Instruction Manual

Mobile Fan

- MV 610-3
- MV 760-3
- MV 1000-2

MV 610-3

MV 760-3

MV 1000-2

MV-SERIES

Imprint

Product identification

Mobile Fan	Item number
MV 610-3	6265463
MV 760-3	6265473
MV 1000-2	6265492

Manufacturer

Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

Fax: 0049 (0) 951 96555 - 55
E-Mail: info@unicraft.de
Internet: www.unicraft.de

Information on the operating instructions

Original operating instructions

Output: 19.10.2023
Version: 1.03
Language: English

Author: RL/FL/CW

Copyright information

Contents

1 Introduction

By buying the fan from UNICRAFT you have made a good choice.

Read the operating instructions carefully before commissioning.

This will inform you about the proper commissioning, the intended use as well as the safe and efficient operation and maintenance of the fan.

The operating instructions are an integral part of the fan. Always keep these operating instructions at the place of use of the fan. In addition, observe the local accident prevention regulations and general safety regulations for the fan's area of application.

1.1 Copyright

1.2 Customer service

Please contact your specialist dealer if you have any questions about your product or for technical information. They will be happy to provide you with expert advice and information.

Germany:
Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

Repair service:
Fax: 0049 (0) 951 96555-111
E-Mail: service@stuermer-maschinen.de
Internet: www.unicraft.de

Spare parts orders:
Fax: 0049 (0) 951 96555-119
E-Mail: ersatzteile@stuermer-maschinen.de

We are always interested in information and experiences that result from the application and can be valuable for the improvement of our products.

1.3 Limitation of liability

All information and notes in these instructions have been compiled taking into account the applicable standards and regulations, the state of the art and our many years of knowledge and experience.

The manufacturer accepts no liability for damage in the following cases:

- Non-observance of the instructions,
- Non-intended use,
- Use of untrained personnel,
- Unauthorized modifications,
- Technical modifications,
- use of non-approved spare parts.

The actual scope of delivery may deviate from the explanations and representations described here in the case of special versions, when additional order options are used or due to the latest technical changes.

The obligations agreed in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations valid at the time of the conclusion of the contract shall apply.

2 Safety

This section provides an overview of all important safety packages for the protection of persons and for safe and trouble-free operation. Further task-related safety instructions are contained in the sections on the individual life phases.

2.1 Explanation of symbols

Safety instructions

Safety instructions are identified in these instructions by symbols. The safety instructions are introduced by signal words which express the extent of the hazard.

DANGER!

This combination of symbol and signal word indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING!

This combination of symbol and signal word indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

CAUTION!

This combination of symbol and signal word indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

ATTENTION!

This combination of symbol and signal word indicates a possibly hazardous situation which, if not avoided, may result in damage to property and the environment.

NOTE!

This combination of symbol and signal word indicates a possibly hazardous situation which, if not avoided, may result in damage to property and the environment.

Tips and recommendations

Tips and recommendations

This symbol highlights useful tips and recommendations as well as information for efficient and trouble-free operation.

To reduce the risks of personal injury and damage to property and to avoid dangerous situations, you must observe the safety instructions given in these operating instructions.

2.2 Intended use

The fan is used exclusively for extracting and distributing air, for removing smoke and drying rooms, and for cooling and drying objects. It is not explosion-proof and is not intended for outdoor operation.

The fan may only be operated by trained personnel.

Intended use also includes compliance with all the information in these instructions. Any use beyond the intended use or any other use is considered misuse.

Stürmer Maschinen GmbH accepts no liability for design or technical modifications to the Mobile Fan.

Claims of any kind for damage due to improper use are excluded.

2.3 Personal protective equipment

The personal protective equipment serves to protect persons against impairments to safety and health during work. The personnel must wear personal protective equipment during the various work on and with the machine, which is referred to separately in the individual sections of these instructions.

The following section explains the Personal Protective Equipment:

Head protection

The industrial helmet protects the head against falling objects and bumping against fixed objects.

Protective gloves

The protective gloves are used to protect the hands from sharp-edged components, as well as from friction, abrasions or deeper injuries.

Safety shoes

The safety shoes protect the feet from crushing, falling parts and slipping on slippery surfaces.

Protective work clothing

Protective work clothing is tight-fitting work clothing, without protruding parts, with low tear resistance.

2.4 Safety labels on Mobile Fan

The following safety labels are attached to the Mobile Fan (Fig. 1), which must be observed and followed.

Fig. 1: Safety labels

The safety markings attached to the machine must not be removed. Damaged or missing safety markings can lead to incorrect actions, personal injury and damage to property. They must be replaced immediately.

If the safety markings are not recognizable and comprehensible at first glance, the Mobile Fan must be taken out of operation until new safety markings have been applied.

3 Technical Data

3.1 Table

	MV 610-3	MV 760-3	MV 1000-2
Length x Width x Height (mm)	745 x 285 x 760	900 x 310 x 900	1110 x 510 x 1140
Net weight approx. (kg)	11,3	11,8	32
Supply voltage (V)	220	220	230
Number of phases	1	1	1
Current type	AC	AC	AC
Mains frequency (Hz)	50	50	50
Power drive motor (W)	230	230	660
Air volume max (m^3/h)	11786	12000	23800
Air volume stage 1 (m^3/h)	6629	6750	21225
Air volume stage 2 (m^3/h)	8839	9000	23800
Air volume stage 3 (m^3/h)	11786	12000	-
Number of steps	3	3	2
Basket diameter (mm)	640	810	1066,8
Intake diameter (mm)	640	810	1066,8
Outlet diameter (mm)	640	810	1066,8
Sound pressure level (dB(A))	70	65	67
Total weight approx. (kg)	13	14	40
Rotor diameter (mm)	610	720	1050
Air outlet velocity (m/s)	7,1	7,2	7,3
Motor efficiency (%)	30	30	60
Connection cable length (m)	1,65	1,65	2,9

3.2 Type plate

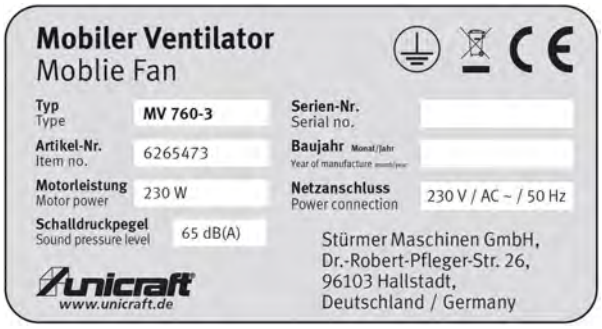

Fig. 2: Type plate MV 760-3

4 Transport, packing, storage

4.1 Transport

Check the Mobile Fan for visible transport damage after delivery. If you discover any damage, report it immediately to the transport company or the dealer.

NOTE!

Protect the Mobile Fan from moisture.

4.2 Packaging

All packaging materials and packaging aids used are recyclable and must always be sent for material recycling.

Packaging components made of cardboard should be shredded and taken to the waste paper collection.

The films are made of polyethylene (PE), the padding parts of polystyrene (PS). These materials should be taken to a collection point for recyclable materials or to your local waste disposal company.

4.3 Storage

Clean the Mobile Fan, oil the bearings and store it in a frost-free and dry environment. Do not place anything on top of the Mobile Fan.

5 Assembly

Model MV 610-3

Step 1: Make sure the retaining arms on both sides are correctly connected to the fan housing (Fig. 3). The screw connection can be loosened by turning the star-shaped handle nut counterclockwise.

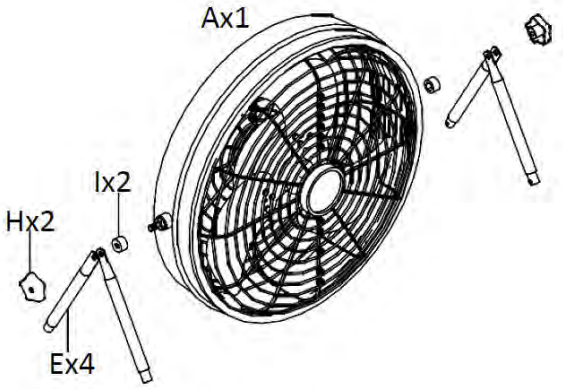

Fig. 3: Holding arm

Step 2: Connect the two wheels and axle to the floor frame (Fig. 4).

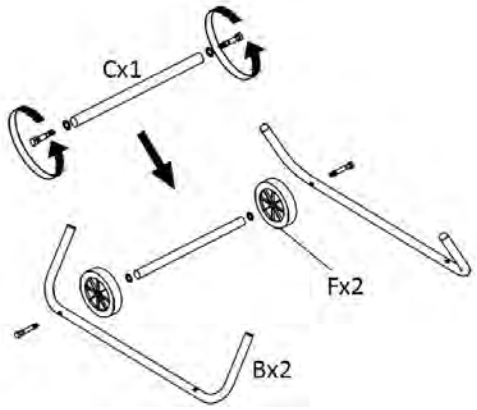

Fig. 4: Connect wheels and base frame

Step 3: Connect the cross brace to the floor frame.

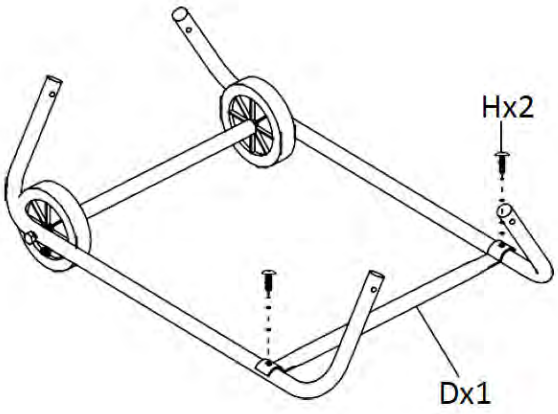

Fig. 5: Install the cross brace

Step 4: Now screw the foot element of the fan (Fig. 3) to the base frame (Fig. 5).

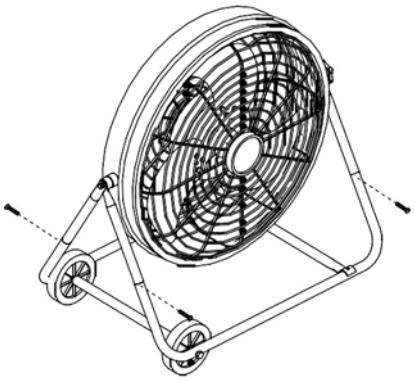

Fig. 6: Connect the holding arm to the floor frame

Model MV 760-3

Step 1: Make sure that the retaining arms are correctly connected to the fan housing on both sides (Fig. 7). Turn the star-shaped grip nut counterclockwise to loosen the screw connection.

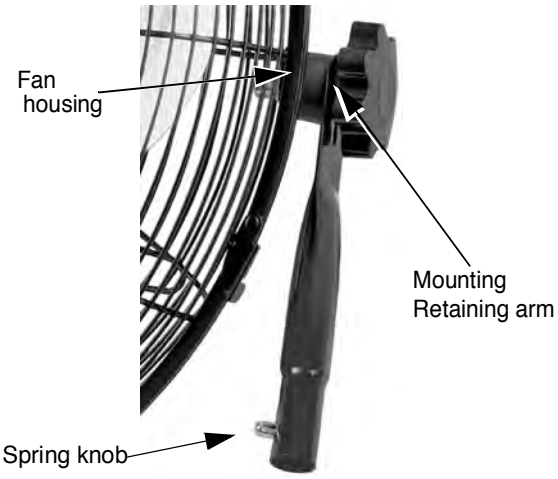

Fig. 7: Retaining arm

Step 2: The retaining arms are inserted into the base part by pressing the spring buttons. A secure connection only exists when the spring buttons protrude from the holes (spring buttons engage).

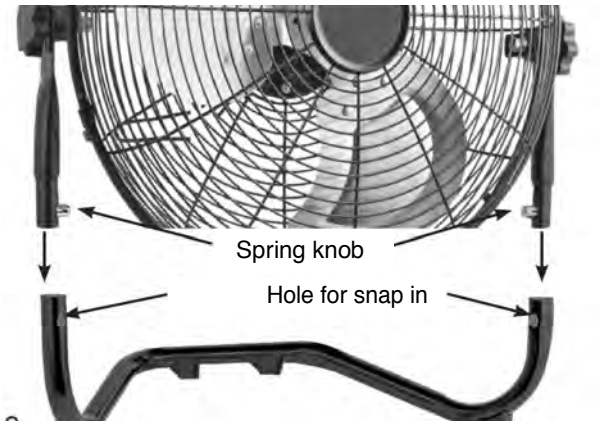

Fig. 8: Connect retaining arm with floor rack

Step 3: Prepare the foot element. To do this, connect the two leveling feet to the cross strut as shown in Fig. 9..

Fig. 9: Foot element

Step 4: Now screw the base element of the fan (Fig. 9) to the base frame (Fig. 10).

Fig. 10: Connect the foot element to the base frame

Step 5: To mount the wheels, align the two wheel clamps on the base frame and fasten them as shown in Fig. 11..

Fig. 11: Mounting the wheels

Model MV 1000-2

Step 1: Push the wheel axle through the wheel carrier frame

Step 2: Slide a wheel onto each side of the axle.

Step 3: Secure both sides of the wheels with a cotter pin.

Step 4: Make sure that everything has been mounted correctly. The fan can now be used.

6 Operation

Wear protective gloves!

Wear protective work clothing!

DANGER

TO LIFE DUE TO ELECTRIC SHOCK!

There is a danger to life in the event of contact with live components.

CAUTION!

Risk of crushing!

Improper work on the Mobile Fan may result in injury to fingers and hands.

Never put your fingers into the protective grille for the impeller!

DANGER!

- The device is not intended for operation in potentially explosive atmospheres.
- The device must not be operated in damp workplaces or outdoors in the rain.
- Only use the device on a level surface.

DANGER!

Children must be supervised and must not play with the device!

- Observe the mains voltage: The voltage of the power source must match the specifications on the rating plate.
- Make sure that the switch is turned off when connecting to the mains.

Step 1: Set up the device at the desired location.

Step 2: Insert the mains plug into the socket and switch on the device.

7 Care, maintenance and repair

7.1 Care by cleaning

The fan must always be kept in a clean condition.

DANGER!

Before starting cleaning, maintenance and repair work, switch off the device and pull out the power plug!

Wear protective gloves!

NOTE!

Never use harsh cleaning agents for any cleaning work. This can lead to damage or destruction of the device.

Clean all plastic parts and painted surfaces with a soft, damp cloth and some neutral cleaner.

7.2 Maintenance and repair

DANGER!

- Maintenance and repair work may only be performed by qualified personnel.
- Only use original spare parts in case of repair.
- After maintenance/repair, all safety devices must be reattached to the device before it may be put into operation.

Every 1000 hours of operation, the impeller bearings must be lubricated by a specialist.

If the Mobile Fan does not function properly, contact a specialist dealer or our customer service. The contact details can be found in chapter 1.2 Customer service. All protective and safety devices must be refitted immediately after repair and maintenance work has been completed.

8 Disposal, recycling of old equipment

In your own interest and in the interest of the environment, please ensure that all components of the equip-
mr**Spare parts drawing 1: Mobile Fan MV 610-3**
approved channels.

8.1 Decommission

Discarded devices must be taken out of service immediately in a professional manner in order to avoid later misuse and the endangerment of the environment or persons.

Step 1: If necessary, dismantle the equipment into manageable and recyclable assemblies and components.

Step 2: Dispose of the equipment components and operating materials in the appropriate manner.

8.2 Disposal of electrical equipment

Please note that electrical equipment contains a variety of recyclable materials as well as components that are harmful to the environment.

Help to ensure that these components are disposed of separately and properly. If in doubt, please contact your municipal waste disposal service.

If necessary, enlist the help of a specialized waste disposal company for reprocessing.

9 Spare parts

DANGER!

Risk of injury due to the use of incorrect spare parts!

The use of incorrect or faulty spare parts can result in danger to the operator and cause damage and malfunctions.

- Only original spare parts from the manufacturer or spare parts approved by the manufacturer are to be used.
- In case of any uncertainties, always contact the manufacturer.

Tips and recommendations

Use of non-approved spare parts voids the manufacturer's warranty.

9.1 Spare parts order

The spare parts can be obtained from the authorized dealer or directly from the manufacturer. The contact details can be found in chapter 1.2 Customer service.

Specify the following key data when making inquiries or ordering spare parts:

- Device type
- Position number
- Item number
- Year of manufacture
- Quantity
- Desired shipping method (mail, freight, sea, air, express)
- Shipping address

Spare parts orders without the above information cannot be considered. In the absence of information on the shipping method, shipping will be at the discretion of the supplier.

Information on the device type, article number and year of manufacture can be found on the type plate, which is attached to the device.

Example

The wheel for the Mobile Fan MV 610-3 must be ordered. The impeller has the number 34 in the spare parts drawing 1.

When ordering spare parts, send a copy of spare parts drawing 1 with marked component (wheel) and marked item number (34) to the authorized dealer or spare parts department and provide the following information:

- Type of device:	**MV 610-3**
- Item number:	**6265463**
- Position number:	**34**

Item number of your device:

MV 610-3	6265463
MV 760-3	6265473
MV 1000-2	6265492

9.2 Spare parts drawing

The following drawings should help you to identify necessary spare parts in case of service.

Spare parts drawing 1: Mobile fan MV 610-3

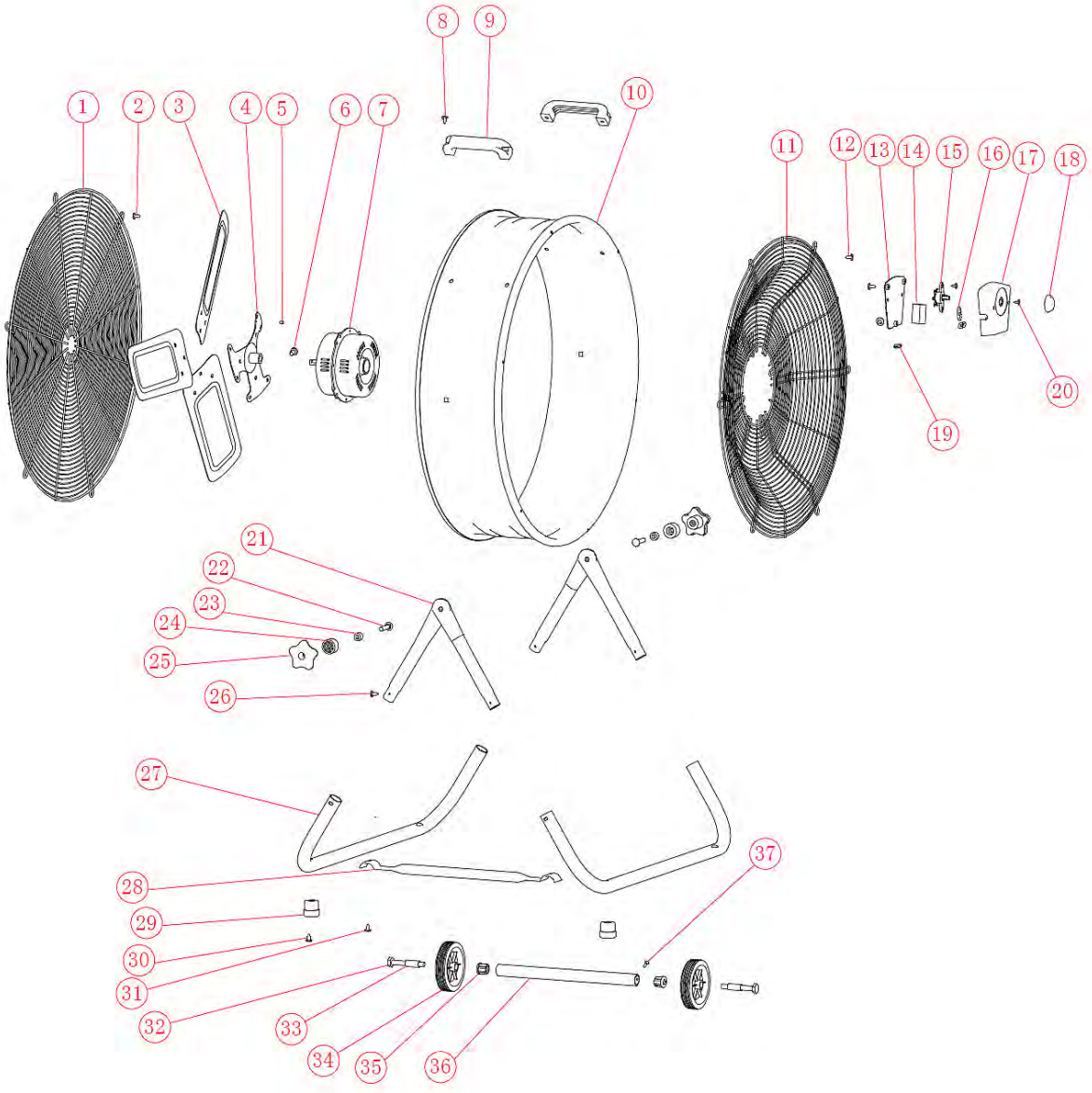

Fig. 12: Spare parts drawing 1: MV 610-3

Spare parts drawing 2: Mobile fan MV 760-3

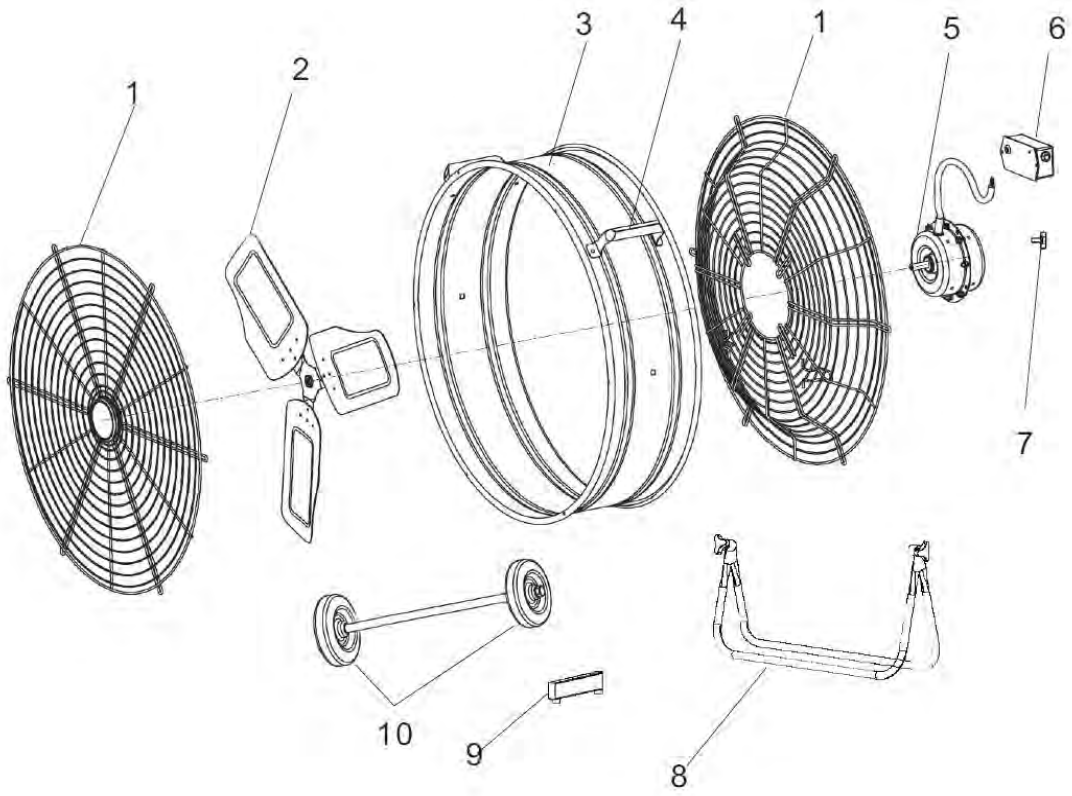

Fig. 13: Spare parts drawing 2: MV 760-3

Spare parts drawing 3: Mobile fan MV 1000-2

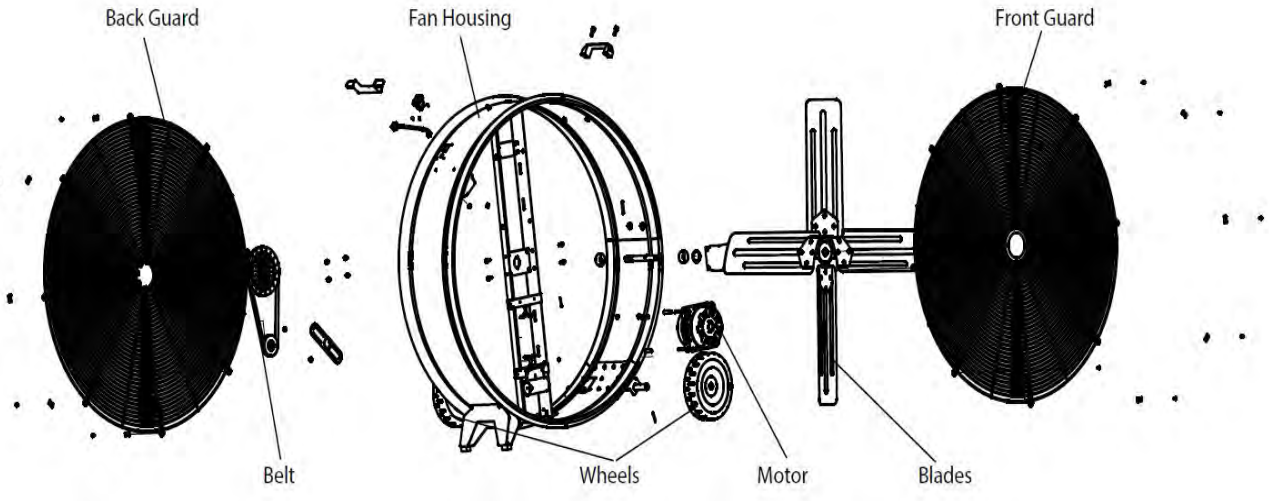

Fig. 14: Spare parts drawing 3: MV 1000-2

10 Electrical circuit diagrams

Circuit Diagram 1: MV 610-3

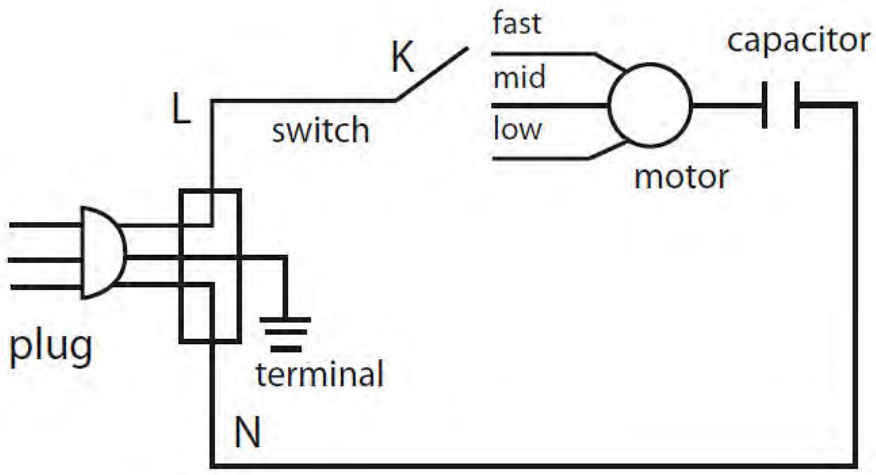

Fig. 15: Electrical circuit diagram 1: MV 610-3

Circuit Diagram 2: MV 760-3

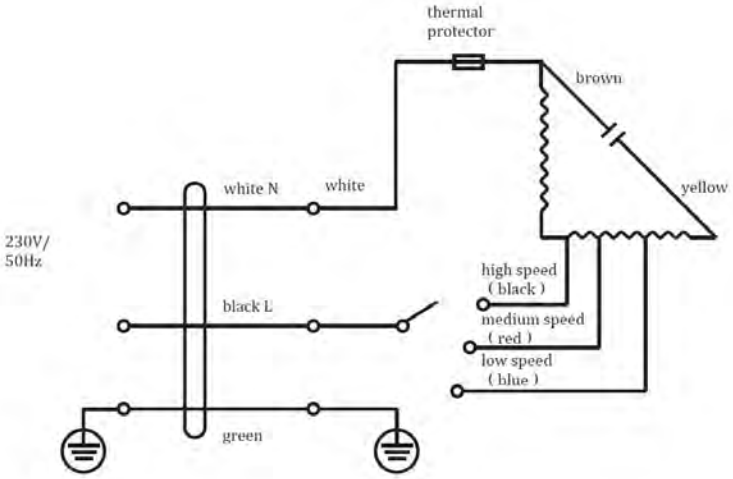

Fig. 16: Electrical circuit diagram 2: MV 760-3

Circuit Diagram 3: MV 1000-2

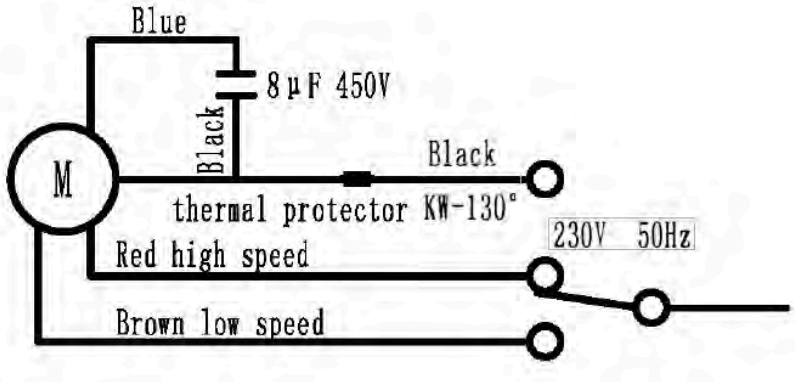

Fig. 17: Electrical circuit diagram 3: MV 1000-2

11 EC-Declaration of Conformity

According to Machinery Directive 2006/42/EC Annex II 1.A

Manufacturer/carrier: Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt

hereby declares that the following product

Product group: Unicraft® Workshop technology

Type of machine: Mobile fan

Designation of the machine*:	**Item number:**
☐ MV 610-3	6265463
☐ MV 760-3	6265473
☐ MV 1000-2	6265492

Serial number*: _____

Year of manufacture*: 20_____

* fill in these fields according to the information on the type plate

complies with all relevant provisions of the above-mentioned directive and the other directives applied (hereinafter) - including their amendments in force at the time of the declaration.

Applicable EU directives:	2014/30/EU	EMC-Directive
	2011/65/EU	RoHS-Directive
	2009/125/EG	Ecodesign Directive
Applicable EU regulations:	1907/2006/EG	REACH-Regulation

The following harmonized standards have been applied:

DIN EN 60335-1:2020-08	Household and similar electrical appliances - Safety - Part 1: General requirements
DIN EN 62233:2008-11	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure
DIN EN 55014-1:2018-08	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
DIN EN 55014-2:2016-01	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
DIN EN IEC 61000-3-2:2019-12	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
DIN EN 61000-3-3:2020-07	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
DIN EN 50564:2011-12	Electrical and electronic household and office equipment - Measurement of low power consumption
DIN EN 60704-1:2010-12	Household and similar electrical appliances - Test code for the determination of airborne noise - Part 1: General requirements
DIN EN IEC 60704-2-7:2020-12	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-7: Particular requirements for fans

Responsible for documentation: Kilian Stürmer, Stürmer Maschinen GmbH,
Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt

Hallstadt, 02.08.2023

Kilian Stürmer
Manager

CE


stürmer
OPTIMUM
stürmer
stürmer