



BioMant



MANTIS ULV® offers professional weed control solutions for a wide range of cultivation, such as

▶ Tree nurseries

- ▶ Ornamental plants
- ▶ Orchards and vineyards

- Christmas tree cultivations
- ► Biomass plantations
- ► Vegetable farming

As well as other areas such as municipal areas, parks, car parks, paths and other (semi-) hard surfaces.



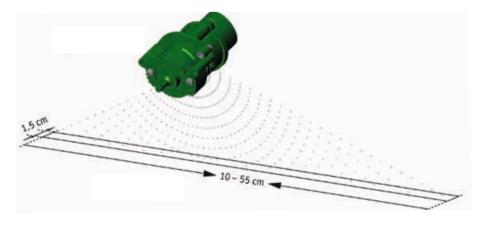


Up to 50 % herbicide savings thanks to ULV technology

The core element of all MANKAR® ULV (meaning "ultra low volume") spraying systems is a patented **segment rotation atomiser**. Undiluted herbicides and herbicide mixtures are sprayed vertically downwards without pressure, thus arriving exactly there, where it is required.

A dosing valve, an electric valve or a special wheel-driven pump for path-dependent metering regulates the exact dosage of active ingredient.

The battery and atomiser of all sprayers is electronically monitored.



MANKAR® advantages

- ▶ Optimal coverage and efficient utilisation of active ingredient
- Minimal risk of drift
- ▶ Minimal herbicide usage, up to 50 % savings on cultivated land
- ▶ Use of undiluted herbicides and herbicide mixtures
- Time savings and no water required
- ▶ Less weight, less soil compaction, less back strain
- ▶ Low energy consumption, powered by rechargeable battery or on-board supply
- ▶ Optimally designed for a wide range of applications
- ▶ Wide variety of models available



MANKAR® DRIVE-P

Path-dependent metering thanks to a wheel-driven pump

With all DRIVE-P models, a wheel-driven pump doses the exact and desired quantity of herbicide per hectare, independent of the driving speed. All models are equipped with Flex spray hoods for spray widths ranging from 25 to 110 cm, with or without extension arms.

Unima-P models are designed for front mounting on single-axle tractors, whereas for rear mounting on other vehicles, one ore more **Flexomant** module(s) can be combined with specific support components. The Flexomant's parallelogram construction ensures a constant contact with the ground and an even distance between the spray hood(s) and the ground. Flexomant modules can be adapted to a wide range of vehicles, for full-surface spraying, or along and in between rows for almost all application areas.







MANKAR® DRIVE-E

User controlled metering through an electric pump

Varimant- and **Unima-E** models can be front- or rear mounted. They are lighter than Drive-P models and therefore also suitable for sloping terrain and for mounting on e. g. self-driving vehicles such as robots. Selective spraying can be assured by a user-operated switch.

Standard models, with a 3-point-hitch, are available for full-surface spraying or along and in between rows, in working widths ranging from 25 cm to 3.50 m and with a manual width adjustment. Customised models with larger spray and/or working widths, electric or hydraulic width adjustment, as well as specific mounting adapters e. g. for portal tractors or robots, are available on request.







MANKAR® CARRY

Handheld sprayers for the highest flexibility

MANKAR-HQ models are lightweight, ergonomic handheld sprayers, ideally suited for use in dense or irregularly planted cultivations, as an entry model or wherever the highest possible flexibility is required.

Herbicide metering is ensured by a manual metering valve and the atomiser is activated by an ON/OFF switch, meaning that spraying is only carried out where and when needed. Spray widths are available from 12 to 45 cm and, on some models, can be adjusted by rotating the spray hood.



MANKAR® ROLL

Wheelbarrow models for exact and path-dependent spraying

MANKAR-TWO and -ONE models are pushed like a wheelbarrow, easily transported and do not require a vehicle to be operational. They are ideal for treatment of smaller or remote and hard to reach areas.

A wheel-driven pump guarantees accurate, path-dependent herbicide metering, independent of walking speed. And thanks to the low weight and robust wheel, uneven or sloping terrains are not a problem. Spray widths vary from 25 to 110 cm, with or without extension arms.



BioMant Herbi

For bio-herbicides

Specially developed for the use of bio-herbicides, e. g. based on pelargonic acid, as well as (organic) plant fortifiers.

The optimal distribution of the required quantity of the active ingredient is achieved using injector nozzles combined with our tried-and-tested Flex spray hoods. The BioMant Herbi spraying system is available as an integrated unit with an electrical cart or as an attachment kit for mounting on vehicles.

SPRAYING SYSTEM



Organic weed control with hot water

Weed control with hot water is an ideal solution for use in row cultivations in organic farming, as well as non-cultivated land like roads, paths, car parks, and municipal or industrial areas, where the use of herbicides may not be allowed or desired. Hot water (99,5 °C) destroys the cell structure of the weed, causing the plant to weaken and die off.

BioMant Aqua advantages

- ▶ Most effective, cost-efficient and time-saving method when compared to other non-chemical methods
- Increased working speed thanks to the high water flow rate and temperature control system
- ▶ No damage or risk of fire to treated areas or cultivated plants
- ▶ 2-in-1 Weed control and high-pressure cleaning
- Exceptionally eco-friendly heating and propulsion technology

BioMant Aqua models

WS-I / WS-II

WS-I/II models are equipped with one or two burners, powered by diesel or environmentally friendly LPG. Thanks to a unique Temperature Control System ("TCS") and a high flow rate of respectively 15 or 30 l/min, working speeds can reach 4 km/h.

WS-Agro

Specially designed models with extension arms and Flex spray hoods for use in row cultivations in organic farming, based on the BioMant Aqua WS-I or WS-II models.

WS-Compact

This compact model can be connected to water mains and a regular 230 V power outlet or can be operated autonomously when combined with a water tank and power generator. With a water flow rate of 9 l/min and working capacity of up to 2.000 m²/h, the WS-Compact is suitable for small as well as large areas.

WS-Mini

The smallest, most agile, lightweight and affordable model of the BioMant Aqua range, provides a water flow rate of 8 l/m and is ideal for use on the smallest and hard to reach areas, where a water tap and 230V outlet is available.







Professional spraying technology from MANTIS ULV®

With over 40 years experience in the development, production and sales of professional spraying systems for a variety of application areas and industries, Mantis offers high quality sprayers for the most efficient and user-friendly application of liquid preparations.

Beyond weed control, Mantis also offers MAFEX® spraying systems for crop protection (e. g. potatoes, fruit and silage), ROFA sprayers for insect control and disinfection, as well as a variety of MANTIS ULV® spraying systems and components for the public health sector and other industries like the pre-fab concrete or food processing.

Mantis, specialist in professional weed control solutions with herbicides, bio-herbicides or hot water



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Please visit our website www.mantis-ulv.com for more information on the latest products and developments.



We can help you find the right solution!





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