

User Manual

Mobile motorised Trolley Sprayer **MBS 1000**



Please read this user manual thoroughly before using the machine for the first time and always bear in mind the safety regulations!

In order to maintain the performance of this machine for a long period of time, you must carefully observe the operating and maintenance instructions.

If you still have questions or anything is unclear after studying this manual, please contact your local supplier.

EC and UK Declarations of conformity

The EC and UK Declarations of conformity are part of this user manual as appendices.



MBS1000

Art. NO. user manual: HA58EN-G1

Notice / disclaimer

This manual enables safe and efficient use of the machine. If the machine or individual modules or procedures are used for purposes other than those specified in this document, the manufacturer must be consulted to determine whether such use is permissible and whether the machine is suitable for it.

In no event shall the manufacturer be liable for any direct, indirect, incidental, special or consequential damages of any kind arising from any defect in the information even if it has been advised of the possibility of such damages. The manufacturer provides the documentation 'as is' and without any form of warranty.

All values mentioned in this manual are indicative. Optimisation of the settings based on observed deviations is the customer's responsibility. The information in this manual is based on the most recent information. We reserve the right to make changes.

Local laws and regulations have not been taken into account when compiling this manual. When working with the machine, the user is always responsible for ensuring that this is done in accordance with the applicable local laws and regulations.

The Dutch version of this user manual is the original manual. Translations into other languages use the Dutch manual as the source document. The manufacturer accepts no liability for discrepancies between the original Dutch manual and manuals in other language versions. In the event of discrepancies between the content and accuracy of a translated manual and that of the Dutch manual, the latter will prevail.















In the interests of further development of our equipment, we reserve the right to make changes to the scope of delivery in terms of form, technology and design. No claims may be derived from the information and illustrations provided in these operating instructions.

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Symbols

The following symbols and pictograms are used in this user manual and on the machine.

	Caution! Be careful when handling the machine.
	Please make sure you have read and understood this manual before using the machine.
	Use of hearing protection is mandatory.
	Breathing protection during handling of spraying agents mandatory.
	Use of gloves suitable for handling spraying agents mandatory.
	Use of protective clothing when handling spraying agents is compulsory.
	Washing hands after using this machine is compulsory.
	The water in this machine may not be used as drinking water.
	No eating or drinking while using this machine.
	Warning for electrical danger.
	Warning due to risk of environmental damage.
	This product contains harmful substances. These must not be disposed of with normal waste.
	Recyclable symbol indicating that the product can be recycled.
	CE & UKCA mark. Indicates that the product complies with applicable regulations within the EEA and the United Kingdom.

Packaging and Waste Phase

Packaging and Waste Phase

Remove any packaging materials such as plastic, cardboard, etc., before putting the machine into operation.

Then check the machine for any transport damage. Packaging materials must be disposed of in accordance with local regulations.

If the machine is scrapped, the local regulations for waste disposal must be observed.

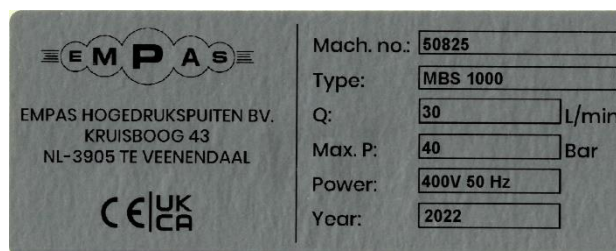
Only commonly known materials were used in the machine. At the time of construction, waste disposal facilities existed for this purpose and no particular risks were known to those responsible for the demolition work.



Type Plate

The type plate is located on the frame near the pump set.

The type plate contains information about the machine type, machine number and year of manufacture.



Warranty

The warranty conditions in accordance with Article 14 of the Dutch Metaalunie Conditions apply to this machine. The most recent English version of these conditions can be downloaded by scanning the code below.



Safety regulations

Intended use

spraying liquids under pressure. They are mainly used in (greenhouse) horticulture as a spraying unit for spraying crops with chemicals or biocides approved by the national licensing authorities. These spraying agents are dissolved in water and sprayed or misted over the crops at a relatively high pressure.

The mobile motorised trolley sprayer is suitable for both indoor and outdoor use. The machine is designed and intended to be moved manually only.

Any use other than those described above is marked as non-intended use and is not permitted. The manufacturer does not accept any liability for any other use than that described above.

Safety technical aspects

This machine is designed with maximum attention to eliminating safety risks for users.

To support the most important safety measures, various operating and safety warnings are attached to our machines in the form of stickers and pictograms. Please ensure that these remain legible and are not removed. Page 2 of this user manual contains an explanation of the meaning of pictograms and warnings.

Only persons over 18 years of age and sufficiently instructed and trained to operate the machine and its equipment may operate the machine and its equipment.

Ensure that the machine and equipment are never operated by persons who are tired or under the influence of alcohol or drugs.

Please note that local legislation may require a spraying licence to operate high-pressure crop protection spraying equipment.

All regulations and instructions contained in this user manual must be strictly observed.

When spraying or fogging chemicals or biocides, the applicable safety regulations must be observed when using toxic, harmful or irritating substances. Always read the label on the packaging first and follow the instructions on the label. In addition, take note of the Material Safety Data Sheets (MSDS) that the supplier of the spraying product is obliged to provide.

Incorrect applications

As reasonably foreseeable incorrect applications, it is prohibited to:

- Spray liquids or media other than that for which this motorised barrel sprayer is intended
- Carry out unauthorised conversion work or changes to the machine. This will invalidate the guarantee and compliance with laws and regulations.

Noise level

The guaranteed noise level of the mobile motorised trolley sprayer MBS 1000 is 89 dB(A).



In order to prevent hearing damage, it is compulsory to wear hearing protection when working in the immediate vicinity of this machine.

Residual risks

Residual risks are risks that cannot be excluded even when used in accordance with the safety regulations. Warning labels and pictograms are fitted to the machine to draw the user's attention to the residual risks present. The residual risks are listed below. Ensure that the specific measures are taken to guarantee safe use of the machine.

On the following page you will find an overview of the residual risks present with the source, consequences, specific measures and in which phase of the life cycle of the machine these residual risks occur.

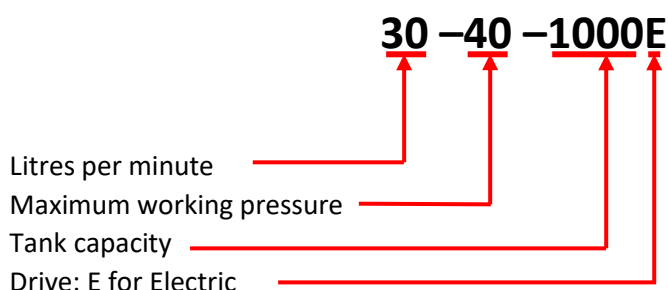
Remaining risk:	Source:	Consequences:	Specific measures	Life cycle machine:
Skin contact with spraying agents	Handling of spraying agents	Harmful effects on health	Wear protective clothing and personal protective equipment. Observe the instructions on the packaging. Use good working hygiene	Usage Maintenance Disassembly
Emission of crop protection agents	Processing of spray liquid	Harmful effects on the environment (surface water, soil, food)	Emission reduction by drift reduction, effective spraying, limiting residual liquid	Usage
Noise	Rotating electric motor and pump	Hearing damage	Wear hearing protection in the vicinity of machinery in operation	Usage
Fluid under pressure	Pump, hoses, couplings, valves	Injury caused by fluid injection	Use protective clothing and face protection Periodically check couplings, connections, hoses when depressurising the machine	Usage Maintenance

The Machine

Machine type

This mobile motorised trolley sprayer MBS 1000 has the suffix 30-40-1000E as its machine type.

Below, you will find information on the structure of the type designation.



Maintenance and Repair

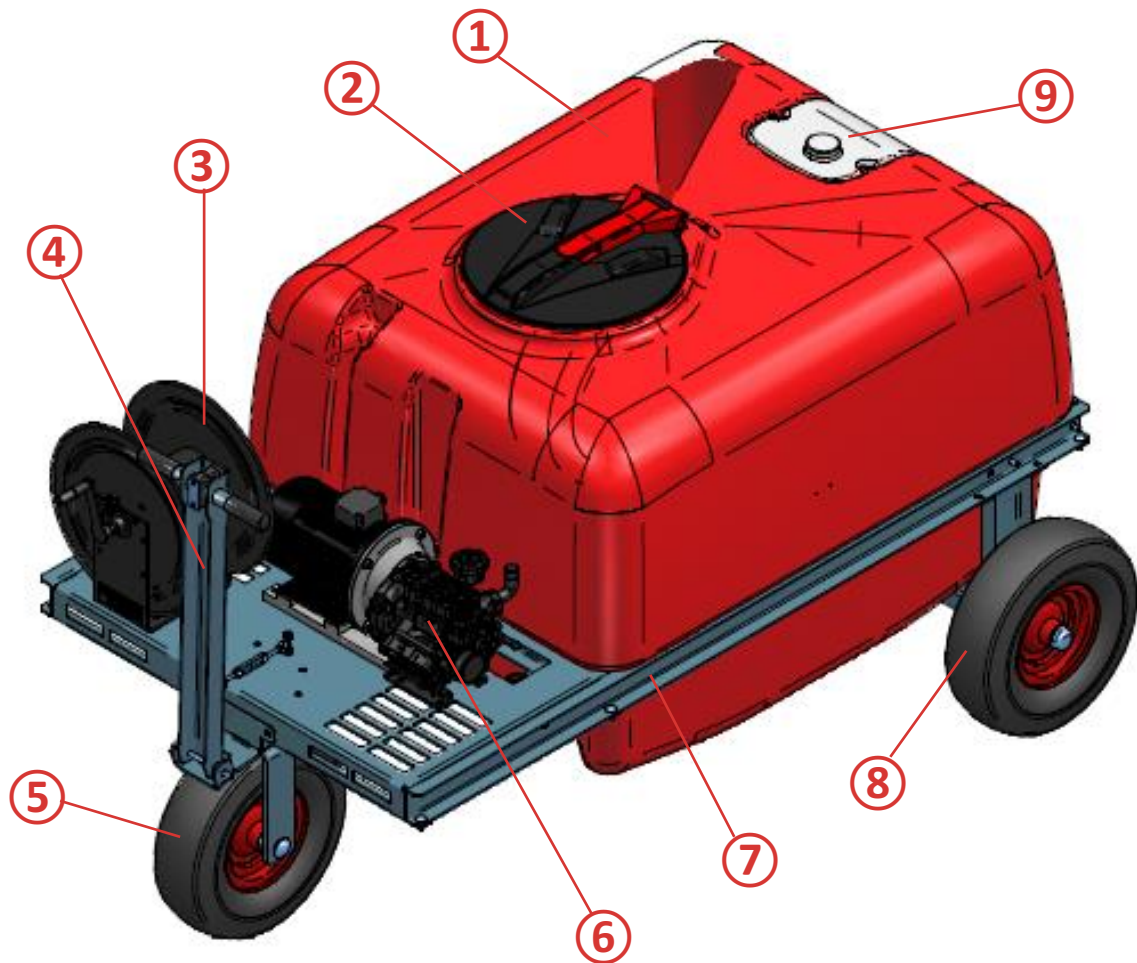
The maintenance and repair of motor drum sprayers requires qualified knowledge and craftsmanship in order to guarantee a safe and reliable machine. Please contact your MBS 1000 supplier for this:



The operational safety and reliability of your machine depend on the quality of the spare parts used. Only use original spare parts. Also contact your local MBS 1000 dealer for more information.

<https://royalbrinkman.com/our-offices>

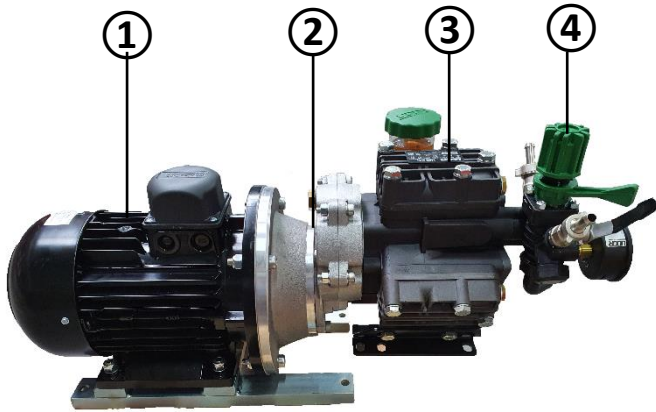
OVERVIEW OF MAIN COMPONENTS



- | | |
|----------------------------|-------------------------|
| 1. Liquid tank 1000 litres | 5. Front wheel |
| 2. Lockable lid | 6. Pump set |
| 3. Hose reel | 7. Mobile undercarriage |
| 4. Pull-up bar | 8. Rear wheels |
| | 9. Hand wash tank |

Pump Set

The motorised trolley sprayer MBS 1000 has a pump set consisting of a 400 V IE3 electric motor ① with a power of 3 KW. This motor is connected by means of a reduction gearbox ② to a diaphragm pump ③ with pressure regulation unit ④.



The operating temperature of the pump set should be between Min. 0°C (32°F) and Max. 45°C (113°F). The temperature of the pumped liquid must lie between 5°C (41°F) and 38°C (100°F). The pump set should never be immersed in any liquid. Only use the pump set for operations in accordance with its intended use as stated on page 4 of this User's Manual.

Never use the pump set under the following conditions:

- to pump water with a high content of salt, such as sea water. For this kind of use it is necessary to use a stainless steel pump.
- in workplaces where there is a corrosive or explosive atmosphere.
- for pumping a liquid that is not compatible with the construction material of the pump.
- for pumping paint, solvents, fuel and any inflammable liquid (not suitable for ATEX operations)
- for handling liquids destined for food products.
- in locations where there is insufficient ventilation or overheating of the pump set may occur due to the heat given off by the motor.
- the pump set is not to be used by personnel who have not read and understood the instructions in this user manual.



GENERAL WARNINGS

- Never start the pump set under pressure.
- During operation, the pump set must never run dry/fluid-free.
- Before starting work, check that the pump set is in good condition and also look for signs of wear in the pipework, hoses, fittings, etc. These parts must be in perfect and leak-free condition. These parts must be in perfect and leak-free condition. If this is not the case, the part concerned must be replaced immediately before the machine is put into operation.
- Repair or maintenance of the pump set may only be carried out by trained and authorised service personnel.
- Do not touch live components.
- The pump set contains moving parts which are adequately protected by fixed guards. Never start the pump set if these guards are removed or not correctly fitted.
- The removal of guards may only be carried out with the machine switched off by instructed and authorised service personnel.

Data electric motor							
RPM	1440	kW	3	Hz	50	IP	55
Volt	400			Amp.	6.8		
Cos.	0.73	IE3 %	100/87.7-75/87-50/85				

Data diaphragm pump						
RPM	bar	PSI	L/min	GPM	HP	kW
550	0	0	32.6	8.6	0.3	0.2
	40	580	28.8	7.6	3	2.2
USE OIL SAE 15W-40						

The diaphragm pump is self-priming.

To protect the life of wear parts, such as valves and diaphragms, the pump must be installed below or at water level.

Oil level diaphragm pump

Use only SAE 15W-40 oil. Only top up oil when the machine is not in use. The oil level Min/Max is indicated on the oil reservoir on top of the pump. Remove the green screw cap to open the reservoir and always replace the cap after topping up the oil level before putting the machine back into operation.

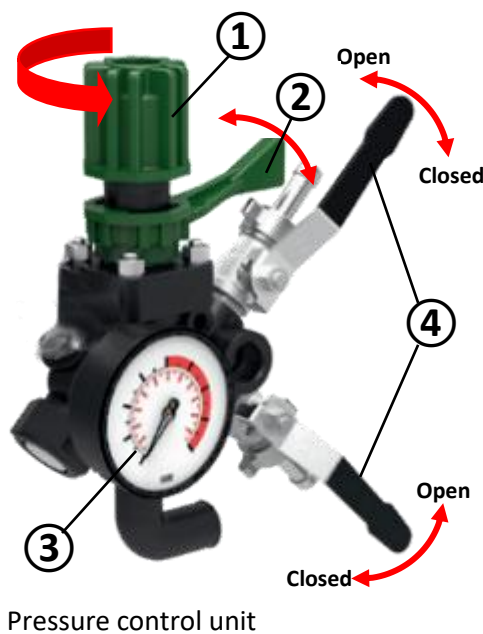


Top up when the minimum level is reached. Top up oil to the max. level.

Starting the pump set

Before starting the pump set, check the following:

- Check the oil level in the oil reservoir and top up if necessary;
- The pressure on the pressure reducer/release regulator must be at "0";
- Start the pump and let it run for about 10 seconds until liquid comes out of the supply line. Once the priming cycle is complete, you can set the pump to the desired operating pressure by turning the pressure control knob in the appropriate direction. Note: the maximum allowable pressure of the diaphragm pump must not be exceeded!



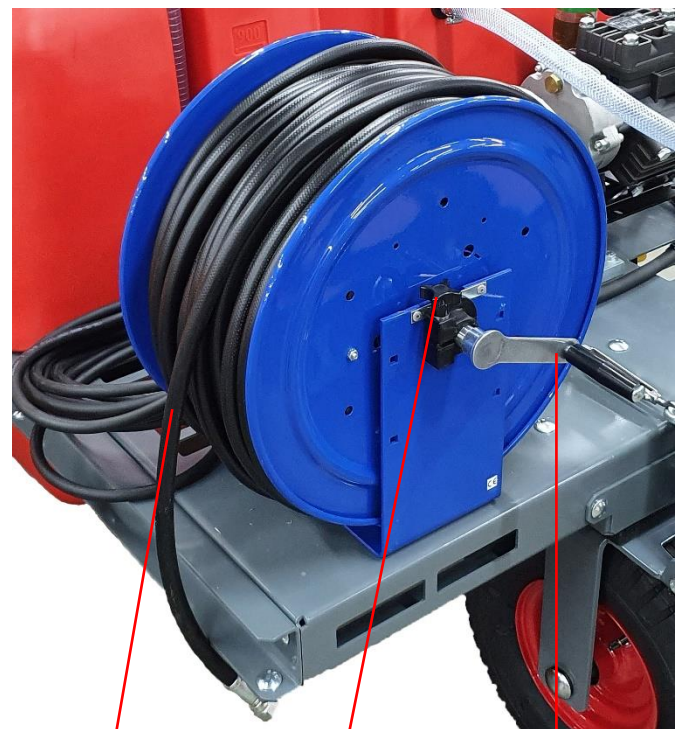
- ① - Turn the pressure regulator valve to the right for increasing pressure and to the left for reducing pressure. Fully to the left is zero pressure, all the way to the right is max. 40 bar.
- ② - Move the freewheel handle fully to the left for the freewheel position. The pump set is then depressurised. Move the freewheel all the way to the right for working position. This makes the pressure adjustable.
- ③ - Pressure gauge 0-40 bar.
- ④ - Operating valves pressure control unit.

Hose reel with high-pressure hose

On the motorised trolley sprayer MBS 1000, there is a manually operated hose reel with 80 metres of high-pressure hose. To operate the reel, a hand crank is fitted with a knurled knob to secure the reel against unwinding.

The hose reel is fitted with an 80-metre high-pressure hose with a maximum pressure range of 80 bars at 21° C.

This 3/8" hose has an internal diameter of 10 mm and an external diameter of 17 mm. This double-layered polyester hose is intended for industrial or agricultural use and has a high flexibility and low permeability.

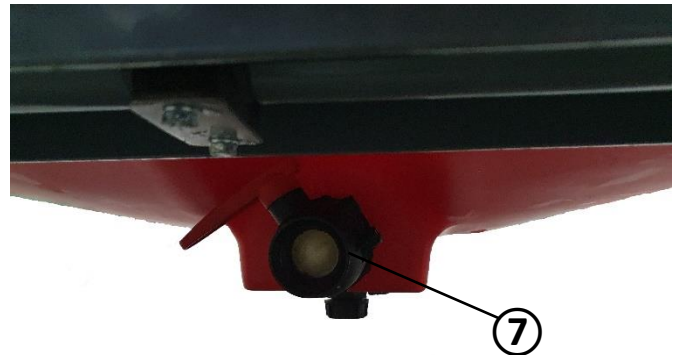
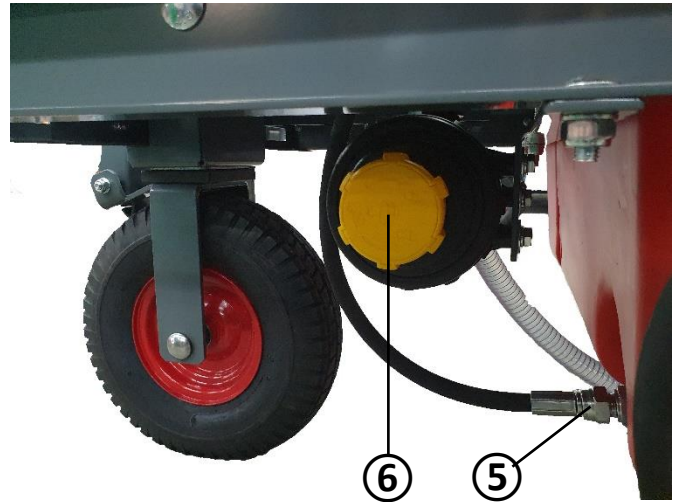


High-pressure hose Knurled knob for roll blocking Hand crank


Liquid tank

The MBS 1000 is equipped with a polyethylene liquid tank with a capacity of 1000 litres.
The following components form part of the liquid tank and are described below:

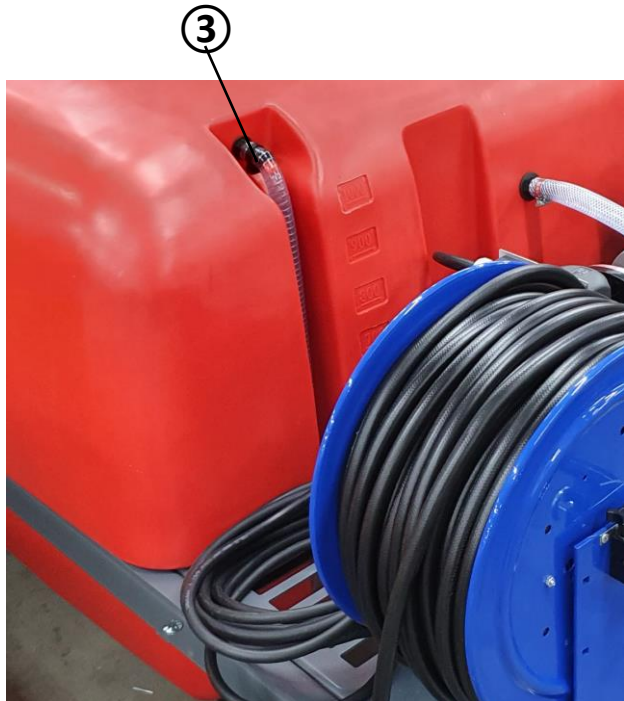
- ① Integrated hand wash tank
- ② Tank lid
- ③ Gauge glass
- ④ Filling point with Geka coupling
- ⑤ Rudder injectors
- ⑥ Water filter
- ⑦ Drain valve



The integrated hand wash tank has a capacity of 16 litres and is fitted with a plastic drain valve. The water in this tank is exclusively for washing hands when working with sprays in this machine.



The water in the liquid tank and in the in the hand wash tank may not be used as drinking water!



Hand wash tank with drain

On top of the liquid tank is the tank lid.
To open or close the lid, turn it in the right arrow direction (open/closed).
The lid is hinged. There is a removable sieve basket on the inside.



Tank lid

At the front of the MBS 1000 there is an integrated gauge glass with a capacity scale that can be read per 100 litres. There is a red float ball in the transparent hose indicating the liquid level.



Gauge glass with contents

On the left side of the machine, on top of the liquid tank, there is a filling point with a Geka hose connector.



There are two rudder injectors at the bottom of the liquid tank. Together, they form the mixing unit for mixing added spray liquid with water in the tank. The mixing unit is operated by means of the control valves on the pressure regulation unit (see page 8) agitator injectors See ⑤ in the diagrams on page 9 for the position of the rudder injectors.

The water filter ensures that any impurities are filtered out of the water and collected. The existing filter is a suction filter G 1 ¼" 80-120 l/min. with a shut-off valve and valve release button. In this filter, a filter element type 80x108, 50 mesh is inserted. This filter can be removed by removing the yellow knob and then unscrewing the knurled ring. Clean the filter element after each use of the machine to ensure a good fluid supply.



Water filter

At the back of the MBS 1000, there is a plastic drain valve at the bottom of the tank.
With the help of this drain valve, the tank can be completely emptied.



Drain valve

Power Supply Cable 400 Volt & Emergency Stop



Power Supply Cable

The power supply cable consists of 10 metres of 5x2.5mm² cable with CEE mains plug 400 Volt.



Emergency Stop

There is an emergency stop device on the pump set to quickly switch off the machine by pressing the red button. This button remains pressed after use of the emergency stop and can be put back into operation by turning the red button to the right. This may only be done after the problem for which the Emergency Stop was activated has been eliminated.

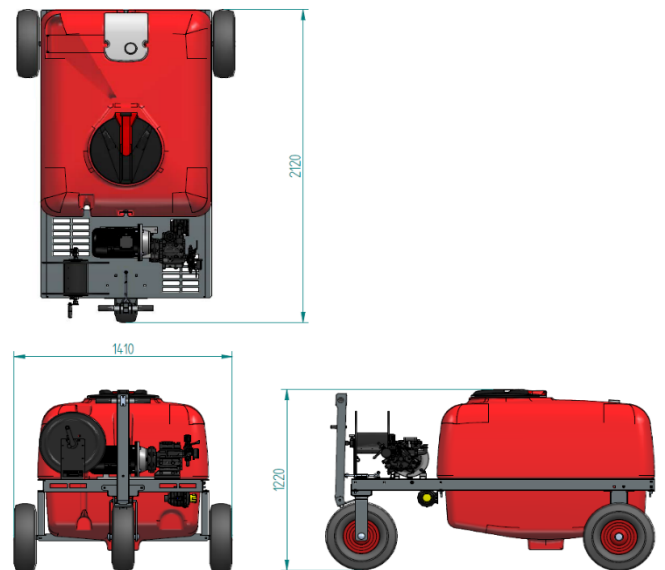
Wheeled chassis

The wheeled chassis on which the pump set, liquid tank and hose reel are mounted consists of a steel frame that is powder coated in grey RAL 7011. See page 14 for maintenance instructions of the powder coating.

At the front there is a steering mechanism with a movable drawbar. In the highest position, the drawbar can be fixed as shown below.



The dimensions of the MBS 1000 can be found in the illustration below.



The following wheels with pneumatic tyres are fitted under the wheeled chassis:

Quantity:	Art.No.	Type:	Pressure:
3	90.91.508	500-8-8PR	3 bar

Commissioning

Transport

The motorised trolley sprayer MBS 1000 is mobile for transport on your own site and can be moved manually using the handle. The motorised trolley sprayer MBS 1000 does not have a wheel lock, so that the machine cannot be blocked in an accidental move when it is in stand-by mode. Therefore, do not park the MBS 1000 on a slope, but always on a flat surface.

Storage Conditions

Take appropriate precautions against frost.

- Ensure that no liquid remains in the pump when storing the motorised trolley sprayer during a cold spell.
- The machine and accessories should preferably be stored in a frost-free room.
- If frost-free storage cannot be guaranteed, the pump must be drained of all liquid. This should be done by opening the suction and pressure side of the pump, with an empty liquid tank, and then completely emptying the pump within approximately 30 seconds so that no liquid remains in the suction and pressure side of the pump.

Commissioning

Before putting the machine into operation, always check that the machine is not damaged and that all the necessary equipment such as hoses, couplings, spray lances and other accessories are correctly connected and attached to the machine. If in doubt about the proper functioning or defective connection and/or coupling parts, consult your local MBS 1000 supplier.

Packaging or transport items such as pallets, crates, boxes, cardboard, plastic, etc. must be kept out of the reach of children as they are a potential source of danger. These parts must be disposed of and processed in accordance with the local environmental regulations.

The machine is assembled and tested by the manufacturer in its entirety. For transport reasons, some accessories or parts may be supplied separately.

In this case, final assembly should be carried out in consultation with your local supplier.

Security Checks

Prior to any work, the safety instructions in this user manual must be observed.

Before starting work, always check that the mains voltage corresponds to that stated on the machine type plate.

The mains cable must be protected against possible damage and must not be run over or crushed.

The machine must not be used if damage is found to the mains cable or electrical components.

Every time the machine is put into operation, check the hoses, pipes and fittings present for possible leaks of water under pressure.

Re-commissioning

The machine must be cleaned of dust, dirt and oil deposits before it is put back into operation. Then the necessary maintenance measures and work must be carried out (see page 14 for maintenance) and connected to the mains by an authorised person. The chapter on commissioning must always be followed when taking the unit back into operation.

Usage

Filling the liquid tank

The filling of the liquid tank from a drinking water system may only take place in compliance with the locally applicable regulations. Under no circumstances may the liquid pump be directly connected to a public drinking water system due to the risk of contamination of this system.

Filling can take place using the filling hose and/or the self-priming pump. Use clean water.

Filling is done via the Geka filling connection with filling pipe on top of the water tank.

Only switch on the self-priming pump when the filling hose is connected to the water source (the part from the source or tap to the pump) and when it is connected to the tank. (the part from the pump to the tank).

While filling the tank, check the liquid level against the level gauge provided.

Adding and mixing chemicals

The main tank must be filled at least 1/10th with water before the chemicals can be added. The instructions on the packaging of the spraying agent to be used must always be observed.

After adding the chemicals, fill the tank with water.

The chemicals must be thoroughly mixed with the water. The pump must therefore circulate the liquid for at least 15 minutes (recirculation).

This is done by keeping the main valve closed during this time, so that the liquid is automatically pumped back into the tank. The separate supply valve of the mixing installation (agitator injectors) must be opened. In this way, the added spray liquid and the water in the tank can be mixed.



Start of spraying work

Make sure that there is a sufficient working stock of the liquid to be sprayed for the intended spraying activities. Place the motorised sprayer and any equipment in a stable position.

- ▶ Check whether the pressure regulator is in the neutral position;
- ▶ Check whether the main valve is closed;
- ▶ Start the electric motor of the pump set;
- ▶ Move the freewheel to the operating position;
- ▶ Open the main valve;
- ▶ Set the pressure regulator to the desired operating pressure by turning it left or right. See explanation on page 8 of this User Manual.

After switching on the high-pressure pump, the spray liquid is sucked from the liquid tank by the pump, brought to the set pressure and then sprayed or misted via a flexible hose and spray gun, boom or other means.

Ceasing the spraying work

To stop the spraying, the following steps must be carried out in the correct order:

- ▶ Set the freewheel handle to the freewheel position;
- ▶ Close the main valve;
- ▶ Switch off the pump set.

Cleaning of spraying machines, packaging

Cleaning of spraying equipment usually takes place near running water. However, crop protection agents are also flushed away with the cleaning water. Often the cleaning water ends up in the sewer or in a ditch. Both methods of disposal are not permitted.

An impermeable filling and washing area with a collection system can prevent rinsing and cleaning water from running off into the surface water. This is important for good water quality and for the preservation of the resource package on the market.

Packaging of plant protection products must be cleaned immediately after emptying in the prescribed manner according to instructions on the label and with prescribed equipment.

The most important requirement is that after cleaning, a maximum of 0.01% by weight of the product originally contained in the packaging may still be present.

After cleaning, the rinsed packaging must be disposed of as indicated on the packaging. Temporary storage of packaging that has not yet been rinsed is not permitted. The aim of this obligation is to prevent environmental pollution by non-cleaned packaging of crop protection agents.

Residual liquid after spraying can be treated in the following way:

- Dilute and spray on the same crop;
- Take it to the next field or greenhouse;
- Treat with a biofilter.

Requirements for cleaning of packaging:

- The packaging must be cleaned with cleaning equipment that meets the NEN-ISO 21278 standards. Within this standard for container cleaners (machine directive), the emphasis is on the performance that the equipment must provide (purpose) and not on the exact dimensions (means).
- If plant protection products are applied by means of spraying equipment that is not equipped with this cleaning device, the packaging must be rinsed several times with clean tap water immediately after emptying, after which the rinsing water is deposited in the liquid tank of the spraying equipment.
- Empty containers of plant protection products shall not contain more than 0.01% by weight of the product originally contained in the container.

The above requirements apply in Europe to all entrepreneurs who use crop protection products on a commercial basis. Contractors who carry out work for growers are also obliged to follow these requirements.



Cleaning and maintenance

Cleaning the powder coating

For cleaning and maintenance of the powder coating, please observe the following instructions:

- Contamination of the powder coating can be removed with a soft brush or cloth;
- The soiled coating can be treated with a neutral detergent with a pH value between 5 and 8 and a sponge or soft cloth;
- Powder coatings should never be cleaned with abrasive or polishing cleaning agents;
- Do not use organic solvents for cleaning or preserving powder coatings.
- Avoid the use of abrasive cleaning and polishing agents.
- If the machine is not exposed to excessive moisture or dust, a frequency of twice yearly cleaning of the coating is sufficient.
- In humid environments, it is recommended to clean the powder coating 4 times a year according to the instructions above.

Long-term storage

When storing the machine for a long time, remove all liquid residues from tanks, pipes and hoses. If possible, store the machine in a frost-free room. Also follow the instructions in the chapter on storage conditions on page 12 of this user manual.

Maintenance

GENERAL

To ensure trouble-free operation of the machine, it is necessary to regularly check the condition of existing parts, hoses, connections and any equipment. During maintenance and cleaning work, always disconnect the machine from the power supply by removing the mains plug.

ELECTRONIC ENGINE

Inspect the motor regularly, but at least once a year. When using an IP55 motor supplied with a sealed plug on the underside of the motor housing, this must be removed periodically (depending on humidity) to drain condensation water.

This operation may only be carried out when the motor is stationary, de-energised and safe to work on. Keep the motor clean and ensure sufficient free airflow around the motor. If used in a dusty environment, the motor must be checked regularly for obstructions on the ventilation openings and cleaned.

ELECTRICAL COMPONENTS

Inspection and repair, such as replacing worn or damaged cables and mains plugs, of electrical components may only be carried out by an authorised specialist. Worn or damaged connection cables and mains plugs must be replaced immediately.



Please note that work on electrical parts of the machine may only be carried out by performed by authorised and trained personnel.

HIGH-PRESSURE HOSES AND COMPONENTS

Inspection, repair and replacement of high-pressure components may only be carried out by an authorised specialist. Worn or damaged high-pressure hoses must be replaced immediately.

PUMPS AND CRANES

Checking of pump leakage:

If an oil and/or liquid leakage of more than 3 drops per minute is detected at the pump, it must be immediately taken to the dealer for service, or repaired by your own competent and authorised personnel.

Checking the pump oil:

- Checking of the pump oil may only be carried out when the pump is stationary;
- Check the oil level and top up to "MAX" if necessary;
- After the first 20 hours of operation, the pump oil must be changed, then after every 150 hours of operation;
- The pump oil must be changed at least twice a year, regardless of the number of operating hours of the pump;
- If the oil turns milky white, water has dissolved in it. Check the cuffs and oil seals for leaks. If necessary, they must be replaced and the oil changed at the same time.
- Waste oil must be collected and disposed of in accordance with local environmental regulations.



See also pages 7 and 8 of this user manual for information on the right type of oil and the oil level in the diaphragm pump.

Faults and repairs

In the overview below, the most common faults are listed along with their possible causes and possible solutions.

If in doubt, or if faults cannot be resolved, always consult your local MBS 1000 supplier.

Repairs to electrical and high pressure equipment may only be carried out by authorised and trained service technicians.

Follow this link for information about your local MBS 1000 supplier: <https://royalbrinkman.com/our-offices>

MALFUNCTION:	CAUSE:	SOLUTION:
Insufficient pressure	Insufficient ventilation of pump Pump sucks in air Inlet blocked Valves are dirty or worn Cuffs or plungers are leaking V-belt slipping Pressure regulator defective or worn	Bleeding Check liquid in tank Check supply hose and couplings Check water filter(s) Contact dealer Contact dealer Check, tension or replace Contact dealer
Water in the oil, visible as white discolouration of the oil	High humidity Worn plunger seal and worn oil seal	Check and double the oil change frequency Contact the dealer
Pump leaks fluid	Worn plunger / seal Worn O-rings on the plunger guide	Contact dealer Contact dealer
Pump leaks oil	Oil level too high Worn oil seal	Check and adjust Contact dealer
Electric motor does not start	The mains plug is badly connected or no mains power	Check plug, cable, switch
Electric motor hums, but does not rotate	Insufficient mains voltage Fuse defective Wrong extension cable Pump blocked or frozen	Check mains voltage Check fuse box Replace it with the correct one Check by manually turning the the shaft of the pump a few times
Electric motor fails	No mains power Motor switched off due to overheating	Check mains voltage Switch off the machine and let it cool down for a few minutes

Compulsory Inspection of Equipment

In Europe, motorised barrel sprayers and associated equipment must be inspected every three years if they are used as application or distribution equipment for plant protection products. The content of the inspection is based on the international standard NEN-EN-ISO 16122:4 (2015) and meets the requirements as stated in Annex II of the European Directive for Sustainable Use of Plant Protection Products 2009/128/EC.

Motorised trolley sprayers include stationary and mobile motorised trolley sprayers together with horizontal or vertical booms, spray lances and spray guns.

For information regarding the inspection of a motorised sprayer, please contact your local MBS 1000 supplier.

Disposal of the machine

Demolition and dismantling

If the machine is scrapped, the regulations for waste disposal that apply at the place and time of scrapping must be observed. Only commonly known materials are used in the machine. At the time of construction, waste disposal facilities existed for this purpose and no particular risks were known to persons responsible for the demolition work.

When disposing of the machine, please observe the following steps:

1. Take the machine out of operation;
2. Drain and dispose of user materials/oil/etc. safely;
3. Dismantle electrical components;
4. Dismantle hoses, plastic parts, etc;
5. Metal parts can be scrapped;
6. Dispose of all other parts separately to an accredited collector;
7. Always take account of locally applicable regulations.



Product Liability

The manufacturer or the local supplier are not liable for unsafe situations, accidents, damage or consequential damage caused by disregarding the warnings and instructions indicated on the machine or in this user manual.

Some examples are:

- ▶ Improper or incorrect use of the machine;
- ▶ Incompetent or overdue maintenance;
- ▶ Use for applications or under conditions other than those specified in this user manual;
- ▶ The use of parts or components other than those specified in this user manual;
- ▶ Carrying out repairs without the consent of the manufacturer or its local authorised supplier;
- ▶ Modifying the machine in the form of:
 - Welding or making modifications or adjustments,
 - Modifications or extensions to the machine controls or associated equipment.

EG Declaration of Conformity

MBS1000	EC DECLARATION OF CONFORMITY CE DÉCLARATION DE CONFORMITÉ / DECLARACIÓN DE CONFORMIDAD CE / EG VERKLARING VAN CONFORMITEIT	CE								
<p>We, Nous / Nos / Wij Empas Hogedruksputten B.V. Kruisboog 43, 3905 TE Veenendaal The Netherlands / Pays-Bas / Países Bajos / Nederland</p> <p>Declare under our sole responsibility that the products from the product group: Déclarons sous notre entière responsabilité que les produits de la catégorie des produits: Declarar bajo nuestra exclusiva responsabilidad que los productos del grupo de productos: Verklaren onder onze eigen verantwoordelijkheid dat de producten van de productgroep:</p> <p>Trolley Sprayer "MBS1000" Chariot de pulvériser "MBS1000" Pulverizador con carro "MBS1000" Motorvatspuit "MBS1000"</p> <p>with the model designation: avec la désignation du modèle: con la designación del modelo: met modelaanduiding:</p> <p>30-40-1000E 400V - 50 Hz</p> <p>to which this declaration relates are in conformity with the following directives and harmonized standards auxquels la présente déclaration se réfère, sont conformes aux directives et normes harmonisées suivantes a los que se refiere esta declaración son conformes con las siguientes directivas y normas armonizadas waarop deze verklaring betrekking heeft, in overeenstemming zijn met de volgende richtlijnen en geharmoniseerde normen.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">directives/directives/directivas/richtlijnen:</td> <td style="width: 50%;">standards/normes/norme/normen:</td> </tr> <tr> <td>2006/42/EG Machine directive</td> <td>NEN-EN-ISO 12100 Safety of machinery</td> </tr> <tr> <td>2009/127/EG Amending Directive 2006/42/EC with regard to machinery for pesticide application</td> <td>NEN-EN-IEC 60204-1:2018 Electrical equipment of machinery</td> </tr> <tr> <td>2014/30/EU Electromagnetic Compatibility directive</td> <td></td> </tr> </table> <p>Additional information/Informations complémentaires/Información adicional/Aanvullende informatie:</p> <p>The technical file is compiled by the manufacturer/ Le dossier technique est réalisé par le fabricant / La ficha técnica es elaborada por el fabricante / Het technisch dossier is samengesteld door de fabrikant.</p> <p>The pressure equipment is covered by the rules of good engineering practice/ L'équipement sous pression est couvert par les règles de bonnes pratiques d'ingénierie/ El equipo a presión se rige por las normas de buenas prácticas de ingeniería/De drukapparatuur valt onder de regels van goed vakmanschap.</p> <p>Noise emission according to internal production control referred tot in Annex V/ Emission de bruit selon le contrôle interne de la production mentionné à l'annexe V/ Emisión de ruido según el control interno de la producción referido en el Anexo V/ Geluidsemisatie volgens interne productiecontrole als bedoeld in bijlage V</p> <p>Measured sound power level/ Niveau de puissance acoustique mesuré/ Nivel de potencia sonora medido/ Gemeten geluidsvermogensniveau: 85 dB(A)</p> <p>Guaranteed sound power level/ Niveau de puissance acoustique garanti/ Nivel de potencia sonora garantizado/ Gegarandeerd geluidsvermogensniveau: 89 dB(A)</p>			directives/directives/directivas/richtlijnen:	standards/normes/norme/normen:	2006/42/EG Machine directive	NEN-EN-ISO 12100 Safety of machinery	2009/127/EG Amending Directive 2006/42/EC with regard to machinery for pesticide application	NEN-EN-IEC 60204-1:2018 Electrical equipment of machinery	2014/30/EU Electromagnetic Compatibility directive	
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UK Declaration of Conformity

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