

## User Manual

## Slat Cleaner LSC-200

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## 1 Safety

### 1-1 General safety information warnings!!

! Read all safety instructions carefully. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

! Electrical voltage! Risk of fetal injury due to electric shock

! Remove the plug from the plug socket before undertaking any maintenance work on the machine

! Check the plug, power cable and machine for damage each time before using the machine.

! Keep the machine dry and don't operate it in damp condition.

! Please hold the handle and U-shaped handle when lifting the machine. Do not carry the machine by the motor, cable and other parts; there is a danger of falling.

! Operators are required to protect themselves, such as eye protection, ear protection, gloves, and work shoes.

### 1-2 LISEN Slat Cleaner specific safety information

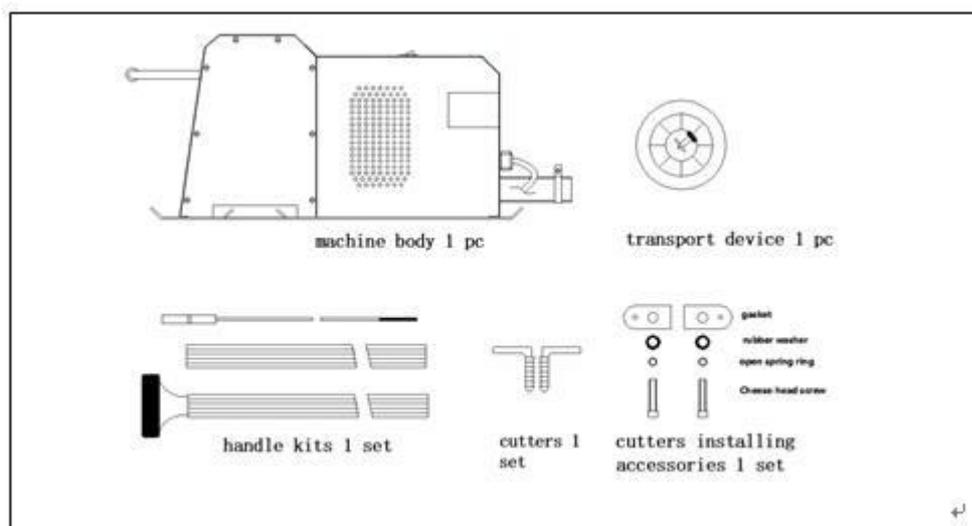
! Always keep the cable in the cable duct of the handle bar when working to prevent it from being scratched by the slats and sharp objects.

! Hold the handle with both hands when working, and do not extend your hand into the working area of the machine, especially between the machine and the flatbed slats.

! After finish cleaning one slat, switch to the next slat on the flatbed to prevent falling.

## 2 Packing list

2-1 Packing list : Machine body 1 PCS; Transport device, 1 PCS; Handle kit, 1 set; Cutters, 1 set; Cutters installing accessories (including gasket, rubber washer, open spring ring and hexagon socket bolt), 1 set. Hexagon socket wrench, 1 PCS; Bayonet wrench (or hexagon socket wrench), 1 PCS; User manual, 1 PCS.



**2-2** Special reminder: When unpacking the wooden case to take out the machine, please hold the U-shaped handle on the front end and the rope on the rear end. The installation rope can be removed after installation. Suggest keep the wooden case for possible repacking/store.

### 3 Technical Data

Input Voltage	220VAC, Single Phase
Frequency	50/60Hz
Rated power	2300 Watt
Rotating speed	1400 r/min
Net weight	25KG

### 4 Operations

#### 4-1 Setting work

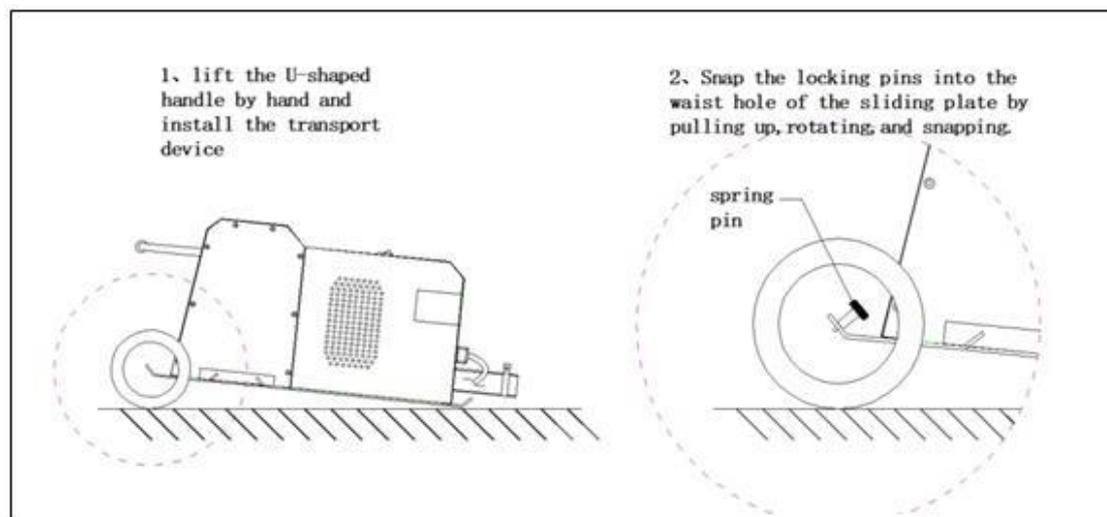
##### 4-1-1 Installing the transport device (an axle with a pair of wheels):

The slat cleaner is supplied with a transport device (an axle with 2 wheels) to simplify transportation. The cleaner can be easily moved to the laser cutting machine on this device. Install the device in the front end of the sliding plate under the U-shaped handle bar.

Pull the both locking pins on the transport device and rotate them by 90° to secure them in an open status. Place the transport device in front on the slide plate of the slat cleaner (locking pins get through the waist-shaped hole in the sliding plate & point to the housing). Rotate locking pins by 90° and lock them in.

**NOTICE:** Check carefully to make sure that the locking pins are tight in place, otherwise, there is a risk of falling off!!

##### 4-1-2 Installing the handle. Refer to the figure below.



Rotate and tighten the screw bar until the coating marking part is flush with the tube nozzle.

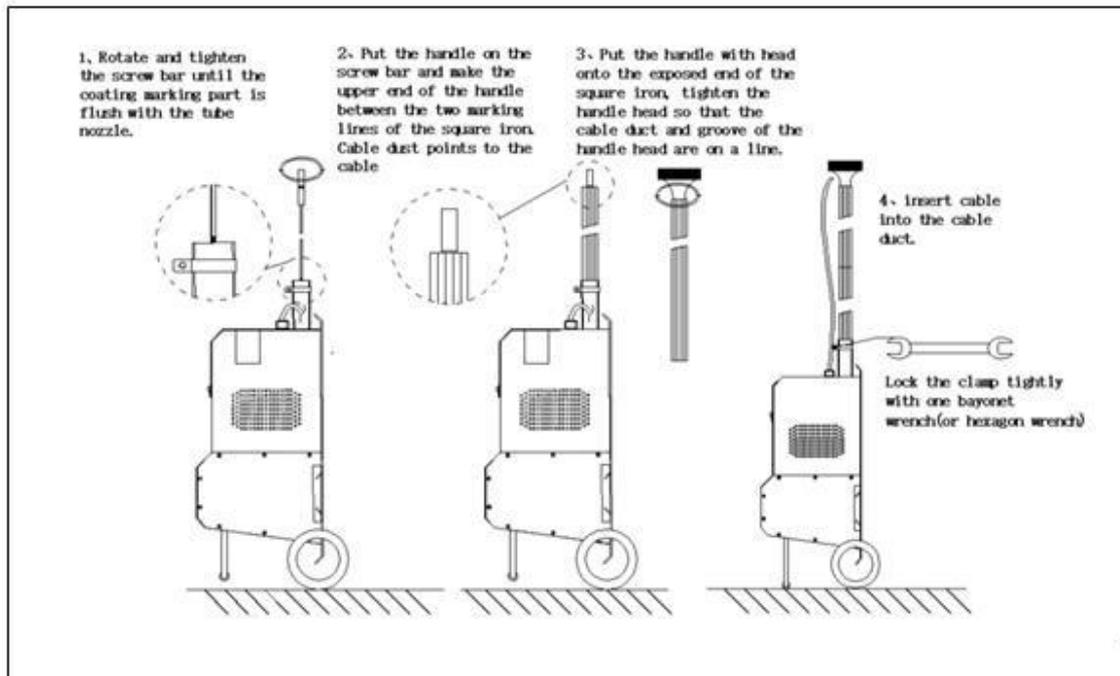
Put the handle on the screw bar and make the upper end of the handle between the two marking lines of the square iron. Cable groove points to the cable.

Put the handle with head onto the exposed end of the square iron; tighten the handle head so that the cable duct and the groove of the handle head are on a line.

Insert cable into the cable groove.

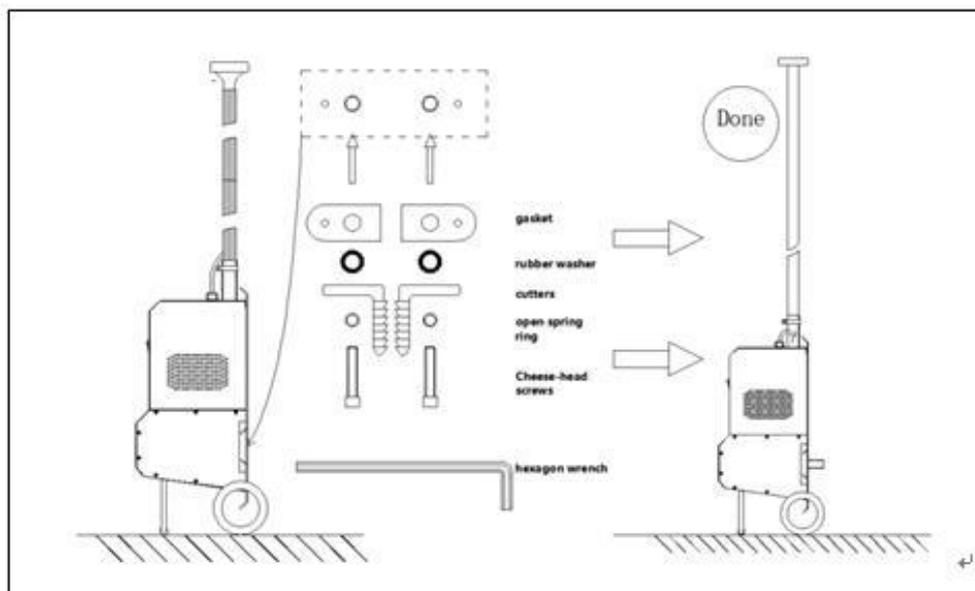
Lock the clamp TIGHTLY with one bayonet wrench.

Insert the cable in the cable groove of the handle bar. Insert the cable into the cable groove at the end. **IMPORTANT NOTICE: MUST lock the clamp to the handle tightly!** Otherwise, the handle may fall off from the machine!!!



#### 4-1-3 Installing the cutters

Put the gasket, rubber washer and cutters sequentially, then use an Allen wrench to lock the M8X40 Allen screw and the open spring washer.



**TIP:**

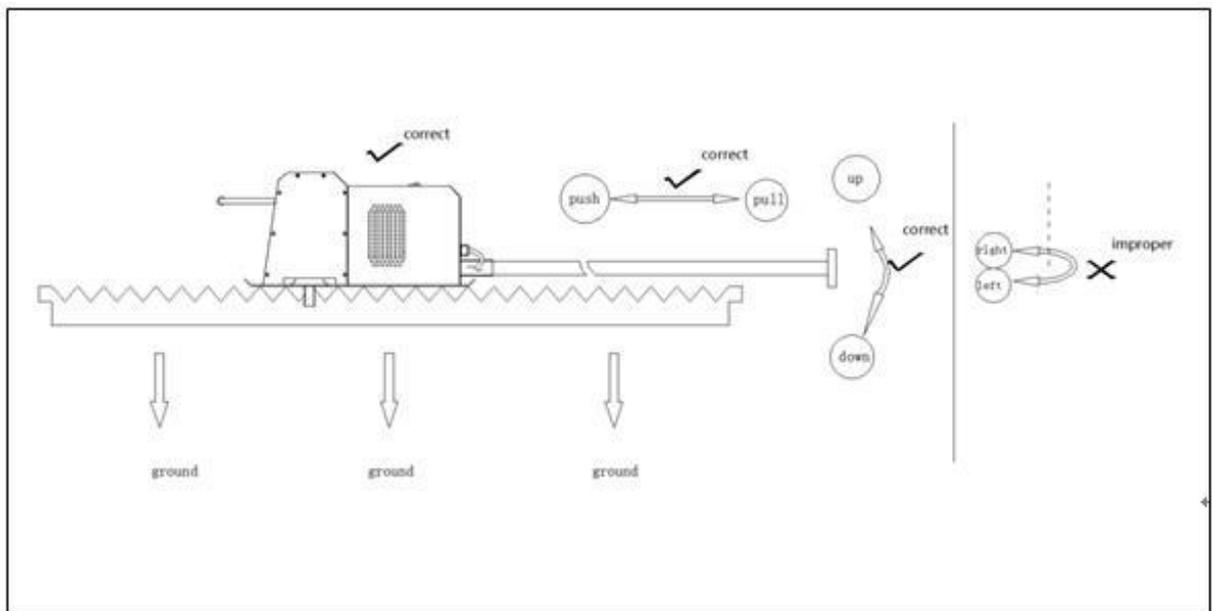
Frequent cleaning with low slag application goes easy on the machine and reduces the force to be applied by the operator.

**4-2 Switch on, working and switch off**

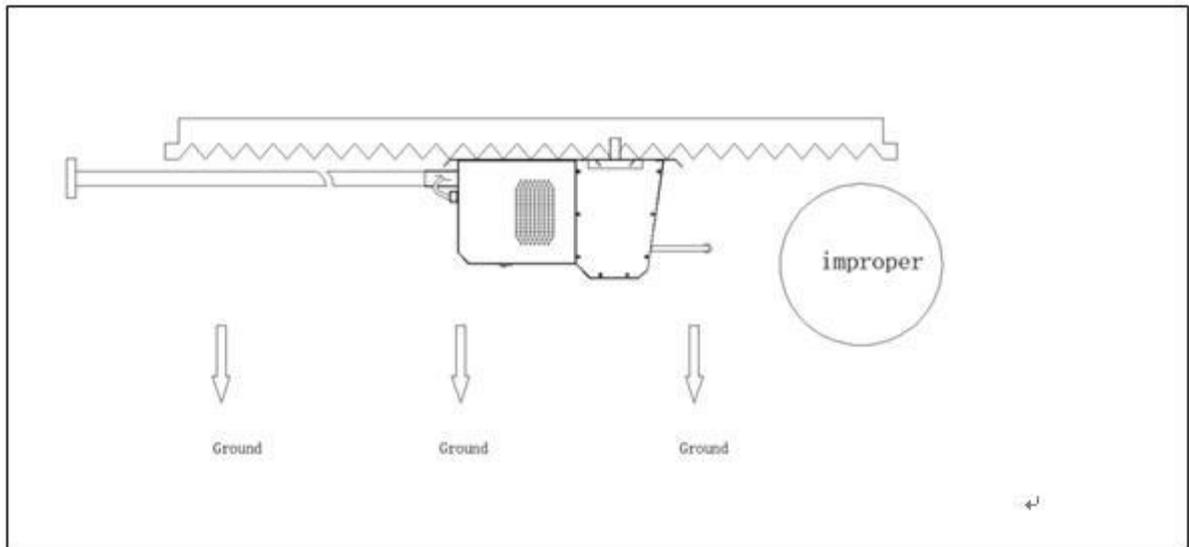
**4-2-1 Preparations.** Move slat cleaner machine to the working position, keep the machine upright, remove the transport device (an axle with two wheels) when holding the handle. Place the machine on the laser support bed flat; let the **cutters into the slats space first**. Turn the rocker switch of the cable and switch it OFF. Connect the plug to the power supply; switch the rocker switch on the machine body ON.

**4-2-2 Switch on.** Lift the handle slightly until you can see the cutters, switch the rocker switch on the cable ON and the machine starts. After visually aligning the cutters during the non-stop opening and closing movement with the slat to be cleaned, gently lay the handle flat to let the machine be completely on the flat table, and then start working.

**4-2-3 Operation.** After starting work, push or pull the machine with the handle to move it back and forth parallel to the slat direction for cleaning. Move the machine from one side of the slat to the other side. Note: You can hold the handle to move up and down (if necessary when cutters need to avoid obstacles) during the process, but you CANNOT swing the machine left and right when holding the slat, and you CANNOT use the device upside down or tilted. See below.



NOTE: the operation in the figure below is extremely IMPROPER!!



4-2-4 Switch off: when finish cleaning, switch the rocker switch off the power. Both rocker switches can control the machine OFF. Choose either rocker switch nearby you for convenient and easy operation.

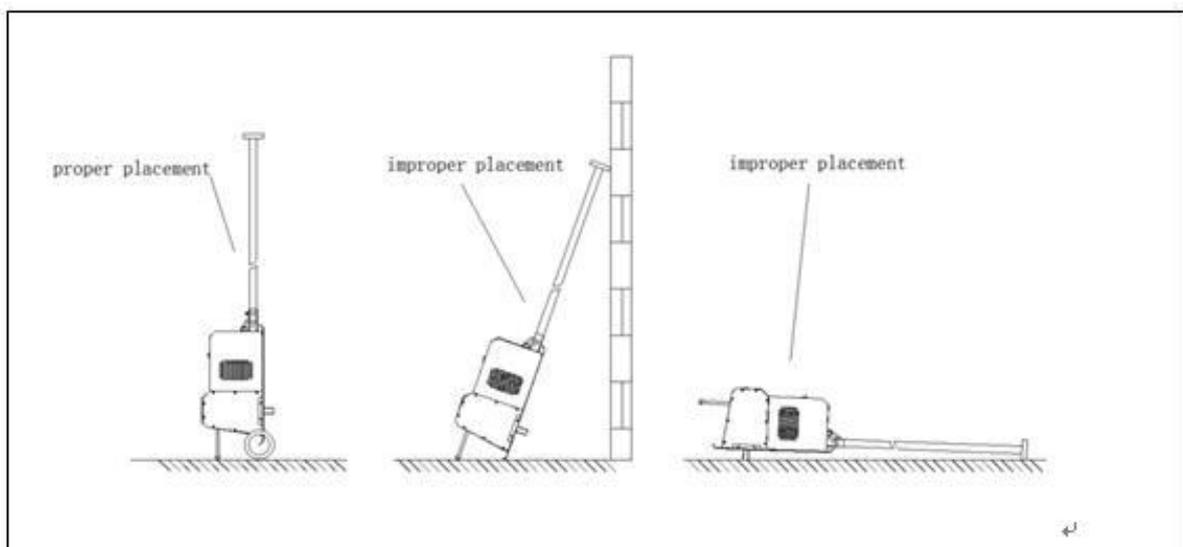
4-2-5 Note: It is recommended that the equipment run continuously for 1 hour and take a break of 10-20 minutes to help maintain the life of the machine.

To see the machine in operation, please go to [www.youtube.com](http://www.youtube.com) to see our related practical videos in the customers' factories site. Refer to the below URL

<https://www.youtube.com/watch?v=0JIOppWPLp4>

## 5 Maintenance

5-1 Placed properly: When not in use, the correct placement is upright as shown in the left figure below; other placements may cause drop damage, and the lower right picture placement is not allowed.



### 5-2 Replacing the cutters

The cutter will wear according to different frequency of use, which is a normal consumable part. When the cleaning effect is not good, it needs to be replaced. Customers need to purchase and replace them by themselves, see the list of accessories at the back or consult the manufacturer.

**5-3 Add lubricant grease at the right time:** Depending on the situation, the manufacturer recommends adding lubricant every 6 months. The frequency of use is not high, and the interval is appropriately lengthened. Please choose Compound aluminum base grease, resistant to 300 °C high temperature butter. Refer to the operation as below. Fill ports are under the name plate.



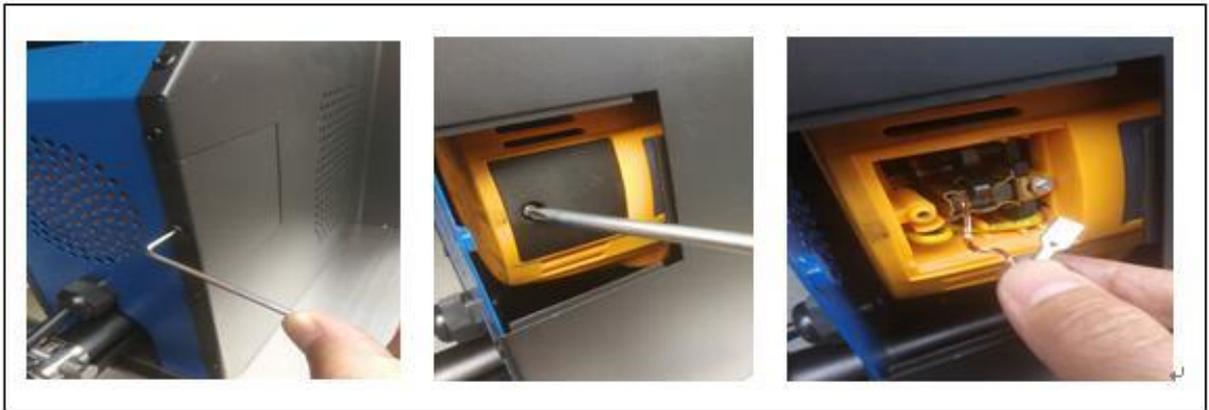
**5-4 Power-on check:** plug in the power supply, check if the red switch indicator light on the machine body is on normally. When the power is abnormal, please check the rocker switch in the middle of the power cord to ensure the connection of the rocker switch is stable.



Rocker Switch

### 5-5 Replacing carbon brushes

The motor comes to a standstill when the carbon brushes are worn out. Change the carbon brushes as below:



5-5-1. Open small sheet metal cover

5-5-2. Open the motor carbon brush cover, then replace the carbon brushes accordingly.

5-5-3. Restore and replace the cover.

## 6 Accessories & Consumables

### 6-1 List of accessories & consumables

The consumable material of this machine is the cutter/tool. Please feel free to contact your sales Rep. or the dealer or the manufacturer.

### 6-2 Ordering consumables

Please contact the manufacturer or related sales staff directly.

## 7 Special Statements

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

Please use the equipment correctly. Always keep the tool facing down when working, and do not clean the tool facing up or on the side, which will cause serious machine damage!