



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

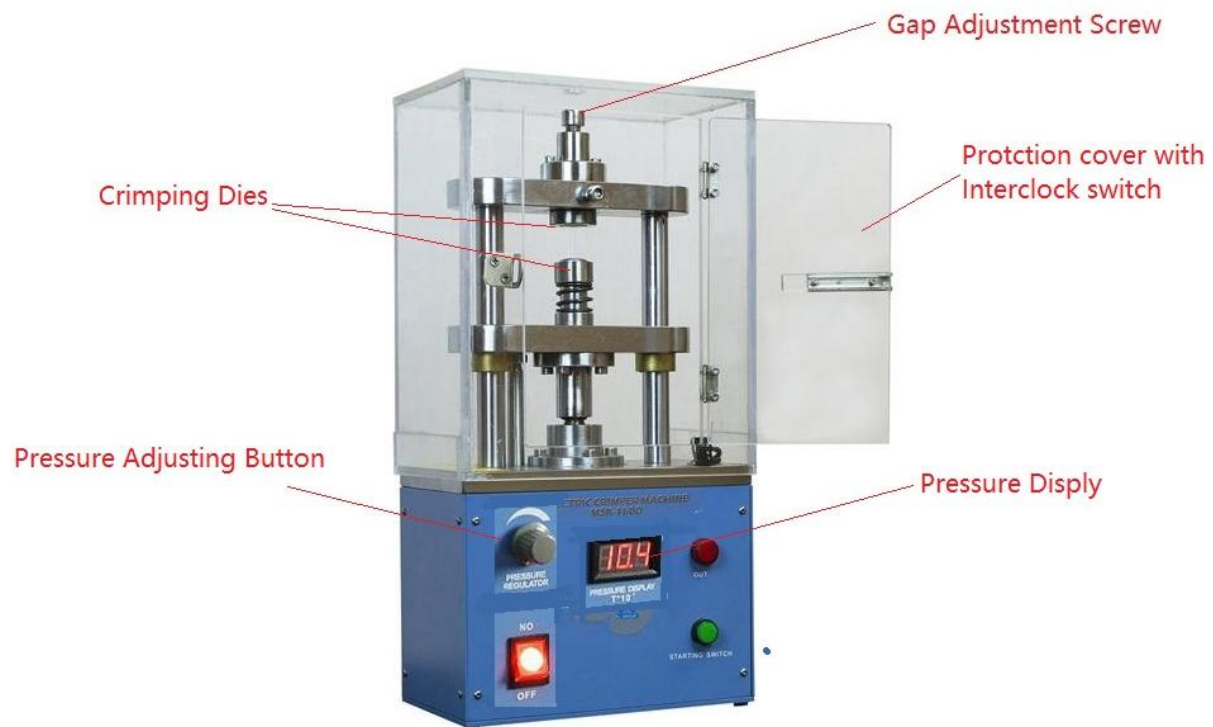
Pressure Adjustable Electric Coin Cell Crimper

Operating Manual

Model: MSK-160E

Product Introduction:

MSK-160E is a compact Pressure Adjustable Electric Crimper for CR2016, CR2025, and CR2032 coin cells. The use of a 24VDC motor enables the operation inside a glove box under the Ar atmosphere for Li-S, Li Metal Air, and Li half-cell testing. The digital pressure controller can keep the crimping force consistent at each time. The compact size of the crimper allows the user to move it in or out from the airlock chamber of the standard glove-box.





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Note: A1,A2,A7 are upper mold parts; A2-A6 are lower mold parts



Note: B1,B2,B7 are upper mold parts; B2-B6 are lower mold parts



Main Feature:

1. The precise mold design ensures accurate and reliable crimping performance, the solid steel structure design, which is stable and safe to use.
2. Specially designed electric crimping and disassembly structure, easy to operate, only need to push the switch to complete the crimping and disassembly of the battery case.
3. Small size, easy to operate, can be placed in the glove box.
4. Beautiful appearance, easy maintenance, easy operation.

Usage

1. Connect to power supply, open the power switch, power light on.
2. Well place coin cell case on the lower mold (locating sleeve), the the negative case upwards.
3. Confirm the cases is well placed, and check there is no obstructions around the mold, adjust the pressure to needed value, push start button, the lower mold is rising, it will automatic going down after crimping/disassembling.

- Note:** 1. Before crimping the mold, make sure that the adjusting screw on the device is under stress. Looseness of this screw will affect the encapsulation quality.
2. The maximum display pressure on the display is 1.39 tons

CR2032 oin cell cases

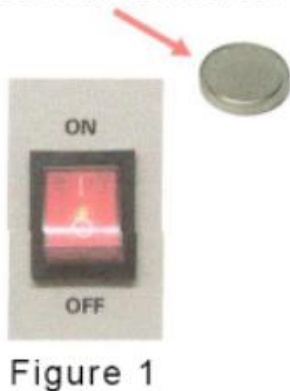


Figure 1

Mold positioning sleeve



Figure 2



Sealed cases



The method for replacing disassembling mold parts:

1. Turn off the power switch to ensure that the device is not powered;
2. Take out the lower mold parts including the positioning sleeve, lower mold core and spring (as shown in Figure 4);
3. Use the standard Allen wrench to loosen the upper die locking screw (as shown in Figure 4), and take out the upper mold parts. Replace the crimping die (as shown in Figure. 5) in the upper mold part with a disassembled die (as shown in Figure. 6). Then reinstall the upper die parts and tighten the upper die locking screw with an Allen wrench;
4. Replace the crimping lower core (as shown in Figure 7) in the lower die part with the disassembled lower core (as shown in Figure 8). Then refit the spring and locating sleeve. And re-integrate the lower die part into the concave die fixing sleeve;
5. Turn on the power switch (as shown in Figure 1);
6. Put the sealed coin cell case with the positive downward and the negative upward flat into the positioning sleeve of the lower mold part (as shown in Figure 9);
7. Make sure the button battery to be disassembled is well placed, and check if there are no hands or other obstructions around the mold; After the inspection, press the work start button to start disassembling the battery case. After the disassembly is completed, it will automatically go down.

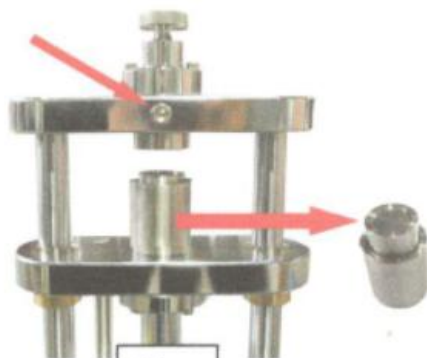


图 4

Figure 4



图 5

Figure 5



Figure 6

图 6



图 7

Figure 7



Figure 8

图 8

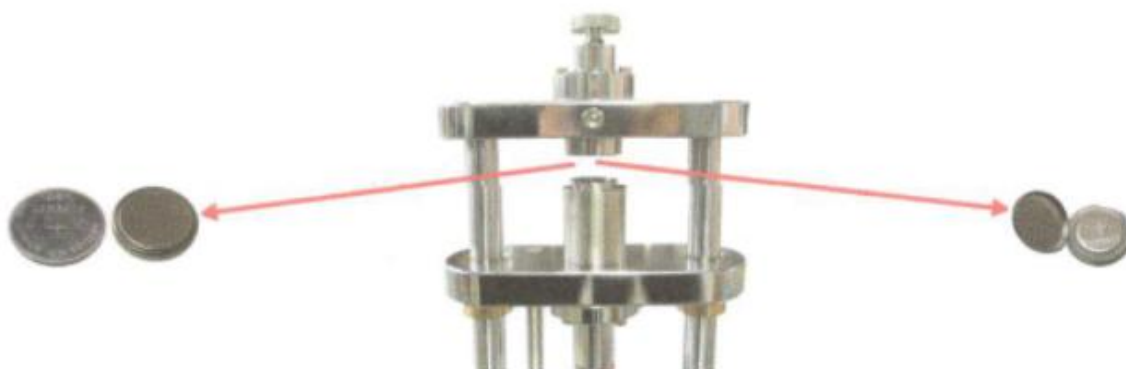


Figure 9

Warning:

1. It is forbidden to operate the machine without putting on coin cell cases, it will cause damage of crimping/disassembling die set.
2. Regularly check the screw (as shown in Figure 10) on plate of upper die set, if it is loosen, it must be tighten before use.
3. Note: after use, please clean die set in time, to avoid the electrolyte corrodes the mold.
4. When the top pressure adjustment screw is rotated until it feels that the spring has been pressed, then start to seal the battery case after two more turns. If the battery case is stuck on the upper mold and cannot be removed automatically after crimping, or the bottom of the battery case is dented and deformed, the above two situations can be eliminated by properly rotating the adjusting screw for two more turns.

Cautions: Failure to clean the mold in time may affect the service life of the mold and cause the product to not be used normally.

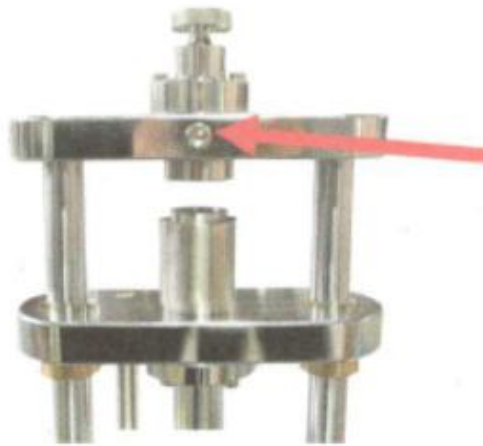


Figure 10

Technical Parameters:

1. Imported mold material from Japan
2. Structural material: high-strength chrome steel and alloy aluminum, the surface will not rust after environmental protection plating and spraying treatment.
5. Dimensions: 250mm*140mm*420mm
6. Net weight: 23kg

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.
5. Please avoid using water to clean mold, it can be wiped with alcohol or dry towel.