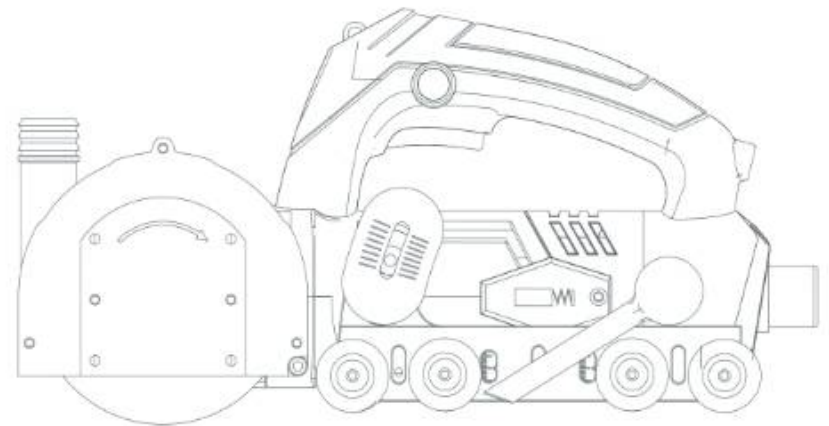


TILE JOINTS CLEANING AND CUTTING MACHINE



USER MANUAL



User/Contact		Phone number	
Product number			Seal of distribution company
Product model			
Product Name			
Purchase date			
Distribution company			

Attention buyers! After purchasing the machine, it needs to be stamped by the distribution company for it to be valid. Any alterations are invalid, and not replacement once lost.

Warranty Card

Product Name		Phone number	
Distribution company			Seal of distribution company
Model			
User Name			
Address			
Purchase date	M D Y		

This warranty card shall be filled in and stamped by the distributor company upon purchase to take effect. If it is overdue, it shall be invalidated.

Maintenance records

Date	Maintenance project	Remarks	Maintenance personnel

Inspection Certificate

Inspector 01

Date

Approved for delivery after QC passed.

After sales service policy

I.Repair method: User sent for repair

II. Warranty Regulations

1. Free maintenance period

*From the date of purchase by the customer, under normal usage conditions, the free warranty period is three months for the products produced by our company.

*Warranty scope: Under normal usage conditions, if there is an open circuit or short circuit in the stator or rotor winding, or if the rotor commutator flyers or shaft teeth are broken.

*(Excluding accessories, consumables, and easily worn parts such as carbon brushes, self suction blades, etc.).

2. Paid repairs (the following situations are not covered by the warranty and will be subject to paid repairs):

*Damaged due to improper handling, installation, use, maintenance, and storage by the user.

*Damage caused by unstable voltage during use.

*Secondary damage caused by self repair or non manufacturer repair.

*Damage to products caused by force majeure.

*Those who have passed the free warranty period.

*Any damage caused by natural wear and tear, overload work, including self suction blades, carbon brushes, and other easily worn parts.

*Damage caused by failure to follow the instructions.

*The unilateral wear of the rotor commutator of the communication tool exceeds 0.2mm.

III. Service commitments

*Repair guarantee within 2 working days

*Provide lifelong maintenance services

*Free maintenance activity (shipping cost to be afford by oneself)

General safety warning for power tools



Please read all warnings and instructions carefully . It can lead to electric shock, fire, and serious injury if not following the following warnings and instructions.

Save all warnings and instructions for future reference.

The term "power tool" in all the following warnings refers to electric (wired) power tools or battery driven (wireless) power tools.

a. Workplace safety

1. Keep the workplace clean and bright. Chaotic and dark venues can cause accidents.

2. Do not operate power tools in explosive environments, such as environments with flammable liquids, gases, or dust. Sparks generated by power tools can ignite dust or gas.

3. Allow children and bystanders to operate power tools after leaving. Lack of concentration can cause you to lose control of tools.

b. Electrical safety

1. The plug of the electric tool must match the socket. Never modify the plug in any way. Power tools that require grounding cannot use any conversion plugs. Unmodified plugs and matching sockets will reduce the risk of electric shock.

2. Avoid removing grounding surfaces from the human body, such as pipes, heat sinks, and refrigerators. If your body is grounded, it will increase the risk of electric shock.

3. Power tools must not be exposed to rain or humid environments. Water entering power tools will increase the risk of electric shock.

4. Do not abuse wires. Never use wires to transport, pull or unplug power tools. Keep wires away from heat sources, oil, sharp edges, or moving parts. Damaged or tangled flexible cords can increase the risk of electric shock.

5. When using power tools outdoors, use external flexible cables suitable for outdoor use. Flexible cords suitable for outdoor use will reduce the risk of electric shock.

6.If operating power tools in humid environments is inevitable, residual current operated protectors (RCDs) should be used. The use of RCD can reduce the risk of electric shock.

c. Personal safety

1. Stay alert and pay attention to the operation of power tools while maintaining clarity. Do not operate power tools when you feel tired or have reactions to medication, alcohol, or treatment. Instant negligence during the operation of power tools can lead to serious personal injury.

2. Use personal protective equipment. Always wear protective goggles. Safety devices, such as using dust masks, anti slip safety shoes, safety helmets, hearing protection, etc. under appropriate conditions, can reduce personal injury.

3. Prevent accidental startup. Ensure that the switch is in the off position when connecting to the power or battery box, picking up or handling tools. Placing your finger on a switch that is already powered on or inserting a plug when the switch is turned on may cause danger.

4. Before connecting the power tool, please remove all adjustment keys or wrenches. Wrenches or keys left on rotating parts of power tools can cause personal injury.

5. Do not stretch your hands too long. Always pay attention to the foothold and body balance. This way, power tools can be well controlled in unexpected situations.

6. Dress appropriately. Do not wear loose clothing or accessories. Keep your clothes, gloves, and hair away from moving parts. Loose fitting clothing, accessories, or long hair may get caught in moving parts.

7. If devices are provided for connecting with debris removal and dust collection equipment, ensure that they are properly connected and used properly. The use of these devices can reduce the danger caused by dust particles.

8. When performing seam opening operations on this machine, attention should be paid to the protection of the knife cover. It is very dangerous to perform seam opening and expansion operations without the protection of the knife cover, and in severe cases, it can cause personal injury.

d. Usage and precautions for electric tools

1. Do not abuse electric tools and use appropriate ones according to their intended use. Choosing appropriately designed electric tools will make your work more efficient and safe.
2. If the switch cannot turn on or off the power supply of the tool, the electric tool cannot be used. Electric tools that cannot be controlled by switches are dangerous and must be repaired.
3. Before making any adjustments, replacing accessories, or storing electric tools, the plug must be unplugged from the power source or the battery box must be used to disconnect the tool. This protective measure will reduce the risk of accidental tool start-up.
4. Store unused electric tools outside the reach of children, and do not allow people who are not familiar with electric tools or do not understand these instructions to operate electric tools. Electric tools are dangerous in the hands of untrained users.
5. Maintain electric tools. Check if the moving parts are adjusted or stuck, check for component damage and other conditions that affect the operation of the power tool. If there is any damage, the electric tool should be repaired before use. Many accidents are caused by poorly maintained electric tools.
6. Keep the cutting tools sharp and clean. Tools with sharp cutting edges that are well maintained are not easily stuck and easy to control.
7. According to the user manual, consider the operating conditions and the tasks performed to use electric tools, accessories, and tool heads. Using electric tools for operations that do not match their intended purpose may lead to danger.
8. When using water cutting operations, operators should wear insulated gloves and shoes to avoid electric shock accidents.

e. Repair

Send your electric tool to a professional repairman and use the same accessories for repair. This will ensure the safety of the repair.

BLADE SIZE

Blade for cleaning:

Outer diameter: 100mm Inner diameter: 20mm
Thickness: 1.2mm 1.7mm 2.2mm 2.7mm
Cutting depth: 11mm

Blade for cutting:

Outer diameter: 105mm Inner diameter: 20mm
Thickness: 1.2mm 2.0mm 3.0mm
Cutting depth: 13.5mm



Replace the cutting blade as shown in the diagram for disassembly and installation.



Connect the flexible shaft as shown in the diagram.

Possible faults and troubleshooting methods

Fault	Cause	Solution
The motor does not run after the machine is powered on.	1. Open circuit in power supply. 2. Loose connector. 3. Poor contact of switch. 4. Burnt armature or stator coil. 5. Open circuit in stator coil. 6. Brush exhausted	1. Repair the power supply. 2. Check all connectors. 3. Repair or replace switches. 4. Replace the armature or stator coils 5. If it is broken at the outlet, it can be re soldered, otherwise rewound. 6. Replace a new set of brushes.
After the machine is powered on, it makes an abnormal sound and does not rotate or rotates very slowly.	1. The switch contacts are burnt out. 2. The mechanical parts are stuck or the moving parts are rubbing against each other. 3. The blade is biting. 4. The special nut is loose. 5. There is a small short circuit or open circuit in the armature. 6. The power supply voltage is too low.	1. Repair or replace the switch. 2. Check the mechanical part. 3. Pull out the blade and feed it again. 4. Send it to the maintenance department for repair. 5. Repair or replace the armature. 6. Adjust the power supply voltage.
Excessive heating on the surface of the case.	1. Excessive load or sluggish blade. 2. Wet winding. 3. Inaccurate assembly and inflexible armature operation. 4. Power supply voltage drop.	1. Repair or replace switch. 2. Check mechanical parts. 3. Reduce thrust. 4. Stop propulsion. 5. Repair or replace armature. 6. Adjust power supply voltage.
The commutator generates ring fire or sparks.	1. Armature short circuit or open circuit. 2. Poor contact between the brush and the commutator. 3. The surface of the commutator is not smooth.	1. Repair the armature. 2. Improve its contact condition. 3. Remove debris to make the surface of the commutator smooth.
The gearbox overheats excessively	1. Lack or dirty of lubricating grease in gearbox. 2. Poor matching of the transmission part or debris falling into its interior.	1. Add or replace lubricating oil. 2. Check the transmission part or remove debris.

Standard operation reference for cutting and expanding tile joints.



1. Connect the series water pump (optional) and the machine, adjust the water pressure, and at the same time connect the blowing water pipe.



Ensure that the four wheels enter the joints.

2. Ensure that the pointed wheel is clamped between the two tiles and adjusted horizontally (the horizontal bubble is close to the edge of the blade cover the main wheel should be in the center of tile joints after cutting, and the horizontal bubble is in the middle is suitable).



3. Press the machine down to the desired cutting depth (the maximum cutting depth of this machine is 13.5mm), and tighten the depth adjustment screw.

4. Connect the power supply, start the machine, slowly press down to the limit depth, and then push forward to complete the joints expansion.

Reference for wall joint cleaning operation.



1. Remove the left scale block and take out the semi-circular plastic part from the parts package.



2. Stuck to the left.

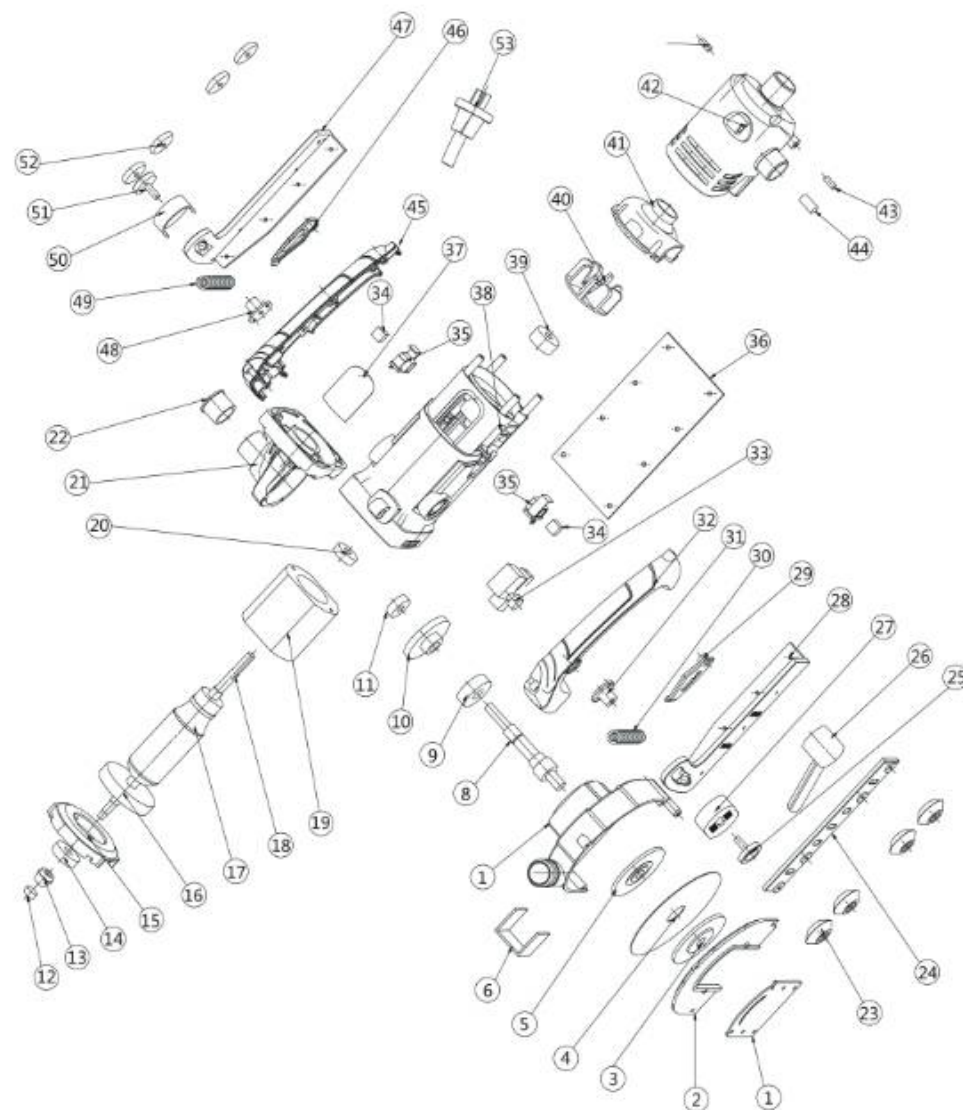


3. Install the left scale block and tighten the screw to cancel the rebound function.



4. Press the machine to the desired depth and tighten the screws to cancel the rebound function.

EXPLODED VIEW



Explosion diagram accessory name

NO.	Accessory name	NO.	Accessory name
1	Transparent edge cover	28	Left bracket
2	Blade edge cover	29	Left carbon brush cover
3	Upper pressure plate	30	Spring
4	Blade	31	Left depth fixing block
5	Lower pressure plate	32	Left handle
6	Dust blocking	33	Switch
7	Blade cover	34	Carbon brush
8	Output shaft	35	Brush holder with disc spring
9	6201 Bearing	36	Bottom plate
10	Big bevel gear	37	Motor dust shield
11	608 Bearing	38	Shell
12	Rotor fastening nut	39	608 Bearing
13	Small bevel gear	40	Self suction fan
14	629 Bearing	41	Wind guide ring
15	Wind deflectors	42	Rear cover
16		43	Cylindrical pin
17	Rotor	44	Horizontal bubble
18		45	Right handle
19	STATOR	46	Right carbon brush cover
20	608 Bearing	47	Right depth fixing block
21	Gearbox	48	Right depth adjustment block
22	Pipe blockage	49	Spring
23	Pointed wheel	50	Right depth adjustment block
24	Pointed wheel height adjustment bar	51	Depth fastening screws
25	Deep tighten screws	52	Plastic wheels
26	Blow pipe	53	Power cord
27	Left depth adjustment block		

Operation instruction diagram of the tile joints cleaning:



Ensure a 5-point line.

1. Ensure that the pointed wheel center is in the same line with blade center, ensuring that the blade does not damage the tiles during operation. Professional machines should press down to the bottom plate before aligning. As shown in the diagram.



Adjust the gasket according to the thickness of the blade to ensure that blade center and pointed wheel center are in the same straight line.

2. The machine comes with a 1.2mm blade for cleaning in the factory. To adjust the blade thickness for different joints, the thicker the blade, the smaller the gasket behind the lower pressure plate needs to be removed to ensure that blade center and pointed wheel center are in the same straight line (The factory recommends using 1.2mm blade for 1.5mm joints, 1.7mm blade for 2.0mm joints, 2.2mm blade for 2.5mm joints, and 2.7mm blade for 3.0mm joints).

3. Start to work by ensuring that the center of the pointed wheel is in line with the center of the blade.

The reference for standard joint cleaning operations is shown in the diagram



1. Take out the vacuum cleaner and connect it to the suction ports at both ends of the machine, install the clips, and at the same time, take out the elbows from the parts package and install the vacuum bag.



Ensure that the four wheels enter the joints.

2. Make sure to clamp the pointed wheel between the two tiles and adjust it horizontally (the horizontal bubble in the middle is appropriate).



3. Press the machine down to the required joints cleaning depth (generally not less than 5mm, if it is less than 5mm, it may not stick firmly), and tighten the depth adjustment screw.

4. Connect the power supply, start the machine, slowly press down to the limit depth, and then push forward to complete the joints cleaning.