

# Professional weed control with efficient ULV technology



## **MANKAR**<sup>®</sup> advantages at a glance:

- ▶ "Ultra Low Volume" technology for minimal use of active agent
- ▶ Cost-effective and environmentally friendly with up to 50% product savings
- ▶ Optimal coverage and efficient utilisation of active ingredient
- ▶ Minimal risk of drift, optimal protection of cultivated plants
- ▶ Use of (undiluted) herbicides, mixtures, and bio-herbicides
- ▶ Time-saving and higher user-protection compared to traditional spraying
- ▶ Lightweight, reduced soil compaction, lower back strain
- ▶ Powered by rechargeable batteries or vehicle power supply
- ▶ Various models, optimally designed for a wide range of applications areas.

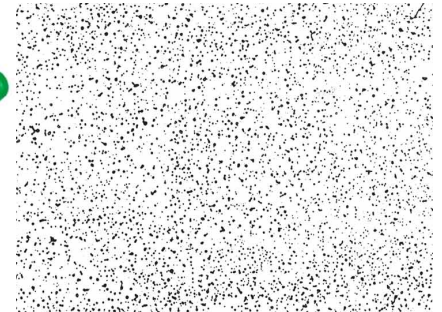


## MANKAR® ULV Spraying Systems

MANKAR® systems are professional spraying systems for effective, environmentally friendly, and cost-effective weed control using bio-herbicides, conventional herbicides, and herbicide mixtures.

All MANKAR spraying systems are based on the ULV technology ("Ultra Low Volume"). This method allows for working with much lower application rates in comparison to conventional spraying techniques. MANKAR atomisers can generate many small droplets of uniform size, which are tailored to the specific use case.

The range of MANKAR models offer a large choice of optimally adapted spraying systems for various application areas.



## MANKAR® CARRY

**Handheld sprayers for maximum 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 require.

The application rate can be adjusted with a dosing valve and the nozzle is activated at the press of a button, ensuring application only where necessary. 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 distance-dependent spraying**

**MANKAR-TWO** and **-ONE** models are pushed like a wheelbarrow, easy to move around and do not require a vehicle for operation. They are therefore ideal for smaller or remote and hard to reach areas.

A wheel-driven pump ensures precise, distance-dependent dosage independent of walking speed. Thanks to their low weight and robust wheel, uneven terrain, slopes, and gradients pose no problem. Spray widths vary from 25 to 110 cm, with or without extension arms.



## Application Areas

MANKAR® ULV spraying systems enable efficient, environmentally sound weed control in a variety of cultivations and other application areas, including but not limited to:

- ▶ Tree nurseries
- ▶ Forestry
- ▶ Ornamental plant cultivation
- ▶ Orchards and vineyards
- ▶ Vegetable cultivation
- ▶ Biomass plantations and solar installations
- ▶ Industrial facilities
- ▶ Lawn areas
- ▶ Combatting problem weeds and invasive species

## MANKAR® DRIVE

### Attachment sprayers for larger areas

The MANKAR-Drive systems can be mounted on or attached to a vehicle and are suitable for large-scale applications, such as in orchards and vineyards, as well as row crops. There are models for front and rear attachment and Drive-systems can be adapted to a wide range of vehicles for full-surface spraying or along and in between rows. The configuration of the spray hoods, spray- and working width can be adapted to the application area.

MANKAR-Drive models are divided into two series, mainly differing in the dosing method:



## MANKAR® DRIVE-E MODELS

Dosing in MANKAR-Drive-E models (Varimant or Unima-E) is done via an electric pump. This allows the spraying process to be selectively triggered over parts of the distance, for example when only certain sections of an area require treatment.

Drive-E models are suitable for both front and rear attachment and have a lower weight than Drive-P models. Standard systems come with working widths ranging from 50 cm to 3.5 m and manual width adjustment. Other working widths as well as electric or hydraulic width adjustments are also available.



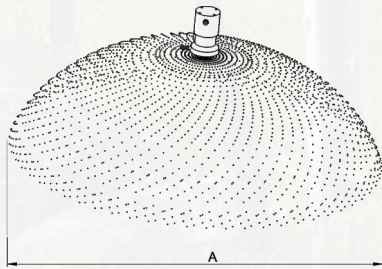
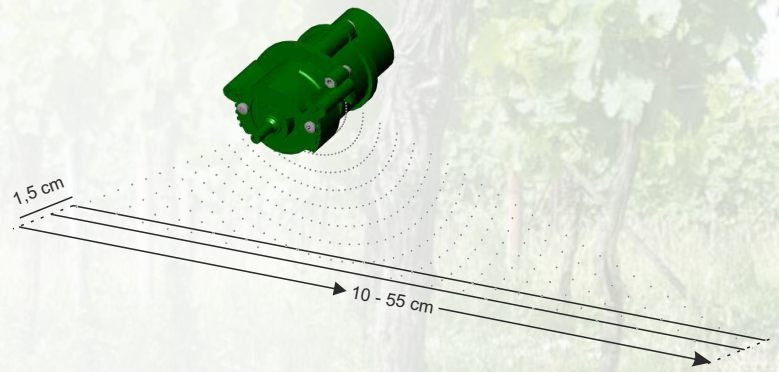
## MANKAR® DRIVE-P MODELS

Instead of an electric pump, Drive-P models (Flexomant and Unima-P) have a pump that is driven by the rotation of the spraying system's wheel. It is thus dependent on the distance traveled. With each turning of the wheel, a defined amount of agent is applied. Thanks to this, the application rate per unit area (liters per hectare) can be kept constant.

The wheel with a coarse profile reduces slip on challenging terrains such as clayey soil, ensuring distance-dependent dosing even under very unfavourable conditions.

## ULV-Atomiser Technology

With MANKAR Technology, whether with a segment-rotation on rotation atomiser, undiluted herbicides, herbicide mixtures and bio-herbicides can be efficiently sprayed. The spray pattern generated by the atomiser consists of small, uniform droplets that are sprayed without pressure. The optimal droplet spectrum and uniform distribution result in even and optimal coverage with minimal product.



Depending on the application area, the spray width can be adjusted, and the spraying systems can be equipped with one or more atomisers to precisely match the desired working width.

Depending on the model, dosing is done via a dosing valve, an electric pump, or a special wheel-driven pump that allows distance-dependent dosing. All devices can be equipped with electronic atomiser and battery monitoring.

## Innovative flex spray hoods

Ideal for weed control within and along rows, MANKAR-Roll and Drive systems are equipped with specially designed flex spray hoods that fold back upon contact with crops or stationary objects. Flex spray hoods are available in various widths (25, 40, or 55 cm) and the spring strength of the folding mechanism is adjustable.

## Professional Spraying Technology by MANTIS ULV®

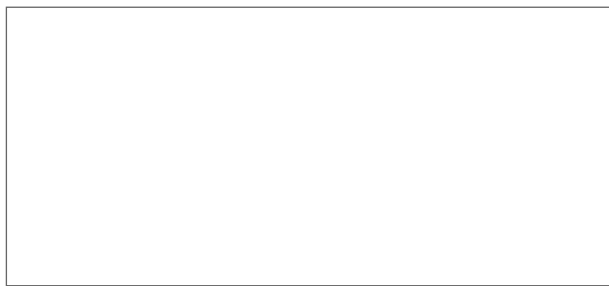
With over 40 years' experience in the development, production, and sales of professional spraying systems for a variety of application areas and industries, Mantis offers high quality sprayers for the most efficient and user-friendly application of liquid preparations.

In addition to devices for weed control, Mantis also offers MAFEX® ULV spraying systems for crop protection (e.g. for potatoes, fruit and silage), ROFA spraying devices for insect control and disinfection, as well as various MANTIS ULV® spraying systems and components for the health sector and other industries like pre-fab concrete or food processing.

As a specialist in professional weed control, Mantis provides spraying systems for herbicides, bio-herbicides, and hot water.



Please visit our website [www.mantis-ulv.com](http://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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