

Optimal protection of your potatoes

Uniform treatment

Equal distribution of liquid product

Reduction of plant protection agent

Highest quality thanks to the MAFEX® ULV-spraying system!

The ULV-technology (Ultra-Low Volume) from Mantis gives you optimal results in:

- ▶ Fighting storage rot
 - ▶ Application of sprout inhibitors
 - ▶ Seed Treatment
- for potatoes, as well as treating for example fruits with wax and fungicides!



best available technology

Optimum distribution of liquid product thanks to ULV-technique

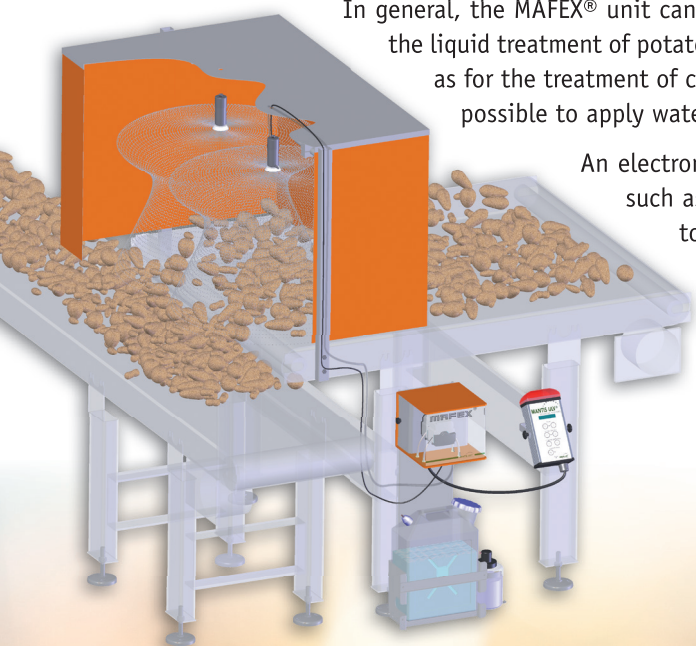
MAFEX® ULV-spraying systems were developed for the economical post-harvest treatment of potatoes, fruits, silage and other crop with liquid product for optimal crop protection and increased quality and durability.

The core of all MAFEX® systems is a specially developed ULV (ultra-low volume) atomiser with a spinning disk. Thanks to this atomiser, 1 ml of liquid generates about 30 million droplets that are uniformly deposited on the surface of the potatoes or fruit by gravity and vertical air flow. The result is a perfect coverage and an effective treatment with a high level of product saving.

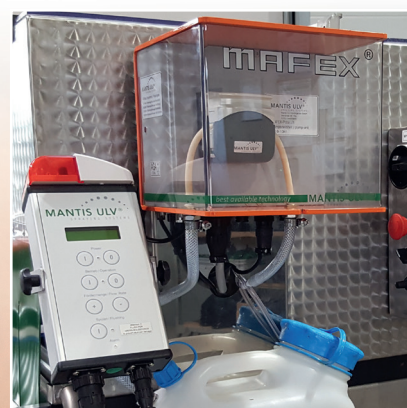
In general, the MAFEX® unit can be used to apply any liquid preparation. Its most common usage is for the liquid treatment of potatoes with seed dressing agent, fungicides or anti-sprouting agents, as well as for the treatment of citrus and other fruits with various types of wax and fungicides. It is also possible to apply water with MAFEX® for dust binding.

An electronic operating system ensures the control of all functions of the system, such as automatic suction and the pumping of the liquid to the atomiser prior to starting the application. The desired amount

of agent can be set via the control panel and during operation the atomiser function is monitored and an alarm is given in case of malfunction. Flow control is optionally available.



„It pays off!“

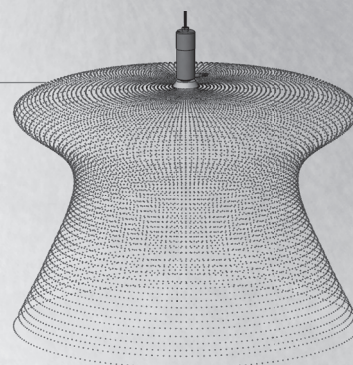


MAFEX® Components

Atomiser with rotating disk

The atomiser(s) can be mounted on for example a sorting- or roller table or box filler.

- ▶ Voltage 12-18 V
- ▶ Rotational frequency 12'000-18'000 rpm
- ▶ Maximum flow rate 220 ml/min
- ▶ Droplet size approx. 40 micron
- ▶ Spray width and depth of up to 80 cm



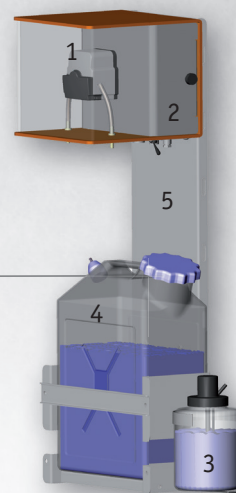
Control Unit

- ▶ Dust and water repellent keyboard
- ▶ Fully automatic system priming
- ▶ Volume and quantity adjustment
- ▶ Atomiser monitoring
- ▶ Alarm function
- ▶ Optional: Flow control



Pump Unit

- ▶ low-maintenance hose pump
- ▶ Housing with power supply unit (input voltage 230, 400 or 110 V)
- ▶ Automatic flush pump with reservoir
- ▶ 10 l or 31 l tank for liquid product
- ▶ Pump unit support made of stainless steel



Optional accessories

Mobile stand

- ▶ Easy mounting of the MAFEX® system
- ▶ Height adjustable
- ▶ For mobile and flexible use
- ▶ Independent of other machines and devices
- ▶ For MAFEX® systems with 1-2 atomisers



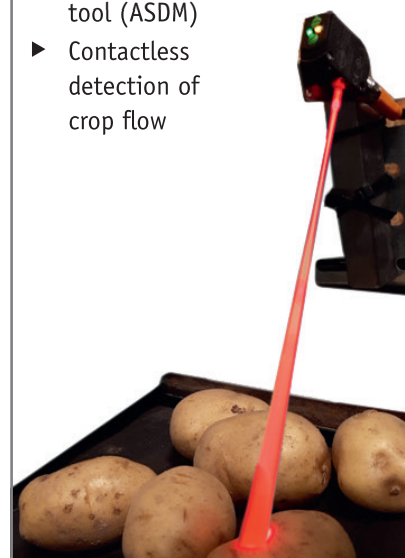
Specially adapted roller table for MAFEX®

- ▶ Table, spray chamber and rolls in stainless steel
- ▶ Clean: excess liquid is collected for reuse
- ▶ Step-less speed control: adjustable to the desired tonnage
- ▶ Mobile and flexible: table with wheels and height adjustment
- ▶ Charge and discharge chute
- ▶ Length 200 cm, width 80 cm – other models available on request



Crop flow monitoring

- ▶ Sensor based system
- ▶ Easily added to your current installation
- ▶ Uncomplicated integration into shutdown management tool (ASDM)
- ▶ Contactless detection of crop flow



Online configuration of the MAFEX® ULV-spraying system that best suits you:

- www.mantis-ulv.com/en/crop-protection/mafex-potato-fruit/product-configurator

MAFEX® spraying systems are available in a variety of different configurations:

- Standard models with 1 to 4 atomiser(s) for 80-240 cm spray widths
- Capacity adjustable to desired product per ton of crop and ton per hour
- Power supply for input voltage of 230, 400 or 110 Volt or 12 V on-board power supply
- Optional: Flow control with alarm when flow interrupted or tank empty

All MAFEX® systems have automatic pump shutdown and a flushing function for cleaning the atomiser(s) as well as a protective cover to avoid drift.

MANTIS ULV® Professional spraying systems

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 spraying systems for the most efficient and user-friendly application of liquid preparations.

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

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!

MANTIS ULV®
SPRAYING SYSTEMS

