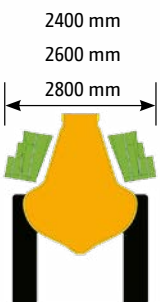
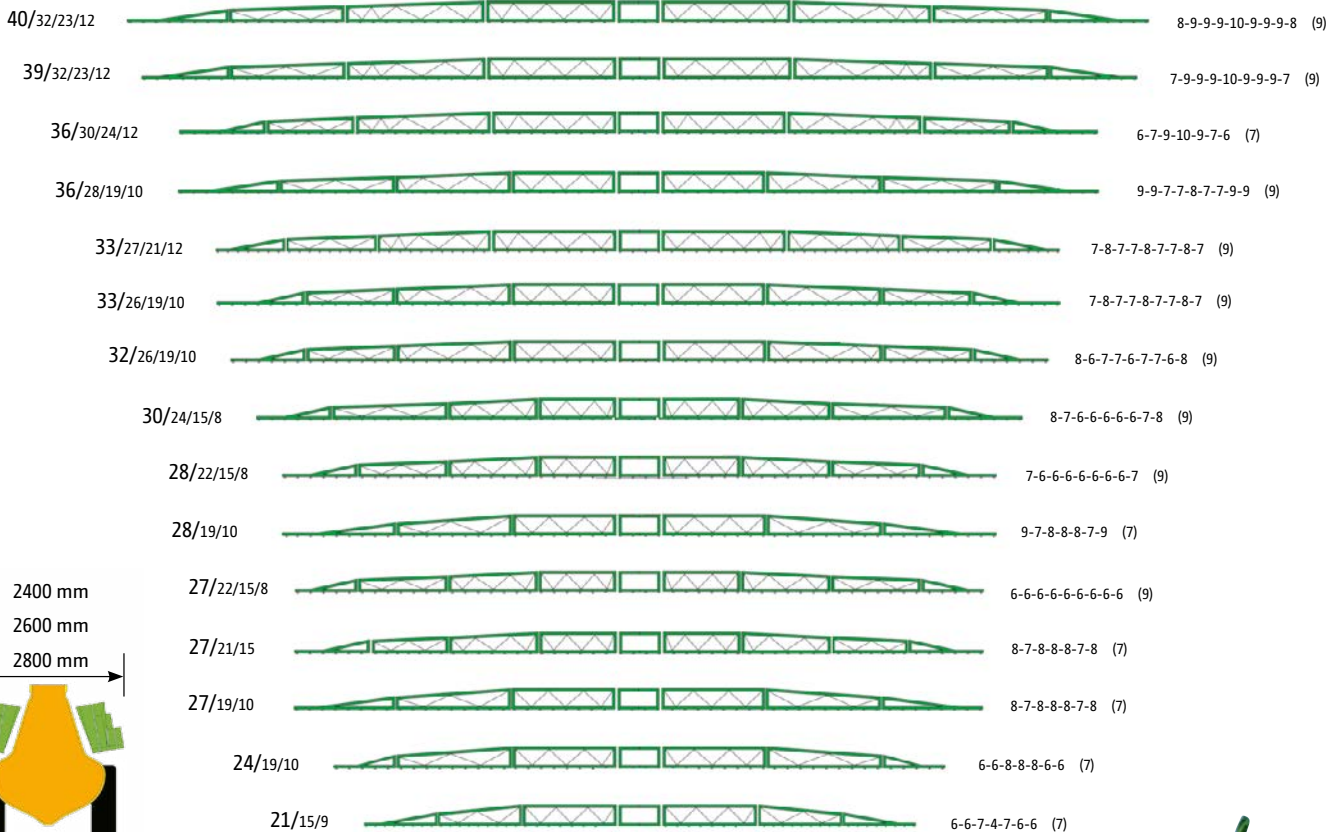
A pivot joint that lasts!



Stainless (VA) steel hydraulic fittings

The hydraulic fittings are made from high-grade steel for a longer service life and an improved resale value.

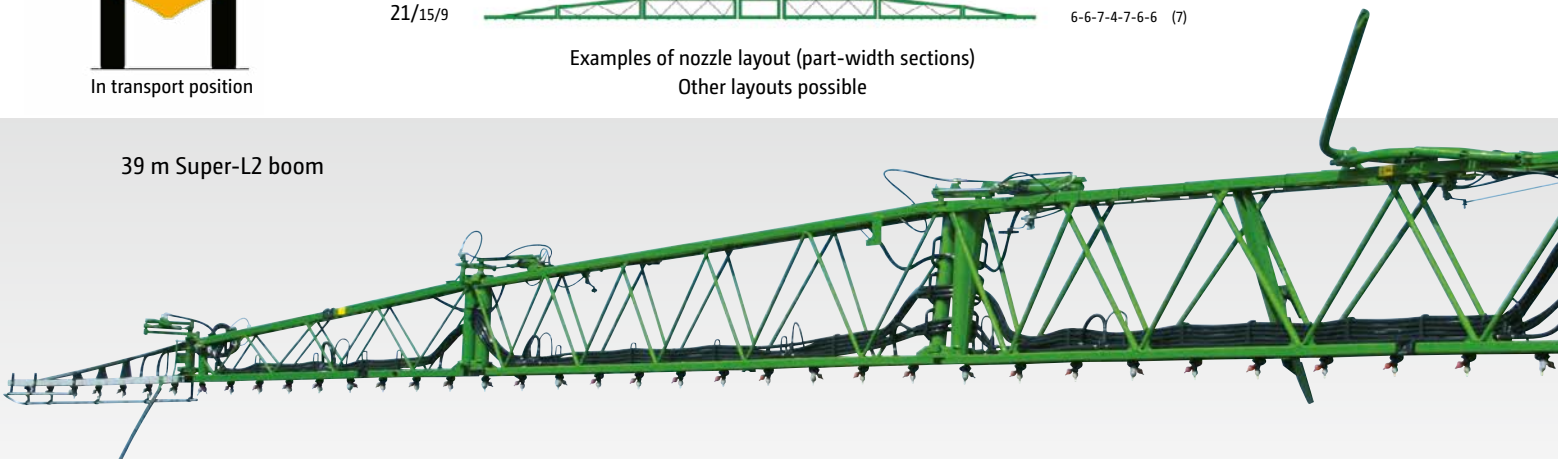
**Super-L2 boom working widths:
from 21 to 40 metres**



In transport position

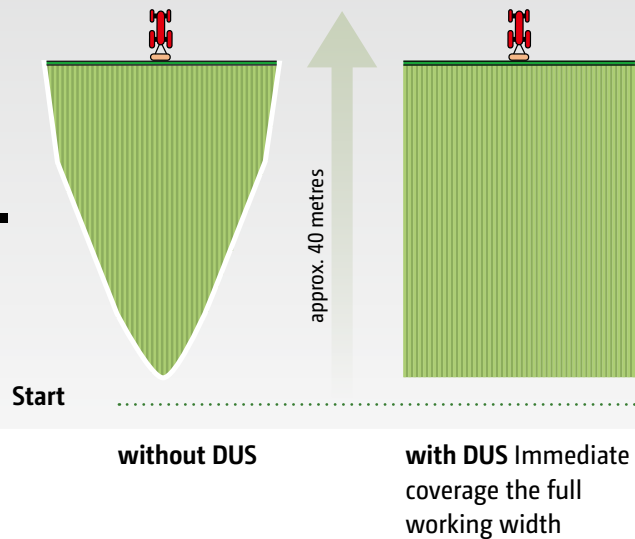
Examples of nozzle layout (part-width sections)
Other layouts possible

39 m Super-L2 boom



Ingeniously simple – simply ingenious

With DUS you determine the timing



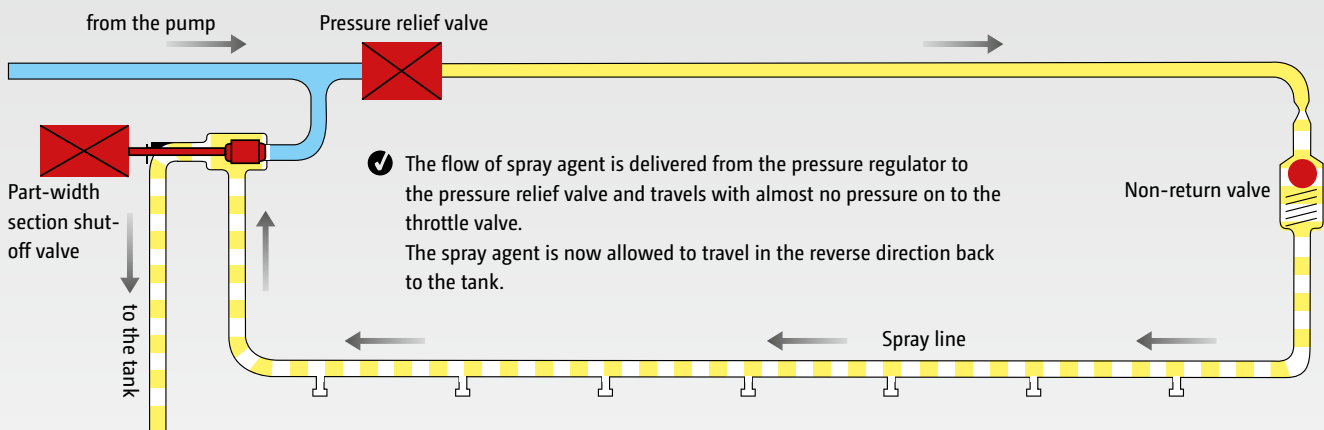
The DUS pressure recirculation system – proven more than 10,000 times

The AMAZONE DUS pressure recirculation system guarantees the safe circulation within the entire system. When starting the spraying operation all the hoses including the spray lines are filled under pressure in the reverse direction with the mixed spray agent. This means the spray lines are always full and immediately ready to use over the entire working width. There is no waiting on the headland.

Every time individual part-width sections are shut off, during the turning operation and during transport, the spray liquid circulates continually thanks to the pressure recirculation system. This reliably prevents deposits, blockages or segregation in the spray lines.

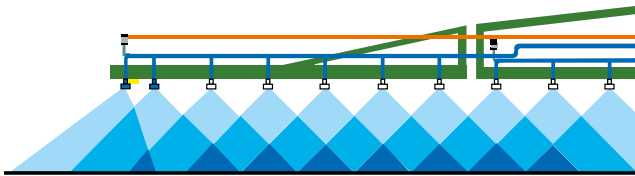
The concentration of the spray agent always remains constant right up to the nozzles, so the start of spraying is carried out without any problems after, for example, a change of ingredients.

During the cleaning operation, fresh water flushes the spray lines out right up to the nozzles without any spraying being necessary. During this cleaning procedure the concentrated spray liquid is returned back to tank via the pressure recirculation system leaving the spray lines clean.



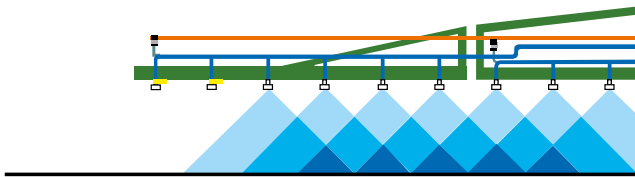
Electric boundary nozzle switching

For environmentally-friendly spray application at the field edge



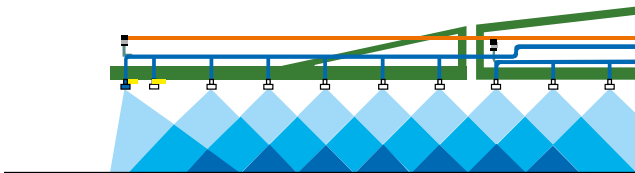
Additional nozzle switching

In order to extend the normal working width, an asymmetrical nozzle can also be switched on. This is particularly useful if the distances between tramlines are not precise enough.



End nozzle switching

If a one metre buffer zone around the edge of the field needs to remain unsprayed due to distance constraints, end nozzle switching can be used.



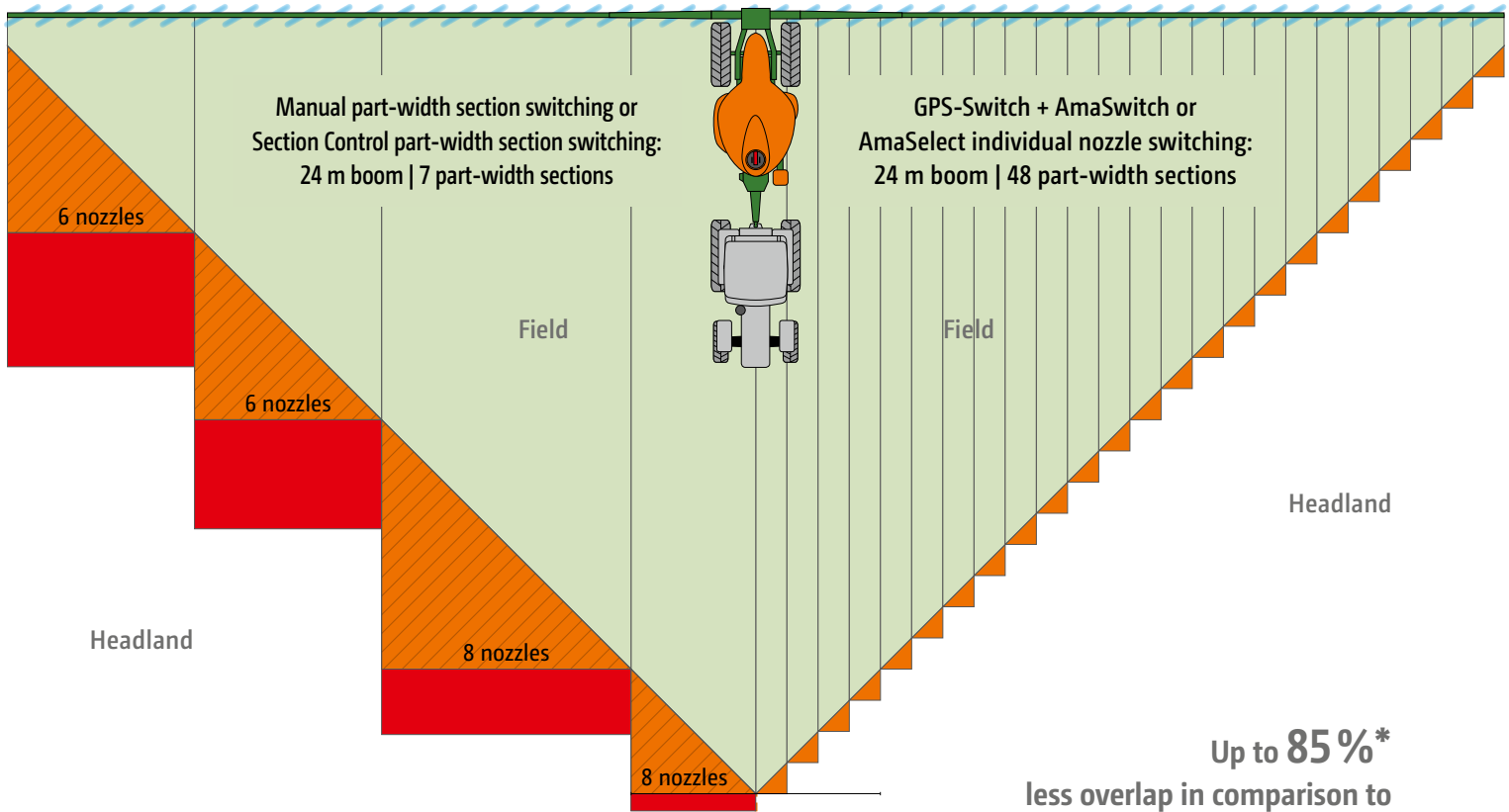
Boundary nozzle switching

For precision border spraying between two sensitive crops, the boundary nozzles can be used to make sure the spray pattern is accurately defined.






AmaSwitch and AmaSelect individual nozzle switching

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



Up to **85%***
less overlap in comparison to conventional Section Control part-width section switching, e. g. on the headland

-  Overlap zone with manual part-width section switching
-  Overlap zone with Section Control part-width section switching

-  Overlap zone with 50 cm GPS part-width sections

GPS-Switch
Automatic headland and part-width section switching

5%*

Saving of crop protection agent



AmaSwitch
electric individual nozzle switching or AmaSelect

5%*

Additional saving of crop protection agent

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

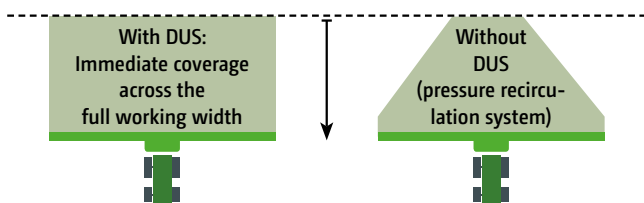
Exact switching in 50 cm part-width sections

The decisive benefit of this individual nozzle switching is the possibility to operate with small part-width sections to be even more precise in wedge-shaped areas, short work and on the headland. The amount of overlap is significantly reduced on the headland, for instance, by up to 85 % less when compared with conventional Section Control part-width section switching. In this way, depending on field shape, boom width and number of part-width sections, the combination of GPS-Switch and AmaSwitch results in considerable savings of spray agent compared with the usual crop protection techniques used up to now.

If AmaSwitch or AmaSelect are combined with GPS-Switch automatic headland and part width Section Control, the individual nozzles are automatically switched in 50 cm part width sections.

Including DUS pro high pressure recirculation

Standard equipment with AmaSwitch and AmaSelect includes the DUS pro high pressure recirculation system. DUS pro prevents deposits in the conical spray line and ensures an even spray agent concentration. Thanks to the pressure recirculation system, all the nozzles are ready for operation over the entire boom width. In addition, when switching off individual part-width sections and when turning or during transport, the spray agent remains in constant circulation. In this way deposits, blockages and any potential demixing in the spray lines is safely prevented.



The benefits	Standard valve chest	AmaSwitch	AmaSelect
Multiple boom sections	up to 13	up to 80	up to 80
50 cm part-width sections	–	■	■
Manual nozzle switching	■	■	–
Automatic nozzle changeover and switching	–	–	■
Nozzle selection from the cab	–	–	■
Nozzles used in combination	–	–	■
High pressure recirculation (DUS pro)	–	■	■
25 cm nozzle spacing	■	–	■
Individual programming of the part-width sections (TB)	–	■	■
No need for compressed air	■	■	■
LED individual nozzle lighting	■	■	■

Nozzle switching – Review of systems

■ = included

■ = optional

– = not possible

Calculated example:

Annual average overlapping on conventional part-width sections compared with 50 cm part-width sections



The key points of this 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 crop protection demand (e.g. potatoes, beet), the 50 cm part-width section is particularly cost-effective

AmaSwitch individual nozzle switching

for Super-S2 and Super-L2 booms

Automatic 50 cm part-width section switching

Even today, many crop protection sprayers in the market feature a normal part-width section valve chest. Here the classic part-width section often is 3 to 5 m wide. For manual part-width section actuation by the driver, having smaller part-width sections did not really make sense due to the accuracy of the switch points. Thanks to the automatic part-width section control via GPS-Switch, more precise switching points with even smaller part-width sections are used so that valuable crop protection agents are saved. With AmaSwitch, AMAZONE offers a simple and precise solution for the automatic part-width section switching on 50 cm part-width sections.

AmaSwitch is a cost-effective alternative for users who do not want to make electric nozzle changeover a priority but, however, want to make use of the advantages of the very precise switching in wedge-shaped fields and overlap zones thanks to the 50 cm part-width section control.

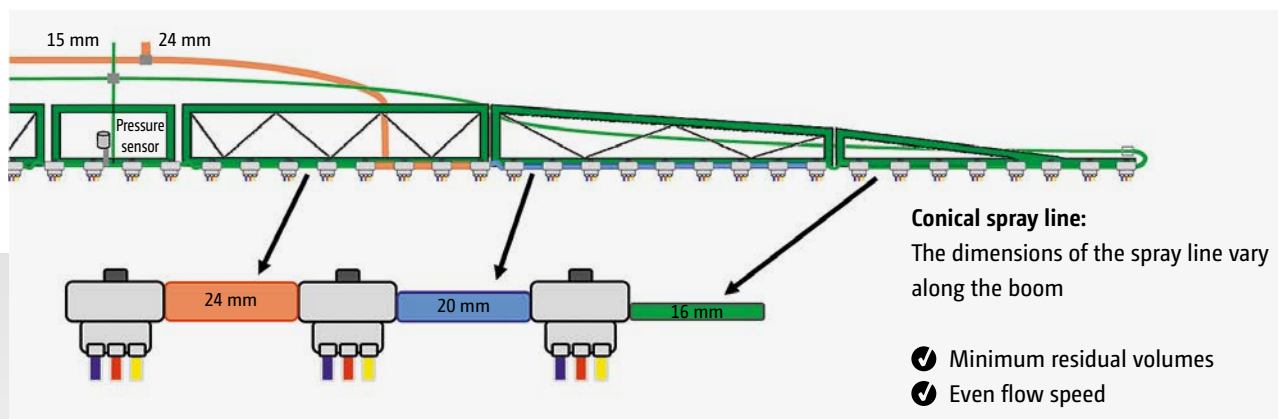
Standard equipment with AmaSwitch includes the DUS pro high pressure recirculation system and, in addition, can be equipped with LED individual nozzle lighting.

Triple nozzle body, with electric on/off switching

The technology behind AmaSwitch is based on a conventional, manually-rotated, triple nozzle body with electric individual on/off. The opening and closing is achieved via an electric valve which is fixed directly onto the nozzle body. So, in conjunction with GPS-Switch, it is possible to control the boom very precisely in 50 cm part-width sections in wedge-shaped fields and on the headland. In addition to the automatic switching using 50 cm part-width sections, it is possible to configure the amount of part-width sections from choice.



✔ AmaSwitch triple nozzle body with optional LED individual nozzle lighting



DUS pro high pressure recirculation with conical spray line on here, for example, AmaSwitch

AmaSelect individual nozzle control

for Super-L2 boom

The most up-to-date application technology

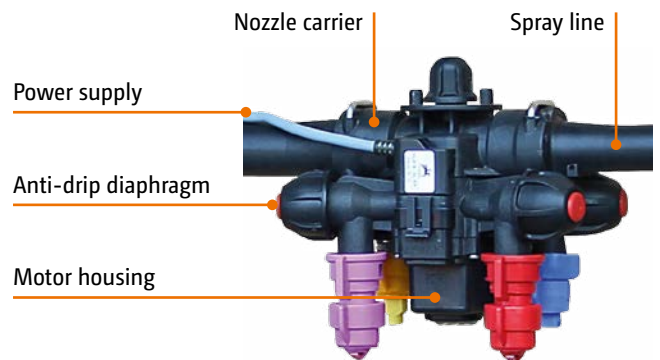
The AmaSelect individual nozzle control consists of a 4-fold nozzle carrier with electric on/off switching enabling, additionally, the changeover from nozzle to nozzle. In this way, the system offers in addition to the 50-cm part width section control which can be automatically switched via GPS-Switch, the electrical changeover between the four fitted nozzles via the operator terminal.

An additional possibility is the automatic changeover or switching on of a nozzle. By entering in the terminal the optimum pressure range of every individual nozzle within the 4-fold nozzle carrier, the system automatically changes over the nozzles according to these predetermined factors. This offers the possibility, for instance when leaving the optimum pressure range of a nozzle, to switch on a second nozzle or to changeover to a larger nozzle. However, if desired, any number of part-width sections can be freely configured to include any number of nozzles. Just for farmers or agricultural contractors with different tramline systems, a simple matching of the nozzle switching with the relevant working width is possible.

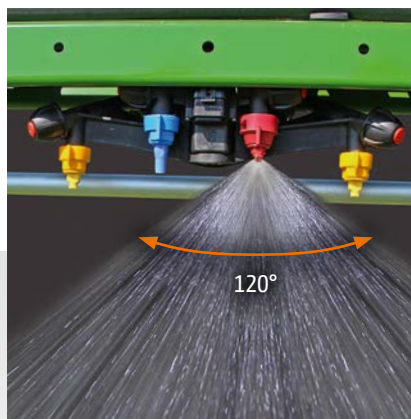
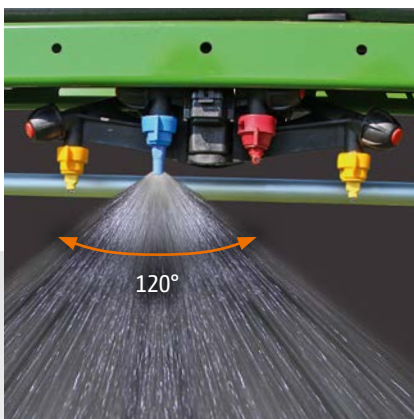
With 50 cm or 25 cm nozzle spacing

As an option, the AmaSelect nozzle carrier can also be equipped with an off-set kit giving 25 cm nozzle spacing. This, in conjunction with special 80° nozzles, offers the benefit of reducing the target height above crop to below 50 cm. In addition, this version can be supplemented by the HighFlow option for applications with extremely high application rates.

As standard, AmaSelect is equipped with DUS pro high pressure recirculation and LED individual nozzle lighting.



🔌 AmaSelect – components of the system



The electric AmaSelect individual nozzle switching with 4-fold nozzle carrier and either a 50 or 25 cm nozzle spacing

The right nozzle choice

The basis for success in crop protection



Less drift also at higher wind speeds

With the air-assisted injector nozzles, crop protection agents can be applied with very little drift. They are universally usable in all crops and all classifications. Because of the coarse droplet application, these nozzles can also be used in higher wind speeds.

AMAZONE offers the agricultural sector a wide range of nozzles from Agrotop, Lechler and Teejet.

Single and multi-nozzle bodies

The nozzle bodies with integrated diaphragm non-return anti-drip valves fit up into the boom profiles reliably preventing any dripping at the nozzle. Self-adjusting bayonet fixings ensure a tool-less quick nozzle change. The triple nozzle bodies are suited to frequent nozzle changes due to different applications and crops. Nozzle protection tubes, as standard on the outer sections, or, if desired, over the entire boom working width, ensures protection for long injector nozzles and multiple nozzle bodies.





Examples

- 1) Lechler IDN 120-025
- 2) Teejet XRC 110-025
- 3) Agrotop Airmix 110-04



Injector nozzles (ID, TTI) have a relatively coarse droplet spectrum and are particularly versatile with regard to their field of application. A pressure range of 2 to 8 bar is possible.

If coverage quality is at the foreground of the application, the use of standard or anti-drift fine droplet nozzles, such as XR or AD, is recommended. Special care is required here due to the tendency to drift above 3 bar.

A good compromise is provided by the modern ID-K or Airmix compact injector nozzles. These have relatively little drift, but do not have too coarse a droplet spectrum and are operated at 2 to 4 bar.

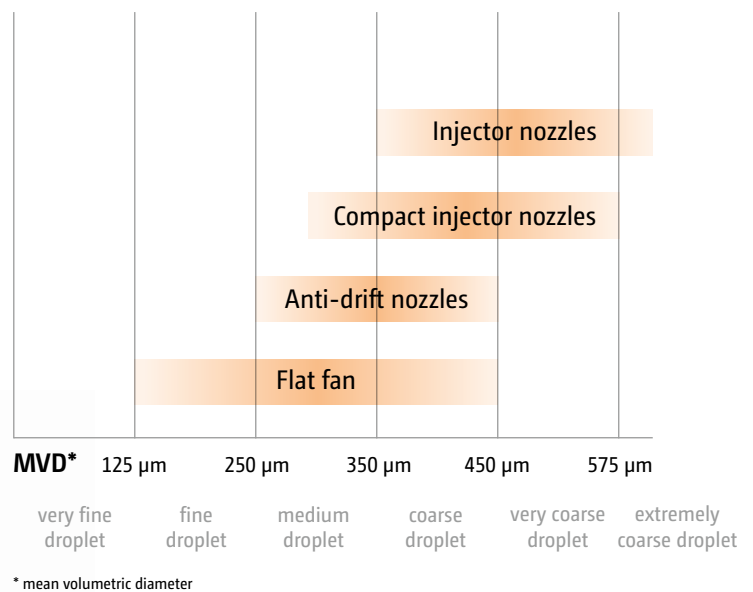
When it comes to special coverage qualities the double flat fan nozzle is an interesting alternative: the AVI Twin from Agrotop also produces droplets that are not too fine.

Everyone purchasing an AMAZONE crop protection sprayer receives, free of charge, an AMAZONE nozzle mounting tool that enables a much easier nozzle change.

The split spray pattern ensures a more even deposit on the front and back of the plant and makes sense maybe, for example, in ear treatment.

For speeds greater than 10 km/h, the TD HiSpeed nozzle with its asymmetrical spraying angle is becoming a new industry trend.

Distribution of the droplet size



Equipment for every requirement



✔ Stainless steel weights on the drag hose



✔ 7 hole nozzle



✔ Optional equipment: second spray line (not for AmaSwitch/AmaSelect)



- ✔ In conjunction with the Super-S2 boom AMAZONE offers an elegant solution for the successful under-leaf spraying in vegetable and maize crops. The Dropleg system from Lechler is a freeswinging, under leaf spraying device that works across the rows and is an example of an easy and robust solution that fulfils the most professional of demands.

Liquid fertilisation – mature solutions for high outputs

The AMAZONE UX is especially suited for liquid fertilising: the use of high grade plastic material, a good paintwork and the virtually exclusive use of stainless steel ensures a long life even with liquid fertiliser operation.

In conjunction with the Super-S2 boom a separate drag hose unit is available. The self-contained aluminium profiles can be attached with a few hand clamps. Drag hoses offer a risk-free late top dressing with liquid fertiliser and stainless steel weights help keep the position of the drag hoses within the crop.

For coarse droplet distribution of liquid fertiliser, AMAZONE offers multi-hole nozzles (3 or 7 holes) or even FD sluice nozzles.

On request, the Super-L2 boom with TG valve chest can be equipped with a second spray line. The staggered nozzle bodies then allow the fitting of drag hoses at a spacing of 25 cm.

Special equipment: HighFlow

for UX 4200 Super, 5200 Super, 6200 Super and UX 11200 with Super-L2 boom

To double the maximum application rate, the pump system on the UX Super and the UX 11200 can be connected in parallel. The HighFlow option opens up a new dimension in output.

- ✔ It allows large quantities of liquid fertiliser to be applied at higher speeds.
- ✔ For vegetable growing, spray rates of 2000 l/ha at 5 to 6 km/h are possible.
- ✔ These large amounts are possible by utilising the TG valve chest equipped with an additional spray line and a double nozzle layout on a spacing of 25 cm or with AmaSelect.



Work lights

Reliable application even after dark





LED individual nozzle lighting

Professional work lighting is today the basis of a flexible, output-increasing solution to operating in twilight and at night.

Illumination of the spray fans ensures complete control of the nozzle function at just one glance.

LED individual nozzle lighting picks out each individual spray fan. An absolutely immediate assessment of their operation down to the very last nozzle on the boom can be made.

Camera system to the rear of the UX trailed sprayer

The optionally available camera system mainly serves for safety when manoeuvring. It is also a super aid when monitoring the function of the nozzles directly behind the machine. The 8 inner nozzles are detected by the camera. This is ensured even in rain, twilight or in darkness via infrared LEDs and a heated lens. The high resolution,



LED work lights

Boom lighting is provided by two LED work lights mounted in the centre of the boom and, from here, due to their wide-reaching illumination; prove to be a particularly effective execution.

Two further LED work lights to give additional background lighting can be mounted up on the platform.

antiglare monitor is backlit and can also display two cameras at once.

As an alternative, pictures from the camera can also be displayed on the CCI ISOBUS terminal via the CCI Cam camera function.



Trailed sprayer UX 11200

A new dimension in crop protection technology

**WORLD
RECORD**



SPEED
spraying

✔ Future-orientated development

With the UX 11200, AMAZONE offers a 12,000 l tandem axle sprayer ideal for developing farms, large estates and agricultural contractors that have to travel big yard-field distances.

The UX 11200 trailed sprayer, with its enormous tank volume of 11,200 litres, can cope easily with the high pressure to cover the acres. With the Super-L2 sprayer boom, in working widths from 24 to 40 m and its triple pump system, with a fill capacity of 900 l/min, it is perfectly suited both for enterprises with large field sizes and also for crops with particularly high application rates.

Several reasons for the use of a bigger tank in chemical application

Bigger distances from the yard to the field

- Especially in arable farming regions with medium to large sized fields, farms of reasonable acreages have emerged (500 – 1,200 ha), however with big distances from yard to field.
- This also applies to professional potato farms which often plant 150 to 300 ha in rented areas, widely distributed, and with only a few employees. Here, the large amounts of water and spray agent necessary make field edge logistics almost impossible.

Few employees

- The personnel development of many farms result in fewer, however clearly higher qualified employees. So, today, much work is done by one man operations, so there is no one available who could reduce waiting times by backing up the field edge logistics.
- Also when filling the sprayer, qualified employees are required in order to ensure the correct tank mix. The bigger the tank volumes are, the less qualified employees are needed.

Trend to fill back in the yard

- Many farms are no longer able to fulfil field edge logistics and/or do not want to handle the crop protection agents “field side” any more.
- Even if field edge filling in theory and practice results in better efficiency than filling in the yard suggests, the cost side clearly leads in the other direction. Whereas in former times on large farms, the small husbandry tractor with its old water tank were available, today the investment cost for a tractor and appropriate bowser with lockable storage compartments are clearly higher.

Environmentally-sound filling

- In the EU, increasing importance is attached to a well organised filling place with suitable collection and safety measures.
- The vicinity of spray store, the filling and disposal, is getting more and more crucial for the farm documentation.
- Especially in densely populated or tourist regions, public accessibility to crop protection agents is very unwelcome.

Large machinery also in plant protection

- Today, working widths of 30 m and more plus oversized, higher tyres are common. Larger machinery with modern tyres can be operated with little pressure so that compaction damage is not as big as with single axle implements.
- In regions with a continental climate (e.g. Russia) plant protection is often carried out only in the spring season, because due to the early and cold winter, crop protection measures are not necessary in autumn. Under these conditions a big tractor (> 250 HP) can pull the sprayer in the spring season and after harvest it can be used for soil tillage. This organisation leads to the maximum tractor hours per year and thus to economically optimum results.



Safe and comfortable when underway

Well designed on all levels –
from the chassis and drawbar up to the tank



- ✔
Fast on the road at up to 50 km/h
 Perfect driving comfort due to level regulated, hydro-pneumatic axle suspension.



Optimised for field and road

In conjunction with the sprung suspended hitch drawbar, the hydro-pneumatic chassis provides perfect driving comfort. The BPW axles with level regulation as standard permanently adapt to the load status. Possible track widths of between 2.00 to 2.25 m, wheel diameter up to 1.95 m.

Due to the air braking system, with integrated ALB regulation, safe road transport is ensured even at 50 km/h. Thanks to its high support load of 3 tons, the hitch drawbar in conjunction with the K80 ball hitch makes sure there is good traction for the tractor and a smooth running of the machine. An integrated hydraulic support jack comes as standard.

The crossover linkage of the suspension cylinders provides a high roll stabilisation for the machine. The enclosed hydraulic system ensures always an equal load distribution to all 4 wheels.

Traction compensator

The UX 11200 also excels on heavily sloping ground: the traction compensator in the hydro-pneumatic axle suspension enables a temporary increase of the drawbar support load from 3 to 4 t with a filled machine. When the machine

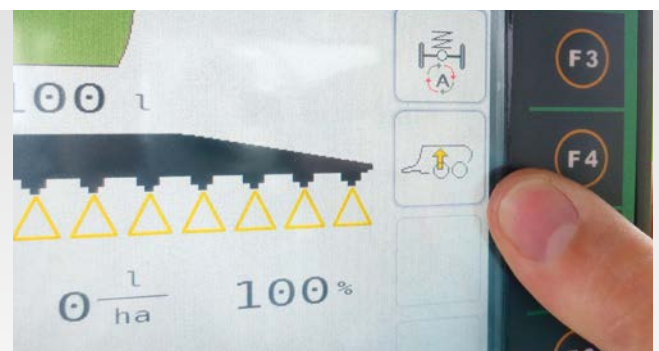


Tank design: sleek and functional

The spray agent tank features a low centre of gravity and compact dimensions. The optimised tank geometry results in minimum residual spray volumes of less than 20 litres. The smooth inner walls of the tank ensure a quick and easy cleaning.

The twin, centre of gravity neutral, fresh water tanks, with a capacity of in total 900 litres, are mounted between the mudguards.

All the controls are conveniently located at the front under a cover. The cover prevents the operator station from becoming dirty and offers a very good accessibility for quick and effective maintenance.



is partly filled, the support load increases by up to 30%. This is possible due to a setting valve in the hydraulic system which controls the level of pressure in the suspension of both axles.

Optimised driving behaviour

SingleTrail self-steering and DoubleTrail axle-steering



✔ DoubleTrail axle-steering

- active electronic-guided steering
- excellent track-following with little crop damage in the field
- easy manoeuvrability due to the active, intelligent rear axle
- always a uniquely smooth boom performance

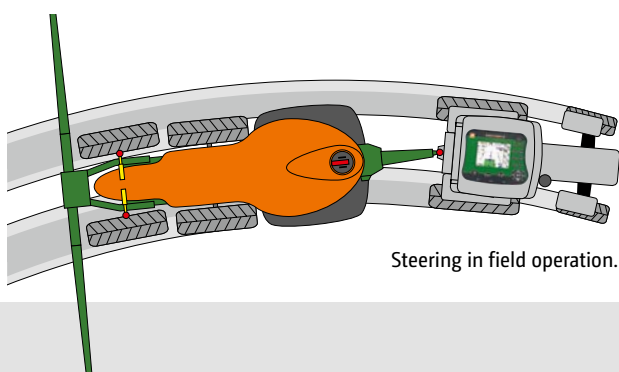


SingleTrail self-steering



As standard, the chassis is equipped with a trailing self-steering rear axle providing a good driving behaviour and little track damage. For the SingleTrail self-steering system, the front axle is rigid and the second one steered and follows passively, resulting in a very good driving behaviour without “scrubbing” the tyres.

When reversing, the second axle has to be locked. In road transport it should also be locked as well. In tight turns and slow travel, the axle can be unlocked.

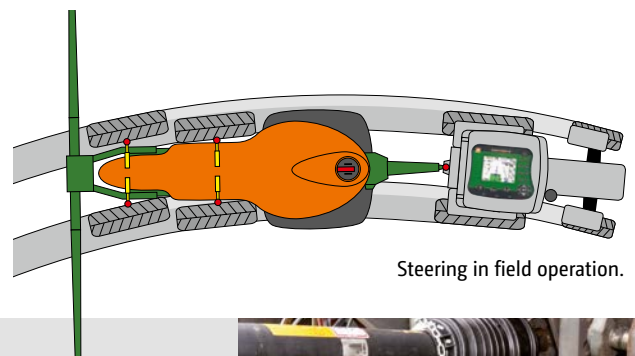


DoubleTrail – fully automatic axle steering



Optionally, the UX 11200 can also be equipped with the electronically-controlled DoubleTrail axle steering. This positive, electronic steering of both axles is of special importance for row crops, such as potatoes, sugar beet or in small fields to prevent track damage.

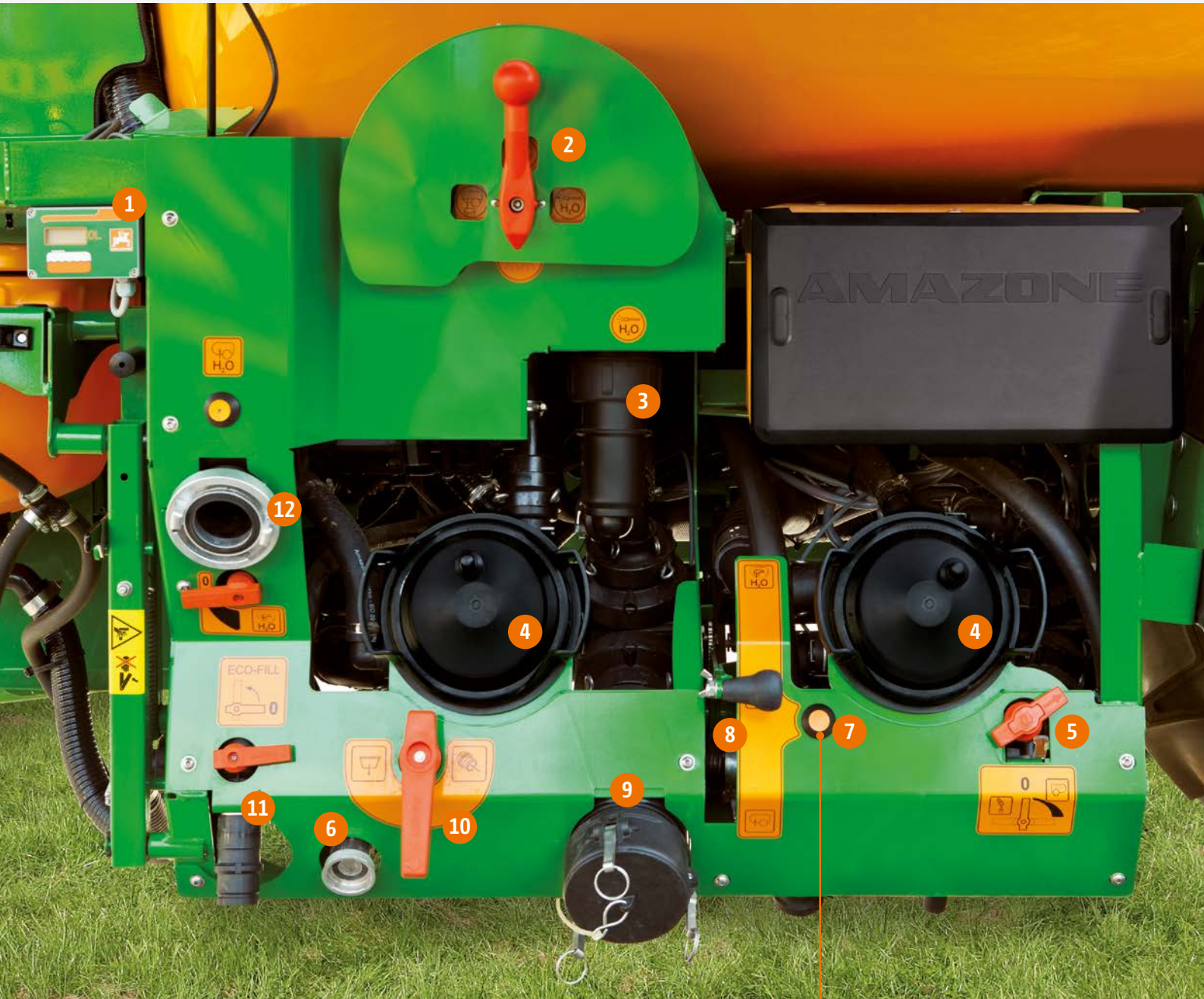
The first axle now truly follows the tracks of the tractor’s rear wheels; the second axle follows the track of the tractor’s front wheels. In this way the tracking performance perfectly matches the tractor and, above all, the sprayer boom ride is unaffected by any steering movements. In road transport, the first axle is locked and the second one is actively steered by the system.



- ✓ DoubleTrail system
For the forced steering of the DoubleTrail-system an additional K50 ball is required.

Well thought through

Centralised operator station and high-capacity pump



✔ Centralised operator station

All the filters, taps and controls are positioned so as to be easily accessible on the left hand side, and because of their simple and practical operation, they impress with their special maintenance-friendly qualities. The LED lighting underneath the cover perfectly illuminates the work station.

Comfort-Pack



Clearly identifiable controls for the UX 11200

- 1) Digital fill-level indicator
- 2) Pressure tap
- 3) Pressure filter
- 4) Suction filter
- 5) Agitation tap with integrated pressure filter emptying
- 6) Ecomatic rinse foot (option)
- 7) Comfort-Pack
- 8) Suction tap
- 9) 4" suction port
- 10) Injector switchover
- 11) Ecomatic suction coupling (option)
- 12) 3" fill port with B-coupling for fresh water and the main tank

High-capacity pumps

The multi-cylinder equipped piston diaphragm pumps provide at the same time a higher suction capacity for the injector via the 4" suction port (900 l/min) and hence a more even transfer and a smoother run of the pump. The three compact pumps, with a total output of 750 l/min, have an extremely long lifespan, will run dry and are also liquid fertiliser-proof. As an alternative to the standard PTO drive, the UX 11200 can also be equipped with hydraulic pump drive where the pumps are driven completely independently from the tractor's engine revs.

An additional practical advantage is its maintenance-friendly position and easy accessibility on the drawbar. Changing the diaphragms is possible without dismantling the pumps. The standard 3" bowser fill port for pressure filling guarantees, with its reduced filling times, high efficiency.

Intelligent, hydraulic pump drive

For the pump drive, boom hydraulics and the DoubleTrail steering, with the proviso that a Load-Sensing system is necessary on the tractor, all the functions can be operated especially comfortably via an ISOBUS terminal. The positive benefit also is the automatic setting of the pump speed with regard to each operational situation. When operating in the field, the pump runs at a gentle 480 rpm; sufficient capacity for the agitation and normal application rates. Whilst travelling on the road, the pump speed is automatically reduced to 400 rpm as the only demand is for a supply to the agitation. When filling via the suction hose, then the full pump capacity is provided by increasing the speed to 540 rpm. All the values are pre-selected once by the user but it is also possible to change them at any time. The system relieves the stress on the operator and provides a particularly sensitive connection to the pump and the diaphragms.



1,032 hectares in 24 hours



AMAZONE sets the world record in crop protection

Is it possible to cover an area of 1,000 ha with a crop protection application within 24 hours? This question can be now answered with an emphatic Yes: and with a treated area of 1,032 hectares in just 24 hours, the UX 11200 sprayer from AMAZONE has recently set a new world-record.

Converted into an average work rate, the UX 11200 – at 43 ha per hour – also set a second new record for output from today's modern crop protection technology. With its tank capacity of 12,000 l and tandem axle running gear, the UX 11200 is currently the biggest trailed sprayer in the AMAZONE range. Equipped with a 40 m wide Super-L2 boom and pulled behind a 330 HP Fendt tractor during the world-record attempt the sprayer was operated, depending on the weather- and field conditions, at daytime speeds of 13 to 15 km/h and during the night – thanks to the absence of wind and dew formation on the plants, of 17 km/h. The sprayer was filled directly in the field from a 21 m³ l water bowser along with a 1,000 l crop protection agent bulk container on the load platform of the towing vehicle.

The world-record operation, which was projected to last exactly 24 hours, started on September 3rd, 2014 at 12 o'clock at Golzow farm near the village of Golzow in Brandenburg. The farm covers, in total, an area of 6,490 ha and is representative of European crop protection conditions in practice and thus shows where the UX 11200 can fully demonstrate its strengths.

The actual treatment programme was, following on from harvesting rape the spraying of volunteer rape with glyphosate at an application rate of 100 l/ha of water across 15 different fields. The treatment was carried out with the full agreement of the farm's crop protection manager.

Almost 30% of non-productive time

The statistics created in the course of the world-record attempt, showed emphatically the effect of field size and shape on actual work rates: for field sizes between 40 and 124 ha and tramline lengths of approx. 0.5 to 1.5 km, this value ranged between 38 ha/h on the most unfavourable and 45 ha/h in the best fields. This represents a difference of 18% in the area covered.

Even more noticeable was the importance of unavoidable non-productive periods. Compared with a theoretical acreage output of 60 ha/hour, there is a non-productive differential of 28%. Here, thanks to the large tank capacity on the UX 11200, only 8% of the non-productive periods could be directly attributed to filling the sprayer. So, despite of the 103,200 l of spray agent applied in total, the sprayer had to be refilled only ten times during its world-record course. Depending on the residual amount in the tank, the time needed for each filling procedure was between 10:55 min and 13:45 min and thus equated to just two hours in total.

Moving the sprayer between the different fields lost nearly 1.5 hours and thus approximately 6% of the non-productive time. For this the sprayer and tractor combination had to cover, in total, a distance of almost 20 km. Finally, the majority of non-productive time was attributed to driving around pylons and irrigation points and turning on the 40 m wide headland. Despite the favourable field structure, this required a time expenditure of 3.5 hours in total and thus almost 15% of the overall non-productive time.





Bernd Ullrich, Agrargenossenschaft Bad Dürrenberg

More efficiency, less logistics costs

“This investment was worthwhile“ Bernd Ullrich, manager of the Agrargenossenschaft Bad Dürrenberg, reports on operating an UX 11200. The agricultural co-operative farms 4,600 ha of arable land and 400 ha of grassland in the Leipzig lowland area.

The specification of the UX 11200, which is pulled by a 230 HP tractor, includes a 24 m Super-L2 boom with LED lighting, DoubleTrail axle steering system and GPS-Switch, the automatic headland and part-width section control. “The decisive benefit of the UX 11200 clearly is the large tank – and in this way a huge increase in efficiency“ manager Bernd Ullrich says. At water rates of between 200 and 300 litres/ha, now between 40 and 60 ha can be sprayed without the need of a filling stop.

In spite of the large tank capacity of the UX 11200, the ground pressure has not been increased and also wheel track damage is no problem. Bernd Ullrich explains this by the tandem axle and the DoubleTrail axle steering. “With this steering, the wheels in fact still follow in exactly the tractor track. This saves the soil and, of course, also has an effect on the boom ride.“ On the other hand the driving behaviour of the sprayer at fast road speeds and with a completely full tank is also very positive. Absolutely recommended is, according to Bernd Ullrich, the LED lighting of the sprayer boom and GPS-Switch. “In this way we are able, if necessary, to operate the machine also at dawn or dusk.”



Andrey Alexandrovich Novikov, KX Novikov

Efficiency that impresses: 700 ha/day

On the 5,000 ha “ KX Novikov“ farm in Krestyanka/Russia, a UX 11200 has been operated since 2013. “The huge capacity of 12,000 litres“ owner Andrey Alexandrovich Novikov indicates as the most important reason for this investment. Also the AMATRON 3 operator terminal impressed him. The specification of the UX 11200 includes a 36 m Super-L2 boom with Profi-fold 1 and the automatic DistanceControl boom guidance. The chassis is equipped with the Single-Trail self-steering rear axle.

Instantly the UX impressed with its efficiency. With water rates in the region of 100 l/ha and depending on the soil conditions, the operating speed of the 335 HP tractor, with GPS control, varied between 11 and 19 km/h, the average speed being 14 km/h. On the other hand, the fuel consumption of only 0.3 to 0.4 l/ha of diesel was very low. Due to mostly short farm-field distances, the sprayer is filled at the farm; however, when travelling longer distances, filling is from the field edge via a water bowser. Due to the large capacity potential of the UX 11200 Andrey Alexandrovich Novikov intends to use also larger volumes of water in the future, in this way 700 ha/day could be managed in a 2-shift system at 200 l/ha.

AMAZONE output calculator

Calculate your own mechanisation scenarios at:
www.amazone.de/leistungsrechner

Input

- Area to be sprayed/ year: 3750 ha
- Ø distance field - filling place: 4 km
- Intended operational days: 50 d
- Operational hours per day: 6 h

Output

Application time	217	139	116	h
Filling time	42	37	24	h
Transport time	133	119	77	h
Total time requirement	392	295	217	h
Individual output/ hour	9.6	12.7	17.3	ha/h
Total output/ hour	9.6	12.7	17.3	ha/h
Individual output/ day	58	76	104	ha/d
Total output/ day	50	76	104	ha/d
Required machines	2	1	1	

no responsibility is taken for the correctness of this information

AMAZONE Service – always in the vicinity

Your satisfaction is our challenge



**Original
AMAZONE**

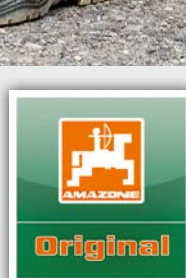
2. Auflage | 2nd edition
2e édition | 2-е издание

Verschleißteilkatalog
für Landtechnik und Kommunaltechnik

Wearing parts catalogue
for agricultural machinery and groundcare products

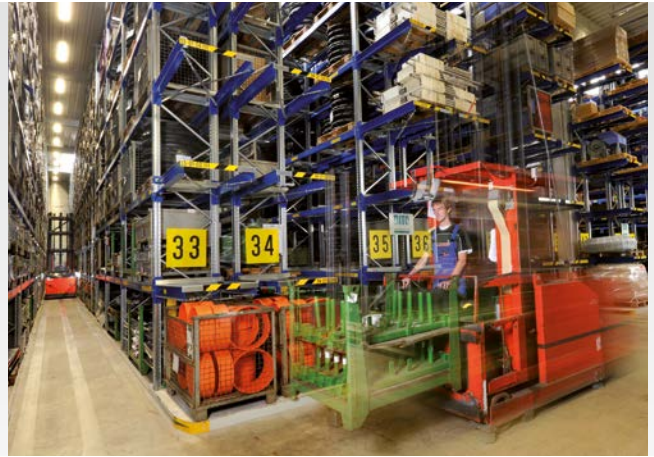
Catalogue pièces d'usure
pour machines agricoles et gamme espaces verts

Каталог изнашиваемых деталей
для сельскохозяйственной и коммунальной техники



**Choose the Original
Choose Success!**

VDMA campaign:
Pro-Original



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.

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

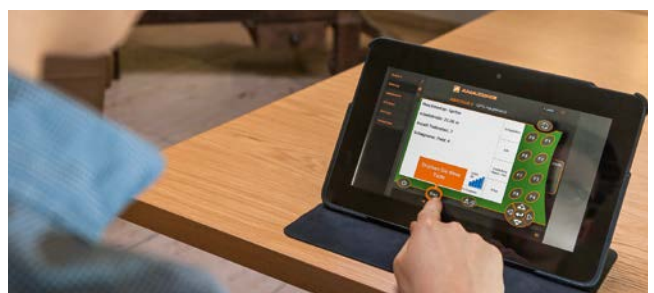
We provide you with a first-class spareparts service

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.

AMAZONE "E-Learning" – the new way of driver training via a PC

Via the Internet "E-Learning" portal, AMAZONE has extended its service offering on its homepage www.amazone.de/e-learning with a very useful function. "E-Learning" 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: UX Special, UX Super and UX 11200

Model	UX 3200 Special	UX 3200 Super	UX 4200 Special	UX 4200 Super	UX 5200 Super	UX 6200 Super	UX 11200
Actual volume (l)	3,600	3,600	4,600	4,600	5,600	6,560	12,000
Fresh water rinse tank (l)	320	320	550	550	550	550	900
Working width (m)	15–30	18–36	15–30	18–40	18–40	18–40	24–40
Transport height (m)	Super-S2 boom: 3.25 – 3.40 / Super-L2 boom: 3.35 – 3.50					3.65	3.90
Transport length (m) with Super-S2 boom	6.25 – 6.50		6.85 – 7.30				–
Transport length (m) with Super-L2 boom	6.40 – 6.65		7.25 – 7.50				9.70
Transport width (m)	Super-S boom from 2.4m 3-section Super-L from 2.4m 4-section Super-L from 2.6m					2.60 – 2.80 m	2.85
Empty weight (kg)	2,908–3,344	3,032–3,722	2,998–3,434	3,069–3,728	3,221–3,880	3,651–4,310	7,870–8,284
Pump equipment (l/min)	260/380	420	260/380	420/520	520	520	750
Max. suction capacity (l/min)	400/500	600	400/500	600/700	700	700	900
Ground clearance	0.78 m (with tyres Ø 1,835 mm)						
Spraying height	0.5–2.5 m (with tyres Ø 1,835 mm)						
Operational pressure, max. (bar)	< 10						

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.



The small self-propelled machine! UF in combination with front tank FT 1001

Specially for large volume mounted sprayers, the use of a front tank is the obvious solution.

On hilly terrain and in small fields the manoeuvrability is excellent.

The Flow-Control electronics provide an automatic, tank level dependent circulation and emptying.



AMAZONEN-WERKE H. DREYER GmbH & Co. KG
P. O. Box 51 · D-49202 Hasbergen-Gaste/Germany
Phone: +49 (0)5405 501-0 · Fax: +49 (0)5405 501-193