Shanghai BOCI Automation Technology Co., Ltd.

BLT Photo paper detection function FAQ

Version: V1.0

Keywords: photo paper detection

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Please complete the relevant operations under the guidance of the manufacturer's professional technicians!

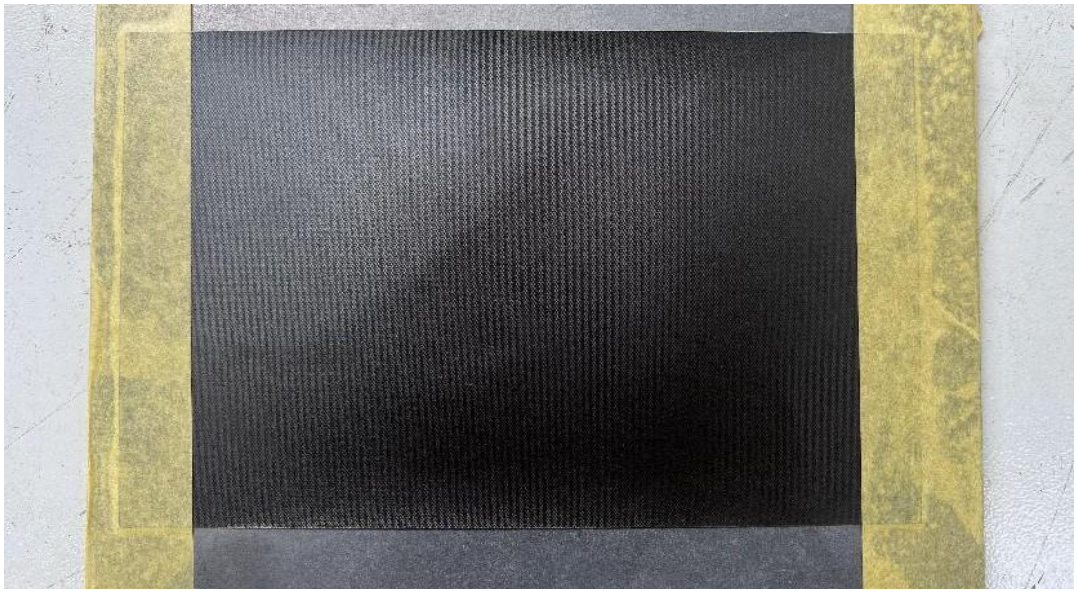
1. Function Description

Laser photo paper detection is mainly used for preliminary investigation of whether there is pollution in the optical path and the degree of pollution.

(Note: Laser-specific dimming photo paper must be used for detection, ordinary photo paper cannot meet the application requirements)

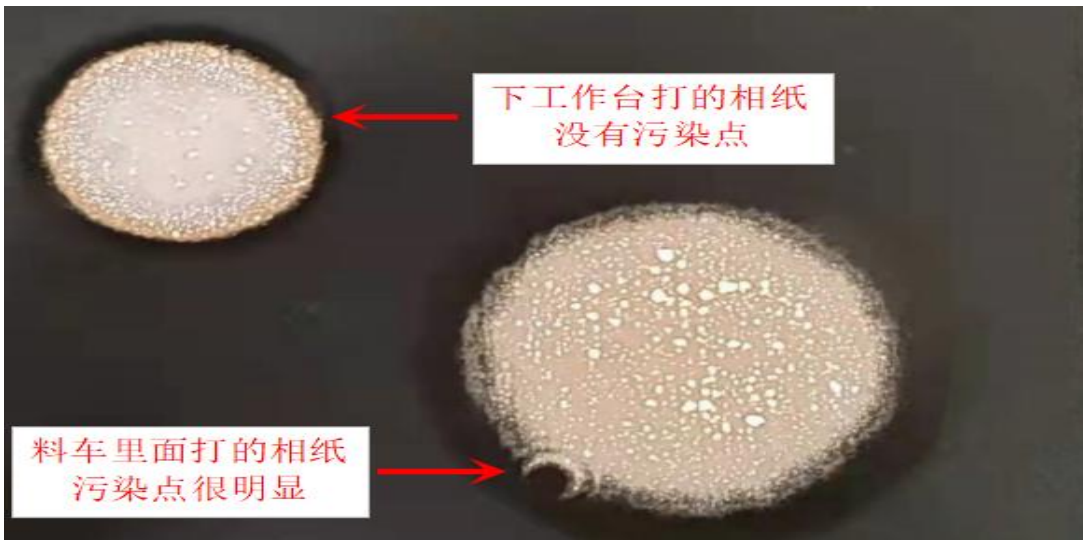
1.1 Steps

Step 1 : Lay the photo paper flat on a board, and stick flat on both sides or four corners with textured paper. And the size of the board should be smaller than the size of the material cart, just slightly larger than the photo paper)

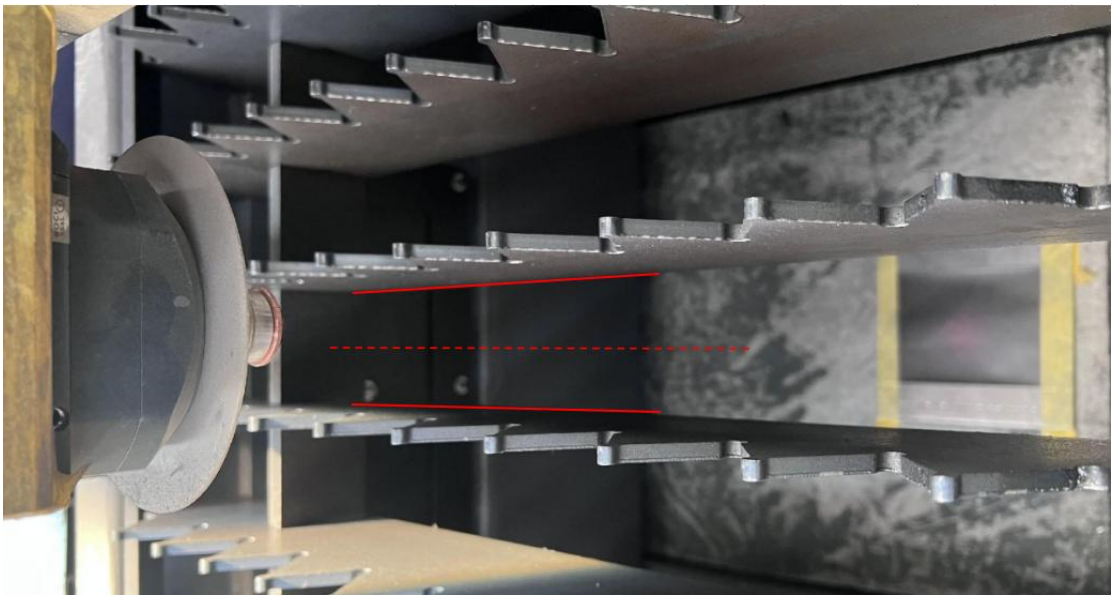


Step 2: Put the board with photo paper in the feeding cart.

(The photo paper is recommended to be placed in the material cart farthest from the cutting head. The spot produced at this position will be larger, which is more conducive to observing the pollution state of the optical path)



Step 3: Turn on the red light and move the cutting head through the red light so that it is located in the middle of the two rows of racks as much as possible to avoid hitting the rack during the light emitting process .



Step 4: Fine-tune the position of the photo paper in the feeding cart to ensure that the red light is inside the photo paper.

Step 5: Replace the ≥3.0 nozzle, or remove the current nozzle.

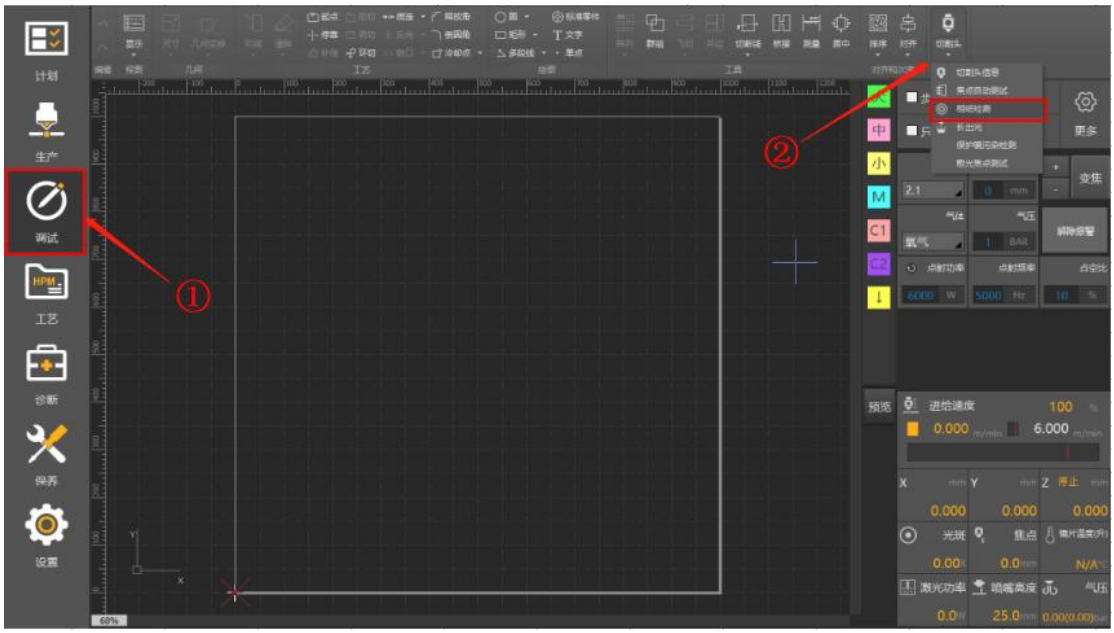
Step 6: Set system parameters. See the next section for system parameter setting for details.

Step 7: Click " Precise Lighting " , and quickly remove the cutting head after the light is emitted to prevent the smoke and dust generated by the printing paper from polluting the lower protective lens .

2. System settings

2.1 FSCUT8000 system parameter setting steps

Step 1: Debugging interface → click the cutting head drop-down arrow in the upper



right corner → select photo paper detection.

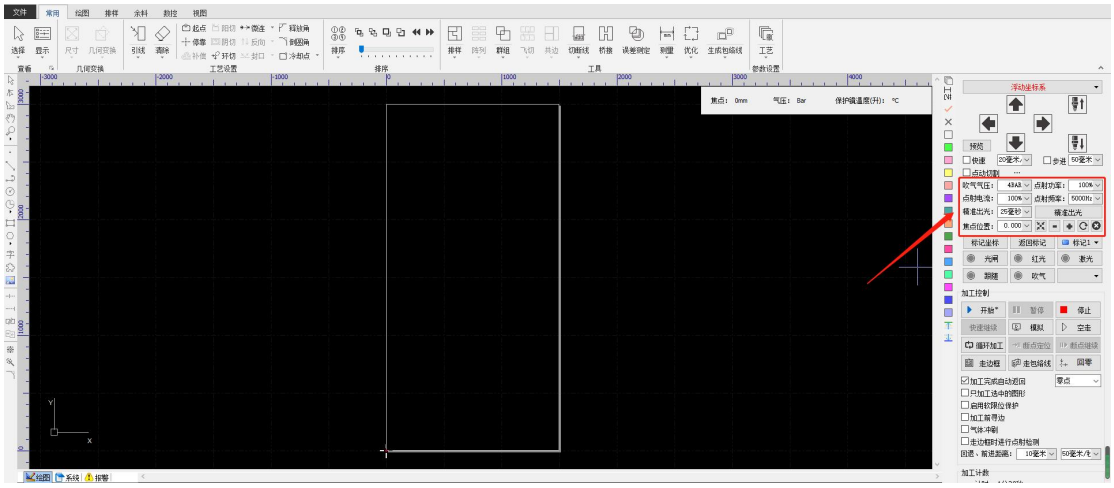
Step 2: The recommended parameter settings are as follows:

- Laser power: about 10000w, set the power of less than 10,000w to 100%
- Duty cycle: 100%
- Frequency: 5000Hz
- Accurate light emission time: 25ms

2.2 FSCUT2000S system parameter setting steps

Step 1: System main interface → power setting

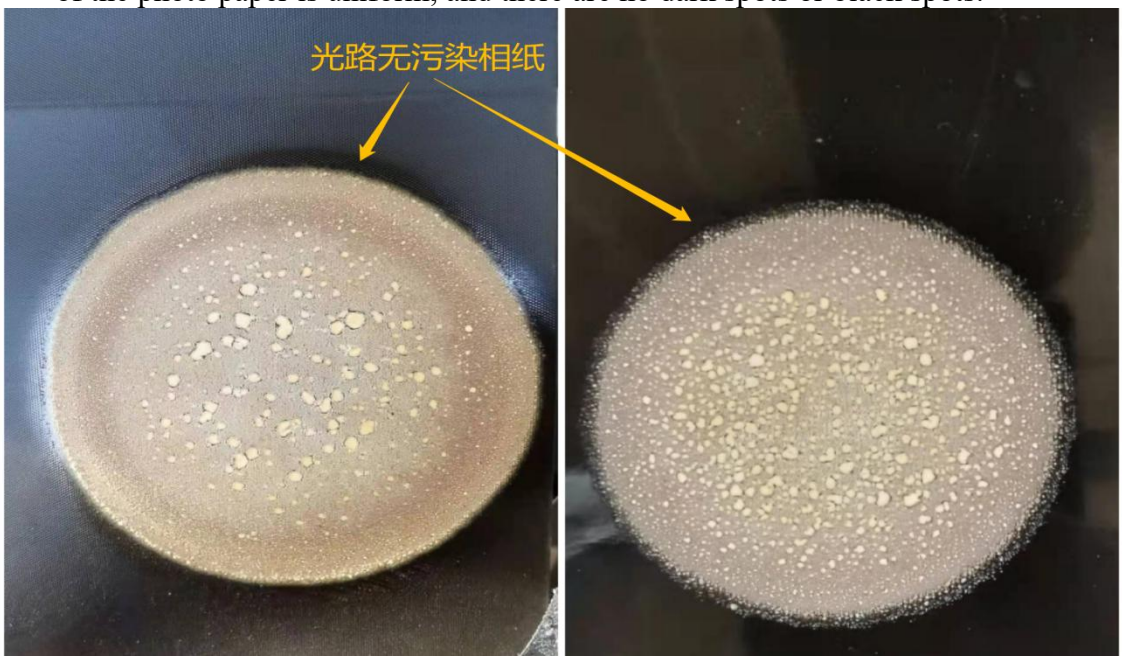
area.



Step 2: Refer to Step 2 of document 3.1 for power setting of printing paper.

3. Paper Condition Analysis

The pollution-free photo paper is as shown in the figure below, the energy distribution of the photo paper is uniform, and there are no dark spots or black spots.



Contaminated photo paper is shown in the picture below, and there will be regular circular dark spots or obvious black spots on the photo paper.