

VEVOR[®]

TOUGH TOOLS, HALF PRICE

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DRAIN CLEANER

MODEL:GQ-160

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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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.

INSTRUCTIONS

Preface

First of all, let us express our heartfelt thanks to our customers who have purchased our equipment. This manual is for customer service to make better use of this equipment. We hope the company's products and services will bring you the same courtesy.

Important reminder

For your own safety, before assembling and using such products, you must first read this manual to clarify the unique operation, application, and possible problems of this equipment.

Safety signs:

In this operating manual and on the machine, safety symbols and warning words are used to convey important safety information. This section will help you enhance your understanding of these safety symbols and warning words.



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



A warning indicates a dangerous situation that, if not avoided, may result in death or serious injury.



Be careful, it indicates a dangerous situation. If it cannot be avoided, it may lead to moderate or minor injuries.



Note that it represents information related to protecting property safety.



This symbol indicates that before using the machine, please read the operating manual carefully. The operation manual contains important safety information and correct operating methods.



This symbol indicates that when using the machine, please always wear safety glasses with protective plates and eye protection functions to reduce the risk of eye injury.



This symbol indicates the danger of hands, fingers, or other body parts getting caught in the cable of the dredging machine.



The symbol indicates the danger of having an electric shock.



The symbol indicates the danger of being involved in the belt and pulley.

Safety Instruction

Please read all the safety precautions and safety instructions carefully. Failure to follow these safety instructions may lead to shock, fire or serious injury. Please properly keep this safety precautions and safety guidance.

Workplace safety precautions

1. Keep the workplace clean and fully lit. Chaos and dark environment are easy to cause safety accidents. Fire should be prevented.
2. Do not operate electric tools in dangerous environments such as flammable and explosive, such as flammable and explosive liquids, gases or dust. Power tools may create sparks that can ignite the dust or gas.
3. When operating the machine, keep the irrelevant personnel (including children, bystanders, non-staff, etc.) away from the work site. Unrelevant interference can affect your proper use of the tool.

Electrical Safety

- Tools with grounding protection should be inserted into sockets that comply with grounding regulations. Do not change the plug at any time and do not use any other adapter. If you suspect that the socket does not have grounding protection, then you should ask a qualified electrician to inspect it. If an electrical fault occurs, grounding protection will provide a smaller resistance, allowing the current to directly enter the ground without passing through the operator themselves.
- Tools with grounding protection should be inserted into sockets that comply with grounding regulations. Do not change the plug at any time and do not use any other adapter. If you suspect that the socket does not have grounding protection, then you should ask a qualified electrician to inspect it. If an electrical fault occurs,

grounding protection will provide a smaller resistance, allowing the current to directly enter the ground without passing through the operator themselves.

- Do not expose power tools to rain and humidity, which will increase the risk of electric shock.
- Do not damage the wiring board power cord. Do not use the power cord to drag or pull the power tool. Keep the power cord away from heat, oil, sharp edges, or moving objects. Damaged power cord or involvement in other objects increases the risk of electric shock.
- Do not damage the wiring board power cord. Do not use the power cord to drag or pull the power tool. Keep the power cord away from heat, oil, sharp edges, or moving objects. Damaged power cord or involvement in other objects increases the risk of electric shock.

Personal safety precautions

1. When using power tools, keep a clear head and pay attention to the work at hand. Do not use power tools when you are tired or under the influence of drugs, alcohol or drugs. If in the use of a careless, it will lead to more serious injury accidents.
2. Dress up correctly. Do not wear loose clothes or wear jewelry. Keep your clothes, hair and gloves away from moving parts. Loose clothes, jewelry, and long hair are easy to get involved in moving parts.
3. Do not unconsciously start the machine, make sure the switch is off before inserting into the socket. When you carry a power tool, fingers accidentally touched the switch in the boot state, will lead to a safety accident.
4. Any adjustment tools, such as wrenches, should be cleaned up before the machine starts. These tools are very dangerous when involved in the moving parts of the machine, which are easy to cause personal injury accidents.
5. Keep your balance and don't lose your balance while operating the machine. This will give you a better control tool in unexpected situations.
6. Use personal protective equipment correctly and always wear safety glasses. Personal protective equipment includes dust masks, anti-skid safety protective

shoes, hard cushions or thermal protective devices. Appropriate use of these protective equipment will reduce the occurrence of personal injury accidents.

Use and maintenance of the tools

1. Do not overuse the tools, and do the corresponding work according to the purpose of the tools. Reasonable selection of tools to complete the work according to its designed purpose will produce twice the result with half the effort, and it is safe.
2. If the switch of the machine does not work properly, then stop using the machine. Any equipment whose switch does not work is very dangerous and must be repaired immediately.
3. The power supply must be disconnected before adjusting the tools, replacing the accessories, and storing them. These measures may prevent the risk of accidentally starting the tool.
4. Be careful not to store power tools for irrelevant people, especially for children. Because power tools are very dangerous for trained people.
5. Carefully maintain the tools to ensure that the head and blade is sharp. Proper maintenance and keeping the blade sharp can reduce the knots and easily control the cables.
6. Check the tools regularly to see whether the position of the moving parts is not correct, the parts are damaged or other damage that may affect the normal use of the tools. If so, be sure to repair them before use. Many accidents are due to the improper maintenance of the tools.
7. Please use only the recommended attachments. Accessories suitable for one tool can be dangerous for another tool.

Serve

- The machine maintenance service must be provided by the personnel who pass the assessment of the manufacturer, otherwise the injury accident will occur.
- Please strictly follow the instructions of the operation manual to use the machine and replace the accessories specified by the manufacturer. Otherwise, it will lead to an electric shock or an injury accident.

- Cut off all power connections before maintenance work to avoid electric shock accidents and accidental start-up operation.

Other safety precautions warn!

This section contains important security information for this tool.

Please read the safety information carefully before using the drum machine.

Otherwise, it may cause electric shock, fire or serious personal injury accidents.

Please pay attention to save these safety instructions!

The use of the dredge machine is safe

1. Please wear the operation gloves provided randomly, and it is forbidden to wear rags or cotton gloves to hold the dredging cable, so that there is the risk of being involved by the dredging cable and causing injury.
2. Do not operate the machine when the belt cover is taken away. The fingers are at risk of being involved by the belt and pulley.
3. Do not turn the dredge head around when the machine is running. In this way, the cable stress is too large and produce torque, knot and even broken, will produce more serious injury accidents.
4. Use the gloved hand to operate the cable, so that the hand can feel the movement of the cable, so as to prevent the cable torque, knot, or even broken, and so on, to avoid the occurrence of injury accidents.
5. The machine is two feet away from the pipe inlet. Too large distance can cause the cables to twist and knotted.
6. The machine is designed to operate by a single person, and the operator can control the foot switch and the steel cable alone. Once the dredge head stops rotating, To stop the machine, so as to prevent the cable torque, knot, and even broken and so on, to avoid the occurrence of injury accidents.
7. Do not reverse the machine unless specifically mentioned in the manual. The als can easily damage the cables and is usually used to remove the head from the blockage.

8. Do not touch the running cable drum and guide pipe with your hands. Unless the machine stops, the hand reaches into the drum. Otherwise, the hand will be hurt by the rotating parts.
9. Don't wear loose clothes or jewelry necklaces to keep your hair and clothes away from moving parts. Loose clothes, jewelry necklaces, hair are easily involved by sports parts and produce danger.
10. When operating and using the dredging machine, please use the appropriate personal safety protection equipment. Sewers usually contain a lot of harmful substances, harmful to people's body. Suitable personal safety protection equipment includes safety glasses, protective gloves, and any other safety equipment, such as masks, rubber gloves, protective blankets, steel head boots, etc.
11. Maintain personal hygiene, wash hands and other body parts with hot soapy water, and do not eat or drink during dredging work to avoid inhaling toxic substances.
12. Do not operate the machine in the water or use it in the water, which will increase the risk of electric shock.
13. To dredge the pipes that match the working capacity of the machine according to the operating specifications. Any other use of the machine will increase the occurrence of dangerous accidents.

Product overview, technical parameters, and standard configuration

Product overview

- Suitable for clearing various types of blocked pipes inside and outside households with an inner diameter of 40-160mm.
- Can be used Φ 10mm, Φ Two sizes of springs, 22mm.
- Using Φ 10mm soft shaft, capable of cleaning pipelines with an inner diameter range of 40-75mm and a dredging length of up to 6.5m, especially suitable for complex pipelines with small diameters or backflow bends.

- Using Φ 22mm * 4.5m detachable segmented spiral elastic flexible shaft, capable of cleaning pipeline range Φ 50-160mm, the flexible shaft can be arbitrarily extended and connected, and the dredging length can reach 35m.
- Press the handle and the spring speed can reach 410-500rpm. Release the handle and the spring will stop rotating.
- Various spiral elastic flexible shafts are used to clear pipelines, all of which are manually fed with springs by hand.
- The reversible electric motor is connected to a continuously operated clutch, allowing the machine to respond quickly in any situation.

Type GQ-160 dredging machine

Pipe capacity:..... varies according to the cable

Steel cable size	caliber	Pipe length
	in.	ft. (M)
3/8" (10mm)	1.5— 2.95	21 (6.5)
7/8" (22mm)	1.9— 6	116 (35)

Motor:

Type.....115V / 60Hz, 230V / 50Hz, inverted universal phased AC motor.
 Motor speed is..... 1700r/min/1400r/min
 Spring speed is..... 500r/min/410r/min
 Output power of..... 420W

Standard Configuration

1. Operation Gloves 1 Pay 0
2. One Set Of Accessories Cylinder
3. Set Of Spring Bin With 3 / 8in Spring
4. Dredge The Head 1 Set
5. Diameter 7 / 8in Dredge Spring 2 Disc

Applied range

The type 160 dredging machine can be used to dredge the pipe of the corresponding size. If the design, construction and installation of the pipeline are free, and the blockage is not very serious, then it is effective to work and will not damage the machine. It is suggested to use the pipe endoscope to understand the blockage inside the pipe before dredging, and then use the dredge machine to dredge, the dredge machine can not dredge all the blockage.

Machine inspection



Before using the machine, follow the following steps to check the machine to avoid unnecessary accidents, such as electric shock, cable distortion, breaking and so on.

Always wear safety glasses, gloves and other suitable protection devices, such as chemical protection, protective gloves, etc.

1. Check the gloves for the dredging machine to confirm that there is no damage, wear or loose parts, otherwise these parts are easily involved in the spring and bring danger. The gloves protect the hand from rotating cables. If the gloves are damaged, worn and loose, replace the new leather gloves to use the dredge machine .



Clear the machine with gloves-leather, PVC material

2. Check whether the cables and plugs are in good condition. If there is any damage, please replace the intact cables and plugs for use.

3. Check whether the appearance of the machine is intact, whether the parts are defective and other factors affecting safety. Please confirm that the machine can be used in good condition.
4. Clean the grease and dust on the handle to reduce the occurrence of various dangers and easily control the machine.
5. Check whether the safety mark on the machine is affixed to the machine and clearly readable. Do not operate the machine without the safety mark.(Safety identification is as shown in the figure).



6. Clean the debris on the head and cable, check whether the spring is wear or damaged, if the spring is seriously distorted or worn, stop using the scrap immediately; check the pin of the spring joint, if the spring is in danger of falling into the pipe.
7. Check whether the dredging head edge is sharp, otherwise it is necessary to replace the sharp dredging head of the dredging edge. If the dredging head is not sharp, it will affect the dredging effect, resulting in spring distortion, knot, and even fracture.
8. Lubricate the machine according to the operation manual, which can make the normal use of the machine and prolong the service life of the machine.
9. Test the machine performance: connect to the power supply, Put the switch knob to the CW and CCW gears to see if the machine can start properly, Place the switch knob in the OFF gear, Whether the machine can stop turning, If normal start and stop, Prove that the electrical part of the machine is normal, Place the switch knob in the OFF gear; Pull the spring out of the spring bin beyond the fuselage, Install the fuselage in the correct way in the operation manual, Press the clutch handle, Pull the spring hard, The spring cannot pull out, Release the clutch handle handle to bounce quickly; plug in, Place the switch in the CW position, Press the clutch handle, Spring rotation, Place the switch knob in the

OFF gear, The machine stops turning, Then put the switch knob in the CCW gear, Press the clutch handle, The spring turns in the opposite direction, And the machine makes a pure sound, Prostrate that the machine is operating properly, Otherwise the machine has a problem, Need to repair before use.

10. After inspection, put the switch in shutdown (OFF) gear and pull the plug with a dry hand.

Pay attention to:

A spring whose wear or damage, spring joint pin cannot bounce, can cause serious injury or fall into the pipe in use.

Machine and working area settings



Always wear safety glasses, dredge gloves and other suitable protection devices, such as chemical protection devices, in the dredge gloves with a layer of liquid protective gloves, etc.

Before using the machine, follow the following steps to set the machine and working area to avoid unnecessary accidents:

1. The workplace should meet the following requirements:
 - Full lighting, no flammable and explosive gas, liquid, or dust.
 - The working area should be dry and the ground is flat. Do not support the machine in the water area, and the operator should not stand in the water.
 - A socket with ground protection.
 - Clean up the area where the wire passes to ensure that there is no damage to the wire, such as heat sources, grease, sharp objects, or other moving objects.

- The path from carrying the machine to the work site should be smooth.
2. Check the dredged pipe, if possible, find the starting point, identify the elbow, the clear distance, the distance to the main pipeline and the blockage, chemical substances, etc. If there is a chemical substance, to understand its composition, and take safety protection measures and so on. If necessary, facilities such as birdbasins may be removed, which may hinder the operation of the machine or damage the cables.
 3. Select the suitable dredging equipment:

Steel cable size	caliber	Pipe length
	in.	ft. (M)
3/8" (9.7mm)	1.5— 2.95	21 (6.5)
7/8" (22mm)	1.9— 6	116 (35)

Type GQ- 160 dredging machine can not dredge the blockage of the sewage well pipeline.

4. Ensure that the machine has been checked.
5. If necessary, lay protective pads on the ground because the dredging operation is dirty.
6. Please take the usual road. If you move up the stairs, please watch the machine slip and put on the appropriate protective shoes.
7. The machine is two feet from the entrance, too long can cause cable distortion and knots. If not, it can be connected to the inlet with the appropriate size pipe and the cable through the extension pipe .Incorrect cable protection measures can cause cable distortion, knotting or even fracture, or harm to the operator.
8. Use an extension pipe to protect the steel cables
9. Dredge the head selection: the correct choice is to clean the pipe with an outer diameter of at least 1in less than the inner diameter of the pipe.
10. Access to the power supply, if the wire length is not enough, please add the extension cord.

Pay attention to:

To avoid electric shock or fire, strictly use various extension lines with the following requirements.

This cable must have a ground wire.

When used outdoors, a cable with a W or W-A identification must be used.

This cable shall have an insulation layer of sufficient thickness (16 AWG-100 feet).

Preparation work before the operation:

1. Preparation before dredging the pipe with 7 / 8 " steel cables:

(1) Check the working area:

With enough brightness.

Power outlet with grounding.

Dry and spacious sundry operating environment, no grease, sharp objects and any damage to the cable.

Avoid dredging pipes in environments with flammable liquids, dust and steam.

(2) Place the machine 1-2 feet from the pipe entrance, and excessive distance can cause wire winding.

(3) Ensure that the switch is in the OFF position

(5) Pull out a 4.5-meter long spring from the spring basket, take out the key for removing the spring from the tool kit, insert into the hole of the spring joint, push vigorously along the connection groove of the joint, and remove the spring.(as shown in the figure)



Dismantle

(5) Push the parent end of the spring from the front of the machine into the fuselage, and reserve 1 foot out of the machine.

pay attention to:

Only one (4.5 m / root) spring can be removed from the spring basket and pushed into the fuselage.

(6) . Select the appropriate dredge head, align the T-groove of the dredge head joint at the narrow end of the spring joint, push hard, make the tool quickly connected with the spring joint, check the joint to confirm the connection is tight (as shown).



2. Use a 3 / 8 " spring to dredge the pipeline before the preparation work.

- Ensure that the switch is in the OFF position.
- First, remove the plastic plug on the body



3. Pull the spring in the spring bin out about 10 inches, and then insert the spring into the machine from the end of the machine with a fixed hole, lift the pin of the spring bin parts, push the spring bin into the fuselage, drop the pin, turn the pin falls into the fixed hole of the machine.(as shown in the figure).



3. Place the machine 1-2 feet from the pipe entrance, and excessive distance can cause wire winding.

4. Ensure that the switch is in the OFF position.

Tip: The fine spring in the spring bin and the thick spring in the spring basket are used alone and cannot be connected.

Dredge the pipe operation guide:

pay attention to:

The distance between the dredging machine and the pipe entrance is very important. In the case of too far distance, the rotating cable will cause the cable entanglement and prevent the cable extraction from the small diameter pipe.

Dredge with a 7 / 8 " split spring

1. Control the balance before dredging.
2. Push the spring into the pipe as far as possible before opening the machine.
3. Pull out small sections of steel cables from the machine to form a semi-circular arc between the pipe and the machine.
4. Place the switch in the CW position, note that the machine rotates and the spring does not rotate.
5. Press the upper part of the arc spring with the glove hand, then pull down the clutch handle, maintain the appropriate clamping force, the spring begins to turn, and will easily enter the pipe.
6. Release the clutch handle when the spring enters the pipe, then pull the spring from the machine 10-12 inches to form a semi-circular arc between the pipe and the machine.
7. Repeat the above procedure until the spring hits the block. At this point, the operator will feel that pushing into the cable becomes very difficult and has the possibility of spring distortion.
8. If the spring is entangled with the blockage, please quickly pull the clutch handle in reverse, make the spring and the tool immediately stop moving, and then pull the spring out of the spring from the pipe and the tool out of the pipe, clean the blockage wrapped around the tool and the spring, and then push the spring into the pipe to continue dredging, repeat the above steps until the blockage is removed.
9. If the tool and spring are stuck in the block, please release the clutch handle immediately, place the switch knob in the OFF gear. When the machine is completely stopped, put the switch in the CCW gear and push down the clutch

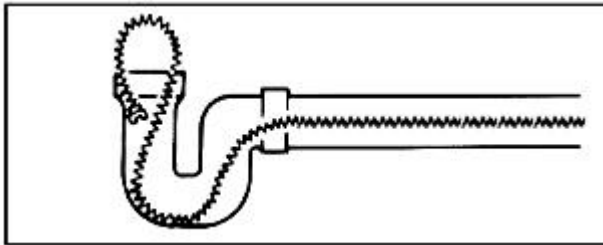
handle. When the spring turns backwards with the tool, release the clutch handle immediately, put the switch knob in the OFF gear, then place the switch knob in the CW gear for normal operation (repeat step 6-8).

10. When the obstruction is removed, it is recommended to rinse the pipe with clean water, and repeat step 8 several times if necessary until the pipe is clear.

11. To connect the spring:

(1) When the spring is completely pulled out of the body and exposed the end, put the machine switch knob in the OFF position.

(2) The spring in the pipe is circled into an arc according to the following diagram and fixed in the pipe mouth to prevent the spring in the pipe from sliding into the pipe.



(3) After the spring in the pipe is fixed, remove a steel cable from the spring basket. One end of the spring head is inserted from the front end of the machine and keep a foot of spring outside of the machine.

(4) Connect with the steel cables in the pipe.

12. Exit the spring from the pipe:

(1) Place the machine switch in the CW position and press the clutch handle to turn the spring.

(2) Gently pull the spring out of the pipe with your gloves on.

(3) When the pulled spring forms a ring, release the clutch and push the spring into the machine;

(4) When the exit spring is exposed outside the machine, release the clutch, put the switch knob in the OFF gear, remove the spring, so as not to damage the spring exposed outside the machine and damage or hurt the operator;

(5) When the tool exits the pipe with the cable, immediately release the clutch handle and put the switch to the OFF gear to make the machine stop turning.

(6) Pull the remaining springs and tools in the pipe out of the pipe.

13. Clean up the blockage wound around the spring and the tool. If dredging is completed, remove the tool from the spring connector with a special key, and the method of removing the tool is the same as the spring.

14. Clean and close the springs and tools.

Pay attention to: After use, please thoroughly clean and dredge the springs and tools, and apply the lubricating oil after drying. Note: be sure to fill the pin gap of the spring joint with pins.

Special operating instructions:

Reverse operation:

The machine switch knob is placed in CCW gear and the reverse machine may cause damage to the spring, which is used to exit the tool and spring from the block or pipe. Do not put the switch knob in the CCW gear to reverse the machine.

Quick removal

Slightly bending of the spring 6 " ~8 " behind the tool can quickly remove oil in the pipe.

Dredge with spring bin with 3 / 8 " springs

1. Keep the correct posture to control your body balance.

Pay attention to:

If unexpected situations occur, the correct posture allows the operator to safely control the machine and the springs

3. Draw a small spring from the machine to form a semi-circular arc between the pipe and the machine.

4. Place the switch in the CW position, note that the machine rotates and the spring does not rotate.

5. Press the upper part of the arc spring with the glove hand, then pull down the clutch handle, maintain the appropriate clamping force, the spring begins to turn, and will easily enter the pipe.

6. Release the clutch and pull out the spring, press the clutch handle, and constantly slowly push the spring into the pipe with your hands. Repeat the above steps until you feel the blockage.

Pay attention to:

Control the spring hand as close to the pipe inlet as possible to prevent the spring from twisting.

6. When encountered, move the spring back and forth to remove the obstruction. In this regard, the speed of the spring advance depends on the extent of the pipe blockage and the nature of the blockage, please slow forward.

7. If the spring encounters the obstruction and struggles, please release the clutch handle immediately to stop the spring rotation, and then slowly push the spring into the block again. Repeat the above steps until the block is cleared.

If the spring is stuck in the block, immediately release the clutch handle, and place the machine switch in the OFF gear. When the machine is completely stopped, place the switch in CCW gear, push down the clutch handle. When the tool or cable leaves the block, please release the clutch handle immediately, then place the machine switch in OFF gear, and then put the machine switch in CW gear for normal operation.

8. When the blockage is dredged, the user is advised to flush the pipe with clean water and repeat step 7 several times to completely dredge the pipe.

Pay attention to:

The spring is not fixed in the chamber. When the spring is pulled out of the chamber, hold the spring to prevent the spring from falling into the pipe and push the spring back into the chamber by hand.

10. If the spring is drawn from the pipe, place the machine switch knob in the CW gear, press the clutch handle, and gently remove the cable.

11. Release the clutch handle, push the pulled spring into the fuselage by hand and back to the spring bin.

12. Release the clutch handle before the spring fully exits the pipe.

13. Place the machine switch knob in the OFF gear.

14. Pull the remaining springs out of the pipe and push them into the fuselage.

Special explanation:

Reverse operation:

The machine switch is reversed in CCW gear, which may cause damage to the spring. This operation is only used to exit the tools and springs from the block. When the tool and spring are out of the block, immediately release the clutch

handle, place the machine switch in the OFF gear, and put the machine switch in the CW gear for normal operation.

Maintenance guideline:

Before maintaining the machine, confirm that the machine power cord plug is removed from the socket. Always wear safety glasses and wear machine gloves for maintenance work.

Spring maintenance:

After cleaning the pipe each time, it should be washed with clean water. After the spring is dry, apply RIDGID spring rust-proof agent to prevent the rust treatment of the spring, and drop the joint of the spring and the gap of the pin for lubrication.

The body clean

The machine can be cleaned with hot soapy water, but do not let the water into the motor or other electrical components. Ensure that the machine is completely dry, and then plug in for use.

lubricating:

If the machine is used every day, it should be lubricated every week. If the use frequency is low, lubricated once a month. If the machine is not used for a long time, it must be lubricated by dripping oil before use. Lubrication method: use the oil can filled with lubricating oil, grease the transmission part; grease the lubricating oil between the joint and the joint of the bearing and clutch at least every year (a professional maintenance master needs to remove the maintenance).(Note: it is strictly prohibited to apply lubricating oil to the inside of the clutch tile, otherwise the spring skid will not work normally.) (Fuel fueling parts as shown in the figure)



Picture	Name	Purpose
	Leather gloves PVC gloves	Protect hands from injury

	Shovel shaped dredging head	Cutting grease in pipelines
	C-shaped dredging head	Remove hard objects such as oil and tree roots attached to the pipe wall
	Serrated dredging head	Clean up hard objects such as tree roots and mud in the pipeline
	Four-edged serrated dredge head	Clean the pipe from oil, chemical sediment blockage
	Funnel-type screw dredge head	It is used to clean up the cloth, hair, paper, plastic bags and other blockages in the pipe, and it is also used to remove the dredging springs that fall in the pipe.
	Straight spiral dredging head	The first step in dredging is to use a dredging head to remove samples of blockages in the pipeline
	Key	Used for disassembling springs and cutting tools
	Spring compartment	Install 3/8 "spring
	Accessory bucket	Install spring compartment, cutting tools, gloves

Maintenance and service

⚠ WARNING



If there are any repair service problems, even if not listed above, please immediately send the tools to a professional repair center for repair.

When repairing the machine, use the specified parts. Using the unconfirmed parts will cause damage to the machine or other serious injury accidents.

If you have any questions about the use and function of the tools, please consult the website after-sales service staff.

Question	Reason	Handling method
Smoke coming from inside the capacitor box when connected to the power supply	Capacitor damage	Replacing capacitors
Power on, motor does not start	Damaged switch or loose wire on the switch, damaged capacitor, or damaged motor	Go to a professional repair shop for repairs
The motor only works on one revolution, while the other revolution does not work	The conversion switch is faulty or the motor is faulty.	Go to a professional repair shop for repairs
Connect the power supply and the leakage protector trips	Damaged power cord	Replacing the power cord
	Motor short circuited due to moisture	Go to a professional repair shop for repairs
	Damaged switch	Change switch

	Damaged power socket	Replacing power sockets
Connect the power and press the clutch handle, but the motor rotates and the spring does not rotate	75 type: gear wear or rust on the transmission part; Type 100: Belt wear or pulley wear, motor pulley key not installed, or rusted transmission part	Go to a professional repair shop for repairs
Spring clamp not tight	The clutch is damaged or there is lubricating oil on the inner wall of the clutch bearing, or the gear sleeve teeth are worn	Go to a professional repair shop for repairs
Clutch handle rotates 360 degrees	The end spring of the clutch rack is detached, or the coil spring inside the clutch is broken	Go to a professional repair shop for repairs
The clutch handle cannot be pressed down	Rust on the transmission part	Go to a professional repair shop for repairs
Pressing the clutch lever produces a clicking sound	Pressure bearing damaged	Go to a professional repair shop for repairs

Ensure that the machine switch is placed in the off state and the plug is plugged before the machine maintenance and adjustment. Always wear safety glasses and use gloves for maintenance work.

Cleaning

You can clean the machine with hot soapy water, but do not let the water into the motor or other electrical components, to make sure that the machine is completely dry, then plug it in for practical use.

FCC Information:



CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Correct Disposal



This product is subject to the provision of European Directive 2012/19/EU. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

Manufacturer: Shanghaimuxinmuyeyouxiangongsi
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Imported to AUS: SIHAO PTY LTD. 1 ROKEVA STREETEASTWOOD NSW 2122 Australia
Imported to USA: Sanven Technology Ltd. Suite 250, 9166 Anaheim Place, Rancho Cucamonga, CA 91730

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