

Weed control with minimal herbicide consumption



MANKAR[®] advantages at a glance:

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

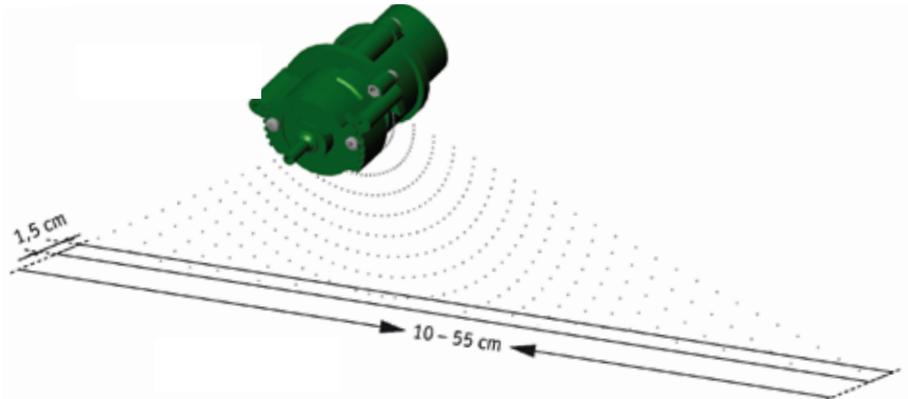


Up to 50 % less herbicide thanks to ULV technology

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 they are 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.



A wide array of models means optimally adjusted spraying systems for almost all possible applications.

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, easy to move around 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.



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 vehicles, one or 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.



Application areas

MANKAR® ULV spraying systems enable efficient, environmentally sound weed control in a variety of cultivations, for example:

- ▶ Tree nurseries
- ▶ Forestry
- ▶ Christmas tree cultivations
- ▶ Orchards and vineyards
- ▶ Vegetable growing industry
- ▶ Ornamental plants
- ▶ Biomass plantations
- ▶ Solar energy parks

as well as other areas such as lawns and sportsgrounds or for the control of invasive species and wherever the use of herbicides is allowed.

Innovative Flex spray hoods

Perfectly suitable for weed control in between and along rows

- ▶ Hoods fold back
- ▶ Adjustable spring force
- ▶ Three spray widths 25, 40 or 55 cm

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.

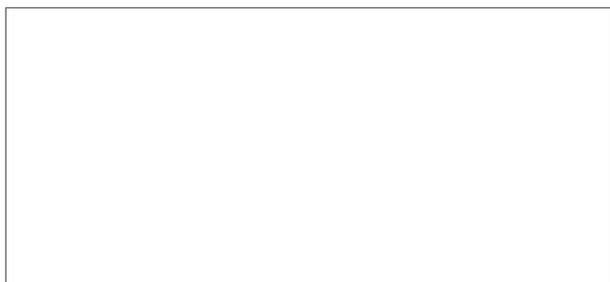
Beyond weed control, Mantis also offers MAFEX® spraying systems for crop protection (e. g. potatoes, fruit and silage), ROFA sprayers for insect control and disinfection, as well as a variety of MANTIS ULV® spraying systems and components for the public health sector and other industries like pre-fab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

As the specialist in professional weed control, Mantis offers spraying solutions for herbicides, bio-herbicides and hot water.

MANKAR®

BioMant

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!

