VEVOR

Upgrade · The Home Creator Way

JR-600(NA)

JR-600(EU)

JR-600(AU)

VEVOR Support Center

Pipe Drain Cleaner Machine

Model: JR-600

VEVOR | Upgrade
The Home Creator Way

Model: JR-600



This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

INTRODUCTION

Thank you for purchasing our products. Committed to providing customers with the best quality products and service has always been our lifelong goal. Before using the product, please read this instruction manual carefully to ensure correct use. Keep the instruction manual in a place where the user can find it at any time.

SAFETY INSTRUCTIONS

Safety symbols and warning words are used to convey important safety information in this operator's manual and on the machine. This section will help you improve your understanding of these safety symbols and warning words.

⚠This is a safety alert symbol used to remind or warn you of potential danger or personal injury. Please follow all safety instructions to avoid possible injury or death.

⚠DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠Caution indicates a hazardous situation which, if not avoided, may result in moderate or minor injury.

NOTICE Attention indicates information related to protecting property safety.


This symbol indicates that you should read the operator's manual carefully before using the machine. The operator's manual contains important safety information and correct operating methods.


This symbol indicates that safety glasses with shields and eye protection should be worn at all times when using the machine to reduce the risk of eye injury.


This symbol indicates the danger of hands, fingers or other parts of the body becoming entangled in the wire rope of the drain cleaner.

 This symbol indicates a risk of electric shock.

This symbol indicates the risk of becoming entangled in belts and pulleys.

Safety Tips

warn!

Please read all safety precautions and instructions carefully. Failure to follow these safety instructions may result in

could result in electric shock, fire, or serious personal injury.

Please keep these safety precautions and safety instructions in a safe place.

Workplace Safety Considerations

1. Keep the workplace clean, tidy, and well-lit. A cluttered and dim environment can easily lead to safety accidents. Prevent fires.

2.Do not operate power tools in flammable or explosive environments, such as in the presence of flammable or explosive liquids, gases, or dust. Power tools may generate sparks that may ignite these dusts or gases.

3. When operating the machine, keep irrelevant personnel (including children, bystanders, non-workers, etc.) away from the work site. Irrelevant interference will affect your correct use of the tool.

Electrical safety

• Grounded tools should be plugged into a properly grounded outlet. Never change the plug or use any other adapters. If you suspect the outlet is not grounded, have it checked by a qualified electrician. If an electrical fault occurs, the grounding provides less resistance, allowing the current to flow directly to the ground rather than through the operator.

• Avoid contact with grounded surfaces such as metal pipes, radiators, metal cabinets, and refrigeration equipment. Contact with grounded surfaces increases the risk of electric shock.

• Do not expose power tools to rain or moisture as this increases the risk of electric shock.

• Do not damage the power cord at the power strip. Do not use the power cord to drag or pull a power tool. Keep the power cord away from heat, oil,

sharp edges, or moving objects. Damage to the power cord or entanglement with other objects increases the risk of electric shock.
• Use a power strip suitable for outdoor use, such as one marked with the “WA” or “W” symbol. This will reduce the risk of electric shock.

Personal safety precautions

1. When using power tools, maintain a clear mind and focus on the task at hand. Do not use power tools while fatigued or under the influence of drugs, alcohol, or other drugs. A moment's inattention can result in serious injury.
2. Dress appropriately. Do not wear loose clothing or jewelry. Keep your clothing, hair, and gloves away from moving parts. Loose clothing, jewelry, and long hair can easily become caught in moving parts.
3. Do not turn on the power tool unconsciously. Make sure the switch is turned off before plugging it into the socket. When you are carrying a power tool and your finger accidentally touches the switch to turn it on, it may cause a safety accident.
4. Any adjustment tools, such as wrenches, etc., must be removed before the machine is started. These tools can be caught in the moving parts of the machine, which is very dangerous and can easily cause personal injury.
5. Keep your body balanced and do not lose your balance when operating the machine. This will help you better control the tool in unexpected situations.
6. Use personal protective equipment (PPE) correctly and always wear safety glasses. PPE includes dust masks, non-slip safety shoes, hard mats, or thermal protection. Proper use of these protective equipment will reduce the occurrence of personal injury accidents.

Tool use and maintenance

1. Don't overuse tools. Use them for the job they were designed for. Choosing the right tools for the job you're designing will yield twice the result with half the effort and is safe.
2. If the machine's switch does not work properly, stop using the machine. Any equipment with a non-working switch is dangerous and must be repaired immediately.
3. Always disconnect the power cord before adjusting the tool, changing

accessories, or storing it. These measures can prevent the risk of accidentally starting the tool.

4. When storing power tools, be careful not to let unauthorized persons, especially children, get to them. Power tools are very dangerous for trained personnel.

5. Carefully maintain the tool to ensure the cutting edge of the dredging head is sharp. Proper maintenance and keeping the cutting edge sharp can reduce the cable tangles and make it easier to control the cable.

6. Check the tool regularly for incorrect positioning of moving parts, damaged components, or other damage that may affect the tool's operation. If any damage is found, repair it before use. Many accidents are caused by improper maintenance of tools.

7. Use only recommended accessories. An accessory that is suitable for one tool may be dangerous for another.

Serve

• Machine maintenance services must be provided by personnel who have passed the manufacturer's assessment, otherwise injury accidents may occur.

• Please strictly follow the instructions in the operating manual to use the machine and replace the accessories according to the manufacturer's instructions. Otherwise, electric shock or injury may occur.

• Disconnect all power connections before performing maintenance work to avoid electric shock and accidental start-up operations. Other safety precautions

warn!

This section contains important safety information for this tool.

Please read these safety information carefully before using the drain cleaner.

Electric shock, fire or serious personal injury may occur. Please keep these safety instructions carefully!

Safety in using a drain cleaner

1. Please wear the leather gloves . Do not wear rags or cotton gloves to hold the dredging cable. This may cause you to be caught in the dredging cable and cause injury.

2.Do not operate the machine with the belt protection cover removed. Your fingers may be caught in the belt and pulley and be injured.
3. Do not allow the dredging head to stop rotating while the machine is running. This will cause excessive stress on the wire rope, resulting in torque, knots or even breakage, which may cause serious injury.
4. Use gloved hands to operate the wire rope so that your hands can feel the movement of the wire rope, thereby preventing the wire rope from torqueing, knotting, or even breaking, etc., and avoiding injury accidents.
5. The machine should be two feet away from the pipe inlet. Too much distance will cause the wire rope to twist and kink.
6. The machine is designed for single-person operation. The operator can control the foot switch and cable by themselves. Once the dredging head stops rotating, the machine must be stopped to prevent the cable from torqueing, tangling, or even breaking, which could cause injury.
7. Do not operate the machine in reverse unless specifically mentioned in the manual. Reversing can easily damage the wire rope, which is usually used to push the dredging head out of the blockage.
8. Do not touch the moving cable drum and guide tube with your hands. Do not reach into the drum unless the plug is unplugged and the machine is stopped. Otherwise, your hands may be injured by the rotating parts.
9. Do not wear loose clothing or jewelry, and keep your hair and clothing away from moving parts. Loose clothing, jewelry, and hair can easily be caught in moving parts and create danger.
10. Wear appropriate personal safety equipment when operating and using a drain cleaner. Sewers often contain hazardous substances that can be harmful to the human body. Appropriate personal safety equipment includes safety glasses, gloves, and any other safety equipment such as a face mask, rubber gloves, protective blankets, steel-toed boots, etc.
11. Maintain personal hygiene, wash your hands and other parts of your body with hot soapy water, and do not eat or drink while doing the dredging work to avoid inhaling toxic substances.
12. Do not operate the machine in water or place it in water for use, as this will increase the risk of electric shock.
13. Follow the operating specifications to clear the pipes that match the

machine's working capacity. Any other changes to the machine's use will increase the risk of various dangerous accidents.

SAVE THIS MANUAL

Product overview, technical parameters and standard configuration

The dredging machine with the corresponding steel cable can dredge pipes with a diameter of 4 〃-8 〃.
Drum can accommodate a 3/4〃×100-feet steel cable.

Tool List



Olive style rotary drill | Shovel type cutting drill | C-type cutting drill | Arrow cutting drill

Olive style rotary drill	The most commonly used cleaning head is suitable for pipes and drainage pipes with tight or multiple bends. Piercing or drilling through obstacles caused by textiles, paper, fiber materials, kitchen oil stains, etc
Shovel type cutting drill	Suitable for removing oil stains and residues on pipe walls
C-type cutting drill	Used for cutting and removing hard obstacles or removing sludge deposits
Arrow cutting drill	Used to clean blockages such as tree roots, branches, debris, or oil in pipelines



Application range

Drum-type drain cleaners can be used to unclog pipes of corresponding sizes. If the pipe design, construction, and installation are sound, and the blockage is not severe , then using it is effective and will not damage the machine. It is recommended to use a pipe endoscope to assess the extent of the blockage before attempting to unclog the pipe (this product is not recommended for stubborn blockages such as tree roots, cement, rebar, or sand) . Drum-type drain cleaners cannot unclog all blockages.

Assembly steps

1. Installation of Wheels: Remove the machine, wheels, and wheel shafts from the cardboard box. Extract the flat washers and pins for wheel installation from the accessory pack. Pass the wheel shaft through the

rear-mounted hole in the frame, then install a washer at each end. Mount a wheel on each end with its protruding side facing inward. Secure both ends with a pin each. Finally, tilt the open end of each pin to prevent the wheel from falling off. (As shown in the diagram)

2.

(1) Install the wheel shaft into the mounting hole of the frame.



(2) Gaskets are installed at both ends of the wheel shaft.



(3)The hollowed-out wheel surface is installed at both ends of the wheel shaft



(4) Install gaskets on the outside of each wheel



(5) Tighten the nut on the outer side of the gasket, and use a wrench to clamp the nuts at both ends of the main body and tighten them.





Machine inspection



Before using the machine each time, please check the machine according to the following steps to avoid unnecessary accidents, such as electrical Hit, cable twisted, broken, etc.
Always wear safety glasses, drain cleaner gloves, and other appropriate protective gear, such as chemical protection, liquid-resistant gloves worn over drain cleaner gloves, etc.

1. Check the gloves used for the dredging machine to make sure there are no damage, wear and loose parts, otherwise these parts can easily get caught in the wire rope and cause danger. Gloves can protect your hands from being injured by the rotating wire rope. If the gloves are damaged, worn or have loose parts, please replace them with new gloves before using the dredging machine.
2. Check the power cord, leakage protector and plug. If the plug is damaged, deformed or missing the grounding head, or the wire is damaged, please replace it immediately and stop using the machine.
3. Clean the oil, grease and dust on the handle and control parts, which can reduce the occurrence of various hazards and facilitate control. machine.
4. Make sure there is a foot switch and it is correctly connected to the machine. Do not use the machine without the foot switch.
5. Check if the machine is assembled correctly. Check if any moving parts are in the wrong position, or if any parts are damaged or other
If there is any damage that may affect the normal use of the tool, please make sure to repair it before use.
6. Check that the warning labels on the machine are attached to the machine and are clearly readable. Do not operate the machine without the warning labels.
7. Check that the belt guard is securely installed and functioning. Do not operate the machine with the belt guard missing.
8. Clean the debris from the dredging head and the cable, and check for wear or damage.
The inspection includes:
• Wear - The cable is made of round steel wire. If the outer circle becomes

flat, it is severely worn and needs to be replaced.
• Cable kinks — A cable that is not perfectly straight and has slight bends is acceptable. A kink indicates a bent cable with wide gaps between loops. Bends less than 15° can be straightened. However, any kinks in the cable will accelerate cable damage. Therefore, any severe kinks should be replaced immediately.
• Gap between wire rope loops - If the gap is greater than 3mm, it means the wire rope is deformed, which is caused by twisting, knotting, stretching or machine reversal. If the gap is greater than 3mm, the wire rope should be replaced immediately.
• Corrosion – This is caused by the wire rope being stored in a humid environment or being attacked by chemicals.
This will damage the cable and should be replaced immediately.
All of the above factors can cause the cable to twist, knot or break. Make sure the cable is fully returned to the outside.
Do not expose more than 2 inches of the wire rope to avoid whipping people when starting the machine and causing injuries.
9. Check whether the edge of the dredging head is sharp, otherwise you need to replace the dredging head with a sharp edge.
The dredging effect causes the steel cable to bend, knot, or even break.
10. Make sure the switch is in the OFF position.
11. Insert the plug into the socket with dry hands. To reduce the risk of electric shock, make sure all electrical connections are
Keep all parts dry and off the ground. Do not touch them with wet hands.
Make sure the wires have leakage protection and are functioning properly. When the test button is pressed, the indicator light will go out. Press the reset button to reset the system. If the indicator light comes on, the machine is ready for use. If the function fails, stop using the machine.
12. Put the switch in the forward (CW) position, press the foot switch, and check the direction of rotation of the cable drum.
If the switch does not work, have it repaired and do not use the machine.
The cable drum should rotate clockwise when viewed from the front of the machine. This can be seen on the machine's warning label and the arrow marking on the drum. Release the foot switch to stop the machine. Set the

switch to reverse (CCW) to determine the direction of rotation of the cable drum. If the cable drum is not rotating in the correct direction, stop the machine and have it repaired.
13. After the inspection is completed, turn the switch to OFF and unplug the power cord with dry hands.

Machine and work area setup

Always wear safety glasses, drain cleaner gloves, and other appropriate protective gear, such as chemical protection, liquid-resistant gloves worn over drain cleaner gloves, etc.
Before each use of the machine, follow the steps below to set up the machine and work area to avoid unnecessary accidents.
occur:
1. The workplace should meet the following requirements:
• Adequate lighting.
• No flammable or explosive gases, liquids or dusts.
• The working area should be dry, level and stable. Do not support the machine in a water area and the operator should not stand in water.
• Socket with protective earthing.
• Clean the area where the wires pass and make sure there are no substances that can damage the wires, such as heat sources, grease, sharp objects or other moving objects.
• The path for transporting the machine to the work site must be clear.
2. Check the pipe to be cleared, if possible, find the starting point, the elbow, the clearing distance, the distance to the main pipe, and the distance to the main pipe.
Distance and blockage conditions, chemicals, etc. If chemicals are involved, understand their composition, safety precautions, etc., and contact their supplier if necessary. If necessary, remove facilities such as water basins that may interfere with the operation of the dredging machine and damage the wire rope.
3. Confirm that the machine has been inspected.
4. If necessary, you can lay a protective mat on the ground because the dredging operation is very dirty.

5. When carrying the machine, use normal routes, ensuring the handles are upright and securely fastened. If lifting the machine vertically, use correct posture and movements. If carrying the machine up stairs, be careful not to fall, and wear appropriate protective shoes.
6. The machine should be two feet away from the inlet. Too long will cause the cable to twist and tangle. If this is not practical, you can use a pipe of appropriate size to connect to the inlet, and then the cable will enter the pipe through the extension tube to clear the pipe . Improper cable protection measures may cause the cable to twist, tangle or even break, or injure the operator.



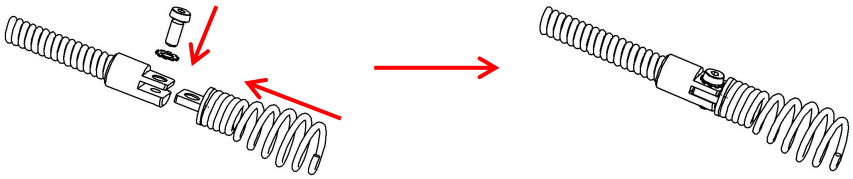
Figure 1 (The image is for reference only and may differ from the original appearance)

7.Make sure the rubber blocks at the bottom are in contact with the ground to increase the stability of the machine.
8. There are no obstacles in the inspection work area and no unauthorized personnel in the work area.
The operator will be disturbed by the personnel.
9. Choose the right dredging head. If you don’t know the situation of the blockage, choose an olive-shaped dredging head to judge the
Once you know the condition of the blockage, choose the appropriate dredging head.
10. The blockage should be removed, and then the pipe should be

completely cleared with a large-sized dredging head. The largest size of the dredging head should not exceed the inner diameter of the pipe minus Remove the 1 inch value.

The choice of dredging head depends on the condition of the pipe to be dredged and the judgment of the operator.

11. Install the dredging head.



Insert the cleaning head into the spring connector slot and screw in the M6 screws to install the effect.

12. Place the foot switch for easy operation and the CW /OFF/ CCW switch for easy operation.

13. Make sure the CW /OFF/ CCW switch is in the OFF position.

14. Insert the plug of the drain cleaner into the socket and check that the place where the wire passes through has been checked according to the above method.

If it is not long enough, you can use a terminal block that meets the requirements.

• Use a three-prong plug. Refer to the previous section on electrical safety.

• Check that all electrical equipment components are intact.

• The electrical wires meet the standards for outdoor use.

• Ensure the wires are of sufficient diameter (18AWG or 3 x 0.75 in). If they are too small, the wires may overheat, melting the insulation and potentially burning nearby objects. When using a power strip, ensure it has a leakage protection feature. The machine's leakage protection feature does not protect the operator from electric shock from the power strip. If the power strip does not have a leakage protection feature, it is best to use a plug with a leakage protection feature to reduce the risk of electric shock.

Steps



Please wear the gloves provided. Do not use cloth gloves or other loose cloth to hold the dredge rod, as this may cause
Involved and hurt.
Wear safety glasses to protect your eyes from dust and foreign matter.
Wear non-slip shoes with rubber soles.
If the pipeline contains chemicals, please wear appropriate protective equipment, such as masks, respirators, etc. Additional chemicals
Protective equipment also includes liquid isolation gloves, etc. Rubber non-slip boots can prevent slipping and electric shock, especially in wet conditions.
More practical in the environment.
Follow the procedures in this manual to reduce the risk of injury from wire rope twisting, breaking, whipping, machine tipping, chemical burns, or other It causes the harm.
1. Ensure that the work area and machine are set up correctly and no unauthorized personnel are in the work area.
2. Pull the cable out of the drum and extend it into the pipe as far as you can. Make sure at least 1 foot of cable is in the pipe.
This will prevent the wire rope from being thrown out of the pipe after startup and causing whiplash injuries.
3. Correct operating posture:
The foot pedal can be used to operate the airbag switch , and you can quickly step off it ; do not put your foot completely on it.
sure you can maintain good body balance.

the steel cable and feel its movement.
It can control the CW / OFF / CCW switch .
Please see the example of the correct operating posture.



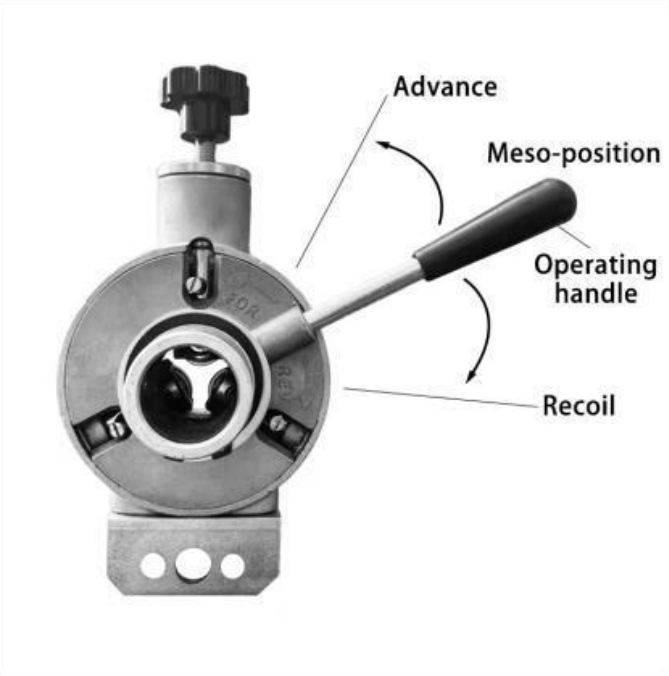
Image — Example of correct operating posture

4. Set the switch CW / OFF / CCW to the CW position. Do not step on the foot switch . CW / OFF / CCW only indicates the direction of cable rotation, not its direction of movement. Do not set the switch to the CCW position , as this will damage the cable unless under specific circumstances .

Automatic cable advance

with your gloved hand (purchased separately) . You must use your gloved hand to control and support the cable. Incorrect handling will cause… The cable may become knotted, twisted, or damaged, or injure the operator. Use your other hand to operate the automatic feed handle. The handle should initially be in the neutral position , as shown in the diagram. When the handle is in this position, the spring will neither move forward nor backward during machine operation. When the switch is in the CW position, the Torx screws on the automatic cable feed device need to be tightened until the spring cannot be pulled out. Pushing the automatic cable feed

handle to the left until it cannot be pushed further is the forward position, and pushing it to the right until it cannot be pushed further is the reverse position (as shown in the diagram).



picture-Automatic cable feed device handle position (viewed from the front of the machine)

Start inserting steel cables into the pipe

1- foot-long steel cable in the pipe , then step on the foot switch and slowly push the steel cable into the pipe by hand. The machine should be operated by one person. Never have one person step on the foot switch while another person operates the steel cable. Doing so will cause the steel cable to twist, get knotted, or break, resulting in an injury accident.

Steel cables often have difficulty navigating bends or water traps. The following techniques can be used:

The first method: With the cable spinning or stationary, forcefully push the cable downwards; this can help clear the blockage . By bend.

The second method: When the cable has already traveled a long distance,

you can reverse the direction for a few seconds to feed the cable through the bend.
The third method: Use a spring-loaded cutter, which makes it easier for the cable to navigate curves .
The last method: Please use a smaller diameter steel cable, or a more flexible steel cable, or other types . No. 1 dredging machine.

Unclogging pipes

Using a gloved hand (sold separately) , pull a 6-12 inch long steel cable out of the drum and manually guide it into the pipe, keeping one hand on at all times. The hand is manipulating the steel cable. If you feel the cable slowing down or deforming, it may have encountered a bend or other problem. If the water trap is clogged, do not allow the steel cable outside the pipe to accumulate too much, as this can cause knots, twisting, or even... Until it breaks.
Note the length of the steel cable entering the drain pipe; the cable should either be inserted into a larger drain pipe or switched to a smaller pipe. This can easily cause the steel cable to tangle and prevent the cable from slipping out of the pipe. Minimize the impact of the cable passing through pipes of varying sizes. The problem that arose.
(Note: The machine should be placed no more than two feet from the pipe inlet. Excessive cable length outside the pipe can cause it to twist and knot. If this is not feasible, a suitably sized pipe can be connected to the inlet, and the cable can then be inserted into the pipe through an extension pipe to clear the blockage.)

Unblock

If the drain plug gets stuck in the blockage and can't rotate, the cable will twist because the machine is still running. It's getting worse. This requires pulling the cable back to allow the unclogging head to come out and release the stress on the cable . Do not... This causes the drain head to stop rotating, while the machine continues to run, causing the steel cable to twist.
Once the blockage is cleared, retract the drain nozzle and let it rotate

within the blockage to continuously break it up until the nozzle can bend and rotate freely.

Once the blockage is cleared, the steel cable and drain plug may become clogged with debris, affecting normal operation. In this case, the steel cable needs to be returned. Clean up this trash (see the section on recycling steel cables).

Unclogging drain plug

If the drain nozzle gets stuck in the blockage and cannot rotate or retract, release the foot pedal and hold the steel handle with both hands. Otherwise, the cable will become knotted, twisted, and break. At this point, the motor stops, and the stress drum on the cable rotates to release the stress. Apply stress until the stress in the steel cable is completely released, then release both hands and turn the switch CW / OFF / CCW to OFF. If the drum stops rotating , the cable and the drain head will also stop rotating .

Release the drain plug from the blockage

When the drain plug gets stuck in the blockage, turn the CW / OFF / CCW switch to OFF. With the switch off, release the foot pedal and try to pull the cable out of the obstruction by hand . If you cannot pull it out, switch to CW / OFF / CCW. Set the cable to the position opposite to the direction indicated by the arrow on the drum . Hold the cable with both hands, press the foot pedal, and turn it for a few seconds to retract the cable. Do not retract the drain head before continuing to use the position opposite to the direction indicated by the arrow on the drum . This will damage the steel cable . Move the gear to the position indicated by the arrow on the drum and continue working.

Recycle steel cables

Once the pipes are completely cleared, water can be used to flush away the blockage, but be aware of changes in the water flow, as it may... This will cause the pipes to become blocked again.

As water flows through the pipes, the steel cable can be retrieved. With the CW /OFF/ CCW position aligned with the direction indicated by the drum arrow , do not reverse the direction while retracting the cable . Use both

hands to retract the cable into the drum , retracting approximately 6-12 inches at a time . The water flow from the drain can also wash the cable . Continue retracting the cable. When the drain plug is almost out , release the foot pedal to stop the drum from rotating . Do not allow the machine to rotate and then pull the drain plug directly out of the pipe, as this will cause whiplash injury.
the switch to the OFF position, unplug the plug, pull the remaining steel cable out of the pipe , and insert it into the drum . If necessary , replace the drain plug and continue with other work . It may take several attempts to completely clear the blockage. pipeline.

Maintenance Guide
Before performing maintenance and adjustments on the machine, ensure that the machine switch is in the off position and the plug is unplugged from the socket. Safety glasses and drain cleaning machine gloves are always worn during maintenance work.

Steel cable maintenance
After use, rinse the steel cable with clean water. To prevent corrosion from various substances inside the pipe , after the steel cable is dry and clean, apply rust inhibitor for maintenance , then coil it back into the drum. You can wipe off any excess rust inhibitor with a cloth . Do not apply rust inhibitor to the rotating steel cable , as the rotating cable will hurt your hands and the rust inhibitor will spill everywhere.

Machine cleaning
You can clean the machine with hot soapy water, but do not let water get into the motor or other electrical components. Make sure the machine is completely dry before plugging it in and using it .

Machine lubrication
When removing and replacing the cable drum, the bearings need to be lubricated.
Storage environment of the whole machine

When the machine is not in use, it should always be stored in a dry, well-ventilated environment free of corrosive gases.

Replace steel cable

Before changing the steel cable , ensure that the machine switch is off and the plug is unplugged . Always wear special gloves (which must be purchased by the user) while working .

Remove the damaged or worn steel cable

1. Pull the remaining steel cable out of the drum .
2. Loosen the pressure plate screws at the end of the steel cable fixing at the bottom of the drum , remove the damaged long spring, and pull it all out of the drum .

Install new steel cable

1.Remove the new cable: The cable is elastic and may injure the operator . Carefully remove the cable packaging. To make the cable installation easier, completely unwrap the new cable coil .

2.Secure the new steel cable: Insert one end of the steel cable tubular connector into the drum through the cap-shaped part hole at the front of the drum, and fix the tubular connector at the end of the steel cable to the original position of the steel cable at the bottom of the drum; be sure to tighten the two screws that secure the steel cable, and press the pressure plate to compress the spring .

3. Push the steel cable into the drum with your hands (always wearing gloves). The steel cable should be coiled counterclockwise (as shown in the figure, which is a general figure and the operation method is the same)

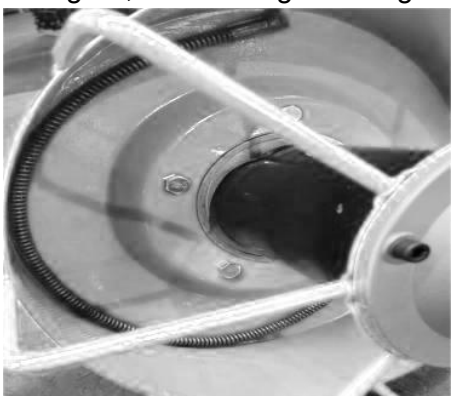


Figure 1 — The direction of the steel cable winding inside the drum (the winding direction is difficult to see on a plastic drum, so an open drum is used for demonstration).

5. Coil all the steel cables into the drum , making sure the female end of the cable with the cutter attached is sticking out .

Machine storage requirements

Motor-driven electrical equipment and cables should be stored indoors and protected from rain. The machine should be locked up and stored to prevent access by untrained personnel or children. This tool can cause serious injury to untrained personnel.

Troubleshooting

question	reason	Workaround
The cable is tangled or broken	Excessive force on the cable.	Do not force the cable, let the dredge head work normally.
	The cable does not match the pipe size.	1/2 ″ fits 2″ to 6″ pipe. 3/8 ″ fits 2 ″ to 4 ″ pipe.
	The motor rotates in reverse.	The reverse function is only used when the dredging head is stuck in the blockage.
	The steel cables were corroded by acid.	Clean and lubricate the cables regularly.
	The steel cable is badly worn.	Replace the cable with a new one.
	The cables are not properly supported.	Support the wire rope correctly; refer to the operator's manual for

		instructions.
When the foot switch is pressed, the drum does not rotate. When it is pressed again, it restarts.	There is a problem with the pedal or hose.	Replace defective parts.
	The switch is faulty.	Replace the switch.
The drum can only rotate in one direction.	The reversing switch is faulty.	Replace the switch.
When the power is plugged in or the foot switch is stepped on, the grounding protection is disconnected. open.	The power cord is damaged.	Replace with new wires.
	Motor short circuit.	Go to a professional repair center for repair
	There is a problem with the ground protection circuit breaker function.	Replace the electrical wiring and ground loop disconnect device with new ones.
	The motor is damp, the switch box or the plug is broken.	Go to a professional repair center for repair.
The feed mechanism does not work.	The cable feed mechanism is not cleaned and is clogged with impurities.	Disassemble the cable feed mechanism every month for cleaning.
	The cable feed mechanism is not lubricated.	Perform lubrication maintenance every week.
The machine shakes or moves	The cable is not fed evenly.	Advance the rope evenly.
	The rubber block of the handle does not	Lower the handle to the lowest position.

while working	touch the ground.	
	The ground is uneven.	Place on flat ground.
The motor turns, but the cable drum does not move.	The wire rope is subjected to excessive force, exceeding the torque limit setting value and causing slippage.	Do not overload the cable.
	The belt is not on a cable drum or pulley.	Reinstall the belt.

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