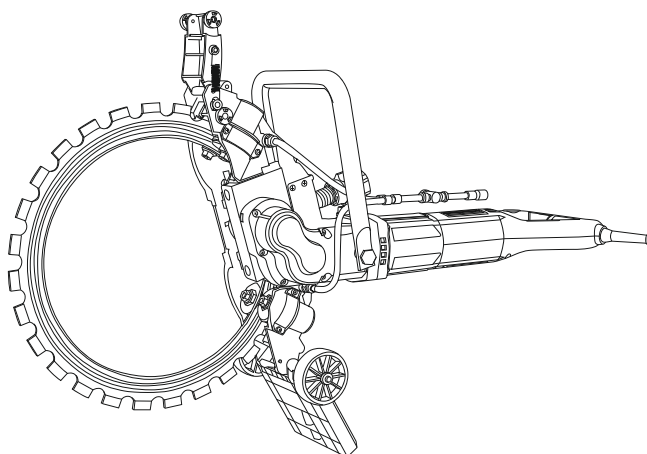


ID BRS400HQ

Part No:29000

BRUSHLESS RING SAW



Read through carefully and understand these Instructions before use.

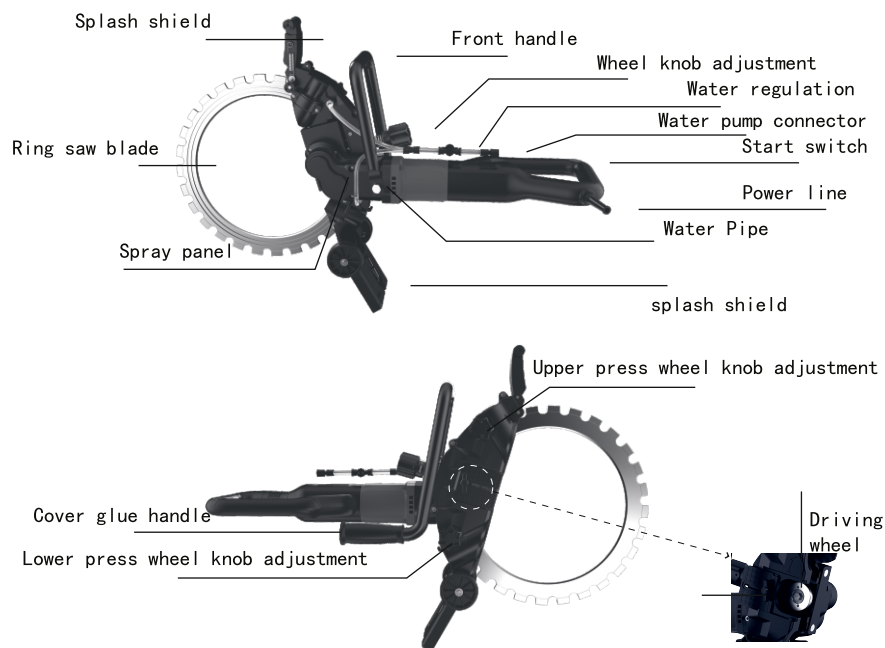
OPERATION INSTRUCTIONS

SPECIAL TIPS

1. **Warning!** Unauthorized modification and/or use of unapproved parts which may result in serious injury or death. Under no circumstances, the design of the machine be modified without the permission of the manufacturer. If this product appears to have been changed by others, do not change or use it again. Prohibit the use of the faulty machines. Always use the original factory accessories.
2. The safe distance of the ring-saw is 15 meters. Please ensure that there are no animals and bystanders in the work area. Before starting the cutting, please clear the field and stand firmly.
3. When cutting the wall, the water should be as large as possible to discharge slag and cool down. It is strictly prohibited to use without water.
4. Because of the high frequency, ring saw needs strong current power, usually used when the cable will be relatively long. Be sure to use more than 4.0 square cable (Wire from a circuit not less than 25A).
5. The Power tool plug must be matched with the socket. The plug must never be modified in any way. Power tools that require grounding cannot use any switch plugs. Unmodified plugs and compatible sockets will reduce the risk of electric shock.
6. Do not expose the power tools to the rain or wet environment. Water entering the power tool will increase the electric shock hazard.
7. Cable shall not be abused. Do not carry, pull the power tool or pull out the plug. Keep the wire away from heat sources, oil, sharp edges, or moving parts. Damaged or wound soft wires will increase the risk of electric shock.
8. When using power tools outdoors, use the external flexible cord suitable for outdoor use. Outdoor cord will reduce the risk of electric shock.
9. If the power tool operation is inevitable in wet conditions, the residual current action protector (RCD) should be used.
10. Be alert, pay attention to the operation and stay awake when operating the power tool. Do not operate a power tool when you feel tired or have a drug, alcohol or treatment response. Instant negligence in operating a power tool can lead to serious personal safety.
11. Use personal protective devices. Always wear protective goggles. Safety devices such as appropriate conditions, under the use of dust masks, anti-skid safety shoes, safety helmet, hearing protection and other devices can reduce personal injury.
12. Prevent accidental start-up. Ensure the switch is in the off position when connecting the power and /or battery case, picking up or handling tools. Place the finger on the on-switch or the plug may be dangerous when the switch is on.

13. Remove all the adjustment keys or wrenches before the power tool is turned on. A wrench or key let on the rotating part of the power tool can cause personal injury..
14. Don't stretch your hands too long. Always pay attention to your foothold and body balance. This provides good control of the power tool in unexpected cases.
15. Dress appropriately. Do not wear loose clothes or wear jewelry. Keep your clothes, gloves, and hair away from the moving parts. Loose clothes, accessories or long hair may be involved in moving parts.
16. If devices are provided to connect with the dust and dust collection equipment, ensure that they are well connected and used properly. Using these devices can reduce the risk caused by the dust.
17. Do not abuse the power tools, according to the use of the appropriate power tools, choose the appropriate design of the power tools will make you work more effective and safer.
18. If the switch cannot be turned on or off the power supply of the tool, the power tools that cannot be controlled by switches are dangerous and must be repaired.
19. Before making any adjustment, replacing the accessories or storing the power tool, remove the plug from the power supply and/or use the battery case to remove the tool. This protection will reduce the risk of accidental tool initiation.
20. Store the unused power tools outside the range of children, and do not let people who are not familiar with the power tools or do not know these instructions to operate the power tools. Power tools are the most dangerous in the hands of untrained users.
21. Maintain the power tools. Check whether the moving parts are adjusted in place or the master, check the damage of the parts and other conditions that affect the operation of the power tool. In case of damage, the power tools should be repaired before use. Many accidents are caused by poorly maintained power tools.
22. Keep the cutting tool sharp and clean. Well maintained and sharp cutting edge is not easy to control.
23. Send your power tools to professional maintenance personnel and use the same spare parts for maintenance. This will ensure the safety of the repaired power tools.

PRODUCT DIAGRAM



PRODUCT PARAMETER

 Ring saw is a kind of hand-held electric tool for cutting marble stone, ceramic tile and concrete box with rotating gold steel stone blade.

*** Please read the instruction manual carefully before use, and use the chainsaw strictly according to the instructions.**

Product Model	ID BRS400HQ
Rated Voltage	220-240V~
Rated Frequency	50-60Hz
Rated Power Input	6000W
Maximum Load Power	8500W
No-Load Rotation Speed	3000r/min
Saw Size	400mm
Maximum Cut Depth	30cm
Machine Weight	12.8 kg

CONVENTIONAL LETTER

The following symbols can help you to use this power tool correctly. Please remember the meaning of each symbol box. Correct understanding of the representative meaning of each symbol can help you more secure to operate this power tools.

	Hazard range! Palm, arms, and fingers must be as far away from this range as possible.
	Please wear goggles.
	Wear earmuffs. Working noise can damage the hearing.
	Please wear a dust mask.
	Wear insulated working gloves.
	Wear insulated waterproof shoes.



In order to reduce the damage of these toxic chemicals to the human body, we should try to ensure that we work in a ventilated environment, and wear qualified safety protection devices when working.

Warning! Dust produced from the appliance at work may contain chemicals that are carcinogenic or harmful to humans.

FOR INSTANCE:

- ◆ Lead contained in the paint.
- ◆ Arsenic and chromium can also produce toxic substances after their reaction with the wood.

ACCESSORIES:

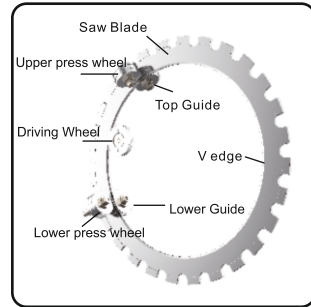
- SPANNER.
- 400mm SAW BLADE
- WATER PUMP
- WATER PIPE

SAW CHANGE MATTERS

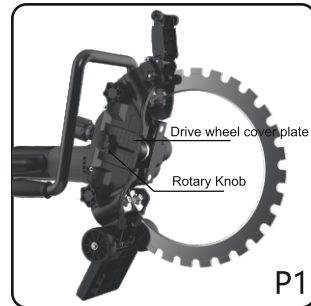
Check the power supply voltage.

For single-phase AC power, we must pay attention to the power supply voltage should be the same as the voltage shown on the tool nameplate, so as not to cause the tool overload and affect the working accuracy.

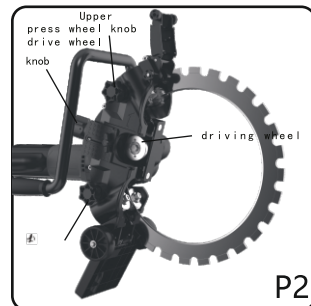
- ▲ Before installing the new saw blade, confirm that the plug is separated from the socket and the machine is in power-off condition!!!
- ▲ Pay attention to! For your safety and protection , please do not try to cut tiles before the tools are fully assembled and installed. Please read the instructions for the operation and know the dangers arising from the wrong operation.
- ▲ Pay attention to! Change the drive wheel when installing a new saw blade. Wear Drive wheels can cause saw blades to slip or damage. Water shortage also significantly reduces the service life of the driving wheel.



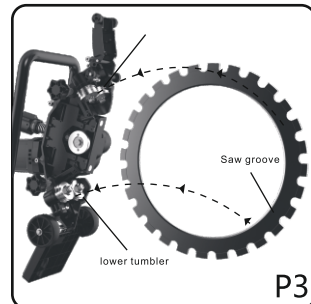
1. Release the knob and open the drive wheel cover back (See Figure: P1)



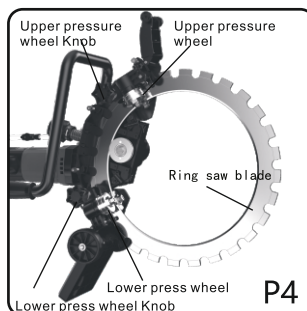
2. The tightness of the drive wheel and the saw blade can be adjusted by the drive wheel knob. The tightness of the upper/lower pressure wheel and saw blade can be adjusted by the upper wheel knob and the lower wheel knob. After removing the bolts with the inner hexagonal wrench. Remove the drive wheel and saw blade. (See Figure: P2)



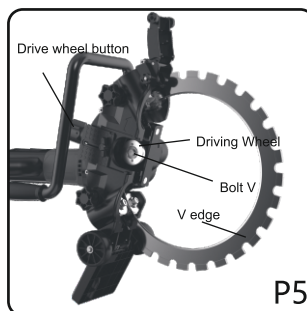
3. One side groove on the saw blade acts as the guide of the upper and lower guide wheels, ensuring that the guide of the saw blade is stuck in the upper and lower guide wheels as shown in the Figure P3.



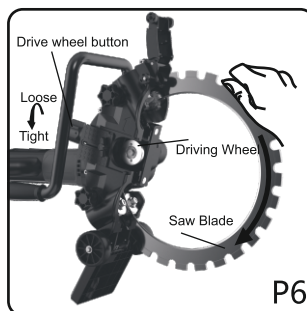
4. The tightness of the saw blade and the upper and lower pressure wheel can be adjusted for the upper/lower pressure wheel knob respectively. Adjust to the appropriate position can be used (See Figure: P4).



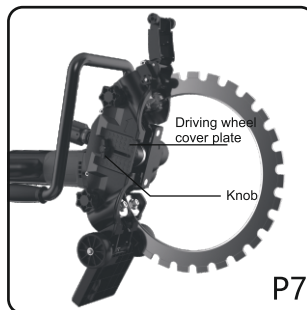
5. When installing the drive wheel, ensure that the V-shaped edge of the saw blade gets stuck into the drive wheel, and then tighten the bolts (See Figure: P5).



6. Rotate the saw blade and rotate the drive wheel knob in the tight direction at the same time, until the rotating saw blade can drive the drive wheel to rotate together at the same time, and rotate the drive wheel knob in the tight direction for 5 times again (See Figure: P6).



7. Cover back to the drive wheel cover plate and tighten the knob (See Figure: P7).



ON - OFF OPERATION:

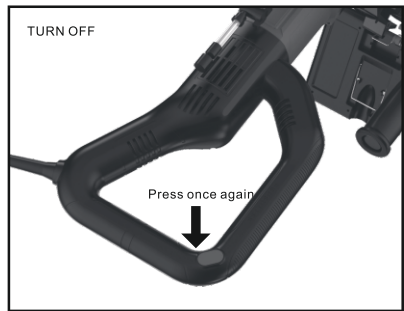
This machine has power protection; pull out the plug, machine will automatically power-off, need to press the switch.

Power on : Press the switch button, the machine will automatically switch on.

Shutdown: Press the switch button again, the machine will stop.



Problem Self-Check



LED fault code and release method

Analysis method for motor problem:

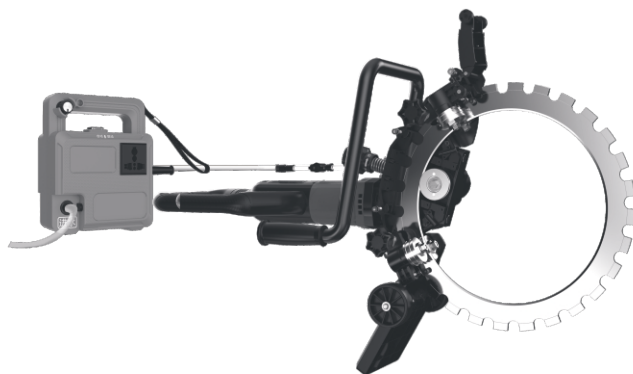
First plug the machine in, and then press the switch once. If the machine fails, see the flashing frequency of the controller indicator lamp as follows:



LED State	Meaning	Methods of Overcoming Dormancy
Micro Bright	The device is in the standby state	
In the Bright	Motor running state	
Flash 2 times	Device current sensor fault	Maintenance Controller
Flash 3 times	Power device failure	Maintenance Controller
Flash 4 times	Hall sensor failure	Repair motor
Flash 5 times	Overcurrent protection	Turn it off again or repair the controller or motor
Flash 6 times	Block turn protection	Press the start button
Flash 7 times	Lack of Phase protection	Turn off the power or repair the motor
Flash 8 times	Undervoltage or overvoltage protection.	Press the start button again after restoring the normal voltage
Flash 9 times	For over-temperature protection	Press the start button again after restoring the normal temperature
Flash 11 times	E2PROM Error	Maintenance Controller
Flash 14 times	Relay fault	Maintenance Controller

INSTALLATION OF WATER PUMP / PIPE

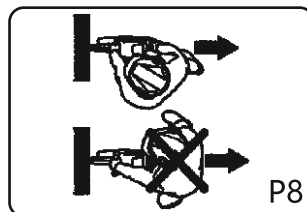
1. Test whether the pump is normal water, if the submersible pump is the motor immersed in the bucket, start the power supply, the water outlet has a water column, the pump is normal.
2. If there is no water column, shake the pump in the water, the air in the pump body discharge, will be out.
3. If the water pump is linked, put the water inlet pipe and filter into the bucket and can be started.
4. Connect one end of the water pipe to the pump outlet, and the other end to the pre-installed faucet of the machine.
5. Start the water pump power supply and have water splashing out at the machine chain.



PRACTICAL OPERATION CONSIDERATIONS

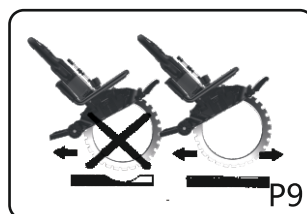
1. Please stand in parallel to the cutting blade. Avoid standing directly behind you.

Once the recoil occurs, the cutting saw will move in the saw blade plane. (See Figure:P8)



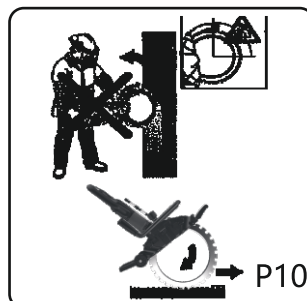
2. Push the machine down along the blade, and the pressure from the side can damage the blade, which is very dangerous. Slowly moving the saw blades back and forth.

Maintain a small contact area between the saw blade and the cutting material. This lowers the temperature of the saw blade and ensures effective cutting (See Figure: P9).



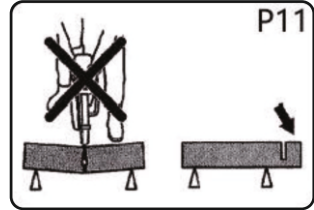
3. Do not use the recoil area of the saw blade for cutting. If the saw blade is caught or blocked in the recoil zone, the reaction force will throw the electric cut saw up and backward to the user, causing serious or even fatal damage.

Use the lower part of the saw blade to avoid climbing recoil. (See Figure: P10).



4. Cping means the incision and the saw blade. If the workpiece is not properly supported and displaced during cutting, the saw blade is clamped or stopped, and the reaction force occurs.

Will be very large and may not control the cut saw. Always support the workpiece so that the cut is open during cutting. Always pay attention to the movement of the workpiece or any other situation, so as not to close the incision and clip the saw blade (See Figure:P11).



TOOL MAINTENANCE

△ **WARNING!** The plug must be removed from the power outlet before repairing the machine.

1. Close the tool power switch and unplug the plug before checking or maintaining the tool.
2. Regularly check the upper pressure wheel, lower guide wheel, drive wheel wear situation, to replace in time.
3. Please wear gloves for any inspection and maintenance operation.
4. The replaceable part is the power cord and should meet the requirements of the standard.
5. Do not use gasoline, benzene dilutions, alcohol or similar items to clean the tools, otherwise it may cause the tool discoloration, deformation or cracks.
6. Use a cleaning cloth to regularly clean the ring saw, especially the handle must be free of oil.
7. Conduct regular visual inspection of the shell of all parts. If any parts are damaged, please immediately submit them to the iron-bearing authorized repair center for repair.



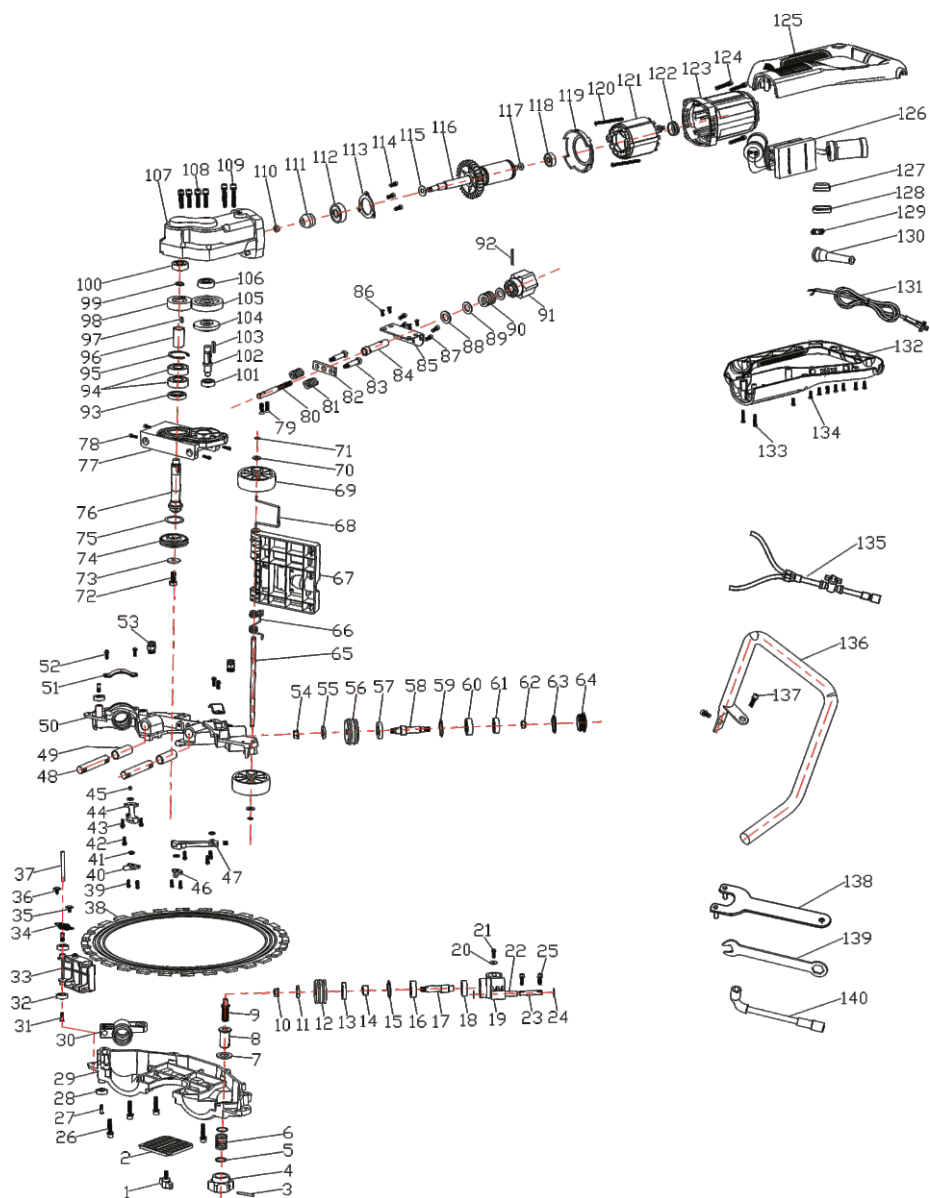
Please do not let the motor rain to the water, prohibit the whole fuselage into the water, so as not to cause motor failure and electric shock accident!

ENVIRONMENTAL PROTECTION

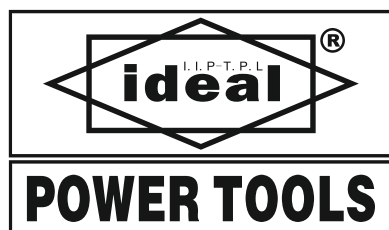


The scraped power tools and accessories contain a large number of valuable raw materials, which can also be recycled or cut.

The dust produced will contain harmful substances and therefore should not be dumped as ordinary garbage, but should be handed over to special garbage recycling stations.



NO.	PART NAME	QTY.	NO.	PART NAME	QTY.
1.	M6 Screw	1	71.	ø8 Outer spring pliers	2
2.	Plastic cover	1	72.	M8*20 Screw	1
3.	4.2*35 Opening pin	2	73.	ø8*ø24*3 Gasket	1
4.	Upper adjusting hand wheel	2	74.	Driving wheel	1
5.	ø18.2*ø21.8*1 Stainless gasket	4	75.	ø22*ø29*0.3 Gasket	1
6.	ø18.8*1.7*25.8H*4 Spring	2	76.	Output shaft	1
7.	ø18*ø30*3 Damping gasket	2	77.	Front cover	1
8.	Upper press wheel adjusting nut.	2	78.	M4*25 Screw	4
9.	Upper press wheel adjusting screw	2	79.	M4*20 Screw	2
10.	M8 Screw nut	2	80.	Adjustment screw	1
11.	Press the wheel and the plate	2	81.	16*26H Flat spring	2
12.	Upper press wheel	2	82.	Adjusting spacer	1
13.	ø18*32*7 Framework oil seal	2	83.	ø8*30*M6*11 Screw	2
14.	ø12*ø18*10 Oil seal iron sleeve	2	84.	Lead screw nut sleeve	1
15.	ø32 Inside spring pliers	2	85.	Right angle iron	1
16.	6201 Bearing	2	86.	M4*10 Screw	4
17.	Upper press wheel drive shaft	2	87.	M5*12 Screw	4
18.	6200 Bearing	1	88.	ø14*ø25*2 Rubber gasket	1
19.	Upper press wheel retainer right	1	89.	ø13.3*ø24*2 Iron gasket	2
20.	ø4.5*ø13.8*1.5 Gasket	2	90.	25*25 Yellow flat spring	1
21.	4*14 Three-piece set of screws	2	91.	Drive wheel adjusting hand wheel	1
22.	ø8*ø10*25 Movable pin iron sleeve	2	92.	4.2*35 Split pin	1
23.	movable pin	2	93.	ø35*ø20*7 Framework oil seal	1
24.	ø18.2*ø21.8*1 Stainless gasket	4	94.	6203 Bearing	2
25.	M5*16 Screw	4	95.	ø40 Inside spring pliers	1
26.	M6*30 Screw	4	96.	ø17*ø21*37 Gear limit aluminium sleeve	1
27.	M5 Screw	2	97.	4*10 Key	1
28.	Plastic roller	2	98.	Middle gear	1
29.	Upper protective cover	1	99.	ø17 Outer spring pliers	1
30.	Upper press wheel retainer left	1	100.	6201 Bearing	1
31.	M5 Screw	2	101.	6000 Bearing	1
32.	Plastic roller	2	102.	Driving shaft	1
33.	Plastic subcover	1	103.	4*20 Key	1
34.	Tension spring	1	104.	Big bevel gear	1
35.	M4*10 Screw	1	105.	Big gear	1
36.	4*10 Screw	1	106.	6201 Bearing	1
37.	ø6*60 Sub hood connection pin	1	107.	Head housing	1
38.	Saw blade	4	108.	M5*35 Hexagon single spring washer screws	4
39.	4*14 Screw	1	109.	M5*55 Hex socket three-piece set screws	2
40.	Water nozzle left	4	110.	M7 Screw nut	1
41.	ø8*ø12*2 O-RING	2	111.	Small gear	1
42.	M4*18 Three-piece set screws	4	112.	6301 Bearing	1
43.	M4*14 Three-piece set screws	1	113.	Bearing cover	1
44.	Inlet bracket left	2	114.	M5*14 Three-piece set screws	3
45.	M6*8 Screw	1	115.	ø12*0.5 Stainless gasket	1
46.	Water nozzle right	1	116.	Armature	1
47.	Water inlet bracket right	2	117.	ø9*0.3 Stainless gasket	1
48.	Locating guide post	2	118.	629 Bearing	1
49.	Guide post brass sleeve	1	119.	Wind shield	2
50.	Lower protective cover	2	120.	5*85 Screw	2
51.	Lower the wheel cover	4	121.	Stator	1
52.	M4*14 Three-piece set of screws	2	122.	ø26*30*10,1 Aluminium bearing seat	1
53.	1/4 Quick connection pipe	2	123.	Housing	1
54.	M8 Screw nut	2	124.	M5*35 Hex socket three-piece set screws	4
55.	Press the wheel and the plate	2	125.	Switch handle - Left cover	1
56.	Lower press wheel	2	126.	Controller	1
57.	ø18*ø32*7 Framework oil seal	2	127.	Switch button	1
58.	Lower wheel drive shaft	2	128.	Switch button seat	1
59.	ø32 Inside spring pliers	2	129.	Cable ramp	1
60.	6201 Bearing	2	130.	Protecting bush	1
61.	6200 Bearing	2	131.	Power cord	1
62.	M8 Screw nut	2	132.	Switch handle - Right cover	1
63.	ø26*ø202 O-RING	1	133.	4*50 Screw	2
64.	M32 End cap	1	134.	4*16 Screw	8
65.	Baffle pin	1	135.	Water pipe set	1
66.	Pressure spring	1	136.	Iron bend handle	1
67.	Board	2	137.	M10*16 Screw	2
68.	Baffle hook	2	138.	Drive wheel wrench	1
69.	Wheel	2	139.	Drive wheel wrench	1
70.	ø8*ø16*1 Gasket	1	140.	13 Socket wrench	1



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