

Mounted sprayers **UF 02**



UF 02 mounted sprayers



The UF 02 mounted sprayer is available in tank capacities from 1,000 to 2,000 litres and with booms in working widths from 12 to 30 metres. The UF 02 is outstanding in its compact design, as well as its simple, comfortable operation. In combination with the FT front tank, the tank capacity of the highly-manoeuvrable, tractor-mounted combination can be increased to 3,500 litres. That sets the standards!



UF 02 highly-efficient – comfortable operation

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Interactive driver training www.amazone.net/smartlearning

UF 02 mounted sprayer: compact and comfortable

Spray agent tanks from **1,000** to **2,000 litres** Boom widths from **12** to **30 m**

With the FT front tank up to **3,500 litres**

The advantages at a glance:

Speed spraying

- Lifting force optimised design keeps the sprayer within a favourable centre of gravity
- Clever quick coupling system and a convenient parking mechanism for easy mounting and demounting
- The enclosed SmartCenter and integrated, dust-tight storage compartment prevents any contamination
- SmartCenter: tailored operating systems from the intuitively-operated Standard-Pack to the Comfort-Pack with TwinTerminal 3.0
- High-performance 60 litre induction bowl with a suction capacity of up to 150 l/min ensures the shortest possible fill times and a homogeneous spray liquid mix
- High-performance, self-priming, low maintenance piston diaphragm pump for large application rates even at high spray pressures
- Outstanding, multi-facet spring suspension for a smooth boom ride
- DUS and DUS pro pressure recirculation systems for a continuous circulation of the spray liquid
- 50 cm part-width sections thanks to the AmaSwitch electric individual nozzle control
- Automatic cleaning programme for perfect cleaning results under all conditions
- Extendable up to 3,500 litres with the FT front tank for even higher outputs





MORE INFORMATION www.amazone.net/uf-02

High outputs – compact – safe



Exceptional performance

With its teamwork of shape and performance, the UF 2002 convinced and inspired the iF Jury, consisting of experts and designers from all over the world. The jury's evaluation criteria included, in addition to the quality of design, the finish and material choice, the degree of innovation and the environmental compatibility, its functionality and ergonomics and, finally, a visualisation of use and safety.







UF 1002 with 1,000 l tank

UF 1302 with 1,300 l tank

High-capacity spray agent tanks

The UF 02 mounted sprayer is available in tank capacities of 1,000 l, 1,300 l, 1,600 l and 2000 l. The specially shaped, polyethylene tank is integrated into the main frame to give a favourable centre of gravity. The advantages of this tank design are the absolutely smooth inner and outer walls of the tank, the rounded internal design and the low positioned sump on the tank bottom. This allows for quick, effective tank cleaning as well as minimal residual volumes.

The filling of the tank is carried out, both on the suction side and also when pressure filling from a water source, near to the tank bottom. This reliably eliminates any tendency for foaming during the filling procedure. For an intensive agitation capacity and to prevent any deposits settling in the tank, the agitator is positioned down on the tank bottom. The internal cleaning nozzle, the tank breather and the easily opened, domed lid are positioned right up in the tank.

Model	Nominal volume	Fresh water tank
UF 1002	1,000 l	260 I
UF 1302	1,300 l	260 I
UF 1602	1,600 l	200 / 350
UF 2002	2,000 l	200 / 350





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Hitch up, fill up, and off we go!

For every tractor the optimum mounting position!



Model	odel UF 1002* UF 1302*						
Top link pin without quick coupling system	Ca	t. 2	Cat. 3				
Top link pin with quick coupling system	Ca	t. 2	Cat. 3				
Lower link coupling dimensions	Ca	t. 2	Cat.	2/3			
Lower link pins	Cat	t. 3 rated balls					

* with 2 lower link mounting positions



Optional quick coupling system

Favourable centre of gravity – perfect frame design

Due to the large tank volumes of the UF 02, it is of importance to link the machine to the tractor with as favourable a centre of gravity as possible. To ensure this, the UF 02 is equipped with two different link arm positions for different tractors. Guide plates in front of the frame help to link the lower link arms to the torsion-safe, lower link pins.

Comfortable hitching up – the quick coupling system

For an even more relaxed coupling and uncoupling of the UF 02 from the tractor, it can be equipped with the optional quick coupling system. In conjunction with the TeleSpace PTO shaft, the machine can be hitched on and off with greater comfort.

Comfortable demounting – the parking system

The new parking system is completely integrated in the frame. As an option, the patented system can be equipped with castor wheels that remain on the machine even during operation. Via its simple and robust mechanical design, the parking stands or rollers can be quickly swivelled from the transport position to the work position. Any troublesome removal of parking rollers or skids is avoided.



Swivelling in and out the parking device

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Perfect down to the last detail



UF 1602 mounted sprayer

Possible pump options:

Model	Pump capacity l/min
UF 1002	150 / 200 / 250
UF 1302	150 / 200 / 250
UF 1602	200 / 250 / 300
UF 2002	200 / 250 / 300



The pumps of the UF 02 are high-performance, dry-run safe and liquid-fertiliser proof

High performance and reliable pump technology

The UF 02 can be equipped with a single pump system with a choice of 150 l/min, 200 l/min, 250 l/min or 300 l/min as required. During the filling procedure at a nominal pump speed, the full pump capacity is available for filling the spray agent tank. At the same time, either the contents of the induction bowl can be drawn out via the venturi or the total fill capacity can be increased up to 450 l/min.

Stepless hydraulic main agitator

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

Benefits of a piston diaphragm pump:

- Simple handling due to its self-priming capability at the start of the filling procedure
- Very high, consistent application rates with system pressures of up to 10 bar
- Can run dry and is liquid-fertiliser proof
- Ung service life

Everything thought of! Fill level and cleaning

The fill level can be read off both via a clearly visible scale or from the operator terminal.

High-performance, rotating nozzles clean the spray agent tank internally. Short pipe runs and hose cross-sectional areas as small as possible make for low residual volumes. Continuous internal cleaning is available as an option (not with Flow Control⁺).



Main agitator

High-performance, rotating nozzles

SmartCenter

Perfect operator comfort via the simple and centralised controls



• The inside of the swing door offers storage space for a pair of gloves and a measuring jug.

Centralised control – all via the SmartCenter

The new SmartCenter operator station is equipped with a large hinged door that protects all the relevant operating controls and the induction bowl from dirt and water splashes. A holder for gloves and a measuring jug are provided in the inner panel of the swing door. As the swing door opens backwards towards the boom, it protects the operator from chemical contact on his clothing from the booms plus, at the same time, creates plenty of free space between it and the tractor. With the Standard-Pack and the Comfort-Pack, AMAZONE offers two particularly comfortable solutions for the operation of the UF 02.

Well thought through - in every detail

The 20 I hand wash tank is positioned above the induction bowl and it is completely integrated into the machine design. The wash water runs directly into the induction bowl and is sucked into the tank. In addition, an easily-accessible soap dispenser is positioned underneath the hand wash tank. As standard, the UF 02 features a 30 I dustproof and splash water safe clothing locker for carrying any personal protective equipment.







SmartCenter with Standard-Pack

The UF 2002 is a state-of-the-art sprayer with so many features. The new operator centre is well thought-through and logically designed."

("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)

The advantages:

- Central layout of all the relevant operator controls with perfect accessibility
- Operator station sealed against dirt and splash water ingress
- 30 I clothing locker sealed against dirt and splash water ingress
- Integrated 20 I hand wash tank



30 I dust and waterproof clothing locker

Intuitive, simple, efficient –

The right solution for any application



Striking is the new 7-way pressure tap which serves all the functions on the pressure side. Because of this, operator errors are virtually impossible."

SmartCenter with Comfort-Pack

("agrarheute" magazine – Test report UF 2002 with FT 1001 \cdot 03/2018)



SmartCenter with Standard-Pack



Easy actuation via the 7-way pressure tap

SmartCenter with Standard-Pack – simple and intuitive operation

Essentially, Standard-Pack means that the UF 02 is operated mainly via the manual suction and the pressure taps. The suction tap determines from where the pump is going to draw the liquid from, whereas, correspondingly, the pressure tap determines where the pump will send the spray liquid to. In addition, the in-house developed 7-way pressure tap from AMAZONE simplifies control of the pressure side.

SmartCenter with Comfort-Pack – Operation made easy!

In conjunction with Comfort-Pack, the TwinTerminal 3.0 is also utilised. In addition, automatic fill stop for the suction fill is also included. As an option, fill stop is also available when pressure filling from a bowser. During application, the intensity of the agitation is regulated depending on the tank fill level. As the fill level decreases, the agitation capacity is automatically reduced down until it is completely switched off preventing the formation of foam at a low fill level. In addition, the automatic agitation regulation offers auto-dynamic agitator control. This means: if larger application rates are required at the nozzle, the agitator output is reduced. When the nozzles are switched off on the headland, the agitation is automatically restored. 7-way pressure tap

The UF 02 is equipped with a 7-way pressure tap. As oppose to a normal rotary ball valve, the in-house developed valve from AMAZONE consists of a cam and valve seats. Exclusively by swivelling in and out the handle on the pressure tap, the relevant liquid paths are reliably opened or closed.

After the spraying operation is finished, Comfort-Pack provides fully automatic cleaning which can be controlled completely remotely from the tractor cab.

Additional functions such as boom rinsing, cleaning the spray liquid circuit from heavy deposits or a defined dilution of a subsequent tank mix in the field are all functions included within Comfort-Pack.



• "Via the electronics, spraying is almost made child's play. The automated system controls the filling and the spraying processes."

("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)

TwinTerminal 3.0

Exact mixing

Quick and safe with the induction bowl



The advantages:

- Sector Extremely quick and absolutely trouble-free filling
- Suction capacity of 150 l/min
- Fresh water supply during both suction and pressure filling
- Safe induction even of powder and granular spray agents, thanks to the additional mixing nozzle
- Practical folding measuring jug holder in the induction bowl lid

Everything has been thought of for the induction bowl; even canisters can be left to drain."

("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)

"The 60 l induction bowl copes with anything. We experienced this when inducting Epsom salts."
("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)

Trouble-free filling with top performance

The 60 l induction bowl is positioned directly underneath the operator control chest. The phenomenal suction capacity of 150 l/min guarantees the quick, absolutely trouble-free filling and a complete emptying. For inducting powders or granular spray agents, an additional mixing nozzle is positioned underneath the suction aperture which safely prevents any blockage of the suction aperture. The mixing nozzle is infinitely-variable and can be operated in parallel to the infinitely-adjustable output of the high capacity rinse ring.

When either suction or pressure filling, the induction bowl can be also supplied with fresh water via a steplessly-ad-justable 3-way valve!

The canister cleaning nozzle is activated simply by pushing down the canister or measuring jug. In the upper zone of the canister cleaning nozzle there is an additional, smaller contact area which is positioned where the nozzle can be activated, specifically for a more effective cleaning of the canister neck.

Details, such as the measuring jug holder, or the drain off possibility for the canisters located on the inner side of the dustproof and liquid tight lid, provide the operator with an exceptionally convenient operation. When the induction bowl is closed a complete internal cleaning can be carried out with the aid of the canister cleaning nozzle. The spray lance, included in the standard execution, is positioned to the right hand side of the induction bowl.



Induction bowl with drain off facility for empty canisters



A holder for gloves and a measuring jug are provided in the inner panel of the operator station cover

AMAZONE aircraft-style boom design



"Very smooth boom ride in the field during work from the 30 m booms"
("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)





UF 1002 with Super-Q-Plus boom

Simultaneously superbly strong and superbly light

Due to the special profile design, AMAZONE sprayer booms are very light yet, at the same time, very robust. The nozzle bodies with integrated diaphragm non-return anti-drip valves fit up into the boom profiles reliably preventing any dripping from the nozzle. Self-adjusting bayonet fixings ensure a tool-less quick nozzle change. For any operational use and any application rate, the right nozzles are available, for example, for optimum wetting, anti-drift or for liquid fertiliser use.

3-fold shock absorbed suspension for the most arduous of operational conditions

As standard, all AMAZONE booms are equipped with:

- springs and shock absorber pack for damping the vertical roll movement
- rubber buffer damping elements with ball suspension to damp down the horizontal yaw movements and
- tension springs for the shock absorbed suspension of the entire boom

As standard also are hydraulic height adjustment and guide skids that results in the perfect boom guidance and thus, the accurate longitudinal and lateral distribution of the spray agent.

Boom design to perfection

In hilly terrain and with large working widths, hydraulic tilt adjustment makes sense. The quick and precise tilting and return of the boom into the level position is possible via a tractor spool valve or via the electro-hydraulic functions in the ISOBUS terminal. The AMAZONE Super-S series booms are JKI approved. They therefore comply with the highest European demands for crop protection implements!



Compare for yourself!

It's those important quality features that make the difference!

AMAZONE booms – an idea becomes reality

Compactness matters!

It is easy to carry due to the low centre of gravity and the light and robust design of the machine. The front axle weight load is lower than that of many competitors.

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.

Everything in its place!

The boom locates safely in the transport hooks. No rattling. No susceptible wear on the boom pivots. High road speeds are not a problem.

Maintenance-free and with a long service life

The decades of experience in boom design pay off: the conical hinge pin is the intelligent centre of a well thought-out boom philosophy! The boom pivots self-adjust against any play on the conical hinge pins and that ensures for the user an optimal boom functionality even after many years.

The standard use of stainless steel, the automotive-industry standard, cathodic dip painting process and the targeted use of plastics and aluminium are the perfect guarantee of a long service life.







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.





Q-plus boom

12 – 12.5 – 15 metres

The robust, entry-level boom

With the horizontally folded Q-Plus boom in working widths of 12 m, 12.5 m and 15 m, AMAZONE offers an entry-level boom that is second to none when it comes to quality and reliability. Folding in and out is hydraulic as standard, as are the boom height adjustment and one-sided folding in the left-hand direction of travel.

The advantages:

- Super-stable and, at the same time, super-light
- 3-fold shock absorption
- Hydraulic height adjustment as standard
- One-sided folding on the left-hand side as standard
- Available with hydraulic tilt adjustment



UF 1002 with Q-Plus boom

Central hose guidance

The central hose guidance ensures a clean and kink free routing of all hoses and cables.

Boom layout and folding variants for the Q-Plus boom



Super-S boom

The industry-leading boom from 15 to 30 metres



UF 2002 with 30 m Super-S2 boom and FT 1502 front tank



The 3-fold, shock-absorbed suspension, with hydraulic height adjustment and elastic boom height indicators, guides the boom reliably over the crop at the right height.

Super-S1 and S2 boom suspension



The comfortable, industry-leading boom in working widths up to 30 metres

The vertically folding Super-S boom is available in working widths from 15 m to 30 m. Due to the layout of the boom, there are only a few pivot points, which enables a quick folding and, more importantly, a transport width of just 2.40 metres. When equipped with Profi-fold electro-hy-draulic boom actuation and DistanceControl height control, operation is made so much easier.

The Super-S boom is available as the Super-S1 from 15 m to 21 m and the Super-S2 from 15 m to 30 m.

The advantages:

- Super-stable and, at the same time, super-light
- Super narrow transport width of just 2.40 m
- 3-fold shock absorption
- U Hydraulic height adjustment as standard
- Available with the fully automatic DistanceControl height control
- Available with hydraulic tilt adjustment
- Available with end nozzle control
- Available with Profi-fold electro-hydraulic boom actuation

More than just the solid core: Profiles made from high tensile steel

What has been taken away from the boom in weight has been returned in output. The clever lightweight design makes use of the material where it makes sense. For instance, aluminium for weight reduction at the outer boom sections of the Super-S2 boom, but not however, in the middle of the boom. There, high tensile steel is necessary so that the boom is kept rigid and in line and so spray errors due to movement are prevented.





The Super-S2 boom is super-stable and, at the same time, super-light.

UF 02

Super-S1 boom

15 – 18 – 21 metres

Due to the layout of the boom sections, there are only a few pivot points, which allows faster folding. The wellknown, robust profile construction convinces completely. Despite the individual sections of the Super-S1 boom being 50 centimetres longer in comparison with the Super-S2 boom, the machine height comes to just 3.48 metres.

The Super-S1 boom, in working widths of 18 and 21 metres, can be easily reduced to 15 metres by folding in the outer boom sections.



UF 1602 with 21 m Super-L1 boom

The boom is so robust and, during our use of it, the boom ride was pleasantly smooth."

> ("dlz agrar magazine" – Field test UF 1201 "Super also in small widths" · 05/2016)

Boom layout and folding variants for the Super-S1 boom



Super-S2 boom 15 - 16 - 18 - 20 - 21 - 24 - 27 - 28 - 30 metres

Due to the shorter, individual sections, a machine height of just 3.28 m is achieved.



UF 2002 with 30 m Super-S2 boom



Boom layout and folding variants of the Super-S2 boom

With maximum comfort and even more precision

Pre-select folding

Independent folding is possible via either the AmaSpray⁺ in-cab terminal or an ISOBUS terminals via the tractor spool valves.

Profi-fold – flexible and comfortable

As an option for all Super-S booms, AMAZONE offers the Profi-fold electro-hydraulic actuation system. All hydraulic functions can be performed reliably and easily from the cab using the ISOBUS terminal. The multi-function joystick makes handling particularly comfortable.

Profi-fold 1:

Height adjustment, folding in and out, independent, one side folding at reduced speeds (max. 6 km/h), boom width reduction, and tilt adjustment.

Independent fold

Profi-fold 2:

In addition with variable geometry, individual boom tip angling.



Boom with individual tip angling



Sensors precisely detect the target height distance and take over the operation.

DistanceControl with 2 sensors or DistanceControl plus with 4 sensors

As an option for the Super-S boom, AMAZONE offers, either DistanceControl fully automated boom height control with two sensors or DistanceControl plus with four sensors. 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. The driver is able to concentrate on correctly applying the plant protection agent, whilst the computer optimises the boom guidance!

Benefits of the DistanceControl boom guidance

Fully automatic boom guidance including boom height, tilt adjustment and boom lifting on the headland



DistanceControl when equipped with two sensors: measuring to the crop



DistanceControl when equipped with two sensors: The boom can dip into the crop, for example, where there is lodged corn



DistanceControl plus:

Remedy for difficult operating conditions by equipping with four sensors

TG part-width section control



Electrically-controlled TG valve chest

The TG part-width valve chest is available for either ISOBUS control or AmaSpray⁺. The boom part-width sections are switched, on and off, quickly and drip-free via electric motor valves with pressure equalisation.

The amount applied is accurately and directly controlled by the computer in any situation. An equal pressure unit is not required with this technology.



Pressure recirculation system

With DUS you determine the timing



DUS pressure recirculation system

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

The AMAZONE DUS pressure recirculation system ensures a reliable circulation throughout 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 filled 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.

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.

start

without DUS

with DUS immediate coverage over the full working width



Incorrect application of plant protection agents without the DUS pressure recirculation system

DUS pressure recirculation system: supplies each individual part-width section



AmaSwitch

Electric individual nozzle switching with 50 cm part-width sections



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

Automatic 50 cm part-width section switching

With AmaSwitch, AMAZONE offers the precise solution for automatic part-width section control on 50 cm sections. AmaSwitch is the ideal alternative for users who want to maximise the benefits of very precise switching in wedge shaped fields and areas of overlap, 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.

3-fold nozzle body, with electric on/off switching

The technology behind AmaSwitch is based on a conventional, manually-rotated, 3-fold 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. In conjunction with GPS-Switch, it is thus possible to very precisely control 50 cm part-width sections in short work 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.

DUS pro

With DUS pro, the spraying pressure is constant right up to each individual nozzle and at the set spraying pressure. Thanks to the conical spray lines, minimal residual spray volumes are achieved.

Conical spray line:

The dimensions of the spray line vary along the boom Minimal residual spray volumes

Even flow rate

Quad nozzle body, with the additional 25 cm nozzle spacing

In addition to the triple nozzle body, AmaSwitch electric single nozzle control can also be equipped with a quad nozzle body. In addition, a true 25 cm nozzle spacing can be achieved with the aid of an optional extension kit. This offers the benefit, in combination with specific 80° nozzles, to reduce the boom to target surface distance down to less than 50 cm.



AmaSwitch triple nozzle body with electric individual nozzle lighting



AmaSwitch quad nozzle body



AmaSwitch with quad nozzle body and extension set for an actual 25 cm nozzle spacing

Example: 24 m boom width



Calculated example:

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

Important knowledge for field analysis

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



Level of equipment on crop protection sprayers: 9 part-width sections 11 part-width sections 13 part-width sections 50 cm part-width section individual nozzle switching

	Electric individual nozzle switching					
Part-width section valves TG	AmaSwitch Triple	AmaSwitch Quad				
up to 11	up to 60	up to 60				
-						
1, 3	3	4				
	-	-				
-						
-	-					
-						
	Part-width section valves TG up to 11 – 1, 3 – – – –	Electric individualPart-width section valves TGAmaSwitch Tripleup to 11up to 601, 33<				

Comparison of systems:

Nozzle switching -system overview

= optional

The right nozzle choice

The basis for success in crop protection



Less drift also at higher wind speeds

With the air-inclusion 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 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 from 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.





Injector nozzles (ID, TTI) have a relatively coarse droplet spectrum and are particularly versatile with regard to their range 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 for 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



very fine coarse very coarse droplet fine droplet medium extremely droplet droplet droplet coarse droplet

* mean volumetric diameter

Equipment for every requirement

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.







Liquid fertilisation

In conjunction with the AMAZONE booms, a separate drag hose kit for risk-free late fertilising is available. The self-contained aluminium profiles can be attached with a few hand clamps. Stainless steel weights help keep the position of the drag hoses within the crop. For the coarse droplets distribution of liquid fertiliser, AMAZONE offers multi-hole nozzles (3, 5, or 7 hole).

Under-leaf spraying

Elegant solutions for successful under-leaf spraying are also possible in combination with AMAZONE crop protection sprayers. The Dropleg system from Lechler, for instance, is an easy and robust under-leaf spraying system that hangs freely between the rows and which fully meets the demands of the professional.

LED individual nozzle lighting

Professional work lighting is today the basis of a flexible, output-increasing solution to operating in twilight and at night. LED individual nozzle lighting picks out each individual spray fan. An absolutely immediate assessment of their operation down to the very last nozzle on the boom can be made.

LED boom lighting for Super-S booms

For flexible and efficient operation at twilight and in the dark, LED boom lighting is available.

Two far-reaching LED work lights, mounted in the middle of the boom, ensure excellent visibility of all the nozzles at a glance.





FT 1001 and FT 1502 front tank

For the affordable self-propelled sprayer with up to 3,500 litres



High-capacity and compact, UF 02 with FT front tank

Self-propelled sprayer: UF with FT for even higher outputs

The FT front tank allows the tank volume of the UF mounted field sprayer to be very easily extended by either 1,000 litres or 1,500 litres. Thanks to the optional FlowControl⁺ System and the compact design, the UF front tank is the ideal solution for increasing the overall capacity of the UF.

From mid-April to mid-May...

... huge tulip fields light up North Holland. For targeted plant protection, tulip grower Siem Munster relies on a UF 2002 mounted sprayer and a FT 1001 front tank. The core characteristics of this combination are particularly important when working in his tulip crop: efficient, comfortable, compact and precise! "With the FT 1,000 I front tank one gets a highly-manoeuvrable sprayer with the capacity of a small self-propelled machine."
("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018)



The advantages at a glance:

- FlowControl⁺ intelligent fill level management for optimum weight distribution
- Improved driving stability on slopes due to the intelligent loading of the front axle
- Very compact design thanks to front linkage better manoeuvrability in the field and for a safer road transport

Model	Nominal volume
Front tank FT 1001	1,000 l
Front tank FT 1502	1,500 l

The special advantages offered of more manoeuvrable tractors with a mounted implement compared with trailed sprayers in smaller and more awkward shaped fields as well as the better behaviour on slopes are the major arguments for the front tank solution.

But also in the 3,500-litre self-propelled sprayer class, a comfortable tractor equipped with a high-quality combination of mounted sprayer and front tank makes an interesting alternative.

Benefits over a self-propelled sprayer

- Huge advantage on price
- 80 km/h permitted speed with Fastrac
- Tractor can also be used for other operations

Benefits over a trailed sprayer

- Compact unit
- Less side crabbing on side slopes
- Good ballasting of the front axle provides good driving stability on slopes
- Faster manoeuvring on the headland
- Easy manoeuvring in smaller and wedge-shaped fields
- Compact transport on narrow country lanes and along roads
- The front tank simultaneously serves as front weight ensuring an optimum balance
- Reduction of soil compaction

Growers, for whom the volume of their UF 02 mounted sprayer is not large enough, can expand the nominal volume up to 3,500 litres by combining it with a front tank. With the aid of FlowControl⁺, the front tank is completely integrated into the spray liquid circuit of the UF 02.

Automatic regulation via FlowControl+

Operates just like using one large tank

The operator terminal controls the liquid circuit. Only when the fill level of the rear mounted sprayer reaches the 30 % mark is the spray agent pumped from the front tank to the rear.

Electronic fill level management system

The special feature of the FT front tank is the complete integration of the front tank into the mounted sprayer liquid circuit using the FlowControl⁺ electronic fill level management via the ISOBUS terminal. The technological basis of FlowControl⁺ is the two electronic fill level indicators in the tanks and the two high capacity injectors. The transfer rate in each direction is up to 200 l/min. The liquid in both spray tanks is always ideally homogenised. The ISOBUS terminal automatically controls the liquid circuitensuring, always, an optimised weight distribution. Premature reduction of the load on the front axle is prevented. Depending on the fill level, new liquid is delivered from the front tank soon enough so that the rear sprayer tank is never emptied prior to the front tank. The liquid always remains homogeneous.

The manual control also enables the transport of just fresh water to the front tank. In practical terms, the FlowControl⁺ pump additionally assists the filling procedure so that a maximum suction capacity of up to 400 l/min is possible.

Handling and in transport superb!

Sophisticated design for the utmost in safety

In the yard or in the barn: The compact combination, carried on its transport wheels, stores easily away. The system's simple handling is already convincing even after just a few hours in the field. The internal cleaning of the sprayer combination is carried out via the fresh water rinse tank on the UF.

The additional 100 l capacity of the fresh water rinse tank allows the appropriate cleaning according to European guidelines (rinse tank capacity: min. 10 % of the tank volume). The compact sprayer-tractor unit is favourable especially in narrow lanes with hardly any obstruction to the view thanks to the well thought out design.

The AMAZONE FT complies with all relevant EU traffic safety directives and standards.

The optional road lighting kit is necessary in cases where the lights of the tractor are hidden. The hidden headlights of the tractor must be duplicated on the tractor roof. The fitting on the front tank is not allowed.

Optional camera system

In difficult driving situations, such as when pulling out of road junctions, the optional camera system on the front tank and on the mounted sprayer provides better visibility, and thus more safety, to the front and the rear. The high resolution, anti-glare monitor has a backlit display and can display two cameras at the same time.

Operation from simple to high-end, everything and anything is possible

 "High-end in the field." ("agrarheute" magazine – Test report UF 2002 with FT 1001 · 03/2018) UF 2002 with Super-S2 boom and FT 1502 front tank

UF 1002 with Q-Plus boom

AmaSpray⁺ operator terminal

The handy AmaSpray⁺ is specifically designed for the operation of AMAZONE sprayers and offers simple, but nevertheless, automatic control of the UF mounted sprayer. Switches integrated into the operator terminal enable the control of 5, 7 or 9 part-width sections. AmaSpray⁺ has a digital pressure display and digital tank level indicator. It records the quantity applied and area worked. The hydraulic functions are operated using the spool valves on the tractor. Boom tilt and pendulum lock are also displayed in the AmaSpray⁺. As an option, AmaSpray⁺ enables one-sided folding of the boom or, alternatively, 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 via a GPS terminal.

Functions of AmaSpray⁺:

- 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 lock status
- Hectare meter (total and daily counter)
- 🔮 +/- 10 % key
- ✔ Field record management system

Option possible:

- Pre-select fold for independent boom folding
- End or boundary nozzle for the Super-S boom (alternatively with pre-select fold)
- Fold or tilt via 1 double-acting spool valve (electro-hydraulic changeover valve)
- ASD inside: serial interface for documentation and GPS terminal versatility

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UF 02

ISOBUS –

Machine operation in the digital age

One language, many benefits!

Each ISOBUS-enabled machine from AMAZONE comes with the latest technology and almost unlimited possibilities. It does not matter whether you use an operator terminal from AMAZONE or an ISOBUS terminal directly installed in your tractor. ISOBUS is a worldwide recognised communication standard between, on the one hand, operator terminal, tractor and connected implements and, on the other hand, farm management systems.

Operation via any ISOBUS terminal

Which means that ISOBUS enables you to take control of all your ISOBUS compatible equipment. You just connect the machine with the relevant ISOBUS terminal and immediately the normal operator interface is displayed on the monitor screen in your tractor cab.

Benefits of ISOBUS:

- This worldwide standard provides a uniform interface and data exchange formats that ensure compatibility even with third party manufacturers
- Plug and Play between machine, tractor and additional ISOBUS implements

AMAZONE – more than just ISOBUS

Improved control, more yield! Precision Farming 4.0

Our competence in electronics

To increase the operational comfort, AMAZONE implements and operator terminals feature a scope of functionality way beyond ISOBUS standards.

The benefits of more than just ISOBUS:

- Highest compatibility and safety functionality of your ISOBUS equipment
- No additional modules on the machine side. All ISOBUS machinery from AMAZONE is already equipped as standard with the necessary ISOBUS functions
- MiniView display with all AMAZONE terminals and additional ISOBUS terminals. See, for instance, the machine data in the GPS view

- Possibility of operating the machine via the tractor terminal or a twin terminal solution
- Flexible assignment of the field and machine view between the tractor and the operator terminal
- Unique operating concept. Freely-configurable displays and individual user interfaces for each driver
- Freely-configurable machine operation as, for instance, the folding procedure of the booms of your AMAZONE crop protection sprayer
- Integrated TaskController data logger function

Automatic part-width section control GPS-Switch with Section Control

Precise switching in 50 cm part-width sections

The decisive benefit of the individual nozzle control is the possibility to operate with small part-width sections giving an even greater degree of precision in wedge shaped fields, short work and on the headland. If AmaSwitch or AmaSelect is combined with the automatic GPS-Switch Section Control, the automatic switching of individual nozzles in 50 cm part-width sections is made possible. With this system, areas of

overlap are significantly reduced and are, in comparison with a conventional Section Control part-width section shut-off system, up to 85 % less. So, the combination of GPS-Switch and individual nozzle control results in, depending on field shape and size, the working width and number of part-width sections, significant savings of spray agent compared with a normal spraying system used thus far.

🗚 AMAZONE

Overlaps on the headland or in wedge shaped fields are prevented via precise switching with GPS-Switch.

If the terminal to be operated features Section Control, such as, for example, GPS-Switch part-width section control from AMAZONE, the switching of the part-width sections can be carried out completely automatically and in relation to the GPS position. Once a field has been established by the driver, then, in the automatic mode, they can fully concentrate on handling the vehicle whilst the switching of the part-width sections in short work and on the headland is carried out automatically.

Benefits of automatic part-width section control:

- Stress relief on the driver
- Increase in precision especially at night or at higher speeds
- Less overlaps and gaps
- Saving of resources
- Less crop damage and environmental pollution
- With Section Control, the ISOBUS terminal relieves the driver from a lot of work."

("dlz agrar magazine" – "Test report ZA-TS fertiliser spreader". 02/2017)

GPS-Switch

With GPS-Switch, AMAZONE offers a GPS-based, fully automatic, part-width section control for all AMAZONE operator terminals and ISOBUS compatible fertiliser spreaders, crop protection sprayers or seed drills.

GPS-Switch basic

- Automatic part-width section control with up to 16 part-width sections
- Creation of a virtual headland
- Automated boom lowering for an AMAZONE sprayer
- Optional with AmaTron 4

GPS-Switch pro

- Automatic part-width section control of up to 128 part-width sections
- Marking of obstructions (POI)
- Standard with AmaPad 2
- Optional with AmaTron 4

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 as a standalone system alongside an ISOBUS terminal.

UF 02

Workday made easy –

Make the most of the possibilities!

GPS-Track – your parallel driving aid in the field

GPS-Maps&Doc

All standard ISOBUS terminals from AMAZONE can collect and save machine and site-specific data using Task Controller. Part-area, site-specific operation via the application maps in a shape and ISO-XML format is also possible.

- Easy creation, loading and processing of jobs
- Ocumentation and export of the work done in ISO-XML format
- O Display of inactive field boundaries
- Automatic field recognition
- Job summary via PDF export
- Intuitive system for processing application maps
- Automatic part-area site specific regulation of the application rate
- Optimum crop management via need-oriented application
- Standard on AmaTron 4 and AmaPad 2

GPS-Track

The GPS-Track parallel driving aid makes orientation in the field much easier, particularly on grassland or in areas without tramline tracks.

- The virtual light bar in the status bar
- Automatic tramline control via GPS for AMAZONE seed drills

Am AMAZONEN-Werl

Various track modes such as A-B Line or contour travel.

09.11

- Standard with AmaPad 2
- Optional with AmaTron 4

GPS-Maps - part-area, site specific application

Manager 4 all

Easy and comfortable operation as intuitive as your tablet

Why not handle a terminal as intuitively as a tablet or a smartphone? With this in mind, AMAZONE has developed the operator-friendly AmaTron 4 which offers a noticeably smoother operational process, especially when it comes to job management. The AmaTron 4, with its 8" multi-touch colour display meets the highest expectations and offers maximum user-friendliness. A swipe of the finger or using the App carousel allows quick changes between applications and the simple and clearly structured operating menu. A useful MiniView, a freely configurable status line as well as a virtual light bar make the use of the AmaTron 4 particularly clear and convenient.

Benefits of AmaTron 4:

11 **Fra** (2)

- Automated full image mode during non-operation
- Practical MiniView concept
- Operation via the touch display or via soft keys
- Separate Sep
- Field-related documentation
- Practice-oriented and intelligent menu guidance
- Oay-night mode
- Free test phase for all chargeable licences
- AmaTron Connect for optional entry into the digital age

Standard with:

GPS-Maps&Doc

With AmaCam, an optionally installed reversing camera is automatically switched on when reversing, thereby eliminating tiresome switching. Machine operation (UT, Universal Terminal) in day-night mode

UF 02

AmaTron Connect

Connected to your world

Communication in real time

With AmaTron Connect, AMAZONE provides a digital interface to a smartphone or tablet. The mobile device and the ISOBUS terminal AmaTron 4 are simply connected as a hotspot.

AmaTron Twin App -**Clear display enhancement**

The AmaTron Twin App offers the driver even more comfort in work, as GPS functions in the field view can also be operated via a mobile device (e.g. tablet) in parallel with machine operation in AmaTron 4.

Advantages of the AmaTron Twin display enhancement:

- Use of an existing mobile device
- Greater clarity all applications in sight
- Comfortable control of GPS functions in the field view in parallel via the mobile device

Map view with AmaTron Twin - Clear display of the machine and its part-width sections, as well as buttons on the right-hand side of the tablet display

agrirouter –

The independent data exchange platform for agriculture

Secure data exchange

AMAZONE opens the way to universal data exchange by means of the manufacturer-independent agrirouter. The agrirouter enables data to be exchanged between AMA-ZONE machinery, agricultural software, manufacturers and companies both securely and without any complications.

myAmaRouter App – Comfortable and simple

The myAmaRouter App enables data to be exchanged between the AmaTron 4 ISOBUS terminal and the agrirouter manufacturer-independent data exchange platform. If work on an AMAZONE machine is to be carried with job data (e.g. application maps), the data can be easily transmitted from the agrirouter to the AmaTron 4 via the myAmaRouter App and sent back after completion.

Advantages of agrirouter:

- Simple and easy handling
- Comfortable and fast transfer
- Full control of your data
- Data is transported, not stored
- Manufacturer-independent use

The manufacturer-independent agrirouter enables secure and uncomplicated data exchange

Uncomplicated data transfer. Transparent and secure!

AmaPad 2

The particularly comfortable way to control agricultural machinery

The new dimension in control and monitoring

AmaPad 2 from AMAZONE is a particularly high-quality operator terminal. The 12.1" multi-touch colour display is particularly comfortable and fulfils the highest demands on Precision Farming. AmaPad 2 is operated solely via touch.

With the practical "MiniView concept", applications which aren't being actively operated at that moment but need to be monitored are clearly displayed at the side. When needed these can be enlarged via "a finger swipe". The possibility to individualise a "dashboard panel" with the displays of choice rounds up the user ergonomics.

Benefits of AmaPad 2:

- Large 12.1" multi-touch colour display
- Section 2014 Extended MiniView concept
- Integrated light bar
- 2 camera connections
- Oay-night mode

Equipped as standard with:

GPS-Maps&Doc GPS-Switch pro GPS-Track

AmaPilot⁺ – Everything from a single source!

Thanks to the AUX-N feature, you can operate multiple functions of the machine via AmaPilot⁺ or any other ISOBUS multi-function joystick.

The benefits of AmaPilot+:

- Almost every function directly controlled via 3 levels
- ✔ Adjustable palm rest
- Freely-programmable, individual key layout

ISOBUS terminals from Amazone – Intuitive, comfortable, better

The advantages:

- Uniform AMAZONE operating philosophy
- Practice-oriented and logical menu structure
- Simple and clear operation
- ✔ Freely configurable user interfaces

Terminal	AmaTron 4	AmaPad 2				
Display	8 inch, multi-touch colour display	12.1 inch, multi-touch-colour display				
Mode of operation	Touch and 12 soft keys	Touch				
Interfaces	Serial inter 2x USI	face for GPS 3 ports				
Sensor connection (e.g. nitrogen sensor)	via SCU-L adapter	via SCU-L adapter or PeerControl				
Job management and processing of application maps (ISO-XML and shape)	GPS-Ma	aps&Doc				
Automatic part-width section control (SectionControl**)	GPS-Switch basic * with up to 16 part-width sections or GPS-Switch pro * with up to 128 part-width sections	GPS-Switch pro with up to 128 part-width sections				
Parallel driving aid	GPS-Track * with virtual light bar	GPS-Track with virtual light bar				
Automatic track following	-	GPS-Track Auto * for the Pantera self-propelled crop protection sprayer				
Camera connectivity	1 x camera connection * with AmaCam automatic reversing detection	2 x camera connections *				

* = optional / ** = Note the max. no. of machine part-width sections

Crop protection technology from AMAZONE

Benefitting from more than 50 years of experience

The UF 2002 mounted sprayer with FT 1001 today First mounted sprayer S from 1969

Technical data:

UF mounted sprayer and FT front tank

Model	UF 1002	UF 1302	UF 1602	UF 2002		
Tank capacity (I)	1,100	1,400	1,680	2,125		
Nominal volume (l)	1,000 1,300		1,600	2,000		
Fresh water tank (l)	260	260	200 / 350 200 / 35			
Working width (m)	12 – 30					
Empty weight (kg)	850 ¹	1,200 ²	1,400 ³	1,5504		

Model	FT 1001	FT 1502
Tank capacity (I)	1,125	1,580
Nominal volume (l)	1,000	1,500
Empty weight (kg)	217	225

Sprayer boom		Q-plus	5	Super-S1 Super-S2									Super-S1			Super-S1 Super-S2											
(m)	12	12.5	15	15	15 16 18 15 16 18 20 21 21/15 24 27 27/21 28								28	30													
Transport width (m)	2.	56	3.00	D 2.40					2.40																		
Height (m) of parked machine		3.10		3.48			3.20									3.28											
Height adjustment (m)		0.50 – 2.20																									

¹ with 15 m Q-plus sprayer boom

² with 21 m Super-S1 sprayer boom

³ with 21/15 m Super-S2 sprayer boom and Profi-fold 1

⁴ with 30 m Super-S2 boom and Profi-fold 2

Illustrations, content and technical data are not binding! Deviations in technical data is possible depending on the equipment level. The illustrations may due to the requirements of local road traffic regulations.

UF 1302

UF 2002

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