



厦门嘉利施电子科技有限公司
XIAMEN AOT ELECTRONICS TECHNOLOGY CO.,LTD

Pouch Cell Die Cutting Machine Operating Manual

Model: AOT-DC-300





Product Introduction:

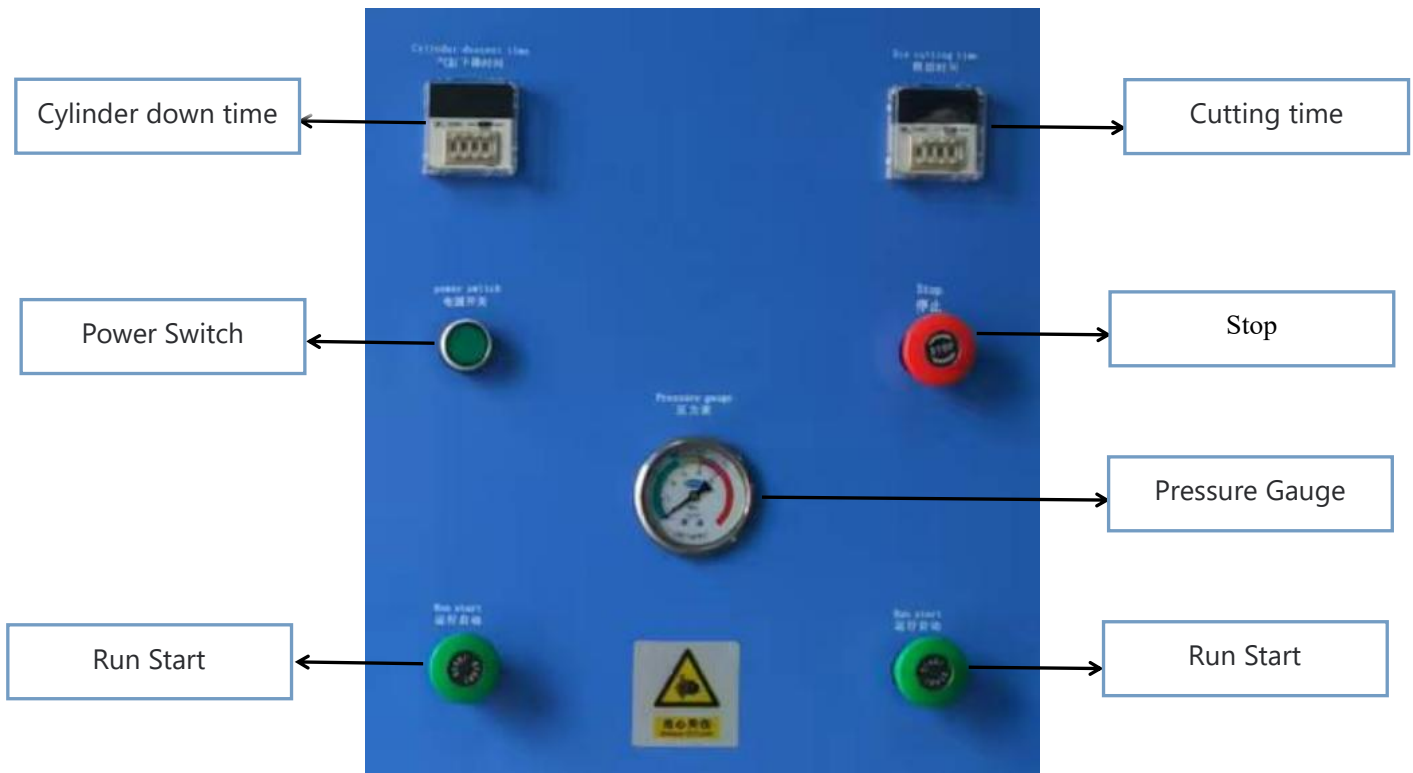


Figure 1

The die cutting machine is mainly used for die-cutting of cathode and anode electrode sheets of pouch lithium batteries.

The equipment carries on the single-chip stamping die for the sheet or roll electrodes through the booster cylinder, and can provide various shapes of knife dies according to customer requirements to realize the forming and die-cutting of battery electrodes of different sizes.

Function and characteristics

1. Easy installation and debugging, long repetitive work time;
2. The stretched product has a beautiful appearance and smooth rounded corners;
3. Equipped with safety grating protection device;



Technical Parameters:

1. Working gas source: dry compressed gas 0.5-0.8 MPa, 100L/min.
2. Max Die working pressure: 1000KG (adjustable). The 3000 Kg is optional
3. Punch accuracy: $\pm 0.1\text{mm}$.
4. Work efficiency: 800-2000 PCS/h (adjustable according to process requirements).
5. Power: 220V/50 Hz , 100W
5. The external dimension is about (L*W*H): 550x400x900 (mm).

Structure Introduction

This equipment consists of a frame, stamping part, blade film part, and control part. The stamping part adopts a gas-liquid booster cylinder as the power source, with fast and stable transmission speed, large output, multiple installation methods, and a clean and hygienic working environment; The cutting tools are made of imported materials, with high precision and easy installation and adjustment; The control part adopts imported pneumatic and electrical components

Installation, adjustment and precautions:

1. The environmental temperature of equipment installation should be controlled between -20 °C-60 °C, the equipment should not be placed in a polluted environment with dust or serious corrosive gas, and the minimum distance between the equipment and the surrounding equipment shall not be less than 0.5m, so as not to affect the operation and daily maintenance, the equipment should be placed firmly, the four feet should not be suspended, the installation site should not have regular vibration, and serious impact should not be allowed to occur.
2. Check that each part of the connecting cable is connected correctly.
3. Check that the air path is connected correctly.
4. Operators should be familiar with the operation steps of the equipment and the functions of the switches before they can operate on the machine, in order to prevent personnel and equipment damage caused by improper operation.

Operating Steps :

1. Connect the power and gas source, press the main power switch, the cylinder descent timer (2 seconds), the pressure boosting die-cutting time (0.5 seconds, the time can be adjusted according to the actual size of



the electrode sheets, and it should be increased by 0.5 seconds during the test run)

2. Open the air source and waiting for the gas pressure reach to above 0.6 Mpa.
3. Manually place on the cutting die set and fix it.
4. Place acrylic plate on the base, then place coated electrode sheets on the acrylic plate.
5. Press the double start button with both hands to perform stamping / die cutting.
6. Press the stop button to finish the process , and then take out the punched electrode sheet.

Warning: Please do not put your hand and other things into to working area during the punch process, to avoid injuries and accidents.

Maintenance methods and precautions:

1. Wipe the dirt on the guide pillar and other moving parts frequently, keep it clean, and lubricate it to keep it moving smoothly.
2. When the machine is not used, keep oil valve loosened to return the moving template(lower die) to the initial position. If the machine do not need to use for a long time, take out the upper die and clean it, then apply oil to keep surface clean and smooth.
3. Regularly check the screws, nuts, pins and other fasteners on all parts of the machine to prevent looseness, and prevent the quality accidents and personal accidents.
4. During the operation, it is strictly forbidden to put the hand and other body parts to the dangerous place of the guide pillar, slide plate and working area. Two or more people are not allowed to operate it together to avoid accidental injury.

After-sales service:

1. The equipment has been debugged and qualified since it left the factory. If problems are found in the course of use, it should be stopped for maintenance, and should not work with problem, so as to avoid the deterioration of the problems. If you encounter any problems that cannot be solved, you should inform the manufacturer in time.
2. The user shall not change the structure and control mode of the machine at will, otherwise it does not fall within the scope of warranty.