

KR-XS430

Instruction manual



Please ensure that you have read and fully understood the instructions before use

General safety regulations ►

The following symbols are used to indicate any potentially dangerous situation. Please read this information carefully and take the necessary precautions to protect any person and/or object that may be present. Operator accident prevention is crucial. No accident prevention plan can be effective without the full cooperation of the direct machine operator. Most accidents that occur in the workplace, during work activities or in transit are caused by non-compliance with the most basic safety regulations. A careful and attentive operator is the most effective guarantee against accidents and the basis for implementing any prevention plan.

Charge the battery ►



Danger :

- If the battery charger power cord is damaged or broken, it should be replaced by the manufacturer, authorized service personnel or other qualified personnel to prevent danger.
- Keep sparks, fireworks and flammable materials at a safe distance from the battery.
- Before charging, check that the battery charger cable is not damaged. If it is damaged, do not use it and contact technical assistance.
- Before using the charger, please check that the power outlet is free of damage, if it is damaged, do not use it, and contact authorized service technicians or other qualified personnel to avoid dangerous situations.
- Do not unplug the charger cable from the machine socket while the charger is charging. This prevents electric arcs from forming. If you want to disconnect the charger while charging, unplug the power cord from the electrical outlet first.

Use machine ►

Danger :

- In case of danger, turn off the main switch of the machine quickly and remove the battery from the battery compartment.
- Do not clean gases, explosive/flammable liquids or powders, and do not clean acids and solvents! These include gasoline, paint thinner and fuel oil (which, when mixed with air, may form explosive vapors or mixtures) as well as non-diluent acids and solvents, acetone, aluminum and magnesium powders. These substances may also corrode the materials used to make the machines.
- If the machine is used in a dangerous area, such as a gas station, it must comply with the relevant safety standards. It is prohibited to use the machine in an environment with potential explosion hazard.

Danger :

- The machine must be used exclusively by trained authorized personnel.
- Do not use the machine on surfaces with a slope greater than indicated on the serial number plate.
- This machine is not suitable for cleaning rough or uneven floors. Do not use the machine on the slope.
- In case of fire, please use the fire extinguisher. Don't use water.
- Adjust the speed according to the actual ground environment.
- In order to prevent irrelevant personnel from using the machine, the power supply must be interrupted and the machine must be turned off using the main switch.
- Do not use the machine if you are not familiar with it.
- If you have not read and understood the following user manual, do not use the machine.
- Do not use the machine under the influence of alcohol or drugs.
- Do not use machines when using cell phones or other types of electronic devices.
- If the machine does not work properly, do not use it.
- Do not use the machine in areas where flammable vapors or liquids or combustible powders are present.
- Do not use the machine in a dark place where you cannot see the controls or operate the machine safely.

Caution:

- Unless the person responsible for safety controls and instructs them to use the machine, the machine should not be used by persons who are physically or mentally tired (including children) or without any experience. Children must be supervised to ensure that they do not play with machines.
- Keep an eye on other people, especially children, while the machine is working.
- The power supply voltage of the machine must be equal to the voltage shown on the serial number board.
- Read the label on the machine carefully. Do not cover them for any reason and replace them immediately if they are damaged.
- The machine can only be used and stored in an indoor environment.
- The machine must not be used or stored in wet conditions or directly exposed outdoors.
- This machine does not cause harmful vibrations.
- Use the machine only in the manner described in this manual.
- Do not sweep anything burning, such as cigarettes, matches, or glowing embers.
- Always follow the mixing, use and disposal instructions on the container of chemicals.

Danger :

- Always take appropriate measures to protect any person and/or object that may be present when using the device.
- Be careful to avoid collisions with shelves or scaffolding, especially if there is a risk of objects falling from height.
- Do not place any liquid containers on the machine.
- The machine can only be used at temperatures from 0°C to +40°C.
- When using detergent to clean the floor, be sure to follow the instructions and follow the warnings indicated on the container label.
- Be sure to use proper gloves and protective equipment when handling detergents used to clean floors.
- When the machine is stationary, do not use the brush tray to avoid damaging the floor.
- Do not let anything penetrate into the suction of the machine. Do not use the machine if you do, because the suction is blocked.
- Keep the machine's suction vents free of dust, fluff, hair, or any other foreign matter that might reduce airflow.
- Do not remove or change any labels attached to the machine.
- Check for leaks before you start working.
- Before you start work, check that all safety equipment is installed and working properly.
- Take all appropriate precautions to prevent hair, jewelry, loose clothing from becoming entangled in the moving parts of the machine.
- Use the machine only in well-lit areas.

 When the cleaning tank and sewage tank are full, the machine shall not be transported or parked in its resting position.

Machine outage ►

Danger :

- Always protect the machine from sunlight, rain and other atmospheric media while the machine is still and running. Store the machine in a dry, sheltered place: This machine is designed for dry conditions only and must not be used or stored outdoors in wet conditions.
- Do not park the machine near combustible materials, powders, gases or liquids.
- Please park the machine on a level floor.
- To shut down the machine, turn off the main power first.
- If the machine is left unattended, it must be protected from any accidental movement.

cautious :

- In order to prevent unauthorized use of the machine, the power supply must be interrupted, using the main switch to turn off the machine.

Look out :

- The machine can only be stored at temperatures from 0°C to +40°C. The humidity level must be between 30% and 95%.

maintenance ►

⚠ Danger :

- To avoid short circuits when working near electrical components, do the following: Avoid using non-insulated tools and do not place or allow metal objects to fall on electric components; Remove any rings, watches and/or clothing with metal parts that may come into contact with the electric components.

⚠ warn :

- Please read all relevant instructions carefully before performing any maintenance/repair operations.
- If the machine is not working properly, check that this is not due to the inability to perform routine maintenance. Otherwise, authorize the Technical Assistance Centre to intervene.
- Restore all electrical connections after any maintenance intervention.

⚠ cautious :

- For any maintenance work, use the main switch to turn off the machine and remove the battery from the battery compartment.
- Avoid touching moving parts. Don't wear loose clothing or jewelry, and tie your long hair back.

⚠ Look out :

- Do not tamper with the protective equipment of the machine for any reason; Always strictly follow the daily maintenance instructions provided.
- If you experience any problems while using the machine, check to make sure that these problems are not due to a lack of proper maintenance. Otherwise, authorize an officer or authorized service center to intervene.
- When replacing parts, ask your dealer or authorized retailer for the original spare parts.
- In order to ensure the safe use and normal operation of the machine, please carry out the maintenance work specified in this manual.
- Do not wash the cleaning machine with direct or pressurized water or corrosive substances. If you want to clean, you can use a clean wet cloth to wring out and wipe.
- The machine is inspected annually by an authorized technical assistance center.
- When disposing of consumable materials, please comply with current laws and regulations. Once the machine has reached the end of its useful life, the materials contained therein must be disposed of in an appropriate manner, bearing in mind that the machine itself is made from fully recyclable materials.
- All repairs must be carried out by qualified personnel.
- Do not physically change the design characteristics of the machine.
- Use spare parts provided by authorized service centers.
- Wear personal protective equipment according to manual requirements and recommendations.

transport ►

⚠ warn :

- Drain clean water and sewage tanks before shipping.

Discard treatment ►

⚠ Look out :

- There are toxic and harmful substances in the battery after the end of the service life of the machine, and these substances need to be thrown into the battery disposal.

Analyze and solve problems

This chapter lists the most common problems associated with using machines. If you are unable to resolve the information provided here, please contact the nearest help center.

problem	Possible cause	solution
Machine cannot start	The main switch is off.	Press the main switch.
	Check that the battery is properly inserted into the machine.	Insert the battery correctly into the machine.
	Check the battery level and look at the LED on the back of the machine.	The level of battery charge is critical, so perform a full charge cycle.
The battery is not charged correctly	The power cable plug is not properly plugged into the battery charger base socket.	Check that the plug on the battery charger power cord is No Connect to the socket on the battery charger base.
	The power cable socket is not properly plugged into the power socket.	Check whether the battery charger power cable is plugged Connect to a power outlet and the outlet is powered.
	The characteristics of the power supply do not meet the requirements of the battery charger.	Check that the characteristics of the battery charging board are the same as those of the power supply.
	The LED on the battery charger base flashes repeatedly.	Refer to the battery charger usage and maintenance manual. Check the battery charger during the battery charging phase. The meaning of the flashing signal.
Machine underpower	Check the battery level and check that the voltage on the battery display is not less than 23V.	The level of battery charge is critical, so perform a full charge cycle.
Low water yield	The clean water capacity in the cleaning tank is insufficient to carry out the work.	Add an appropriate amount of water to the water tank.
The wash is not clean	The machine won't start.	Check that the main switch is pressed.
	There's not enough water coming out.	Check to see if the water tank is full.
	The brush is not inserted correctly into the machine.	Insert the brush correctly into the machine.
	The bristles can wear too much.	Check the condition of the brush and replace it if necessary (Read "Daily Maintenance")
The rubber can't be scraped clean	The vacuum unit is clogged.	Remove residue from the rubber.
		Remove residue from suction pipes.
		Remove the barrier from the sump lid.
Excess foam	The detergent being used is not suitable.	Check if low-foam detergent is used.
	The floor is not very dirty.	Further dilute the detergent in the solution tank.
Vacuum suction is low	The sewage tank is full.	Empty the sewage tank.
	The vacuum unit is clogged.	

Product introduction ►

Electric mini double scrubbing machine is a new generation of sanitation and cleaning appliances launched by our company.

This machine has exquisite design and unique technology. This machine can wash the ground and suck up the sewage in one stepBusiness.

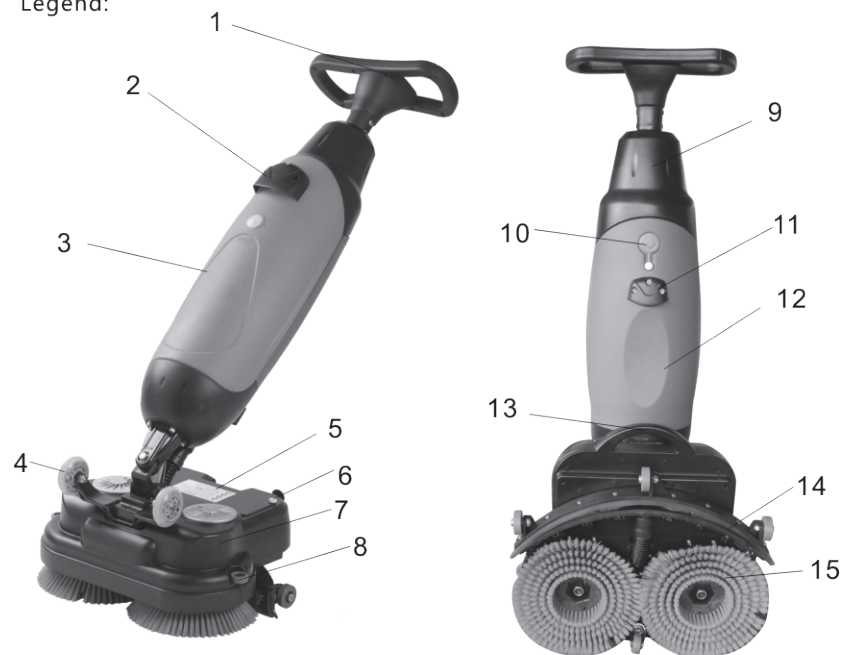
It is suitable for civil and industrial flat ground or moderately rough ground.

Meet different work hoursBetween and weight requirements.The floor washer sprays a proper proportion of detergent onto the floor to scrub away dirt.

Careful selectionWhen cleaning agent and ground brush to adapt to different ground to remove dirt.

Using the suction generated by the suction motor of the washing machine, the suction scraper behind the machine can be cleanedThe ground sucks up sewage.

Legend:



- | | | |
|-----------------------|----------------------------|---------------------------------|
| 1. Handle | 6. Screw the battery cover | 11. Clear the water tank handle |
| 2. Sewage tank handle | 7. Cover | 12. Clean the water tank |
| 3. Sewage tank | 8. Anti-collision wheel | 13. Handle |
| 4. Casters | 9. Water absorption motor | 14. Suction assembly |
| 5. Battery cover | 10. Add water port | 15. Tray brush |

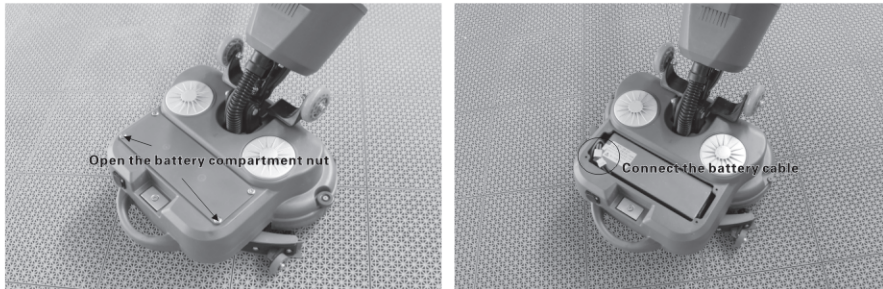
warning

Please strictly follow this manual (especially important information concerning hazards or warnings) and randomIn case of serious consequences arising from failure to follow these guidelines, the manufacturer willNo responsibility whatsoever.

- Machines can only be operated by trained and competent staff.
- Minors are not allowed to operate the machine.
- Do not use machines in poorly lit, flammable areas, highways, or places that are hazardous to health.
- The machine is designed to work from 4 degrees to 35 degrees.
Do not use the machine when the temperature is below 0 degrees or above 50 degrees.
- The operating temperature of the machine is between 30% and 95%.
- Do not use the machine to absorb flammable and explosive liquids (such as gasoline, fuel oil, etc.), flammable gas, dry powder and immediately diluted acid or solvent (such as pigment solvent, acetone, etc.). Do not use to absorb burning or hot objects.
- Do not use the machine on slopes with a slope of more than 2 degrees.
Do not operate the machine laterally on lightly sloping slopes. Be careful not to backtrack. When running on steep slopes, be careful to avoid tipping the machine over or accelerating out of control. Please walk slowly on the slope and raise the floor brush and absorbent scraper.
- Do not park the machine on the slope.
- The motor must be turned off before leaving the machine. Ensure that the machine does not start accidentally.
- Be careful not to harm people around your workplace, especially children.
- Do not use machines to carry people or objects or drag things. Do not drag the machine.
- Don't store anything on the machine.
- Do not block the vent.
- Do not remove or modify safety devices.
- Operators should use personal protective gear, protective aprons or overalls, non-slip and waterproof shoes, rubber gloves, goggles, ear protectors and masks to protect the respiratory tract
- The sewage sucked back contains cleaners, disinfectants, water, organic and inorganic substances. Therefore, sewage must be discharged according to the relevant local laws and regulations.

Install battery

When installing or maintaining batteries, the operator must wear the necessary protective devices (gloves, eye guards) Mirrors, etc.) to reduce the risk of accidents. Keep away from open flame, avoid short circuit between electrodes, avoid electric spark, Don't smoke.



Attach the battery to the machine by seal (follow these steps):

- Loosen the battery compartment nut, open the battery compartment, and connect the battery cable.
- Put the cap on the electric bottle.

Please charge the battery before using the machine for the first time. Refer to the relevant guidelines.

Battery: installation and connection

- Make sure all switches on the control panel are in the "0" (stop) position.
- Make sure to connect the "+" connector of the battery cable to the positive terminal of the battery. Don't use gang to judge the polarity of the battery
- Follow these instructions carefully as a short circuit between the battery electrodes may cause the battery to explode.
- Use appropriate equipment to lift and install batteries.
- The positive and negative connectors of the battery are of different diameters.
- Do not overdischarge the battery, or it will be irreparably damaged.

Select the battery charger

Make sure the charger is suitable for the battery to be charged:

Operating instruction

Power display switch button figure: remaining power can be displayed under working state.



Operating panel diagram :



Brush plate motor button: run the brush motor, stop the brush motor.

Water switch button: according to the ground material switch water switch wash.

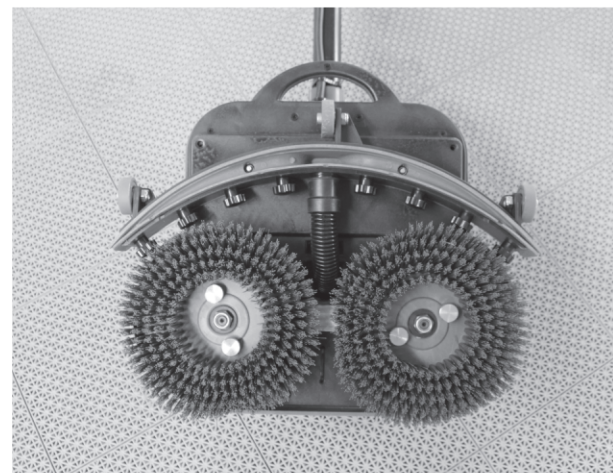
Water absorption motor button: press the running water absorption motor, stop the water absorption motor.



Clean water tank: The water tank located in the rear side of the machine is a clean water tank, the solvent is 4.5L, like the outsideFace pull can take off the clear water tank, as shown in the picture above, take off the clear water, open the blue lid can addClean water, such as stains and oil stains on the ground, can be adjusted in proportion to the price of cleaning agents, such as in the water tankAdd detergent, please note, be sure to add foaming agent in the sewage tank, so as to avoid sewage into water absorptionMotor, causing unnecessary damage to the suction motor;

Sewage tank: The water tank located in the front side of the machine is the sewage tank, the solvent is 7.5L, the water level is toWhen MAX is reached (5L), loosen the rear knob of the handle (as shown in the picture above) and pull outwards to the side to take itTake down the sewage tank, as shown in the picture above, take down the sewage tank and open the blue lid to pour out the sewage; Such asCleaning agent has been added to the cleaning tank. Please note that defoaming agent must be added to the sewage tank to avoid foulingWater into the absorbent motor, causing unnecessary damage to the motor.

Sewage tank level indicator: The sewage inside the sewage tank should not exceed the highest level on the side of the sewage tankBlue liquid level line.



Installation and adjustment of absorbent steak: absorbent steak is the first process to dry the ground. Absorbent steak has been installed on the machine when leaving the factory, without installation and adjustment ;

- Pay attention to whether the suction pipe is correctly inserted into the middle ring of the suction scraper protrusion.
- Loosen the knob inside the absorbent strip in turn to replace the rubber strip.
- After replacing the rubber strip, lock the knob of the absorbent claw.

Absorbent strips suck up water and detergent from the floor, making basic preparations for complete drying of the bottom plate. After a long time, the corner of the absorbent strip in contact with the ground will become round or break, reducing the effect of absorbent. This is when the rubber strip needs to be replaced. Always check the strip for wear.

In order to achieve the best absorbent effect, absorbent steak must be adjusted to such a state :

When working, the absorbent rubber strip at the back is bent at a 45 degree Angle with the ground, and the rubber strip is in close contact with the ground. If the rubber strip is worn in working condition, replace the original rubber strip.

To move the machine when it is not working, follow these steps to move the machine :

- Lift the chassis of the phone and land the chassis support wheel.
- Hold the upper handle with one hand and lift the upper handle of the chassis with the other hand. Please carry the machine with both hands to avoid damaging the machine and causing unnecessary losses.
- When you arrive at your destination, put it in a safe position and start working.

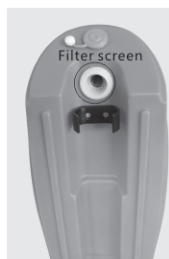
Replace or replace the absorbent rubber strip :

- Pull the suction pipe soft from the suction bar ;
- Loosen the 8 knobs on the inside of the absorbent bar and remove the absorbent bar press plate from the absorbent bar mounting frame ;
- Loosen the latch of the suction rubber strip ;
- Pull the rubber strip out of the absorbent rack and remove the absorbent rubber strip ;
- Replace the new strip and install the new strip on the absorbent grill ;
- Align the strips with the screws on the absorbent rack and push them inward ;
- Fasten the locking knob of the rubber strip.

Daily maintenance

Daily maintenance

- After the daily cleaning, please do the following maintenance :
- Disconnect the power to the machine.
- Empty and clean the sewage tank.
- Clean the absorbent rubber strip and check the degree of wear.
Replace the tape if necessary.
- Check whether the suction tuyere of the absorbent grill is blocked.
Clean up the garbage inside.



Weekly maintenance

- Clean the float switch in the sewage tank and make sure it works properly.
- Clean the filter screen of the suction motor and check whether there is any damage.
Replace if necessary.
- Clean the water in the water tank and clean the filter. Check for damage. Replace if necessary.
- Cleaning suction pipe.
- Clean water tank and sewage tank.

Semi-annual maintenance

- The circuit is checked by a professional.



GGM Gastro International GmbH
Weinerpark 16
D-48607 Ochtrup

www.ggmgaastro.com info@ggmgaastro.com
+49 2553 7220 0