



**AMAZONE**

# **UX Special UX Super UX 11200**





# The first glimpse leaves an impression that does not need a second look!



⊕ "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)



## Spraying technology at its very best

The high capacity, compact trailed sprayer, offering light weight and a low centre of gravity, that travels quickly and safely on the road, meters comfortably, faultlessly and precisely and above all ensures environmentally friendly spraying in the field.  
Saves time, nerves and cost!



# UX

slick – sleek – sly

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Watch it on TV:  
[www.amazone.tv](http://www.amazone.tv)



# Precise, economical and environmentally friendly!

AMAZONE field sprayers fulfil the demands of the crop protection decree, the guide lines of the Biological Federal Institute, BBA and the highest European test standards (ENTAM certification).

On request AMAZONE field sprayers are provided with an official certificate of inspection for field sprayers.

- ⊕ absolutely smooth walled tank with favourable centre of gravity
- ⊕ steel profile frame – strong as an ox
- ⊕ multi-shock absorbing parallelogram suspended booms
- ⊕ light yet strong, superbly engineered compact sprayer booms
- ⊕ high capacity pumps
- ⊕ user-friendly operator station with unmistakable lever positions
- ⊕ modern, operator-friendly control valve chest and computer technology
- ⊕ Option: Axle steering

⊕ UX 6200 Super  
6,600 litres | 36 m





# "SpeedSpraying" – for more output in plant protection spraying

AMAZONE offers a variety of equipment to help fill, transport and clean more quickly and effectively, meaning greater savings.

AMAZONE groups this enhancement of crop protection performance under the umbrella term "SpeedSpraying".





# 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 – 28 metres

UX 4200 Special, 15 – 28 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



# UX 11200: the big sister

Latest technology meets efficiency

- ⊕ Huge capacity, actual volume 12,000 litres
- ⊕ Tank design with favourable centre of gravity and only a few baffles for an optimised field and road holding, quick interior cleaning and minimal residual volumes
- ⊕ Steel profile frame, strong as an ox, with safely routed hoses
- ⊕ Covered, centralised operator station and equipped with Comfort-Pack for automated operation that offers the utmost convenience
- ⊕ Perfect driving comfort and safe behaviour on the road due to the level regulated hydro-pneumatic axle suspension and SingleTrail self-steering
- ⊕ Option: DoubleTrail axle steering for optimum true track following and best manoeuvring ability
- ⊕ Safe and superbly strong hitch drawbar with built-in damping capable of taking a support load of 3 tons
- ⊕ Simultaneously superbly strong, yet superbly light and superbly compact sprayer booms with aircraft-style design
- ⊕ Ultra-modern, operator-friendly valve chests and AMATRON 3 in-cab terminal
- ⊕ High capacity pumps with 900 l suction capacity for quick filling

⊕ UX 11200  
12,000 litres | 36 m







⊕ UX 11200 special section on page 44

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# The combination of design, ergonomics, innovation and reliability

## Tank – beautiful yet smart!

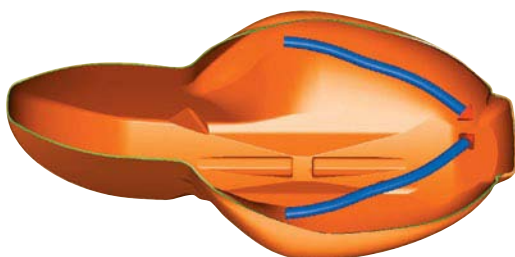
The compact tank is made from polyethylene to be particularly strong and long lasting. The completely smooth inner and outer walls of the tank with rounded corners and no nooks and crannies ensure quick and easy internal and external cleaning.

**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.

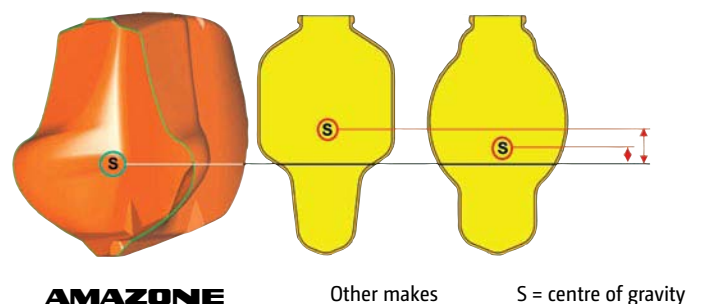
The shape of the UX tank and the compact AMAZONE boom ensure a low centre of gravity and very compact transport dimensions. In addition, the boom is supported close to the back of the wheels using the parallelogram suspension.



## 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







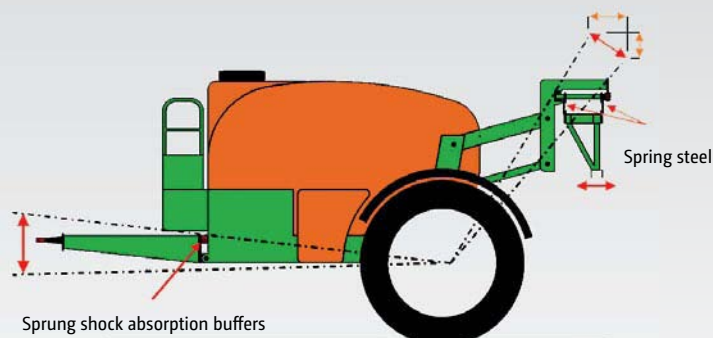
## The frame – strong and yet elastic!

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.



✚ UX 5200 with 2.25 m track width and 520/85R42 tyres



# 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.





Straight drawbar, steered



Hitch drawbar, rigid with hydraulic pump drive

## Strong, shock absorbed drawbar!

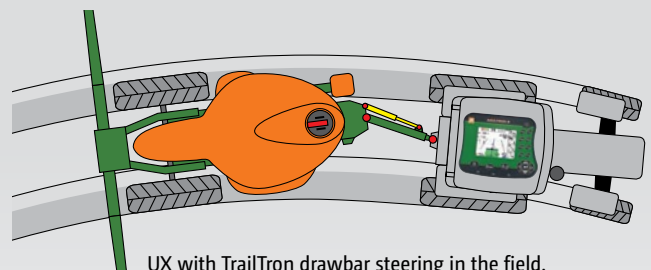
All drawbars - no matter whether steered or rigid, upper or lower hitched - are provided with the drawbar shock absorbance system, an important design element in the UX. Minimising the to and fro movements between frame and drawbar it also protects the booms and prevents any rocking movement of the tractor 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 TrailTron and DistanceControl.

## Drawbar steering



For the UX 3200 and UX 4200, in working widths up to 28 m, there is the option of TrailTron 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 TrailTron drawbar steering in the field.



# Steering systems for every application



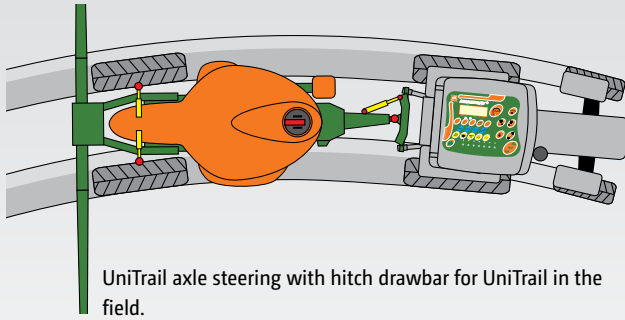
⊕ "When the wheels are turned in the field, hardly any steering forces are transferred to the booms. Therefore the steering is continuously active in the field – even in straight wheel tracks. Then if the tractor steers, the wheels of the sprayer are immediately also steered. How smoothly this happens 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)

## ⊕ Axle steering

The 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

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



✚ "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."

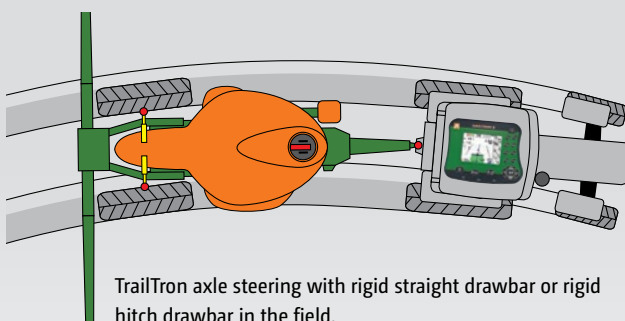
(dlz agrar magazine – Test report "Safe on the road" · 06/2011)

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.

## TrailTron axle steering

TrailTron axle steering offers the driver the highest level of comfort due to the elegant control via the multi-function joystick of the AMATRON 3.

The sophisticated software provides an intelligent, true-track following steering operation and can be simply calibrated for each tractor type. The TrailTron 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.





# Operator station UX Special

2" suction valve for machines with one pump – filling performance of up to 400 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.

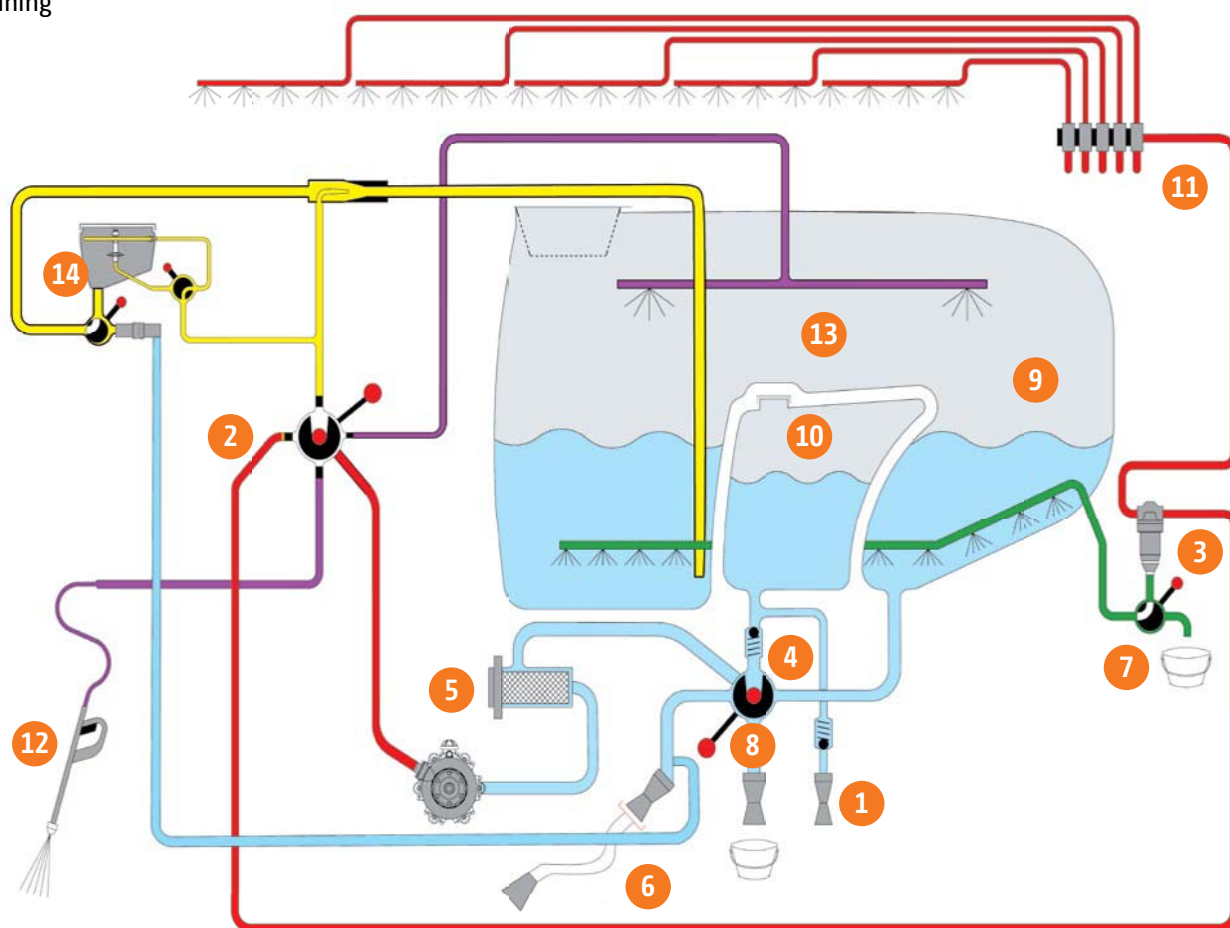
All operational procedures are accurately indicated by simple lever positions.



Switching on the injector enables fill capacities of up to 700 l/min (UX Super) and 400 l/min (UX Special).

⊕ UX Special equipped with single pump

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



⊕ The controls for the UX Special

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



# 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

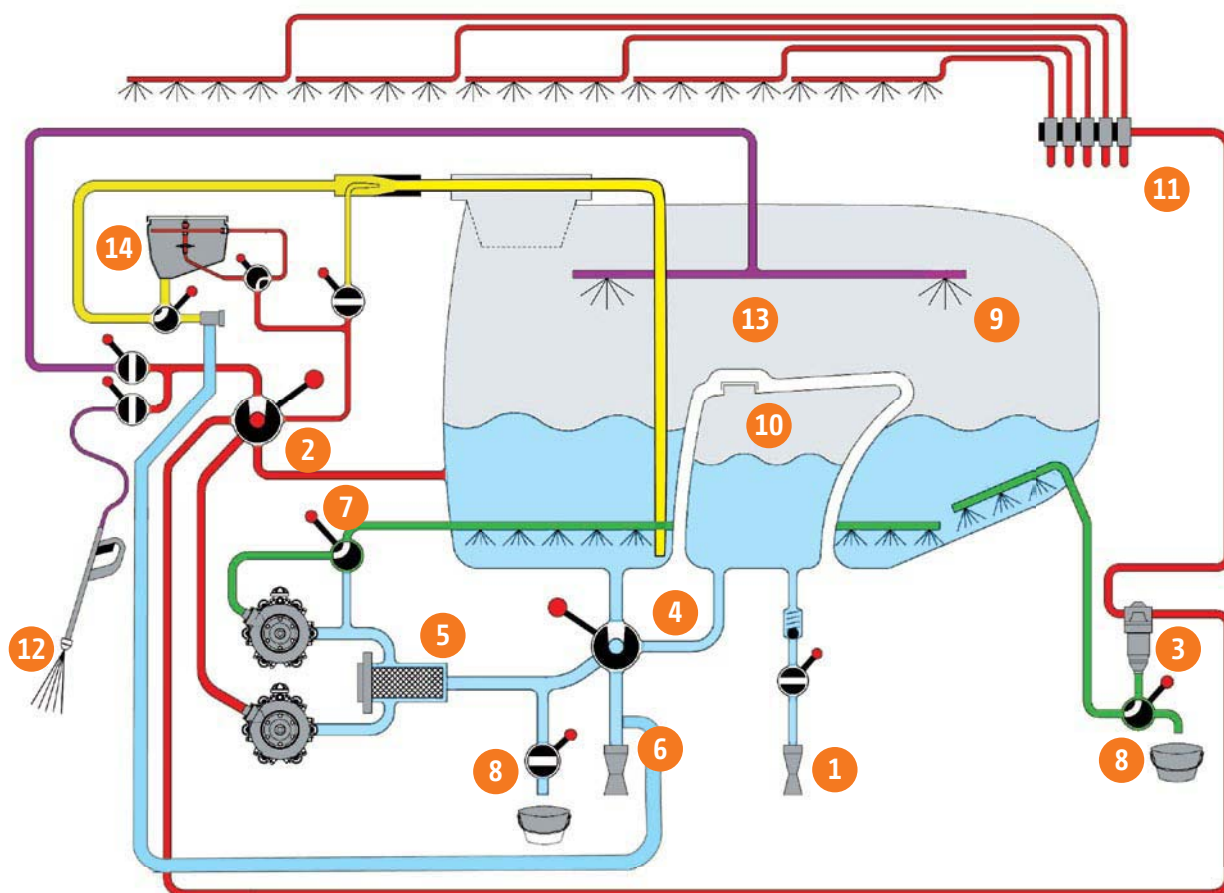
All UX crop protection sprayers are equipped with a central ergonomically designed control centre. All control elements are logically and unmistakably arranged directly to the front left-hand side of the sprayer. All operational procedures are accurately indicated by simple lever positions.



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

#### ⊕ UX Super with tandem pumps

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



#### ⊕ The controls for the UX Super

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



# Induction bowl

Precise, economical and environmentally friendly



## Induction bowl and power injector

At the induction bowl, powdery agents and larger amounts of granular fertiliser are quickly and safely dissolved via the extensive ring line including the additional nozzle 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.





# Modern operator terminals



## + AMATRON 3

AMATRON 3 is fully downwardly compatible to AMATRON<sup>+</sup> 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<sup>+</sup> (AMABUS) and implements that meet the ISOBUS standard. Needless to say, even if these are not from AMAZONE.

# AMATRON 3

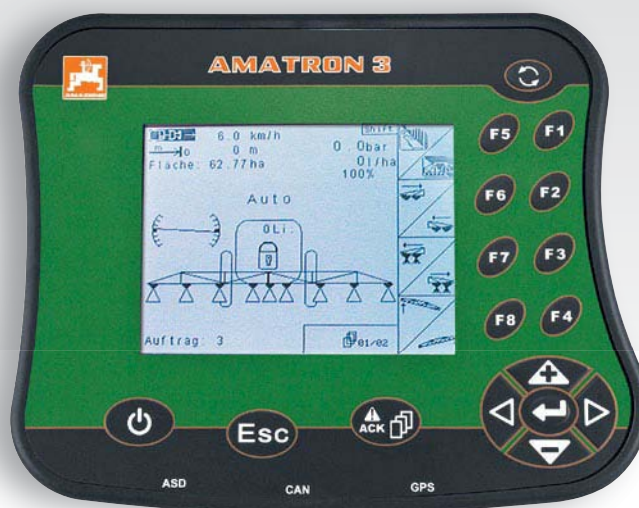
The terminal for all crop protection functions

## 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.

Thanks to its clear, simple and logical handling and the back-lit keys, this modern terminal is especially operator-friendly. For monitoring the system, a high resolution, high contrast and anti-glare display is utilised. The very compact dimensions of the computer mean little space is required in the tractor cab.

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



### Standard functions:

- + Overall and part-width section on/off
- + Up to 13 part-width sections
- + Digital pressure indication
- + Digital fill-level indicator
- + Display of boom position and locking status
- + Field record management system with 20 memories
- + Serial interface for documentation and GPS terminal versatility
- + ISOBUS and AMABUS

### 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 – remotely controlled spray agent flow circuit
- + GPS-Switch, GPS-Track and GPS-Maps



### + Multi-function joystick for AMATRON 3

Especially comfortable is the operation of the boom and section functions via the multi-function joystick. A small toggle switch allows the use of eight keys on three different levels. Up to 24 functions can be operated.



### + AMAClick with AMATRON 3

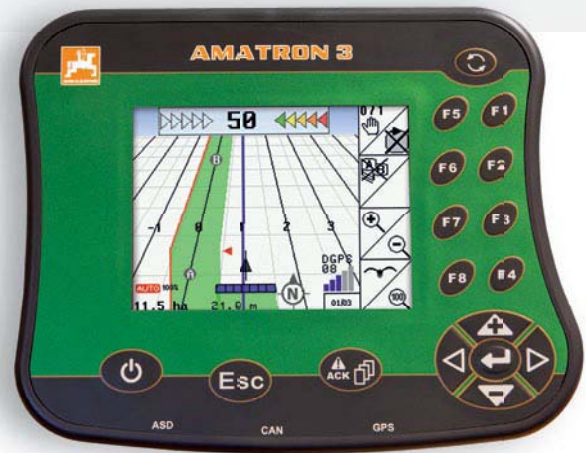
Special crops and bed work often require the on/off switching of the individual part-width sections in the middle of the boom. For this, the AMAClick is an ergonomic controller which can be operated both in conjunction with the multi-function joystick and also just with the AMATRON 3.



# GPS-Switch, GPS-Track and GPS-Maps

## Yet more precision with GPS-Switch, GPS-Track and GPS-Maps

As optional equipment, GPS-Switch, the automatic headland and part-width section control, GPS-Track for use as a parallel driving aid and GPS-Maps for part-area, site specific application are also available.



### 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.

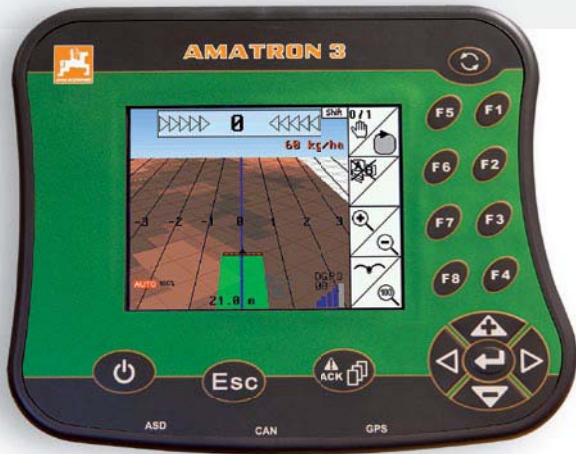
The automatic GPS-Switch part-width section control offers precision, comfort and safety: simply select the desired degree of overlap and leave the Switch in automatic mode. So, even in difficult circumstances, such as wider working widths, limited visibility at dawn or dusk or in high crops the job 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.





## GPS-Maps for AMATRON 3

While AMATRON 3 in ISOBUS mode is able to process application maps via ISO-XML files, AMABUS mode allows the processing of the maps in a Shape file format. The direct application rate can be used or the amount of spray agent. With AMATRON 3, the spray rates can still be adapted.



## Future proof technology

The serial interface (RS232), that enables use to be made of sensor technology (e.g. Yara N-Sensor) or different GPS terminal 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. In this way the documentation is more accurate and simpler and hand written notes are not necessary.

Today, ASD allows documentation with many key field record software providers In Europe and, to promote further accessibility, the ASD interface is available as an open standard for all implement and software suppliers. With ASD, AMAZONE offers a practical, value for money documentation system for all types of farming.



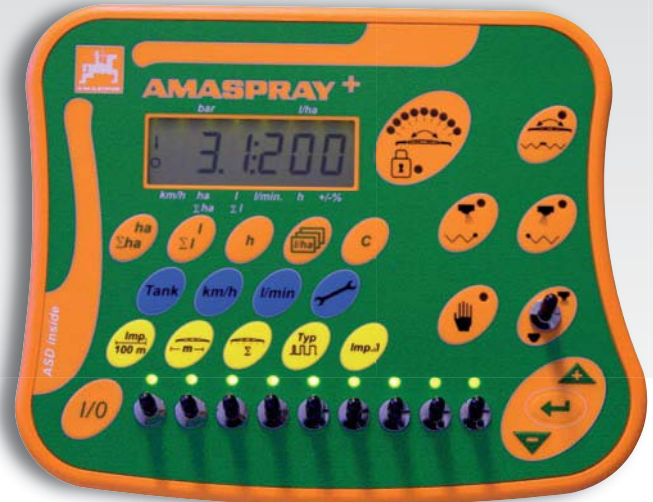


# Operator terminal AMASPRAY<sup>+</sup>

## AMASPRAY<sup>+</sup> – simple and versatile

AMASPRAY<sup>+</sup> enables the simple yet fully automatic regulation of the UX. Switches, integrated into the operator terminal, make possible the isolation of 5, 7 or 9 boom part-width sections. AMASPRAY<sup>+</sup> 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<sup>+</sup> also visually indicates boom tilt and locking. As an option, AMASPRAY<sup>+</sup> enables one sided folding of the boom or alternatively the access to the boundary and end nozzle spraying systems.

The AMASPRAY<sup>+</sup> 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 on/off
- + 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

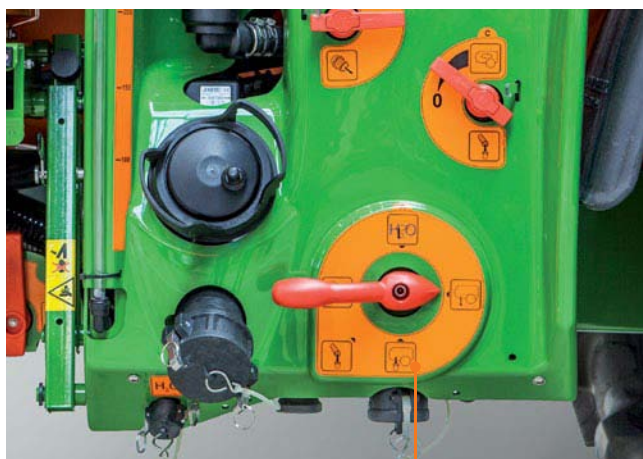


## Top spraying technology

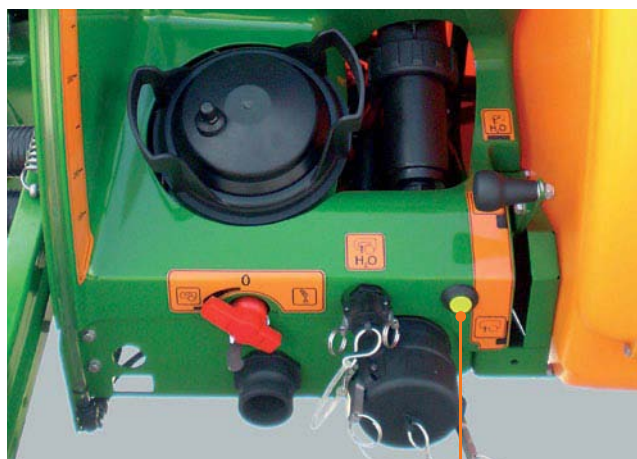
For the AMATRON 3 and AMASPRAY<sup>+</sup> operator terminals the most modern control chest technology is available. The part-width boom sections are switched, on and off, quickly and drip-free via electric motor valves with pressure relief. In all situations the spray rate is exactly and quickly controlled directly via the computer and so negating the need for any mechanical equal pressure control.

# Comfort-Pack for AMATRON 3

Operator and environmentally-friendly



UX Special Comfort-Pack



UX Super Comfort-Pack

## Control of the spray liquid system

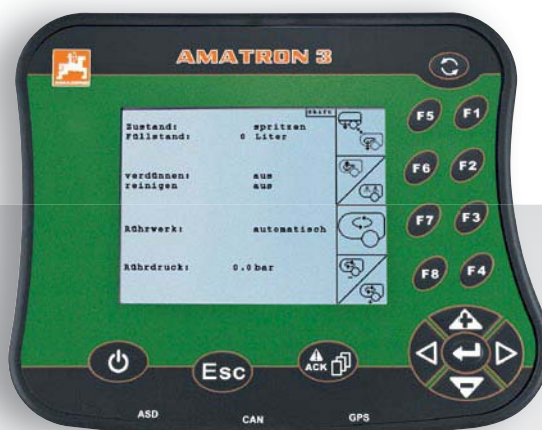
The AMAZONE Comfort-Pack controls the most important functions of the liquid system.

- ⊕ 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.

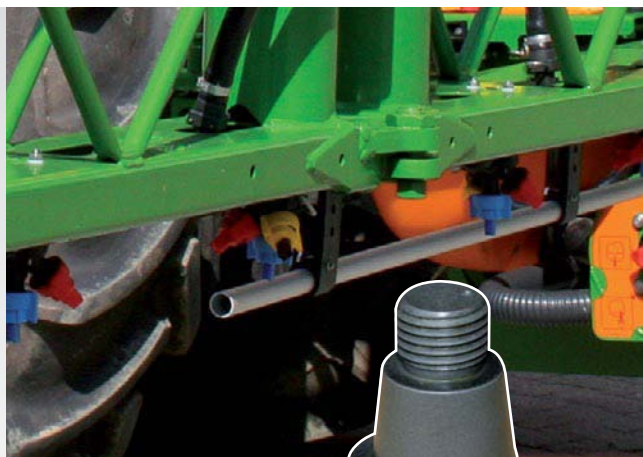




# AMAZONE aircraft-style boom design







- ⊕ A pivot joint that lasts!



- ⊕ Stainless (VA) steel hydraulic fittings

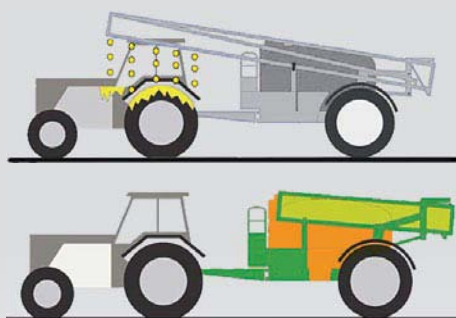
The hydraulic fittings are made from high-grade steel for a longer service life and an improved resale value.

## 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 hydraulic functions can be easily and reliably controlled via AMATRON 3 in the tractor cab. The multi-function joystick makes handling especially comfortable.

### Profi-fold I:

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 II:

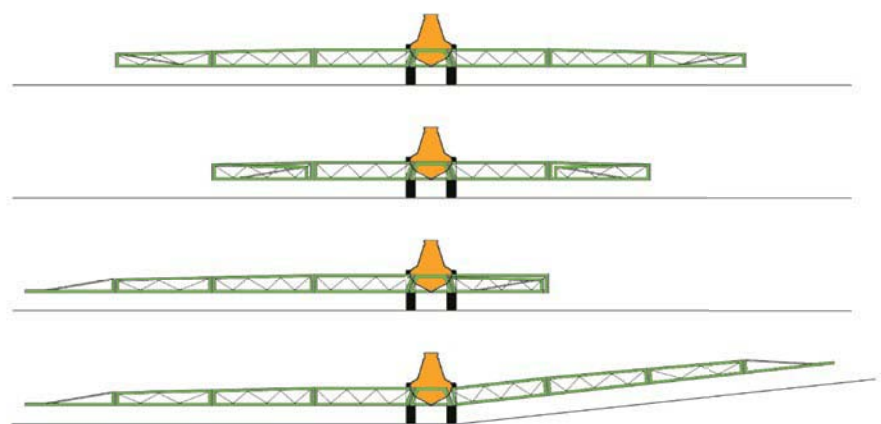
In addition with variable geometry, individual boom tip angling.

### 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.

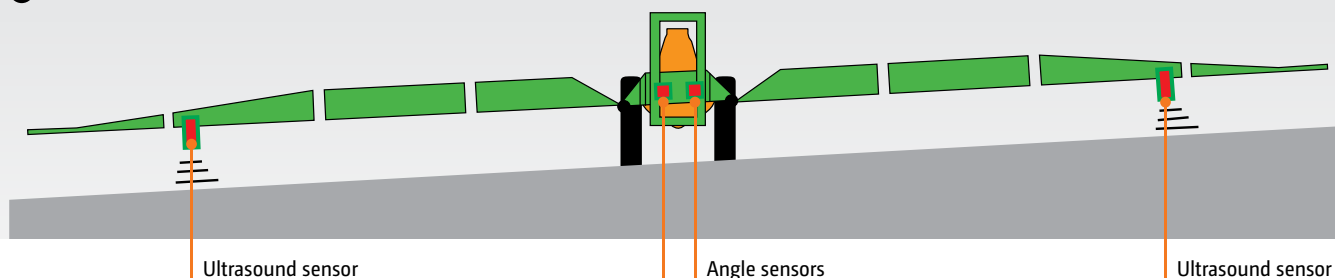
- 1 Working width slightly reduced
- 2 Working width further reduced
- 3 Profi-fold II: Boom independent, one sided folding
- 4 Profi-fold II: Boom independent, one sided tip angling



### + Pre-select fold – practical and economic.

AMASPRAY+ or AMATRON 3 enables the easy one-sided boom folding just via the tractor control valves.

### + DistanceControl



## DistanceControl – automatic boom guidance

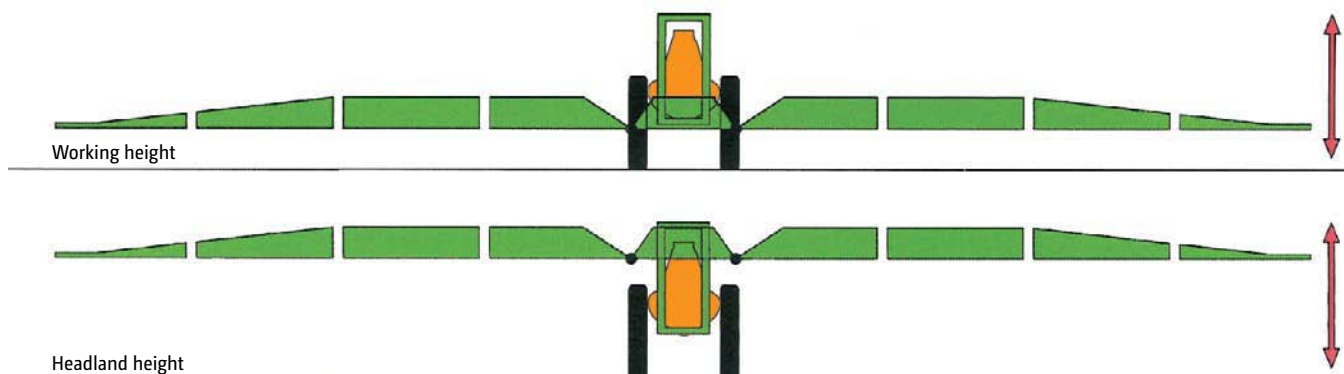
All sprayer booms have the possibility for the fully automatic DistanceControl boom guidance. The boom follows the crop surface and is automatically raised at the headlands.

DistanceControl means the automatic height and tilt regulation (via Profi-fold I) or boom tip angling and tilt adjustment (via Profi-fold II).

## 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.

- + In the AMATRON 3, the working height and headland height are specified beforehand in the DistanceControl menu.
- + For Profi-folding I and II
- + As before, the tilt has to be adjusted manually





# Super-S 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-S booms: 15 – 18 – 20 – 21 – 24 – 27 – 28 m.

The Super-S 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.

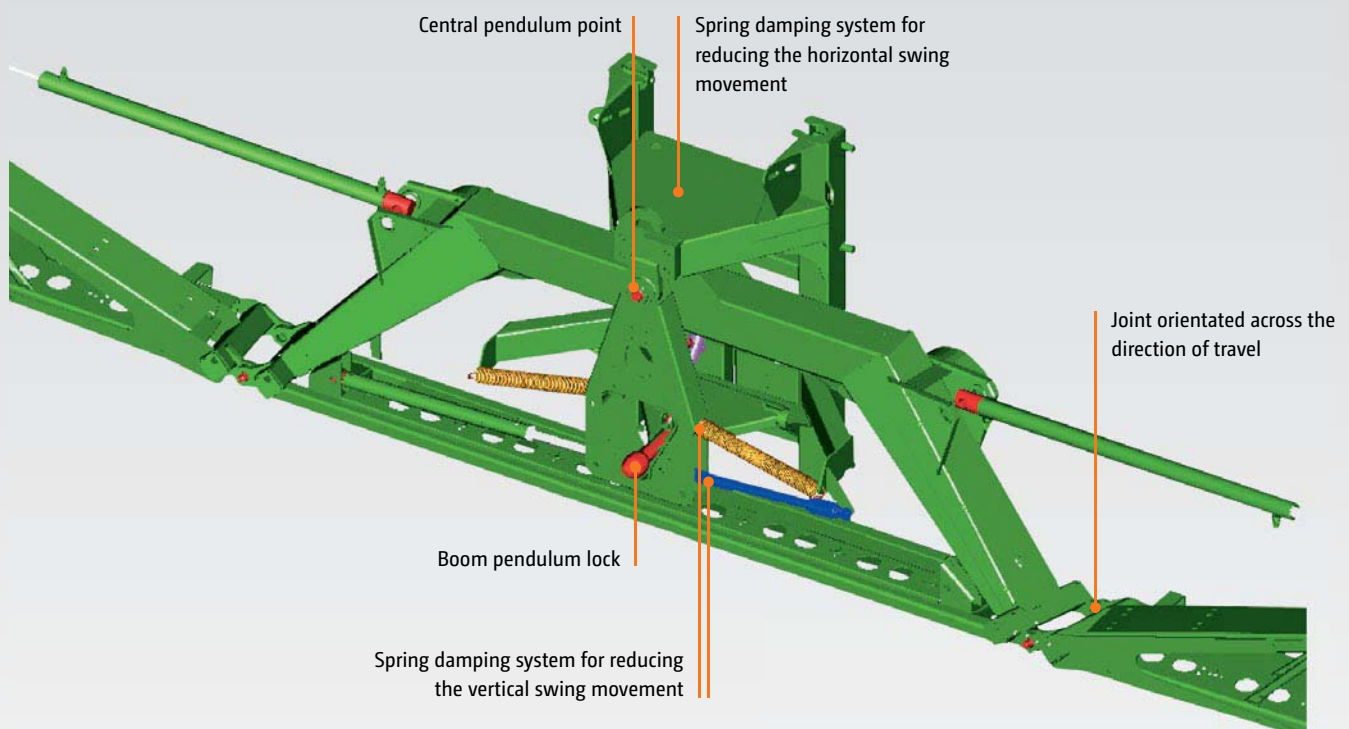
The multiple-folded steel profiles of up to 140 mm wide make the Super-S boom extremely robust.

## Three important elements for excellent boom guidance

Super-S 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-S boom is safely guided at the correct distance above the spray target surface.



⊕ 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!

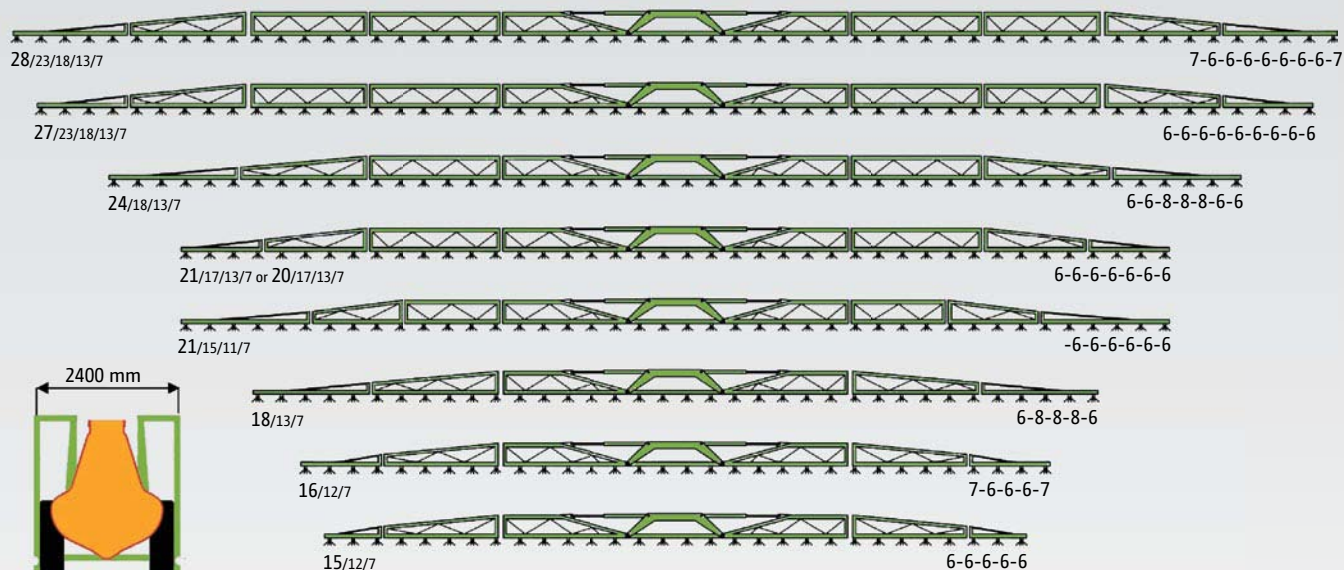
No spray agent from the booms drips on to the tractor or on the operator station and the booms also do not hit the tractor cab.

### Everything shipshape!

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

### Mechanical folding points

### Examples of nozzle layout





# Super-L booms

For large hectare work rates

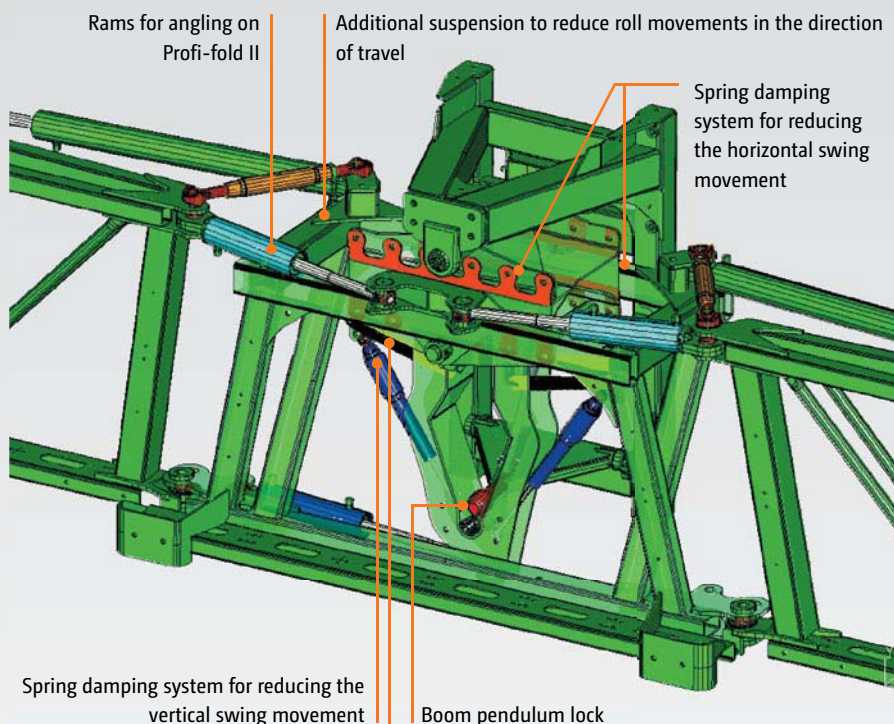
## Fully automatic folding in and out

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

The Super-L 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-L boom superbly robust.

## As standard the Super-L 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).





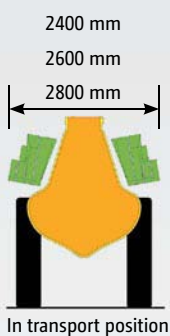
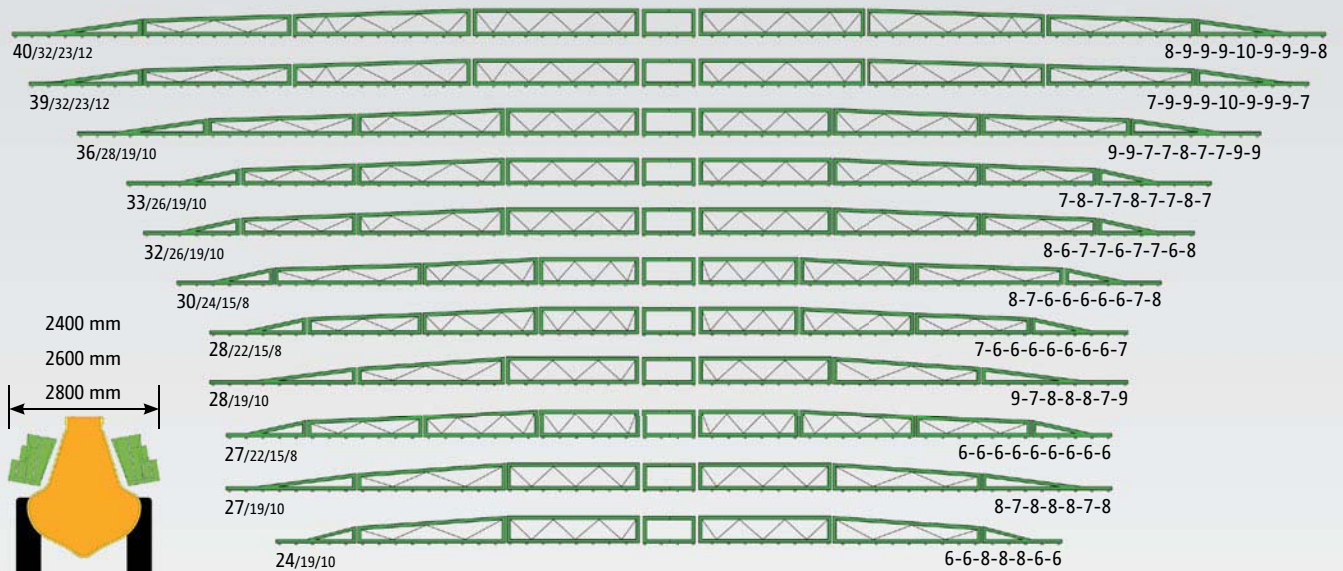
⊕ UX 5200 Super  
39 m



⊕ 39 m Super-L boom

#### Mechanical folding points

#### Examples of nozzle layout





# 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 or quad 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.

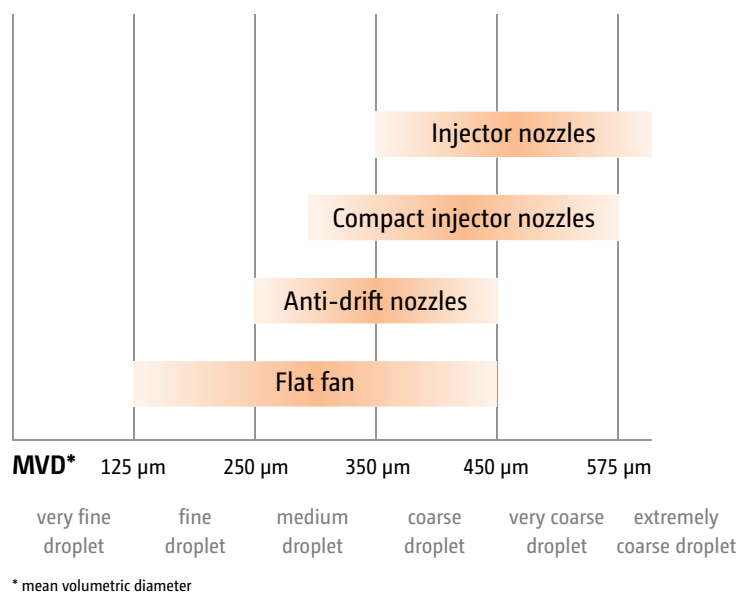
A good compromise is provided by the modern ID-K or Airmix compact injector nozzles. These have relatively little drift, but do not have too coarse a droplet spectrum and are operated at 2 to 4 bar.

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.

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

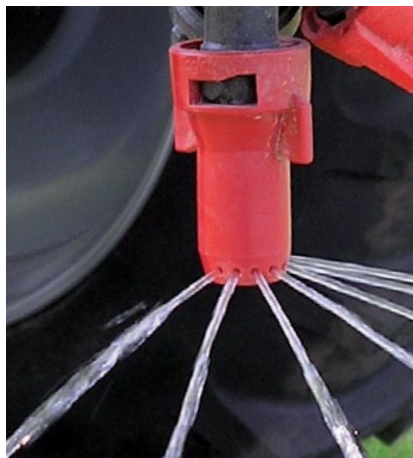




# Equipment for every requirement



⊕ Stainless steel weights on the drag hose



⊕ 7 hole nozzle



⊕ Optional equipment: second spray line



- ⊕ In conjunction with the Super-S 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, underleaf 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-S 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-L boom 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

To double the maximum application rate, the two pumps on the UX Super can be switched in parallel. The HighFlow option opens up a new dimension in output.

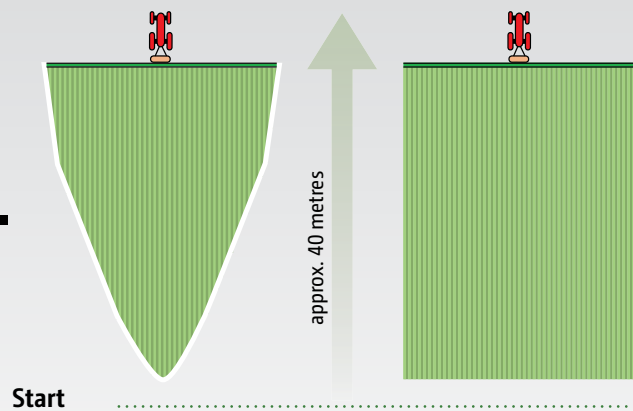
- ⊕ It allows large quantities of liquid fertiliser to be applied at higher speeds.
- ⊕ For vegetable growing, spray rates of 2000 l/ha at 5 to 6 km/h are possible.
- ⊕ The large rates are only possible with an additional spray line giving twice the number of nozzles, placed 25 cm apart.





# Ingeniously simple – simply ingenious

With DUS you determine the timing



without DUS

with DUS  
Immediate  
coverage the full  
working width

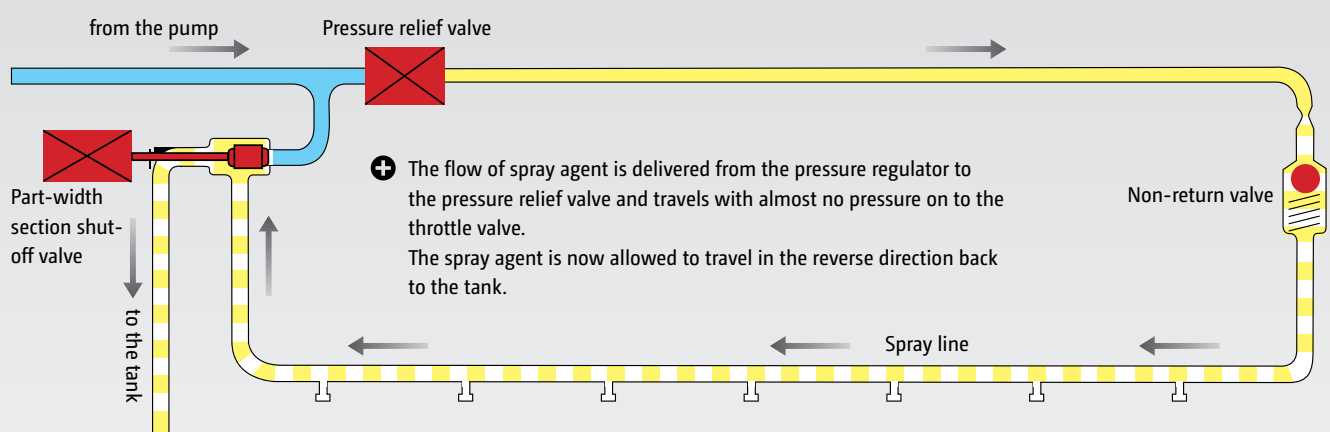
## The DUS pressure recirculation system

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.

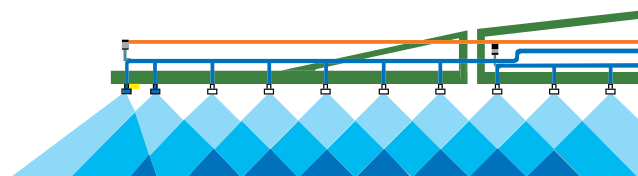
The concentration of the spray agent always remains constant right up to the nozzles, so the start of spraying is carried out without any problems after, for example, a change of ingredients.

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.



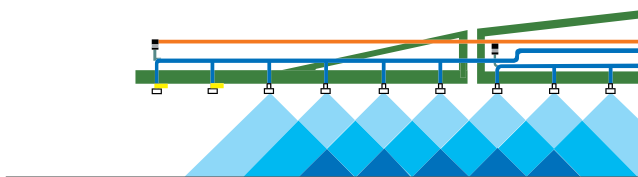
# Electric boundary nozzle switching

For environmentally-friendly spray application at the field edge



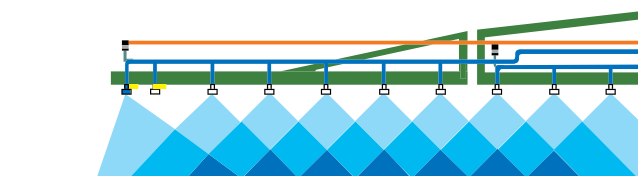
## Additional nozzle switching

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.





# Work lights

Reliable application even after dark



## + LED individual nozzle lighting

The LED individual nozzle lighting targets the light even more to the spray fan.  
Even the last nozzle on the boom can be evenly judged as to its function.

+ Awarded at  
Agritechnica 2009:  
LED individual nozzle lighting





## Work lights

Today, a professional work light system is the basis for flexible, high-performance applications during twilight and at night.

The illumination of the spray fan ensures full nozzle monitoring at a glance.

The Super-S booms are available with 2 work lights, whereas the Super-L booms can be equipped with 4 longer range work lights.



## Available as an option: rear view reversing camera

The optionally available reversing camera mainly ensures 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. Night vision technology and the heated lens additionally improves the camera's performance.





# Trailed sprayer UX 11200

A new dimension in crop protection technology



**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.



# UX 11200

slick – sleek – sly

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Technology   Chassis, drawbar, tank	46
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Watch it on TV:  
[www.amazone.tv](http://www.amazone.tv)





# 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 chasis 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.

## Tank design: sleek and functional

The spray agent tank features are 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.





# 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



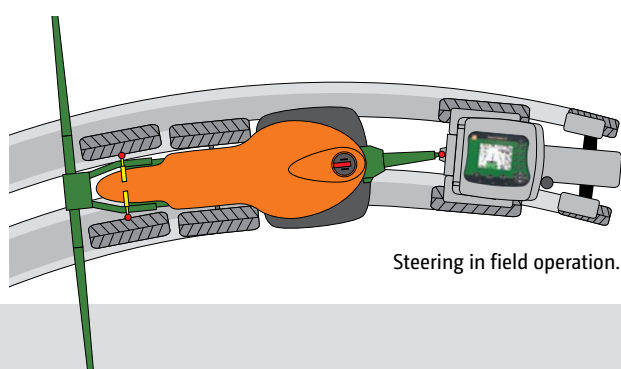


## SingleTrail self-steering



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.

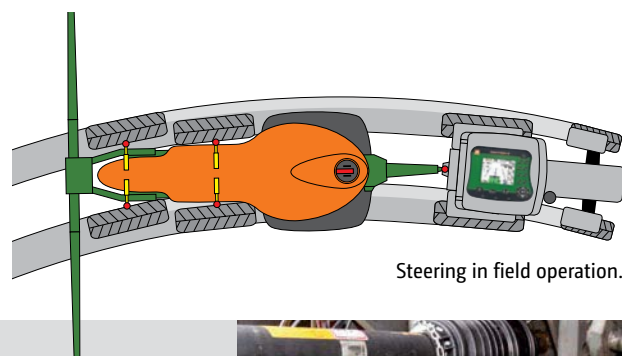


## DoubleTrail – fully automatic axle steering



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.

## + 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 pump

The multi-piston diaphragm pump ensures, with its simultaneous power injector and via the 4" suction port (900 l/min), an even delivery and a smooth running of the pump. The compact 750 l/min pump is especially reliable, can run dry and is fertiliser-proof. As an option: the normal PTO shaft on the UX 11200 can be exchanged for a hydraulic pump drive where the pump is driven virtually independent from the engine speed.

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



All the controls are conveniently located at the front under a cover. This cover ensures that there is little chance of the operating taps becoming dirty and offers a very good accessibility for quick and effective maintenance.

The LED lighting underneath the cover perfectly illuminates the work station.



# The UX 11200 in performance comparison

## 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 – 1200 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.



UG 3000, 24 m



UX 5200, 36 m



UX 11200, 36 m

**Input**

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

**Output**

Application time	217	139	110	h
Filling time	42	27	24	h
Transport time	133	119	77	h
Total time requirement	392	285	211	h
Individual output/hour	9.6	12.7	17.3	ha/h
Total output/hour	19.2	25.4	34.6	ha/h
Individual output/day	58	76	104	ha/d
Total output/day	116	152	208	ha/d
Required machines	2	1	1	

no responsibility is taken for the correctness of this information

### + AMAZONE output calculator

Calculate your own mechanisation scenarios at:  
[www.amazone.de/leistungsrechner](http://www.amazone.de/leistungsrechner)

## How much more output can be got from a bigger field sprayer?

### Environmentally-sound filling

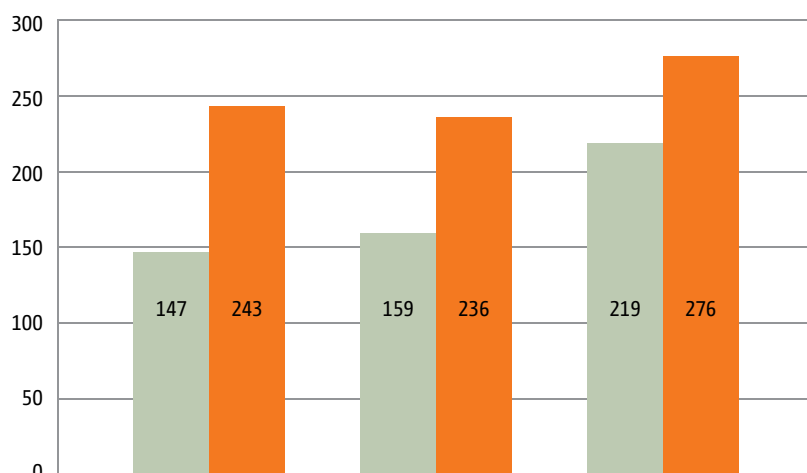
Prior to investing, it always makes sense to calculate and compare the different mechanisation alternatives. For this AMAZONE offers on the internet a multi-functional "output calculator".

As an example, the following calculation compares three scenarios for a 2000 ha farm with a total annual area sprayed of 8000 ha and 10 km from yard to field. The initial

scenario is using two UG 3000 trailed sprayers with a 24 m working width. They manage 147 ha in 10 hours. With this output a timely application is no longer ensured.

An additional alternative is the field edge filling of the trailed sprayer UX 5200 (distance from field/filling place 2 km). In this way one achieves also a high daily work rate of almost 240 ha. However, for field edge filling, one needs an additional water bowser with tractor and driver.

ha/day



- Work rate when yard filling
- Work rate when field edge filling

### Variant 1

is with a UX 5200, in 36 m working width. At 159 ha/day, it exceeds the daily work rate of the two smaller machines. If it comes, however, to the required application in a crop (~ 600 ha), almost 4 days is needed to cover this with the UX 5200.

### Variant 2

is with the 11,200 litre UX 11200. It achieves, even when filled in the yard, 219 ha - a clearly higher and thus sufficient daily work rate.



# AMAZONE – always in the vicinity

Your satisfaction is our challenge







## The satisfaction of our customers is the most important objective

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

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

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

Parts, which are available in our central spare parts store in Hasbergen-Gaste and which have been ordered up until 17 hours, are dispatched the same day. 25,000 different spareparts and wearing metal are held in our ultra-modern stores system. Daily, up to 800 orders are dispatched to our customers.

## Better to choose the original, right from the beginning

Your equipment is exposed to the most arduous of demands. The quality of AMAZONE spare parts 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 spare parts 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, decide in favour of AMAZONE original technology!

### The advantages of original spare parts and wearing metal

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



**Choose the Original  
Choose Success!**

VDMA campaign:  
Pro-Original





## 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 – 28	18 – 36	15 – 28	18 – 40	18 – 40	18 – 40	18 – 40
Height (m)	Super-S boom: 3.22 / Super-L boom: 3.35						3.90
Transport length (m)	6.25		6.80				9.70
Transport width (m)	Super-S boom: 2.40 three-fold Super-L boom: 2.40 / four-fold Super-L boom: 2.60						2.85
Empty weight (kg)	3,000 – 3,400	3,100 – 4,000	3,100 – 4,100	3,100 – 4,100	3,200 – 4,200	3,300 – 4,300	7,800 – 8,400
Pump equipment (l/min)	260	420	260	420/520	520	520	750
Max. suction capacity (l/min)	400	600	400	600/700	700	700	900
Ground clearance	0.78 m (with tyres Ø 1835 mm)						
Spraying height	0.5 – 2.5 m (with tyres Ø 1835 mm)						
Operational pressure, max. (bar)	< 10						

Illustrations, content and technical data are not binding! 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. Flow-Control electronics together with the AMATRON 3 ensures an automatic, fill level dependent circulation and emptying.



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