



## User Manual

# SLAG



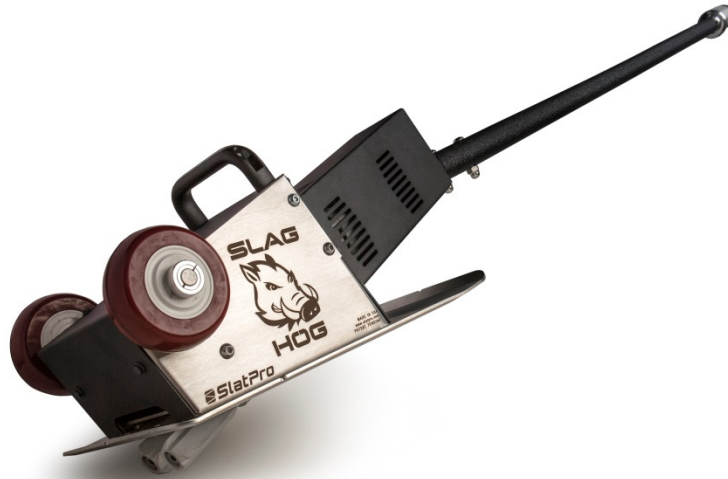
# HOG

**67123 SHL**

**67269-SHL**

Slag Removal Tool for use on laser cutting machines with  
minimum 1.75" between slats

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## 1. Safety



### 1.1 General Safety Instructions

**ΔWARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

### 1.2 Slaghog Specific Safety Warnings and Instructions

- A. Unplug tool from power before performing maintenance on Slaghog
- B. Use protective equipment. Always wear safety glasses when working with the machine. Protective clothing is recommended such as dust mask, gloves, steel toed non-slip footwear and hearing protection.
- C. Do not expose tool to wet conditions or operate in damp environment
- D. Power cord to be kept clear from working range of machine. Always lead cord away from machine. Do not apply tension to power cord.
- E. Switch tool off immediately if it stalls. Lift cutters out of slats before restarting.

## 2. Supporting Information

### 2.1 Conditions of use

The tool is only to be used for removing the slag from slats on laser cutting machines where the slats create a horizontal plane and the vertical slat sides are cleaned. The slats may be steel, stainless steel or copper. Not to be used in wet areas or outside.



### **WARNING**





### 2.2 Mains Connection

Connect only to single-phase AC voltage as indicated on the rating sticker. Plug-in receptacle to have ground contact with current capacity exceeding the tools rating.

Only plug in when tool switches are off.



## 2.5 Symbols

	Caution! Warning! Danger!
	Always disconnect the plug from the socket before carrying out any instructions
	Please read the instructions carefully before starting the machine.
	Tool uses protective earth and must be plugged into grounded outlet

## 3. Description

The tool is moved along the slats on the bed of a laser machine to remove slag that accumulates while cutting. Rotary cutting tools ride on each side of the slat to lift and remove the slag. It may be used on steel, copper or hybrid steel/copper slats. When not in use it may be rolled along the floor and stored in the upright position.

## 4. Initial Assembly


The Slag Hog ships in two pieces; power unit and the handle assembly. All fasteners are metric.


- Remove the nuts and button head socket screw from the 1.36" diameter stub on the power unit.
- Slide the handle on the stub with the power out cord of the handle on the same side as the plug in on the power unit.
- Plug the power cord from handle tube into the power unit

### **WARNING**

- Do not plug into power outlet before verifying the switches on the handle and power unit are off; both rocker switches to 0.

## 5. Operation

-  The tool must be plugged into a receptacle with a grounded outlet  
Before plugging into power verify that the two switches are turned off  
Wear work gloves and safety glasses when operating  
Lift onto the cutting machine bed with care

-  **WARNING** Use extreme care near the cutters. Do not touch them unless the tool is unplugged.

## The tool has two on/off switches



**Figure 1**  
Rocker switch on handle end, in off position, acts as circuit breaker reset in case of over-current



**Figure 2**  
Rocker Switch on motor enclosure in off position.

Both switches must be in ON or "I" position to run. Turning either switch OFF ("0" position) stops motor operation.

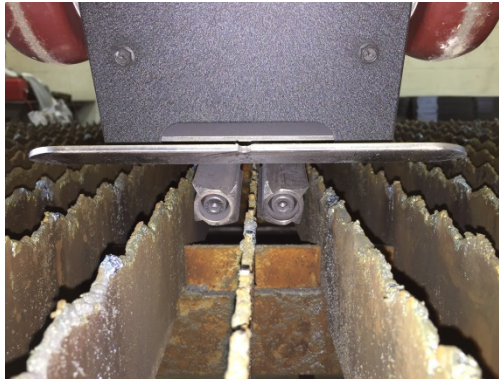
The upper left picture shows the on/off switch that acts as the circuit breaker when the unit is overworked. If the slats are not straight it is possible for the cutters to grab onto two slats and stall the motor which will trip the breaker. If this occurs wait a minute, reset the breaker switch, and resume operation. When slats have excess slag build up it may cause the circuit breaker to overload. If this happens the operator will need to reduce force used for cleaning slats. If this occurs, reset the breaker, and resume operation.

To begin use, place the tool on the slat bed of the laser machine, center the cutters over a slat, and turn on both switches. Cutter rotation will pull the tool down on the slats. The slats can be cleaned by moving the tool in either direction along the slat.



**Figure 3**

With switches off, plug tool into a power outlet with appropriate current capacity to accept value given on machine label or as shown above in the Technical Data table.



**Figure 4**  
Cutters shown centered on slat

To see the unit in operation, go to Youtube and search for Slaghog. The best video is:  
<https://www.youtube.com/watch?v=PDvEFRREdgg>

The cutter geometry is ideal for most slat/pallet bed configurations. If the fit of the cutters on the slats does not seem correct contact the factory to find out options that are available.

When storing in upright position the unit is unstable and care must be taken to ensure that it does not fall over, which may lead to damage of handle end components. Damage due to dropping, improper handling, or falling over is not covered by warranty.

## 6. Maintenance



**WARNING** Disconnect power by unplugging from outlet before performing any work on the tool

### 6.1 Cutters

The cutters will wear over time and require replacement.

Tools required for replacement

- 6mm L hex wrench
- 6mm male hex socket wrench
- Adjustable open wrench

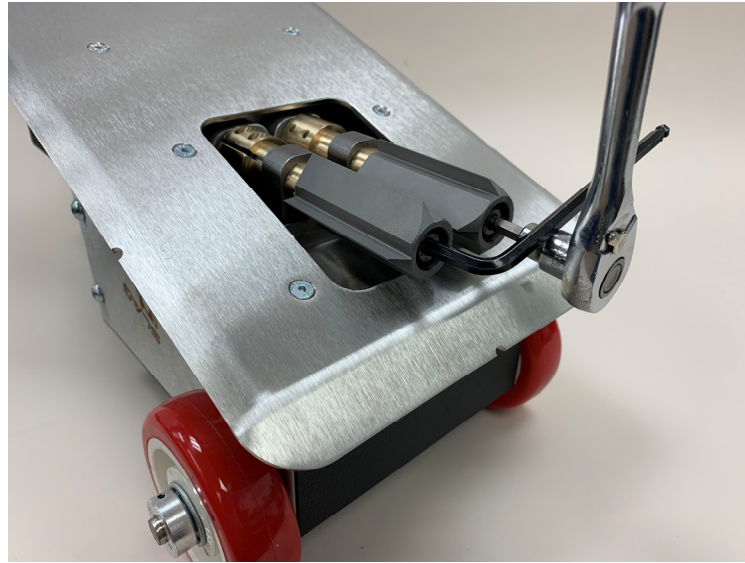
### Replacement Cutters

- 66106 – 14ga Slats
  - 66031 – 11-12ga Slats
  - 66105 – 10ga Slats
  - 66095 – 7ga Slats
  - 67267\* –0.250" & 6mm Slats
  - 67283\* – 8mm Slats
  - 67067 – .11/12ga Deep Slats
- \*Used in 67269 Wide Center Slag Hog

Parts required are RH & LH Cutter Set with cap screws. The most common cutters are 66031 SET for 11/12ga slats. Most replacement cutters come with two M8 x 22 cap screws, two washers, and Blue Loctite 242. 67067 Cutter is longer and uses a M8 x 70 cap screw.

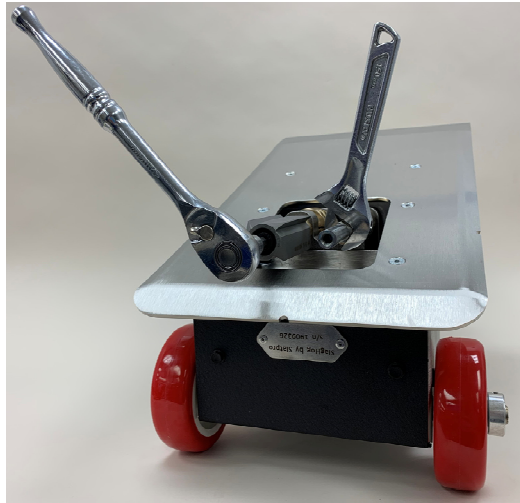
Place the tool on its back with the cutters up.

Place the wrenches as shown and remove the right cutter cap screw with counterclockwise rotation. Remove the right cutter. The cutter may be tight on the shaft and will require light tapping with a hammer to remove.



**Figure 5**

Place adjustable wrench on flats of right shaft and remove left cutter with counterclockwise rotation.



**Figure 6**

Slide the new right hand and the left-hand cutters so that the flats between the shaft are facing the base plate as shown. The cutters rotate so that the slag chips are pulled up toward the base plate. The cutters must be installed as shown.

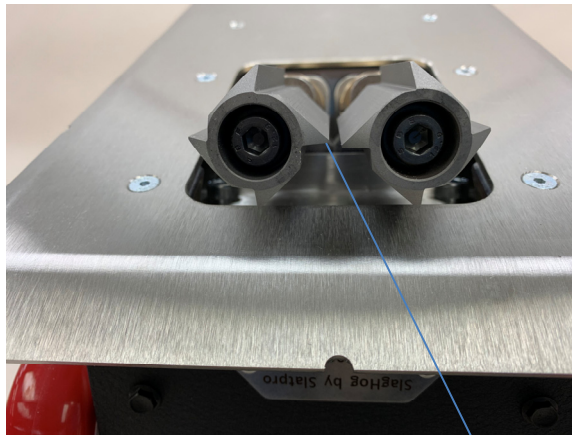


Figure 7

Flat side of cutters towards base plate

Apply Loctite 242 to the cap screw threads. With washers in place, thread then tighten cap screws into shaft ends using the male hex socket wrench and L hex wrench approach.

### Cutter Wear

Even though cutters are made from hardened tool steel they do wear and will need to be replaced. When slag removal gets worse it may be time to replace cutters. The best way to determine if they are worn is to measure the distance between cutter tips. The below picture shows the proper gap for new 11-gauge cutters.



Figure 8 Measuring Cutter Gap

When the gap has increased by .050 it is time to replace cutters.

Slat		Max Gap
gauge	Thick(inch)	
14	0.074	0.124
12	0.104	0.154
11	0.119	0.169
10	0.135	0.185
7	0.179	0.229

Table 1 Max Gap for Cutter Replacement

### Other Wear

If the measured gap is less than the slat thickness, the Cutter Support Plates may have worn from hammering action after repeated use. This condition will overwork the motor and cause short brush life and may damage the motor. Call SlatPro for further advice on this problem.



## 6.2 Motor Brushes

If the tool has less torque while in use, it is likely that the brushes need replacement.

Parts Required: **Qty 1 of 67179SET Brush Kit for SH3**

There are access holes to brushes in top and bottom of Motor Enclosure

Unthread and remove Brush Caps from motor

Remove old brushes and install new and thread caps back in place

## 6.3 Other maintenance

All other repairs require qualified personnel to perform. In this case, the factory or distributor should be contacted for further instructions.

## 7. Warranty

The Slaghog product warranty, issued by Slatpro LLC, guarantees that all products are free from material and workmanship defects for 12 months from the shipping date, provided they are used under normal conditions. This limited warranty is non-transferable and applies solely to the original purchaser of new products bought directly from Slatpro or authorized distributors. If a defect is identified, Slatpro may choose to repair, replace, or refund the purchase price of the product, with the buyer's sole remedy limited to these options. Notably, the warranty excludes coverage for issues arising from misuse, inadequate maintenance, unauthorized modifications, and normal wear and tear, including consumables such as cutters.

## Slaghog Troubleshooting Guide

Problem	Probable Cause	Solution
The machine is not cleaning well.	Cutter gap is too large or too small. <i>See Figure 8 and Max gap table.</i>	If measured gap is smaller than slat thickness, send unit in for a rebuild/repair. This could mean that cutter support plates are worn or there has been a bearing failure.
		If the gap is too big, replace the cutters.
	Cutters are installed incorrectly. <i>See figure 7</i>	Check to see if the cutters may have been installed backwards. Install the cutters correctly.
The machine is not starting.	The switch in the handle end box has failed.	Replace the switch. See parts list for proper part number.
	The switch in the motor enclosure has failed.	If you replace the switch in the handle end box and the unit is still not starting, replace the switch on top of motor enclosure.
	Issue with wiring.	Refer to repair manual, verify all wires are properly connected.
	Motor has malfunctioned	Check to see if brushes have worn. If worn, replace brushes. If brushes are not worn, replace the motor.
Sparks are coming from inside motor	Motor has malfunctioned or brushes are worn.	Check to see if brushes have worn. If worn, replace brushes.
		If brushes are not worn, replace the motor.
Burning smell and sparks coming from inside motor enclosure	Motor has malfunctioned.	Replace the motor.
Grinding sound while running, or cutters not rotating	Broken gears in gear housing	Check and replace gears and motor.

# EC Declaration of Conformity

## Object of the Declaration

Product Model/Type	Slaghog Tool used for removing slag from laser machine slats 67123-230V-SHL & 67182-230V-SHLN 67123-230V-HD 67123-230V-HD2 & 67123-230V-HD2L 67269-230V-HD2 & 67269-230V-HD2L
Manufacturer Address	Slatpro 4757 Mustang Circle, Mounds View, MN 55112, U.S.A.

This Declaration is issued under the sole responsibility of the manufacturer

*The object of the declaration described above is in conformity of the relevant union harmonization legislation*

2011/65/EU  
2006/42/EC  
2014/30/EU

*Conformity is shown by compliance with the applicable requirements of the following documents:*

### Reference & Date:

EN 60745-1:2009 + A11:2010  
EN 55014-1:2017/A11:2020  
EN 55014-2:1997/A1:2001,A2:2008  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
EN 50581:2012

Signed for on Behalf of	Slatpro LLC
Place of issue:	Mounds View, MN, USA
Date of Issue	5 <sup>th</sup> of May 2025
Name:	Eric Chalmers
Position:	President of Slatpro LLC
Signature:	

