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LASER SLAT CLEANING MACHINE

OPERATION MANUAL



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Note: In order to reduce accidents such as fire, electric shock and personal injury, you must pay attention to the following basic safety rules when using tools. Please read this manual carefully.

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Instructions for safe use of slag remover

1. Keep the workplace clean and tidy: operating the drill in a messy workplace is prone to accidental injuries.
2. Pay attention to the environment of the workplace: do not work in a dark environment, do not expose the sword gate slag remover to rain or moisture, do not use the machine in explosive places where there is flammable gas or combustible liquid, because the equipment motor rotates normally and sparks , Sparks may cause fire.
3. Operators should do self-protection, such as eye protection, ear protection, gloves, and safety shoes.
4. Children should stay away from the workplace, and idlers should not pull the power cord arbitrarily.
5. Take care of the power cord. Do not use the power cord to pull the tool, or use the power cord to pull the plug down. The power cord should be kept away from heat and oil, and avoid contact with sharp edges.
6. In order to prevent the equipment from starting suddenly, make sure that the switch is in the off position before inserting the plug into the power socket, and remove irrelevant objects such as wrenches and screwdrivers.
7. Sometimes extension cords are needed for indoor and outdoor operations, and professionally specified extension cords should be used. Must be a three-core power cord, and reliable grounding protection.
8. The power must be cut off when the equipment is not in use, before maintenance or when changing tools.
9. Keep properly the machines and tools that are not in use temporarily. They should be placed in a dry and high place out of reach of children.

Maintenance

Blade replacement: The blade will wear out according to different frequency of use, which is a normal consumable part. If the cleaning effect is not good, it needs to be replaced. Customers need to purchase and replace by themselves, and consult the manufacturer for the number.

Replacement of torsion spring: the torsion spring will be lost according to the frequency of use. It is a normal consumable part. After the spring is disconnected, it needs to be replaced. There is a spare part in the accessory kit. Please contact the manufacturer for purchase.

Add butter to the top of the machine: add grease to the top of the machine after every 20 hours of work. No need to add oil for the first time.

Boom point oil: add lubricating grease to the connecting position of the tool and the robot arm after every 20 hours of work.

Carbon brush replacement: depends on the situation, please contact the manufacturer.

Special statement

If the equipment fails, please contact our company. Unauthorized blind disassembly may cause unpredictable damage. Our company will terminate the service or provide the service after charging.

Note during operation:

- ① In the process of moving the equipment, if you encounter the obstacle of the high beam and cannot continue to move forward, raise or press the extension rod to make the tool hang over the beam, and then restore the handle to its original position to continue cleaning. , Don't hit the beam.
- ② After cleaning one rack and need to change another one, raise the extension rod to suspend the tool, then swing the extension rod to the left (right) for a certain angle, then align the slag and lower it to clean the Root rack.

Shutdown

After use, slightly lift the handle to make the tool leave the rapier rack, and then directly press the power switch to stop. Note: The switch on the body and the switch on the handle can both be stopped.

Precautions

- Sword rack on the gate width of the slag is recommended not to exceed 25mm, for a long time at full capacity use will affect the motor life.
- It is recommended that the equipment run continuously for 1 hour, with 10-20 minutes rest intervals, to help maintain the service life of the machine.
- Do not push it forcibly during use. The machine's slag removal mainly depends on the claws to remove the slag. The operator holds the slag remover horizontally and assists it to move forward, forcibly pushing it will affect the service life of the machine.
- For the JS-1000 low-power slag remover, pulling backwards to clean slag over 25mm will affect the service life of the slag remover.
- After the motor is turned on, the tool must not have high-frequency vibration caused by direct contact with any object, and the mechanical damage caused by this has nothing to do with the unit.

Device parameters

Model	JS-1000	JS-2300
Rated voltage	220V	220V
Rated power	1020W	2300W
Rotating speed	1400r/min	1400r/min
Use laser power range	Below 6000w	Below 15000w
Maximum cleaning slag width	No more than 25mm	No more than 25mm
Cleaning the thickness of the sword grid	3-8mm	3-8mm
Minimum sword grid spacing	30mm	30mm
Continuous working time	1h	1h

Packing list

Host; caster assembly; handle kit; tool; accessory bag (contains: wrench*1, tension spring*2, bottom plate screw*4, cable tie*4, extension rod Link nut*1 package); manual.

Note: When taking out the main unit out of the box, please hold the front U-shaped handle and the black extension rod at the end of the machine. Do not hold the main unit, cables and other parts. There is a risk of falling.

Preparation before Use

Check voltage

Before operation, check whether the rated voltage of the equipment is consistent with the power supply voltage. The line voltage should be $\pm 5\%$ of the voltage specified on the equipment nameplate before use.

Handle installation

After unpacking and taking out the main unit, assemble the two black extension handles with their own screws, and then link the assembled black extension handle to the connection of the extension rod at the tail of the main unit. After assembly, simply plug the main unit and the extension handle together.

Caster installation

Clamp the casters on the chassis of the slag remover, you can pull the slag remover to walk, which is convenient for your transportation.

About Use

Ready:

Pull the equipment to the working position, keep the equipment upright, touch the front U-shaped handle on the ground, lift up one side of the bottom plate, and then remove the caster assembly. Place the equipment on the work surface and lay it down completely (the knife falls in the empty position of the sword grid), and make sure that the switch at the handle is in the "off" state. Plug in the power plug and turn on the motor position switch (non-handle position).

Power on:

Raise the handle slightly until the tool can be seen, and press the switch at the handle grip to start the device. After visually aligning the cutting tool in the constant opening and closing motion with the rack to be cleaned, gently lay down the handle so that the weight of the equipment is completely placed on the table, and then start to work.

Operating:

After starting work, hold the handle to push the tool to move back and forth parallel to the direction of the rack for cleaning. Note: The handle can be moved up and down during travel (not necessary), but it cannot swing left and right when the rack cannot be clamped. The knife will automatically move forward after cleaning the lower position of the knife. It can also be used (manpower) to give the handle a little forward.

The force makes it travel faster. Remember to block the beam and do not push forward forcefully.