

# Manual Book



## BRMHK1350

**Hand push Floor Scrubber**

Please read this manual carefully before operation/please properly keep it.

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## 1. Overview



Note: Please read this book carefully before operating the BRMHK1350 hand push battery floor scrubber.

## Preface

The BRMHK1350 floor scrubber is a cleaning machine that uses a brush disc motor to drive the brush head to clean the floor. It is suitable for cleaning hard floors while absorbing sewage and taking the sewage away from the site. It has the advantages of environmental protection, energy saving, and high efficiency. Use with detergent for better cleaning effect.

## Application

The scientific name of this machine is a hand-push fully automatic floor scrubber. It is suitable for places with vast hard floors such as office buildings, hotels, hospitals, shopping malls, restaurants and factory workshops. Machinery replaces manpower, making cleaning operations more efficient and faster. This device is not suitable for use in the rain or under a water cannon. It is strictly prohibited to use this equipment to collect hazardous dust or liquids in flammable and explosive environments. In addition, the equipment is not suitable for use as a transportation vehicle.

## 2.0 Summary of safety issues



Note: Please read this book carefully before operating the BRMHK1350 hand push battery floor scrubber.

- Before starting any work, be sure to familiarize yourself with all the design, controls, and functions of the floor scrubber.
- The condition of its parts under normal circumstances and during operation.
- If the floor washing machine is not working properly, the equipment cannot be used.
- The operator must operate this scrubber for the appropriate application (cleaning hard floors).
- When operating, pay attention to obstacles in the workplace, such as stairs, shelves, etc., and pay attention to the surrounding people, especially children.
- Use the appropriate detergent (when using detergent with a floor scrubber, use detergent only in accordance with the detergent manufacturer's instructions, appropriate dosage and restrictions.)
- Maintenance and repair of this floor scrubber should only be carried out by

properly trained personnel using suitable tools.

- Turn off the power or remove the battery when cleaning or maintaining machine.
- It is prohibited to use high-pressure water or steam equipment to clean machine.
- Do not allow water to enter electrical components.

★ The clean water tank must be kept at a certain level. The machine must not be operated without water to prevent it from sucking in dry dust, which could damage or soiling the vacuum motor.

★ The battery should be charged in a well-ventilated place, and it should be charged in time if the battery is insufficient. Due to the characteristics of lead-acid batteries, prolonged low battery levels or failure to recharge in time can cause irreparable damage to the battery.

The seller shall not be held responsible for the resulting consequences by incorrect usage.

NOTE:

It is prohibited to use this floor scrubber to clean flammable liquids, solvents, fuels, reactive metal vapors or flammable dusts.

### 3.0 Technical Parameters

Item	Parameters
Rated voltage	DC24V
Charger	24V/5A
Max.coverage per hour	1350 m <sup>2</sup> /h
Cleaning path	360mm
Squeegee width	420mm
Solution tank capacity	13L
Recovery tank capacity	15L
Brush motor power	400W
Brush rotation	180rpm
Brush pressure	22kg
Vacuum motor power	360W
Vacuum degree	160mbar
Noise level	<70dB
Min. aisle turn	360mm
Battery	24V /32AH
Weight	65kg
Charging time	6-8h
Operating time	1.5-2h
Size	720*450*1080mm

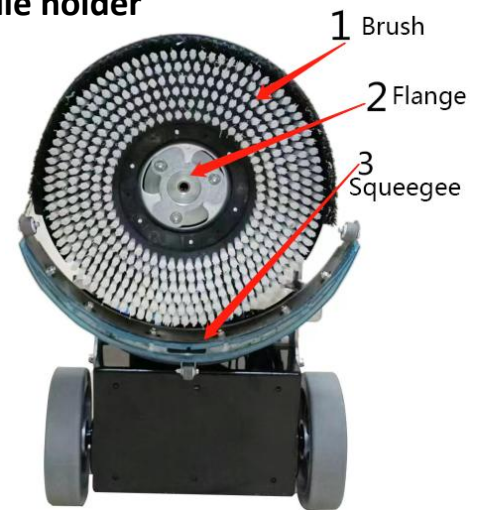
### 4.0 Packing and Unpacking

- 4.1 Packing——The equipment is packaged in a specific way and comes with wooden pallets that are easy to load and unload by forklifts. The packaging dimensions are as follows: Length 900mm, Width550mm, Height800mm.
- 4.2 Dismantling - (1) Tear off the wrapping film (2) Cut off the packaging bag (3) Take away the packaging cardboard (4) Take out the accessories (5) Use a slope to slide the machine off the wooden pallet.

## 5.0 Assembly instructions

### 5.1 Installation of brush disc, cleaning pad and needle holder

- Flip the machine backwards and lift the brush disc position at the front of the machine.
- Place the brush disc or cleaning pad with a needle holder in the center of the machine head flange.
- Manual installation: Rotate the brush disc to the left and transfer it to the flange clamp.
- Automatic installation: Place the brush tray in the bottom of the brush cover and align it. Open the power lock on the panel. When the power indicator light is on, press the brush button, and the brush will be automatically installed.
- If using a needle holder, attach the cleaning pad to the needle surface of the needle holder, following the installation steps of the floor scrubber. (Needle holder and pads need to be purchased extra payment)



### 5.2 Installation of squeegee blade

- The squeegee blade has been tested and installed before leaving the factory.
- If installation is required, connect the squeegee assembly to the middle position at the bottom of the machine
- Hang the squeegee assembly and tighten it.
- The upper, lower, front, back, the four sides of the squeegee blade can be replaced and used.

## 6.0 Preparation work for operation

### 6.1 Select accessories

- Nylon brush: suitable for cleaning rough, irregular or smooth surfaces.
- Pad with needle holder brush: suitable for flat polished floors. (Need to buy separately)

### 6.2 Fill the clean water tank with water

- There is a water inlet at the back of the water tank of the floor scrubber, which can be directly filled with water by unscrewing the plastic cover.
- Inject clean water and an appropriate amount of cleaning agent into the clean water tank according to the situation of ground stains.







☆ **Warning!** If the detergent used produces too much foam, it means that the detergent is not suitable for automatic washing. When using the floor machine, please add an appropriate amount of defoamer or replace the cleaning agent, otherwise it will burn out the suction motor.


## 7.0 Handling instructions


### 7.1 Explanation of the correct operating steps for machine startup

● Install the squeegee and brush tray correctly and place them flat on the ground.

● Press and hold the power switch  for 3 seconds, the power indicator light will light up.


● Press the brush disc motor switch , drain switch , and vacuum switch .

● Adjust the water volume according to actual needs .

● ECO button  description , this function is in energy-saving mode. It is recommended to use it when the ground is flat and good. When turned on, it will automatically reduce the power consumption of the machine, while ensuring good performance and saving power, extending battery life.



### 7.2 Description of control panel indicator lights

● The power indicator light  above the panel displays the battery level, it will show the voltage of the battery. It must be charging when the digital number is below 22, full charging shows digital number 26.3

☆ **Special reminder: To maintain the normal service life of the battery, it is necessary to fully charge the battery in a timely manner after each use of the machine. Overcharging and discharging can affect the performance of the battery, so it is necessary to use a dedicated matching charger for charging.**

### 7.3 Warning and operating instructions for full sewage tank

● When the sewage level in the sewage tank approaches the maximum limit water level, the float will jump up and block the air outlet, causing the vacuum motor to malfunction and producing different noises. (At this time, the water suction will not be able to suck the water on the ground.)

- Immediately turn off the suction motor and brush motor.
- Twist the Lids and open it.
- Pull up the Dirty water tank upwards and release the tank
- Then drain the dirty water and assemble the tank to the machine



#### 7.4 Things to note when the handle control fails

● This includes but is not limited to improper or violent use that may cause the handle to fail. In this case, you can solve the problem in two simple steps by following the steps below.

1. Open the control panel with tools



2. Use the corresponding tools (M6 screw driver) to turn the screw inside according to the picture on the right. Remember that you don't need to tighten the screw, but rotate it left and right until the handle is stable.





## 8.0 Common faults and solutions

### 8.1 Malfunction analysis and treatment table

Malfunction	Cause analysis	Solution
<b>Machine cannot run</b>	Power switch button malfunction	Replace button panel
	Low battery level	Charging
	Battery damage	Replace battery
	Battery wiring is loose or aging	Tighten or replace wiring
	Motherboard damage	Replace
	Line fault	Replace
<b>The brush disc motor cannot operate</b>	Brush disc switch malfunction	Replace button panel
	The brush disc motor or its circuit were damaged	Replace
	The carbon brush of the brush disc motor is severely worn	Replace
	Damaged motherboard or poor circuit contact	Replace
<b>The suction motor cannot operate</b>	Vacuum motor switch malfunction	Replace button panel
	The carbon brush of the vacuum motor is severely worn	Replace
	Damaged vacuum motor or circuit	Replace
	The motherboard or its wiring were damaged	Replace
<b>Small or no water output from the machine</b>	Water valve opened too small or closed	Adjust water valve
	The position of the brush disc outlet pipe is blocked	Use thin wire to clear the pipe
	Blocked solenoid valve	Disassemble the solenoid valve and clean it
<b>The suction power is low or the cleaning is not clean</b>	The sewage tank is full	Drain sewage
	The cover of the sewage tank is not tightly closed	Check if it is covered properly
	The suction pipe is blocked	Unclog pipes
	Wear of squeegee blade	Transfer or replace
	The height position of the squeegee blade is incorrect	Adjust the height
	The suction pipe is not tightly inserted or detached	Adjust
	Damaged suction pipe	Replace
	The sealing strip of the sewage tank cover is missing or damaged	Replace the sealing strip
	Damaged vacuum motor	Replace
<b>Short usage time</b>	Low battery level	Charging
	Battery damage	Replace
	Battery should be used correctly	See Battery Use and Maintenance
	Charger damaged	Replace

## 9.0 Maintenance

### 9.1 Daily maintenance and upkeep

- (1) Remove the needle holder/brush plate and clean it with a specific cleaning agent.
- (2) Drain the sewage tank and rinse with clean water. Check for debris in the sewage tank and remove it immediately if any. In addition, the remaining solvent in the clean water tank must also be drained.
- (3) Lift the squeegee assembly off the ground and clean the squeegee blade
- (4) Remove the vacuum suction inlet filter device and rinse it with clean water.
- (5) Wipe the machine clean with a specific cleaner.
- (6) Charge the battery.
- (7) Check whether the edge of the squeegee blade is sharp. If it is damaged, please turn it around or replace it.

### 9.2 Monthly maintenance and upkeep

- (1) Check that the top of the battery is clean to prevent corrosion.
- (2) Check whether the battery cable is loose or corroded.
- (3) Check the sealing of the sewage tank cover and replace it if it is damaged.
- (4) Lubricate all lubricated parts and shafts with specific lubricant.
- (5) Check whether machine fasteners are loose.
- (6) Check the water tank for leaks.

### 9.3 Motor maintenance

- (1) Motor maintenance should include regular dust removal and lubrication, check for loose wiring and insulation protection.
- (2) The motor carbon brushes should be inspected after every 250 hours of use. If the carbon brushes are severely worn, replace the motor.

### 9.4 Battery maintenance

- (1) Please follow the battery charging chapter in each manufacturer's operating manual for maintenance.
- (2) The top of the battery and the electrodes must be anti-corrosive. Soda water can be used to prevent corrosion, but this solution must not enter the battery.
- (3) Use a brush dipped in soda water to wipe the battery and battery cables.
- (4) Regularly check whether the battery cable is worn and whether the contacts are loose, and replace it if necessary.

### 9.5 Machine storage

- (1) Store upright and in a dry place indoors.
- (2) Lift the brush tray off the ground.
- (3) Lift the squeegee blade assembly off the ground.
- (4) If the storage location is extremely cold, you need to keep the machine completely dry to avoid damage caused by low temperatures.
- (5) Drain the recovery and solution tanks.



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