



Aluminum Laminated Film Forming Machine for Pouch Cell

Operation Manual

First of all, thank you for using our products. Please read the instruction manual carefully before using this equipment.

Model: AOT-PCF-200

Introduction: Suitable for punching and forming of aluminum laminated film for pouch cell case. This forming machine adopts imported pneumatic and electrical components, controls the pressurizing cylinder stamping molding die, and makes the aluminum laminated film forming at one time. The operating table is equipped with a safety grating protection device, if the operator crosses the safety range, the automatic emergency stop is performed.

Main Features:

- *Adopt guide post structure, smooth up and down sliding and high precision;
- *It is simple and fast to change the mold and adjust the drawing depth;
- *Compared with similar products, aluminum-plastic film products of the same quality are stretched deeper and more stably;
- *Precise mold design, no crow's feet and slumps at all corners and surrounding areas of the product after molding;
- *It is protected by light curtain and cover, which is safe to use;
- *Mould materials imported from Japan and high-strength chrome steel and alloy aluminum are used, and the surface is treated with environmentally friendly electroplating and baking paint;
- *Exquisite appearance, the sheet metal adopts three-dimensional geometric design, simple and beautiful;
- * Easy to operate, safe and reliable, small size;

Operation procedure



Figure 1

1. Connect the power supply and air source, close the hand slide valve, and the air pressure is about 0.6MPa.

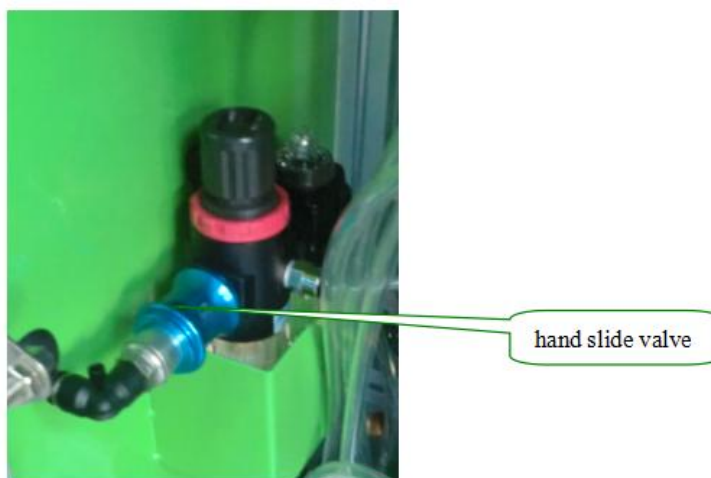


Figure 2



2. Set the depth of the punch shell, there is a nut on the top to control the stroke of the booster cylinder to control the depth of the punch shell, as shown in the figure 3.

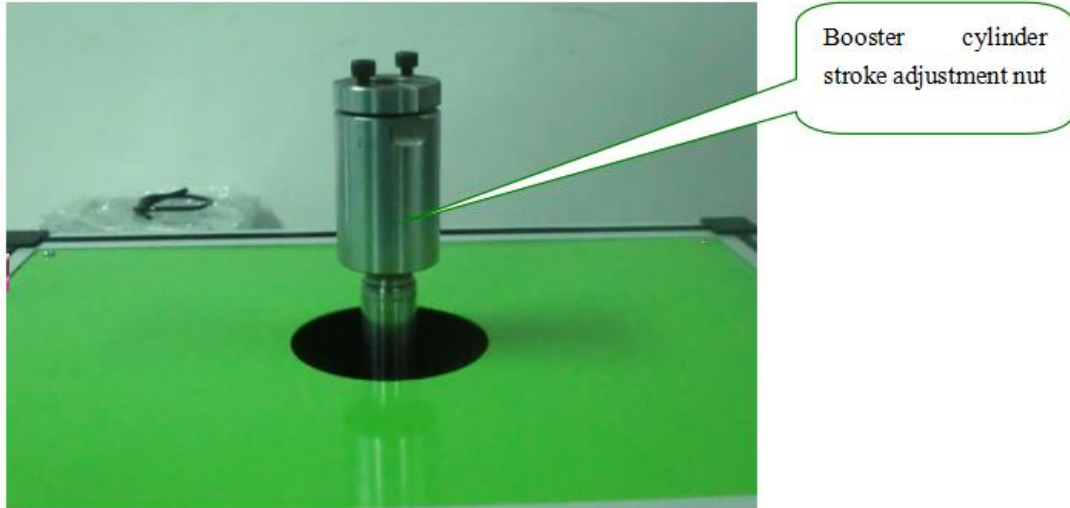


Figure 3

3. Put the cut aluminum laminated film into the mold for positioning, and press the middle button to the automatic state. Then press the left and right start buttons with both hands at the same time, the booster cylinder drives the mold to automatically punch the aluminum laminated film into the shell, and then take out the pouch case to complete.

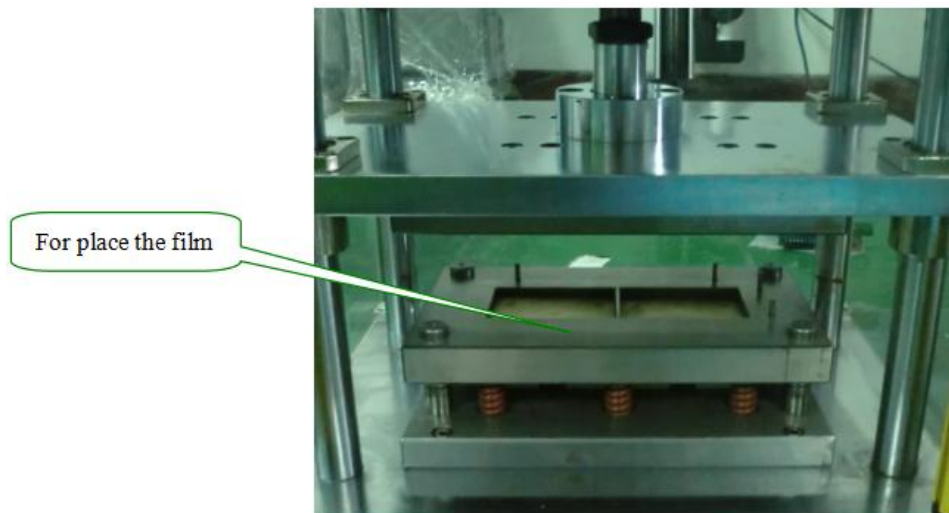


Figure 4 (Default is single pit)



Figure 5

*Timing adjustment: Press the following dial to adjust the timing setting value. Pressurization and pressure holding time timing (the time has been set before leaving the factory)



Figure 6

Technical Parameter

1. The working pressure of the mold is 0~5T (adjustable).
2. Speed 200-400pcs/H (depending on process requirements).
3. Working pressure: 0.6~0.8Mpa.
4. Working voltage: AC220V 50HZ. (110V optional)
5. Maximum power loss: 100W.
6. The external size is about: 450*350*950 (mm, length*width*height).
7. Single pit punching depth <6mm
8. Weight: About 200KG



Maintenance methods and precautions

1. Wipe the swing roller and stacking table frequently to keep it clean.
2. Lubricate the moving parts of the bearing slide rail to keep the movement smooth.
3. If not in use for a long time, wipe the surface of the machine clean, wrap it with packing tape and store it.
4. Regularly check the screws, nuts, pins and other fasteners of each part of the machine to prevent loosening and prevent machine quality accidents and personal accidents.

Safe operation rules

1. During operation, it is strictly forbidden to stretch your hands and other parts to the punching die, the moving parts of the ball guide post and guide sleeve, and the dangerous area of work to cause personal injury. During operation, two or more people are not allowed to operate to avoid accidental injury.

Remarks: It has safety light curtain, electrical protection device and safety shield, so that all moving parts are located inside the shield to ensure personal safety.

2. External technicians and external designated personnel cannot disassemble and debug the equipment arbitrarily, and are not allowed to disassemble circuit components without permission.

Common Troubleshooting

| Item | Fault phenomenon | cause | Method of exclusion |
|------|-------------------------------------|--|--|
| 1 | The cylinder cannot go down, return | 1. Insufficient air pressure 2. Solenoid valve damage 3. The start switch is damaged | 1. Adjust the air pressure to 0.7MPa 2. Replace the solenoid valve 3. Replace the start switch |
| 2 | Cracked corners of the product | 1. The shell flushing stroke is too large 2. The material is larger than the mold size | 1. Adjust the stroke of the punching shell by rotating the nut on the top of the cylinder. If the stroke is too large, the corners are easily broken. 2. The size of the material to be cut should be smaller than the size of the mold |