

AUTOMOP

Operational Manual



keeping the world clean.

Operation Manual

Mini Double Brush Floor Scrubber
Model: Automop

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ⓘ IMPORTANT BATTERY REMINDER

To maintain battery activity and working time, even if the machine is not in use, it must be charged at least once a month.

Thank you for choosing the Cleantech Automop - the professional floor scrubber that cleans faster, cleaner, safer and greener.

The compact design of the Automop allows you to clean right to the edge and under obstacles, minimising manual scrubbing. Powered by a lithium battery, the machine is equipped with two counter-rotating brushes that provide a deep scrub and outstanding cleaning results. It significantly reduces water and chemical usage, delivering a greener outcome while reducing the risk of slippery floors.

Please read this manual carefully before use. Keep it for future reference.

Best results are achieved when the Automop is:

- Regularly maintained per the preventive maintenance instructions in this manual
- Operated with reasonable care and caution
- Maintained with manufacturer-supplied parts

TARGET AUDIENCE

This manual is intended for operators of the Automop, their supervisors, and Cleantech partners and importers.

The Automop may only be operated by a person who has correctly read and understood this manual, or who has been trained by an experienced operator who has read and understood this manual.

PURPOSE OF THIS MANUAL

This manual provides users with the information needed to operate the OR-GB380A(D) correctly, efficiently and safely — including in cases of reasonably foreseeable misuse.

This manual covers:

- Personal operator safety
- Intended and non-intended use
- Instructions for daily use
- Maintenance instructions
- Storage conditions
- Disposal of the Automop

These instructions must be followed to avoid risks that could lead to physical and/or material damage.

READING GUIDE — SYMBOLS USED

The following symbols appear throughout this manual:

WARNING

Indicates a hazardous situation which, if safety instructions are not followed, can lead to injury of the operator or bystanders, and light or moderate damage to the product or environment.

CAUTION

Indicates a hazardous situation which, if safety instructions are not followed, can lead to light and/or moderate damage to the product or environment.

ATTENTION

Indicates a liability situation where Cleantech or its partners cannot be held accountable for damages caused by non-compliance.

STRONG MAGNET

The machine contains strong magnets. These can cause pacemakers to stop working or cause electronic data to be damaged, such as information stored on access passes.

PACEMAKER

Operators and maintenance crew wearing pacemakers should keep a minimum distance of 6 in / 15 cm from the machine.

BATTERIES

This machine is battery-operated. Batteries must be charged and disposed of according to your local laws and regulations.

SLIPPERY SURFACE

This machine can cause floors to become slippery. Place wet floor signs in the work area where applicable.

INTRODUCTION

The Automop is an easy and safe machine to use. This manual will help you get started and explains the operation and maintenance procedure.

The batteries must be fully charged before use. Please refer to the battery charger user manual for the correct procedure.

This manual is intended for those who work with the Automop and/or perform daily maintenance. Read this manual in full before first use.

INTENDED USE

The Automop is a specialised machine for scrubbing hard floor surfaces. Any type of water-based scrubbing detergent may be used.

WARNING — NON-INTENDED USE

Non-intended use can have consequences for the safety of operators and bystanders and will void the warranty.

1. NEVER operate near flammable dusts, liquids or vapours.
2. NEVER operate when flammable or poisonous liquids such as gasoline, oil, acids or other volatile substances are on the floor.
3. DO NOT fill with any flammable detergent. ONLY use water-based cleaning solutions.
4. DO NOT use water exceeding 113°F / 45°C. Using water above this temperature will void the tank warranty.
5. DO NOT use cleaning solutions with pH below 3 or above 11, to prevent damage to sensitive components.
6. DO NOT use the machine outdoors or on uneven surfaces.
7. DO NOT operate over electrical floor outlets to avoid electrical shock.
8. NO RIDERS. Do not carry passengers on the machine.
9. DO NOT use the machine as a step ladder or platform.
10. DO NOT store the machine outside, to avoid damage to electronic components.
11. ONLY use manufacturer-supplied parts for maintenance.
12. KEEP AWAY from children. This is a professional machine for trained adults only.

LIFESPAN

Each Automop is guaranteed to operate for one year. Wear on brushes and squeegee depends heavily on the roughness of the surface and must be checked regularly.

CAUTION

The machine must be checked every 500 hours by an authorised Cleantech partner to ensure proper and safe operation throughout its life.

MODIFICATIONS

Modifications to the design of the machine are not permitted without prior consultation and permission from the manufacturer. Unauthorised modifications will affect the warranty.

DESCRIPTION

The Automop consists of two main parts:

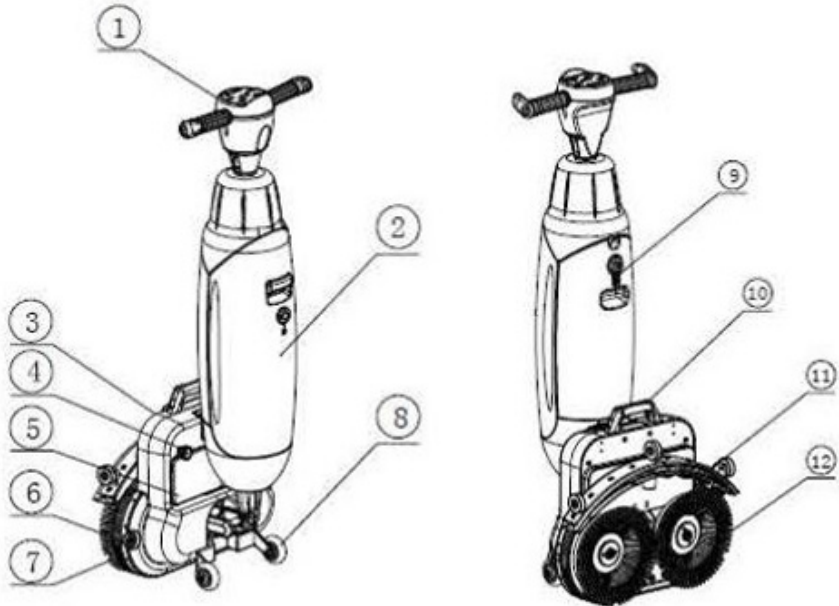
BODY

Contains the motors (one vacuum motor, two brush motors), cleaning solution tank, recovery tank, handle and control panel (3 functional buttons and one power display window).

SCRUB DECK

Contains the brushes and squeegee. The machine can be folded into a park position — recommended for storage.

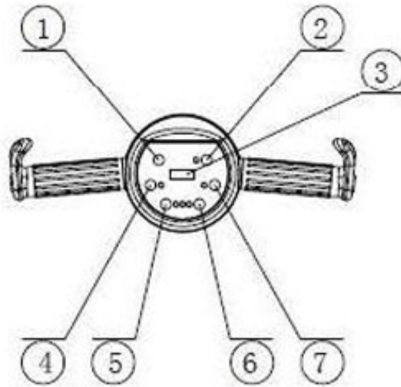
MACHINE COMPONENTS



No.	Component
1	Top Handle
2	Recovery Tank
3	Scrub Deck
4	Battery Pack Box Knob
5	Battery Pack Box
6	Anti-Collision Wheels x2

7	Surrounding Fence
8	Walking Wheels x2
9	Solution Tank
10	Carrying Handle
11	Squeegee Assembly
12	Floor Brush x2

CONTROL PANEL — TOP



No.	Control
1	Power Switch (ON/OFF)
2	Water Pump On/Off Button
3	Battery Indicator
4	Vacuum On/Off Button
5	Speed Adjustment (Low) "-"
6	Speed Adjustment (High) "+"
7	Brush On/Off Button

SAFETY

Before using the scrubber, check for any abnormal sounds or visible damage.

SWEEP BEFORE SCRUB

Remove any objects from the floor that could be propelled by the rotating brushes.

BRUSH CONDITION

Check the condition of the brushes before use. Only change brushes when the machine is turned off and in the park position.

MACHINE ORIENTATION

Always keep the machine body in an upright position when cleaning fluid or batteries are inserted.

CAUTION

Be aware of the integrated magnets that hold the fluid tanks in place.

WARNING

Operators and maintenance crew wearing pacemakers must keep a minimum distance of 6 in / 15 cm from the machine.

BATTERY PACK

Always use the automatic battery charger provided by Cleantech.

CAUTION — BATTERY SAFETY

During normal operation, the 36V battery presents no safety hazard. However, please follow these battery safety rules:

1. Do not crush, pierce or damage in any way.
2. Do not heat or incinerate.
3. Do not short-circuit.
4. Do not dismantle.
5. Keep dry.
6. Only charge between 5°C – 40°C / 41°F – 104°F.
7. Only use between 5°C – 45°C / 41°F – 113°F.

RISKS DURING OPERATION

DRESS SAFELY

Do not wear a necktie, scarf, or any loose, dangling clothing or jewellery while operating the Automop. These can tangle in rotating parts, causing serious injury or death.

MARK THE JOB SITE

The scrubber is designed to leave a dry floor without slippery patches, no additional drying is required.

When running the Automop with the vacuum function OFF, mark the job site with a wet floor sign.

⚠ CAUTION

Marking the job site is not required when the vacuum function is ON unless required by local law. When unsure, mark the site to warn passersby.

CAREFUL WHEN PARKING

Do not park the machine on ramps or slopes. Always park on a level, hard surface.

RISKS AFTER OPERATION

REMOVE BATTERY PACK

Remove the battery before executing any cleaning or maintenance task, or before storage.

MACHINE ORIENTATION

Always keep the body of the scrubber in an upright position after use.

TRANSPORT & STORAGE

⚠ CAUTION!

Always keep the body of the scrubber in an upright position when filling the cleaning solution tank or inserting the batteries. Before storage or transport, drain the machine and remove the batteries after each use.

Park Position

The Park position is the upright vertical position for storage and maintenance tasks.

1. Make sure the vacuum hose is pushed back into the machine so it cannot get squeezed.
2. Crouch down and hold the handle with one hand while holding the scrub deck with your other hand.
3. Lift the scrub deck slowly until it stands upright on the front wheels. Guide the body towards the scrub deck until snaps into a resting position.

Transport Outside

When outside:

1. Put the scrubber in park position (refer to below image).
2. Carry the scrubber with one hand while holding the handle with your other hand.

⚠ CAUTION!

The transport wheels are not designed to roll over dirty surfaces, sand can cause the wheels to block. Lift the machine going from one building to another.

Assembly & Installation

The scrubber almost does not require the assembly, you will have to get the wire connectors inserted in place in the battery pack box after taking the machine from the box.

Unboxing

The machine is with one charger and 2 tool sets are packed in a box. One charger and one wrench and one hexagon screw wrench are included.

OPERATION

Before Operation

Charge the battery pack when it is correctly connected in the machine. Make sure the battery pack is charged monthly.

Before You Start

Check the brushes and squeegee for wear and tear.

During operation, the battery indicator on the control panel shows the amount of power left. It is not recommended to use the battery when charged below 40%.

Fill the cleaning solution tank

1. Remove the stopper.
2. Pour in a maximum of 18gal/4L of cleaning fluid.
3. Replace the stopper and make sure it seals tight.
4. Put the machine in park position.
5. Put the tank on the machine with the valve first.
6. Press the tank downward to break the valve seal.
7. Push the tank into place until you hear a "click".
8. Clean your hands afterwards.



Handle



Operation Panel

Suction Motor

Small Auxiliary Wheel

Squeegee
(Detachable)

Recovery Tank
(Detachable)

Dual Brush
(Detachable)

Solution Tank
(Detachable)

Operation Procedure

Walking to the Job Site

To move the scrubber from one location to another within a building:

1. Place the scrubber in the park position (refer to image).
2. Hold the handle securely with one hand (refer to image).
3. Walk slowly, taking extra care when pulling the scrubber over any obstacles.
4. When lifting the scrubber over obstacles, always use two hands:
 - Hold the main handle with one hand.
 - Use the other hand to lift via the carrying handle.
5. Ensure one of the caster wheels is stabilised when stopping.

Reminder:

If the floor surface is flat, you can rely on the caster wheels for easier movement.



Place the scrubber in the park position and tilt the main body forward correctly. Hold the unit securely by the handle, then grip the top section as needed for stability.

Attention:

When the recovery tank contains a large amount of dirty water, it must be emptied immediately.

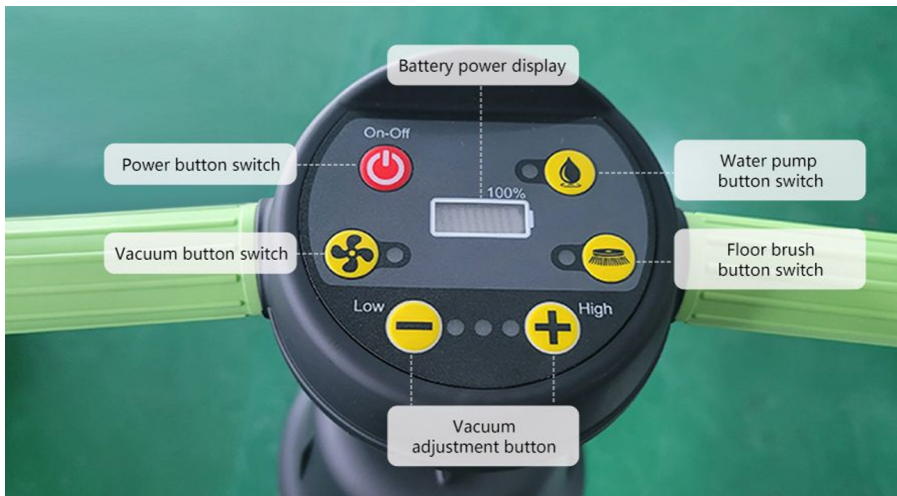


WARNING

Do not push down the scrub deck with your foot.

At the Job Site

1. Crouch down and firmly hold the scrub deck's carrying handle with one hand.
2. With your other hand, push the handle forward.
3. Slowly lower the scrub deck to the floor in a controlled manner.
4. Stand behind the machine.
5. Turn on the machine by pressing the main ****On/Off switch**** located at the rear of the control panel (refer to image). The battery indicator will illuminate.
6. Select your desired cleaning mode using the mode buttons/ switches (refer to image).
7. Hold the handle with both hands.
8. Walk behind the machine.
9. Steer by gently turning the handle left or right to move the scrub deck.



Mode 1 – Vacuum Only

Press the left button only. The machine will not move forward automatically.

Mode 2 – Brush Only

Press the middle button only. The machine will move forward automatically.

Mode 3 – Water / Cleaning Solution Only

Press the right button only. The machine will not move forward automatically.

Mode 4 – Vacuum + Brush

Press the left and middle buttons.

Mode 5 – Vacuum + Water / Cleaning Solution

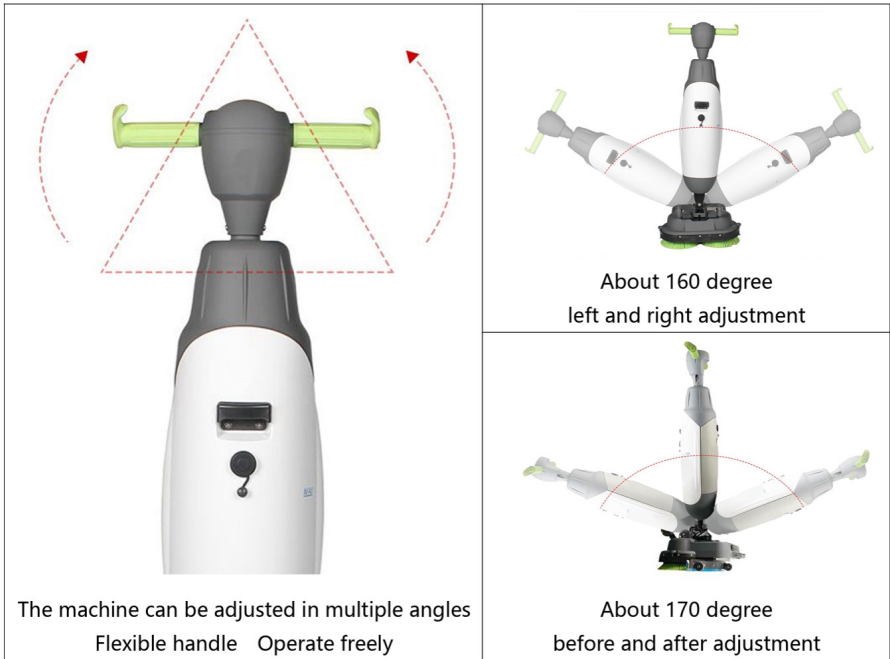
Press the left and right buttons.

Mode 6 – Brush + Water / Cleaning Solution

Press the middle and right buttons. The machine will not move forward automatically.

Mode 7 – Full Cleaning (Vacuum + Brush + Water / Cleaning Solution)

Press all three buttons. The machine will move forward automatically while simultaneously brushing, dispensing solution, and vacuuming the floor.



If you want to stop cleaning the floor, please according to flow instruction:

1. Press water cleaning button to stop the water releasing.
2. Press brush button to stop the brush (we recommend continuous move forward 5-8m to keep cleaning activities).
3. Press vacuum button to stop the vacuum.
4. Press power off.
5. **Note:** Releasing the main on/off switch will immediately stop the M-2. But due to the water releasing more on the floor, we recommend you first stop the water cleaning button, and continuous forward 5-8m to keep your floor cleaning and no any dust or water leave on the floor.

⚠ WARNING!

1. Do not operate the scrubber at greater than arm's length. Operating below a 45-degree angle can cause water to run into the vacuum engine.
2. Dispose water or cleaning solution from both tanks in an appropriate drain. Even though the recovery tank is bigger, empty it each time the cleaning solution tank is filled.
3. Please observe the local provisions regarding solution disposal related to waste water treatment.
4. Flush the system. Be sure to flush the tanks out completely. To thoroughly flush out any solution in the lines and vales.

Emptying Tanks

Dispose water or cleaning solution from both tanks in an appropriate drain. Even though the recovery tank is bigger, empty it each time the cleaning solution tank is filled.

⚠ WARNING!

Please observe the local provisions regarding solution disposal related to waste water treatment.

Flush the system. Be sure to flush the tanks out completely. To thoroughly flush out any solution in the lines and vales.

CLEANING AND STORAGE

1. Refill solution tank with 0.5 to 1 liter of clean water.
2. Use the main on/off switch and choose MODE 7 Brush + Water/ Cleaning solution + Dry vacuum by pressing all the 3 Switches.

Cleaning The Tanks

1. Dispose water or cleaning solution from both tanks in an appropriate drain.
2. To clean the recovery tank thoroughly:

Partially fill the tank with fresh water and hold it horizontally with the holes facing up. Tilt the tank repeatedly, thoroughly rinsing all the dirt and debris out from the tank.

3. To clean the solution tank, follow the same procedure.

TIP: Dry the tanks slightly open both tank caps before storage to allow the tanks to dry.

Cleaning The Brushes And Squeegee

1. **Check to see if both brushes are clean and intact.**
 - Clean the under fresh water or replace them if necessary.
 - Replace brushes if the yellow wear indicator shows as necessary.
2. **Check to see if the squeegee is clean and intact.**
 - Clean it with fresh water and wipe it with a clean, damp cloth
 - Replace the squeegee blades when necessary.

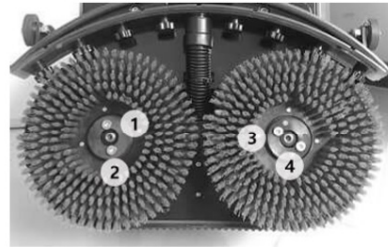
Store In An Upright Position

1. Please ensure that the scrubber is parked in a place where nobody can bump into it.
2. Put the machine in the park position.
3. Store the scrubber close to a wall with the handle pointing towards the wall and the squeegee to the floor.

MAINTENANCE

Brushed Replacement

1. Put the scrubber in the park position.
2. The brushes connect on the machine by magnetic force. So simply grip the left and right side of the brushes (stripping pads holder) by two hands and pull the brush out against machine.
3. Visually inspect the motor disks.
4. Clean the scrub deck with a clean, dry cloth before you install the brushes or stripping pads holder.



Each 2 screws

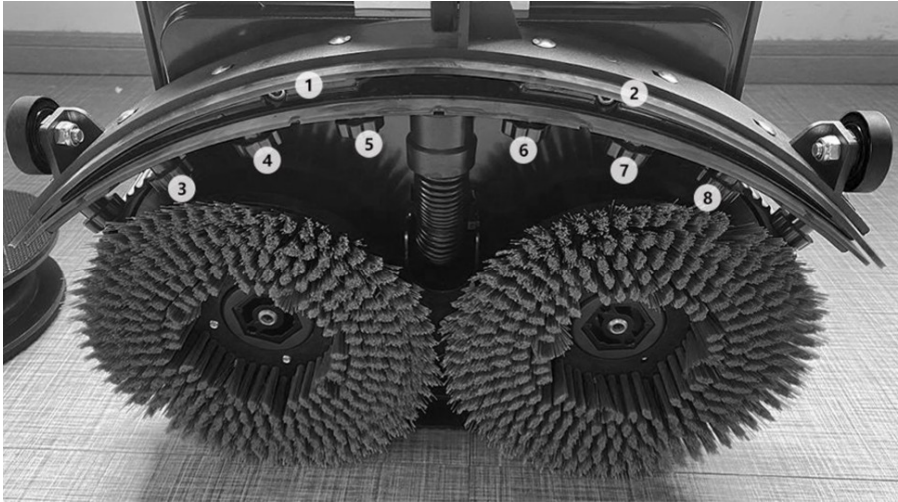
Squeegee Replacement

The squeegee blades come in pairs and wear out over time. When you notice the floor is no longer being dried properly, replace the squeegee blades.

Detach The Squeegee

1. Put the scrubber in the park position.
2. Hold the scrub deck firmly with one hand.
3. Use the supplied hex wrench to remove the two hexagonal screws inside the squeegee completely.
4. Pull out the squeegee properly.
5. Remove the vacuum hose from the squeegee by twisting the hose.

Flip/Replace The Squeegee Blade



8 Plastic Nuts

1. Unscrew the 8 plastic nuts on the back (refer to the above image).
2. Take off the squeegee rear plate.
3. Once the plastic part is removed, you can easily take off the rear rubber blade.
4. Push the 8 screws through the front blade in order to remove the squeegee front plate.
5. Take off the rear rubber blade.

6. Inspect the front and rear rubber blades:

The first time:

Flip the blades so the top of the blade is now facing the floor. Push the front plate screws through the holes.

The second time:

Attach a new set of blades. Push the front plate screws through the holes.

⚠ CAUTION!

The special squeegee blades that contain small arrow-like shapes cannot be switched. These need to be replaced every time. Put back the plastic rear plate. Screw the 8 plastic nuts on the back.



Attach The Squeegee

1. Take the vacuum hose
2. Insert the hose connector (refer to the above image) into the Squeegee.
3. Twist the hose connector 1/4 turn for a firm fit.
4. Carefully pull the vacuum hose from the top of the machine
5. Hold the scrub deck firmly with one hand.
6. Align the pins on the scrub deck with the holes on the squeegee.
7. Screw the squeegee in place.

Replace Vacuum Hose

1. Detach the squeegee as described in above sections.
2. Remove the solution tank. You can see where the vacuum hose is connected at the handle.
3. Hold the scrub deck firmly with one hand.
4. Detach the vacuum hose by twisting the connector 1/4 turn anticlockwise.
5. Now you can carefully pull the vacuum hose from the top of the machine.
6. Guide the new vacuum hose via the opening to the hose connector located at the handle.
7. Connect the top to the hose connector by twisting the clockwise 1/4 turn until they have lined up.
8. Re-install the squeegee.



Recommended Additional Cleaning

Clean the exterior weekly with a non-abrasive, non-solvent cleaner or a clean, damp cloth. To clean the scrub deck, remove the brushes first.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
No Power	No battery pack	Put battery pack
	Empty battery pack	Charge battery pack
	Battery pack incorrectly	Reconnect battery pack
Insufficient/no water flow	Wrong switch on	Check the switch button on the control panel
	Main on/off switch is "off"	Check the main on/off switch button
	Empty tank	Fill the tank
	Tank incorrectly placed	The tank valve must be clicked on the nipple to open the seal, replace the tank
	Filter blocked	Ensure the solution tank has no dirt particles and the filter is clean
	Blocked water piper	Request for Service
Poor water recovery	Squeegee opening blocked	Remove the pipe and clean the squeegee opening
	Tears in squeegee blades	Replace squeegee blades
	Filter blocked	Check the foam filter and clean if necessary
	Vacuum hose blocked	Check and remove blockage service
Leakage	Tanks incorrectly placed	Check and reattach fluid tanks
	Tear in vacuum hose	Replace vacuum hose or request for service
Battery not charging	Battery is at end of life	Replace battery

WARRANTY

The Automop should be used as intended and described in this manual. Using outside will void the warranty on the product.

DECOMMISSIONING & DISPOSAL

⚠ ATTENTION!

It is the responsibility of the scrubber owner to dispose of the product responsibly.

After decommissioning, the scrubber still contains valuable resources and needs to be disposed of according to your local laws and regulations regarding recycling of electrical equipment.



Before disposal please:

1. Flush the machine properly.
2. Remove the battery pack for separate disposal.
3. Remove all loose components like brushes, tanks and squeegee.
4. Dispose all items according to your local laws and regulations.



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Mini Double Brush Floor Scrubber
Model Automop
Product code: CT-AM