

ULV- Applicator for weed control in areas of specialised cultivation such as nurseries, orchards and vineyards, ornamental plant and vegetable gardens, as well as agricultural, forestry, communal and non-cultivated lands.

The unit has been developed for the *undiluted* application of ROUNDUP® products (Glyphosate).

Important:

Before application, carefully read the usage instructions for the unit and the plant protective agent! Observe safety instructions!

For questions regarding plant protective agents, consult the manufacturer! Observe the requirements and regional regulations for the use of herbicides and, if necessary, obtain approval from the responsible authorities (e.g. environmental conservation agency)!

Application is to be performed only by a competent user.

Remarks about usage of the unit:

<u>Settings</u>: This system is not suitable for the application of water. Use herbicides for testing the spray action and calibration of the flow rate.



Keep the applicator and pesticides out of the reach of children.

Noise emission from the unit equates to less than 70 dB(A).

Manufacturer:

Mantis ULV-Sprühgeräte GmbH D-21502 Geesthacht, Vierlander Str. 11 a Telephone + 49 (0)4152 / 8459-0, FAX + 49 (0)4152 / 8459-11

USER SAFETY RECOMMENDATIONS for FLEXOMANT

- Always observe the safety recommendations for user protection in the "directions for use" of the chemical and wear the recommended personal protective equipment.
- Do not eat, smoke or drink when working with pesticides.
- Dispose of excess pesticide mix and rinse in accordance with label instructions.
- Always keep pesticides and applicators out of the reach of children.
- After use, thoroughly clean the applicator.

Exchange the chemical in the tank for tap water and turn the wheels for approx. 2 minutes.

SET-UP AND OPERATION OF THE APPLICATOR

Plug the 2-core plug of the control box in the socket of your tractor. Operate switch of the control box.

The atomisers are powered by the tractor battery. The fluid metering is handled by a metering pump. The droplets are formed by the centrifugal force of the atomiser and discharged downwards through an adjustable segment. Flow rate can be affected by temperature fluctuations, therefore the flow rate specified in the calibration table has to be checked and adjusted as required. Check the atomiser daily to be sure it is clean and operating smoothly. The spray hood should pass closely over the top of the area to be treated. During operation, some of the chemical will collect in the atomiser and will trickle out for approx. 30 sec. after closing the valve on top of the chemical tank. Be sure to close valve about one minute before end of treatment and allow atomiser to continue running. Switch off the atomiser at the end of the treatment.

CAUTION

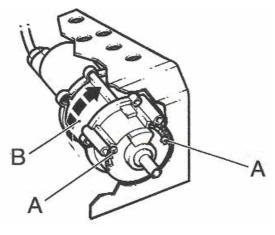
Before lifting the spray hood, be sure to close valve and switch off atomiser.

Set the Spray band of the atomiser by adjusting the spray limiters (see drawing). The spray band should be set so that the droplets are discharged across the entire compartment width. Fill tank and open the valve. Find a clean dry surface, preferably a concrete base, or place a cardboard panel under the spray hood and check the coverage on the panel. Adjust as required and recheck. Be sure you understand all the functions of the applicator before starting treatment.

FLEXOMANT-1 W

Assembly Instruction

- A. Set height of spray hoods
- B. Connect electrical plug into control box socket.
- C. Adjust spray width of atomizers (see drawing).



Checking the Flow Rate

- 1. Fill tank with chemical solution.
- 2. Fit screw cap with cock and filter.
- 3. Open shut-off valve.
- 4. Set metering knob to suggested letter (A-F). Refer to table.
- 5. Disconnect hose coupling.
- 6. Collect fluid in the metric measuring cup for 50 wheel rotations.
- 7. Check table and (if required) adjust metering knob to obtain desired flow rate.
- 8. Repeat steps 5 & 6 (if necessary)

A = Spray width variation

B = **Direction** of rotation

FLEXOMANT-1W Calibration Instruction

Roundup - undiluted -

Checking the flow rate

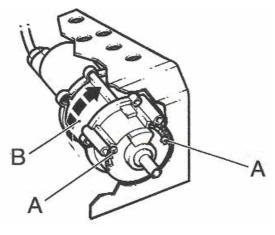
The pump type MAFEX-95 MS mounted on the wheel axles deliver the herbicide directly to the spray hoods.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Spray hoods 50 cm Ø Required yield for 50 wheel rotations per atomizer	Metering knob setting approx.
1,01	2 ml	A
2,01	4 ml	С
3,01	6 ml	F

FLEXOMANT-2 W

Assembly Instruction

- A. Set height of spray hoods
- B. Connect electrical plug into control box socket.
- C. Adjust spray width of atomizers (see drawing).



Checking the Flow Rate

- 1. Fill tank with chemical solution.
- 2. Fit screw cap with cock and filter.
- 3. Open shut-off valve.
- 4. Set metering knob to suggested letter (A-F). Refer to table.
- 5. Disconnect hose coupling.
- 6. Collect fluid in the metric measuring cup for 50 wheel rotations.
- 7. Check table and (if required) adjust metering knob to obtain desired flow rate.
- 8. Repeat steps 5 & 6 (if necessary)

A = Spray width variation

B = **Direction** of rotation

FLEXOMANT-2W Calibration Instruction Roundup - *undiluted* -

Checking the flow rate

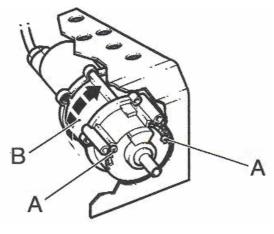
Each of the 2 pumps type MAFEX-95 MS mounted on the wheel axles deliver the herbicide directly to the spray hoods.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Spray hoods 50 cm Ø Required yield for 50 wheel rotations per atomizer	Metering knob setting approx.
1,01	2 ml	A
2,01	4 ml	С
3,01	6 ml	F

FLEXOMANT-3 W

Assembly Instruction

- A. Set height of spray hoods
- B. Connect electrical plug into control box socket.
- C. Adjust spray width of atomizers (see drawing).



Checking the Flow Rate

- 1. Fill tank with chemical solution.
- 2. Fit screw cap with cock and filter.
- 3. Open shut-off valve.
- 4. Set metering knob to suggested letter (A-F). Refer to table.
- 5. Disconnect hose coupling.
- 6. Collect fluid in the metric measuring cup for 50 wheel rotations.
- 7. Check table and (if required) adjust metering knob to obtain desired flow rate.
- 8. Repeat steps 5 & 6 (if necessary)

A = Spray width variation

B = **Direction** of rotation

FLEXOMANT-3W Calibration Instruction Roundup - *undiluted* -

Koulicup - unatitute

Checking the flow rate

A. In direction of travel the pump on the right hand wheel (Pump Type MAFEX-95 MS) pumps the liquid into the centre spray hood.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Required yield for 50 wheel rotations per atomizer	Metering knob setting approx.
1,0 1 2,0 1	2,40 ml 4,70 ml	A C
3,01	7,10 ml	E

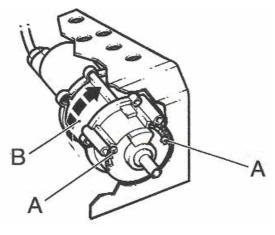
B. In direction of travel the pump on the left hand wheel (pump Type MANKAR-95) pumps the liquid into the 2 conical spray hoods.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Spray hoods 50 cm Ø Required yield for 50 wheel rotations per atomizer	Metering knob setting approx.
1,01	1,90 ml	A
2,01	3,80 ml	В
3,01	5,60 ml	F

FLEXOMANT-4 W

Assembly Instruction

- A. Set height of spray hoods
- B. Connect electrical plug into control box socket.
- C. Adjust spray width of atomizers (see drawing).



Checking the Flow Rate

- 1. Fill tank with chemical solution.
- 2. Fit screw cap with cock and filter.
- 3. Open shut-off valve.
- 4. Set metering knob to suggested letter (A-F). Refer to table.
- 5. Disconnect hose coupling.
- 6. Collect fluid in the metric measuring cup for 50 wheel rotations.
- 7. Check table and (if required) adjust metering knob to obtain desired flow rate.
- 8. Repeat steps 5 & 6 (if necessary)

A = Spray width variation

B = **Direction** of rotation

FLEXOMANT-4W Calibration Instruction

Roundup - undiluted -

Checking the flow rate

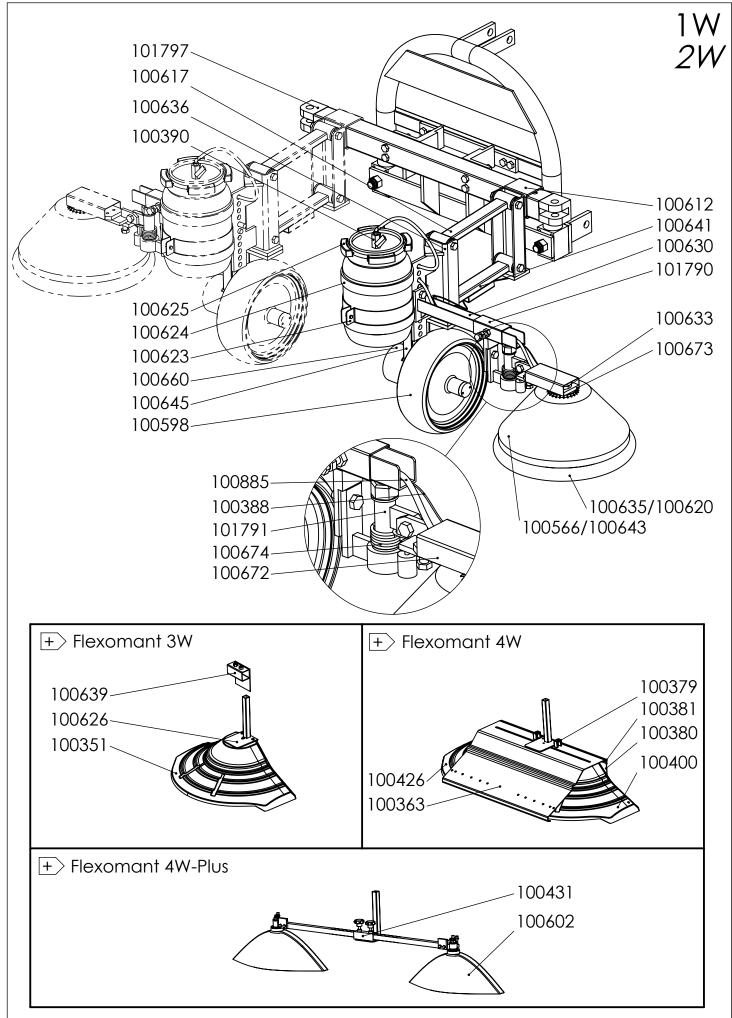
A. In direction of travel the pump on the right hand wheel (Pump Type MANKAR-95) pumps the liquid into the centre spray hood.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Width of spray hood	Required yield for 50 wheel- rotations per atomizer	Metering knob setting approx.	Width of spray hood	Required yield for 50 wheel- rotations per atomizer	Metering knob setting approx.
2,01	75 cm	3,5 ml	B	100 cm	4,8 ml	D
2,51	75 cm	4,4 ml	C	100 cm	6,0 ml	E

B. In direction of travel the pump on the left hand wheel pumps the liquid into the 2 conical spray hoods.

Application Rate of undiluted ROUNDUP PER HECTAR treated area	Spray hoods 50 cm Ø Required yield for 50 wheel rotations per atomizer	Metering knob setting approx.
2,01	3,8 ml	В
2,51	4,7 ml	С

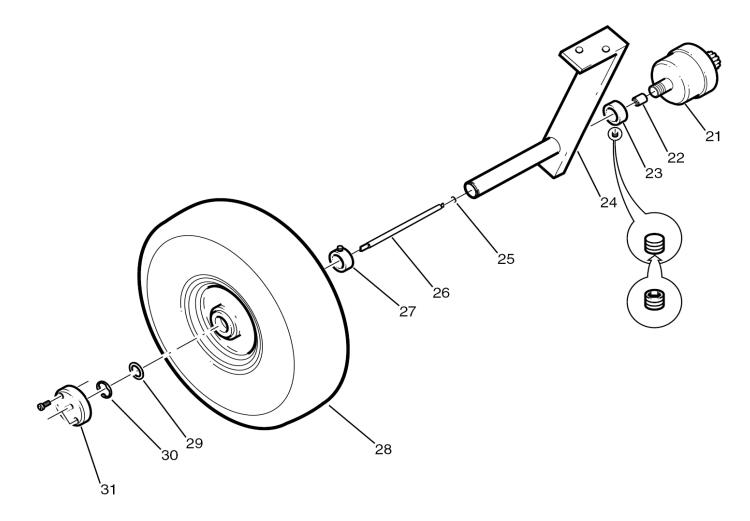
FLEXOMANT



FLEXOMANT

Item Part No. Description

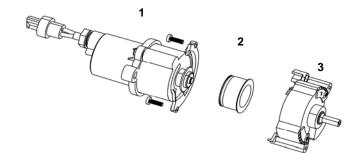
11017973-point hitch for FLEXOMANT-VARIMANT2100617Parallelogram for FLEXOMANT and TRAMA, TRAMUS3100636Height adjustment, Flexomant4100390Ball valve5100612Suspension6100641Parallelogram with cable protection7100630Extension U-profile8101790Width adjustment, right for VARIMANT/FLEXOMANT9100633Ball bearing 6206 ZZ10100673swinging arm FLEXOMANT/VARIMANT11100625Tank lid for 6L tank12100624Tank, capacity 6 litre13100623Tank bracket for 6 litre tank14100660Pump protection15100645Pump support complete16100598Farmflex wheel 300 x 100 mm17100885Tube PVC, 4 x 2 mm, sold by metre18100388Cable for atomiser19101791Swivel-joint for FLEXOMANT-VARIMANT20100674Spring 4mm for pivot FLEXOMANT/VARIMANT21100620Casing 40 cm diameter23100566Spray hood, conical, 36 cm diameter, plastic24100639Bracket for height adjustmen
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23 100566 Spray hood, conical, 36 cm diameter, plastic
24 100639 Bracket for height adjustmen
25 100626 Height adjustment for spray hood
26 100351 Spray hood, 50 cm
27 100379 Pull relieve
28 100381 Fastener for rubber curtain
29 100380 Rubber curtain for MANKAR-110 P + GP
30 100400 Spray hood, splitted 25 cm, left
31 100426 Spray hood, splitted 25 cm, right
32 100363 Metal hood, 600 mm width
33 100431 Bracket for MANKAR-L
34 100602 spray hood 45cm for FLEXOMANT-VARIMANT-4 Plus

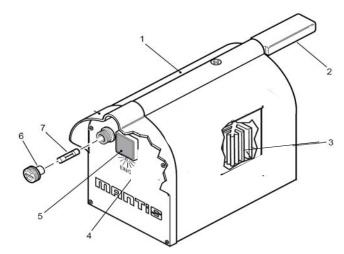


Item Part No. Description

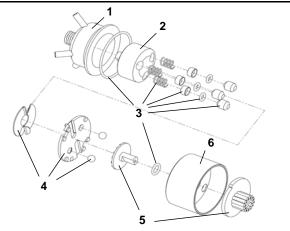
100686 Pump drive subassembly FLEXOMANT

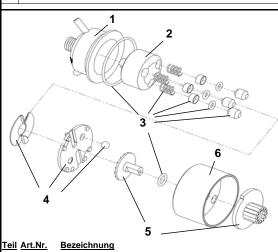
21	100522	Metering pump Mankar
22	100392	Screw socket
23	100389	Socket for pump
24	100645	Pump support complete
25	100141	O-ring 4,47 x 1,78 mm
26	100597	Cardan shaft-V
27	100377	Set collar 20 mm
28	100598	Farmflex wheel 300 x 100 mm
29	101832	Washer 28 x 1 mm
30	100394	Seeger circlip ring
31	100600	Cardan shaft driver





Teil Art.Nr. Bezeichnung	Teil Art.Nr. Bezeichnung
100320 Düse für MANKAR	100459 Powerpack mit 1 Akku 6 V - 7 Ah für MANKAR-P,-110P
1 102417 Motor-Modul for atomizer MANKAR	1 100469 Powerpack housing
2 100478 Atomiser disc for segment atomiser	2 100461 Powerpack mounting bar for MANKAR
3 101996 Segment-module for atomiser incl. Width adjustments	3 100667 Converter 12V to 6V
	4-7 101565 Powerpack-cover MANKAR, complete assembled
	4 100466 Powerpack cover
	5 100464 Switch with control light
	6 100365 Fuse holder complete
	7 100730 Fuse T3.15 Amp



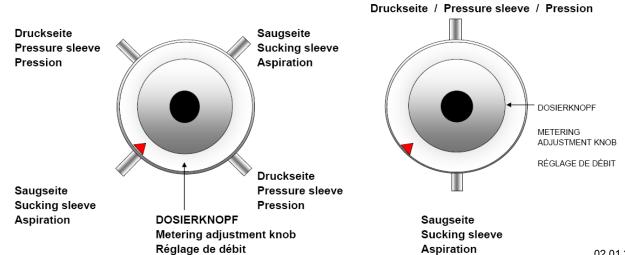


Teil Art.Nr. Bezeichnung

100522 Dosierpumpe MANKAR-3, Kapazität 5 - 10 ml/min für MANKAR-110 P un 100492 Dosierpumpe MAFEX-3, Kapazität 2 - 20 ml/min	
1 100528 Pump housing, 2 pressure lines, 1 100493 Pump housing, 1 pressure line]
2 102209 Rotor-3, chromed brass for piston pump 2 102209 Rotor-3, chromed brass for piston pump	
3 102373 Sealing kit for MANKAR/MAFEX-3 3 102373 Sealing kit for MANKAR/MAFEX-3	
4 101626 Repair kit, MANKAR, pressure plate/wobble plate 4 102436 Repair kit, MAFEX, pressure plate/wobble plate	
5 102429 Repair kit, MANKAR, selector/adustment knop 5 102437 Repair kit, MAFEX, selector/adustment knop	
6 100534 Pump cover 6 100534 Pump cover	

Dosierpumpe MANKAR Metering pump MANKAR Pompe doseuse MANKAR

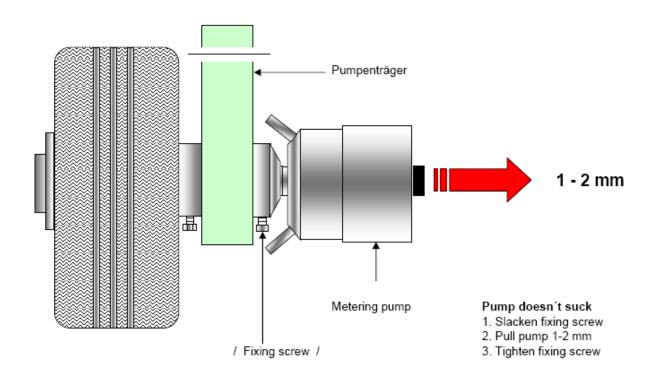
Dosierpumpe MAFEX Metering pump MAFEX Pompe doseuse MAFEX



Fault remedy

Fault	Cause	Remedy
Atomiser disc not Turning	Atomiser contaminated Fuse blown	Thoroughly clean atomiser, remove plant parts if needed Replace fuse on powerpack (Replacement fuses are located in the powerpack housing)
	No electrical contact Battery defective Atomiser motor defective	Check cable or connector contact Install new battery Install new motor Connect the brown cable to Plus (+).
Atomiser spray one-sided	Rotation disc turning in the wrong direction	Connect cable correctly! Selectively plug the brown cable onto the contact pin on the switch/valve unit Connect the blue cable via the round pin plug. Check to ensure the battery connection to the powerpack is correctly poled, blue cable to Plus (+).
Atomiser spray too w	ide Width adjustment improperly set	Loosen the screw F (see page 4) and correct the width setting to the left or to the right, respectively
Atomiser drips	Pump incorrectly set Check s Atomiser disc defective / contaminated Atomiser spray discharge contaminated	setting, see table Replace / clean disc Clean
Atomiser foams	Residual water in system	Completely empty container, hose, segmental atomiser.
Chemical not flowing evenly	Filter contaminated	Unscrew filter, clean screen.
Air in hose line	Hose connection / Filter leaking	Slightly shorten the hose and set onto a hose nipple. Re-tighten the screw on the filter.

Metering pump doesn't suck



GUARANTEE

The manufacturer guarantees that in accordance with the present state of technology the article of purchase is free from defects as regards raw materials and construction. Guarantee is valid for all machines and apparatus for 24 months. The period of guarantee begins from the date of purchase by the user.

The manufacturer will decide to repair or replace faulty parts or issue a credit note.

Parts damaged due to normal wear and tear will not be replaced under guarantee. Carriage costs are bourne by the manufacturer for faulty goods.

Unresolved claims do not entitle purchaser to withhold payments or set them against non-approved claims. Parts not manufactured by manufacturer are guaranteed by the original manufacturer under their terms. Warranty claims must be submitted in writing within 4 weeks of the damage being seen. Repairs will carried out with original manufacturer spare parts by an approved dealer.

Acknowledgement of a claim by manufacturer is binding only when a written notice is issued. Unless the manufacturer cannot make a repair, there is no right to cancellation of orders or to mitigation. Compensation for direct or indirect damage will not be given.

Guarantee terminates if the article of purchase is altered by manipulation of third parties or by installing spare parts of extraneous origin and if the ascertained damage is directly caused thereby. Guarantee also terminates if orderer does not observe the operating instructions.

Guarantee does neither apply to natural wear, to damage caused during storage or by corrosion, nor to damage caused by negligent or improper handling. Guarantee does not apply to used machines or apparatus.

The operation instruction published by the manufacturer has been carefully prepared and is based on extensive tests.

Since manufacturer have no influence on installation and handling of apparatus, the company will not assume any responsibility for lack of success or for damages caused by the apparatus itself or by its use.

EG-Declaration of conformity **Council Directive 2006/42/EG**

Mantis ULV-Sprühgeräte GmbH, Vierlander Straße 11 a, 21502 Geesthacht declares under our sole responsibility that the following products are in conformity with the provisions of the following Council Directive: 2006/42/EG

Тур	MANKAR-P, MANKAR-110-P, MANKAR-110-GP, MANKAR-L,
	MANKAR-110 SELECT EL
Тур	MANTRA, MINI-MANTRA / PLUS, MICRO-MANTRA, MICRO-VASO
Тур	FLEXOMANT-1W, FLEXOMANT-2W, FLEXOMANT-3W, FLEXOMANT-4W, FLEXOMANT-PLUS, VARIMANT-1, VARIMANT-2, VARIMANT-4 PLUS, VARIMANT-WINNER-TOP, VARIMANT-WINNER-UNO
Тур	MAFEX
Тур	ROFA
	André Verder
	Managing/Director
Geesthacht January 2	2009
(Place and date of signature	(Name, title and signature)

(Place and date of signature)