

# S-D508 PCB Depaneler User's Manual



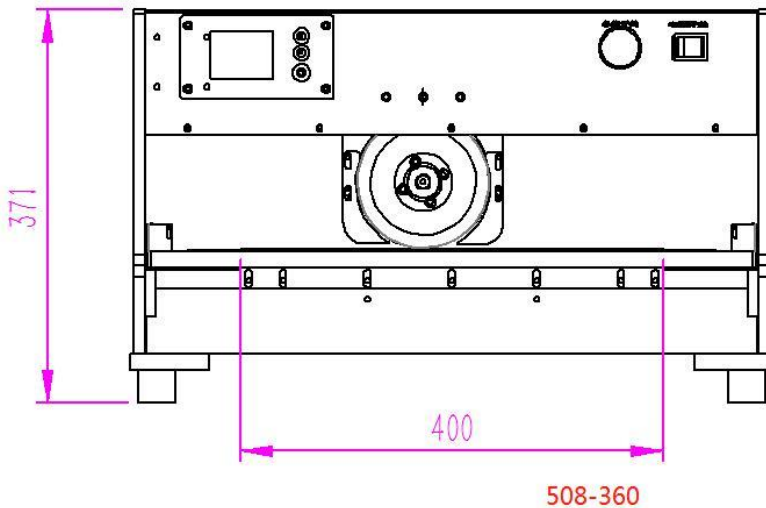
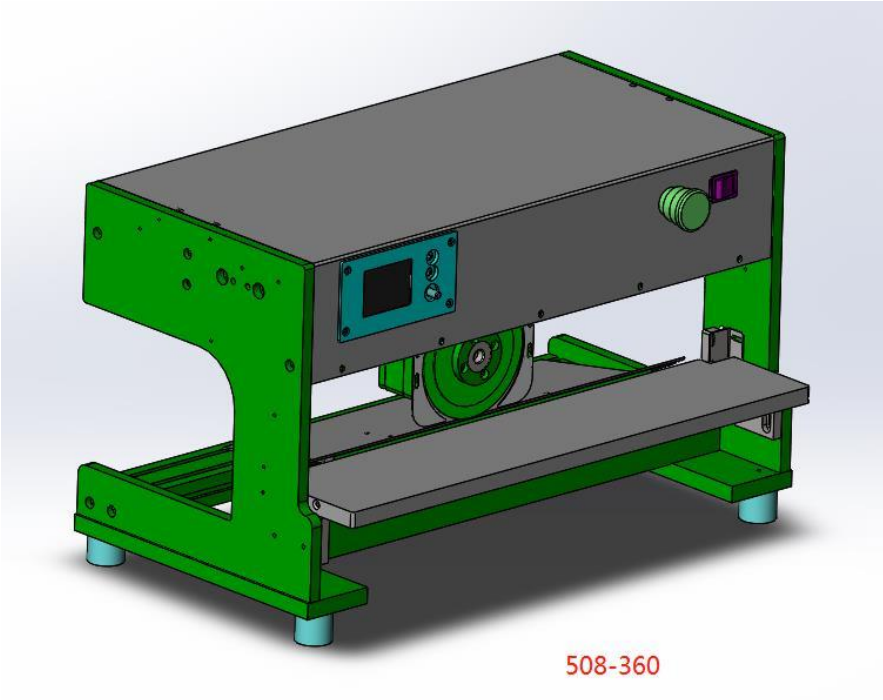
## Operation Manual

Manual for **S-D508** Plate Separator

### I. Notes:

- \* Before using the machine, please read this manual carefully, and it will help you operate it smoothly.
- \* Do not remove the guard around the blade under any circumstance, in order not to cause any danger
- \* The machine is only designed for circuit board with pre-scored V-cut, do not use in other purposes.
- \* When operating this machine, do not wear too loose clothes. Long hair should be tied up to prevent it from being entangled.

## II. Parts name of the machine (see Figures 1 and 2):



1. Plate mode tuning knob
2. Power indicator and the origin
3. Plate trip button
4. High/low speed switch
5. Emergency stop switch

6. Upper blade
7. Guard of upper blade
8. Height tuning knob of upper blade
9. Upper blade seat
10. Lower blade
11. Outer tray
12. Guard of lower blade
13. Side panel
14. Manual knob screw
15. Height limiter of upper blade

### **III. Technical indicators:**

Maximum plate length of ASC-508: unlimited

Thickness of plate: 0.2-5.0mm

Plate feeding speed: 300-500mm/ second

Blade material: SK61D high speed steel

Operating temperature: 10-35 °C Storage temperature: -20-50 °C

Power supply: 230V110V,50HZ/60HZ,40W

S-D508 size: 650mm\*340mm\*430mm

S-D508 weight: 49KG

### **IV. Preparation before installation and use of the machine**

1. Check the objects in the packing box, including the following parts: host, manual, power wire, pedal switch and hexagonal wrench for tuning.
  2. Remove the packing bag of the machine, place it onto the solid work bench, and wipe antirust grease on the blade.
  3. The machine must be reliably earthed to prevent the damage by static electricity to the components on the
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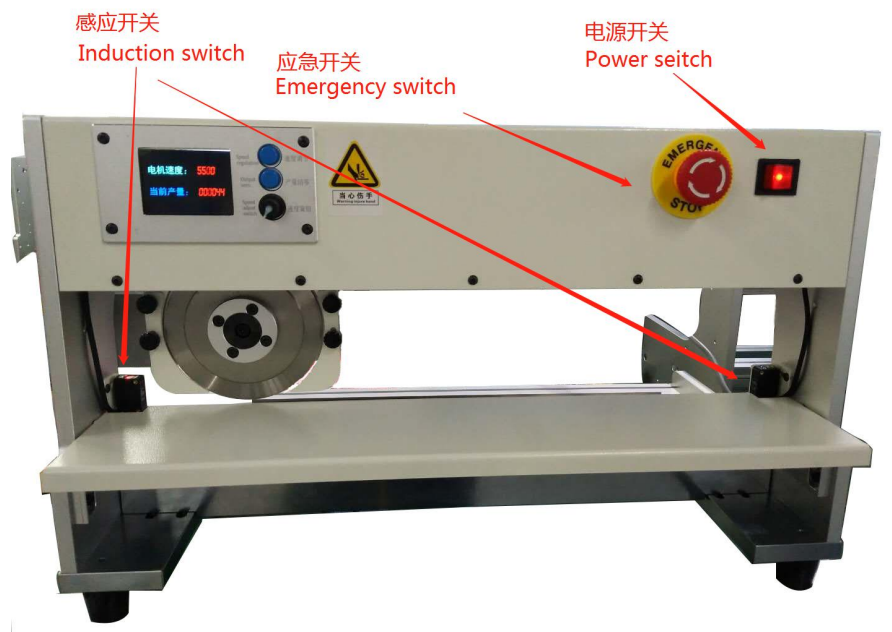
circuit board. If the ground in the power socket is reliable and effective, the machine will be reliably earthed once it is powered.

4. Fix the outer tray (11) to the machine with two fixing screws, adjust the height of the components on the circuit board to adjust it to a suitable height, and manually lock the tray knob screw.
5. Plug the pedal switch into the corresponding socket at the back of the machine, to ensure the supply power is correct before powered.

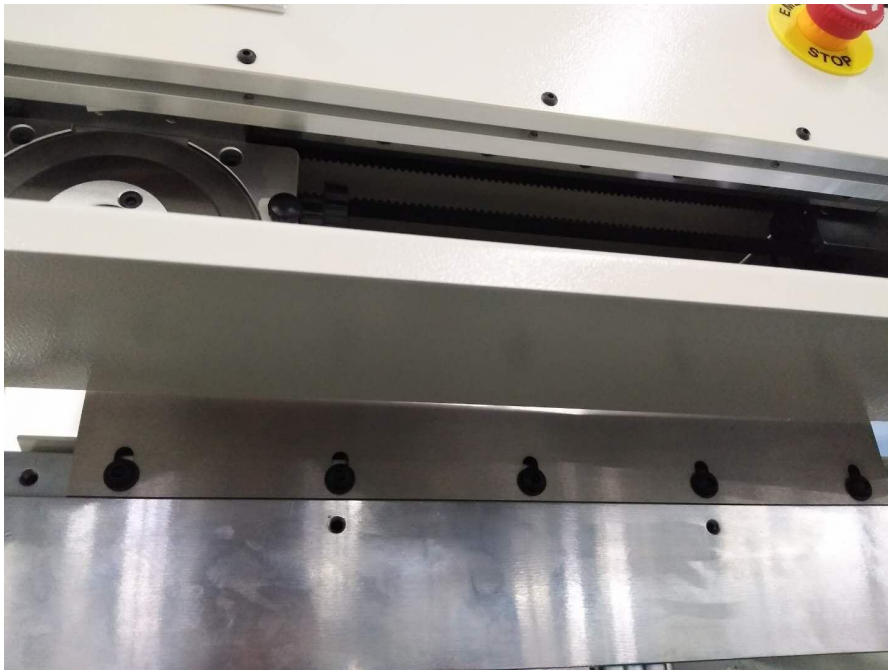
## V. Adjustment of machine:

1. Ensure the components on the circuit board will not collide with the body and blade. See Figure 1 for the dimensions of the machine. The height of the components on the circuit board will not exceed the scope. If the components on the circuit board touch the blade, contact us to pre-process the blade to avoid the cutting of components.
2. According to the thickness of the circuit board, adjust the height of the upper blade by adjusting the knob.

## VI、 Adjustment of the speed



图一



## **VII. Daily maintenance of machine:**

During the use of the machine, the maintenance work is quite simple. Keep the machine clean, and paint the anti-rust grease on the upper and lower blades on a regular basis. Designate a person responsible for the operation and maintenance, to ensure the machine precision. Do not use or store it under high or low temperature (see Section 3).

## **VIII. Replacement of the blade:**

After long use of the machine, if the blade is damaged, loose the adjusting knob screw (16), to remove the damaged old upper blade; if the lower blade is damaged, remove the inner tray (13), loose the four screws on the lower blade, to remove the damaged old lower blade.

## **A. Instruction of the control panel:**

1. The high / low speed switch is a speed control switch, including slow and fast speeds. Before using, set it to the slow speed, and when the operators become skillful, set it to the fast speed, in order to ensure the quality of plates.
2. The mode switch is a system switch, including the foot or spot movement. In the mode of the former mode, the indicating light will flicker and alarm when it does not reach the preset travel. Cancel the alarm and continue the work.
3. The emergency stop is the emergency stop button, and can be used as the panel.
4. After the completion of the equipment use, set the upper blade back to the original point before cutting off the power to ensure safety.

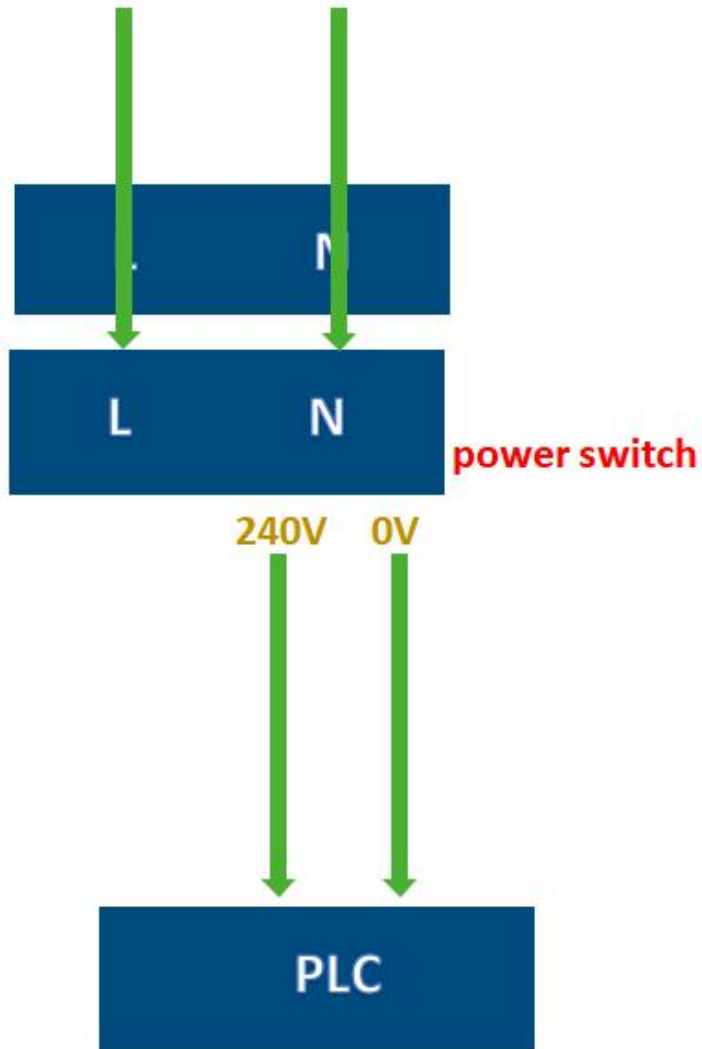
## **B. Operation instruction:**

1. Connect to the power supply and start the switch. Indicator lights 0 and 400/600 flash, press the button corresponding to the flashing light, the light will on continuously. Press the foot switch, and the upper blade will return to the origin and can move between 0 - 400/600. Touch key 0 or key 400/600 to allow the indicating light to flash, and touch 100/150. 200/300. 300/450. Any key can allow the corresponding two lights to make them on constantly, then the upper blade travels between these two lights and the upper blade can travel between any points of 0-400/600.
2. Adjust the gap between the upper and lower blades, generally between 0.1 and 0.2. The gap between the upper positioning blade and lower positioning blade is generally equal to the thickness of PC board.
3. The upper and lower cutters must be in the same plane, and the error cannot exceed 0.1mm.
4. Adjusting method of eccentric distance
5. The working platform can be adjusted upward or downward.
6. Set the cutting travel and speed, and setting method shall follow the adjustment method mentioned above.
7. Step on the pedal switch, and try sometimes. In case of no abnormality, formal work can be started.

## **C. Basic maintenance:**

1. After the completion of the work, please turn off the power supply and remove scraps.
2. Pay attention to the protection of upper and lower cutters.
3. When the machine is out of work for a long time, please remove the upper and lower cutters and coat with oil to protect. Please wipe it before use.
4. Pay attention to checking the fastening of all screws

## IX. Machine circuit diagram



Forward — Y0

Flip — Y1

Y2

Buzzer — Y3

Y4

Y5

X0 — Pedal

X1 — Right limit

X2 — Left limit

X3 — Emergency stop

X4 — Reset

X5 — Photoelectric Sensor