

Operation Instruction on Cold Light Source Plate Burning Machine



I. Characteristic and range of application

This machine has advantages of accurate time control, well-proportioned intensity of light source, stable wavelength, high degree of vacuum-pumping and so on. It is steady and reliable with simple operation. It is suitable for the exposure of high-precision lines, net points and highly dense reticle stencils.

II. Technical parameters

1. Supply voltage: AC220V/50Hz
2. Power: 30W*9 pieces
3. Largest plate area: 900*600mm

4. Time control on exposure: 1~999 seconds
5. Power of vacuum pump: 120W
6. Rate of vacuum-pumping: 1L/second
7. External size of machine: 1200*750*300mm (special specifications can be customized)

III. Preparatory work before starting up

1. Check whether the power supply conforms to the requirement of operation, which means voltage should within the scope of $AC220 \pm 5\% V/50Hz$ and be stable. People with conditions can install the voltage stabilizer.
2. Check the equipment and check whether its grounding works well. Don't use this machine without grounding. Make sure both the equipment and people are safe.
3. Check whether the preset time of the time relay in this machine matches the preset exposure time. (The exposure time will be determined by some factors such as the sensitive adhesive), for example, if the preset time of this equipment shows "000", the exposing lamp can't be started.
4. Check the input terminal of this machine's power cords and make sure the red cord is "fire wire", otherwise, adjust it.
5. Connect the vacuum pump. Plugging on the vacuum pump power and connecting inhalation tube with three-way piece of equipment. Inspecting whether oil pointer of vacuum pump and fuel charge are proper or not. The oil surface is suitable in the middle position of oil pointer.

IV. Operating procedures

1. Power on. The local access should be provided with a switch blade

with 15A, and be matched with fuse, making a sufficient protection by it.

2. Press the “power” switch. The indicator light on the power switch is lighted, showing the power supply of equipment has been plugged in.

3. Open the cover and put the screen printing plate that needed to be exposed on the glass table, then registering. Press the “register” power switch and turn on the register light inside the machine. After the register, put down the cover and close it tightly.

4. Move the bleed needle and make it stay closed. Press the “vacuum” power switch to activate the vacuum pump. About 10 to 30 seconds later when the halftone is completely adsorbed and compressed tightly by the rubber blanket, (at this moment, the voice of the vacuum pump lowers), proceed with the next operation.

5. Keep the vacuum pump always under the working condition, and press the power switch of “sense light” for 0.5 to 1 second to make exposing lamp start working. Meanwhile, the timekeeping of digital displayed time control begins. When the preset time ends, the exposing lamp is off automatically, then the automatic time control is realized.

6. Press the power switch of “vacuum” to close vacuum pump. Pull the needle valve of deflation to aerate the space between net plate and rubber blanket. After the vacuum adsorption is gone, open the cover and take out the net plate, then finish the exposure process of a net plate.

7. Repeat from step 3 to step 6, until finish all the halftone needing an exposure.

8. Shut down the “vacuum”, “plate adjustment” and “power” switches, being ready to be used again.

V . Notices:

1. Equipment should be grounded reliably to ensure personal safety.

2. During the exposure process of this machine, the preset time cannot be changed in order to avoid damaging the timekeeping equipment.

3. The exposure lamp must rest for at least 5 minutes before start working again.

4. Only the oil in the getter pump of this machine reaches the midcourt line of oil pointer can this machine begin work.

Notes: We can customize particular specifications according to the requirements of customers.

Controlled by digital time, the product has accurate exposure time, is easy to operate and maintain. Equipped with deflation valve, it returns air quickly, which greatly increases the efficiency of plate burning.