



## Box compression tester



|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Name</b>      | <b>Box compression tester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>2. Use</b>       | The machine is to test pressure strength of packaging products, so as to guard against as a result of insufficient strength of packaging products in the use, handling, stacking, storage, transportation, as well as the products in the process of deformation and damage phenomenon, is testing the cartons, plastic, or other packaging container, the most direct compression strength test instrument used for determination of the container and stack height. |
| <b>3. Principle</b> | The electronic display pressure testing machine uses the motor drive screw to make the upper platen move down, thus compacting the test material; Results LOAD CELL force sensor is used to connect the display to automatically display the force value.                                                                                                                                                                                                             |



# 东莞市豪恩检测仪器有限公司

## Dongguan Haoen Testing Instrument Co., Ltd.

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| <b>4. Three working modes</b>          | <b>Strength test:</b> the maximum pressure of the box can be measured;<br><b>Constant value test:</b> the overall performance of the box can be tested according to the set pressure;<br><b>Stacking test:</b> according to the requirements of national standards, stacking test can be carried out in 12 hours, 24 hours and other conditions. |
| <b>5. Conform standards</b>            | GB/T 4857.4-92 package transport package pressure test method.<br>GB/T 4857.3-92 package transport package static load stacking test method<br>TAPPI-804, JIS-Z0212, ISO 2872, ISO 2874, QB/T 1048 etc.                                                                                                                                          |
| <b>6. Technical parameter</b>          |                                                                                                                                                                                                                                                                                                                                                  |
| 6.1 Model                              | <b>HE-KY-600/HE-KY-800/ HE-KY-1000</b>                                                                                                                                                                                                                                                                                                           |
| 6.2 Capacity                           | 500KG, 1000KG, 2000KG, 5000KG                                                                                                                                                                                                                                                                                                                    |
| 6.3 Compression space                  | <b>600×600×600 mm/800×800×800 mm/1000×1000×1000 mm</b>                                                                                                                                                                                                                                                                                           |
| 6.4 Power unit switching               | kgf, gf, N, kN, lbf                                                                                                                                                                                                                                                                                                                              |
| 6.5 Stress unit switching              | MPa, kPa, kgf/cm <sup>2</sup> , lbf/in <sup>2</sup>                                                                                                                                                                                                                                                                                              |
| 6.6 Displacement unit                  | mm, cm, in                                                                                                                                                                                                                                                                                                                                       |
| 6.7 Load decomposition                 | 1/250,000                                                                                                                                                                                                                                                                                                                                        |
| 6.8 Display precision                  | ±0.25%                                                                                                                                                                                                                                                                                                                                           |
| 6.9 Test speed                         | 1~300mm/min (adjustable)                                                                                                                                                                                                                                                                                                                         |
| 6.10 Upper and lower plate parallelism | <2mm                                                                                                                                                                                                                                                                                                                                             |
| 6.11 Control mode                      | PLC touch screen control                                                                                                                                                                                                                                                                                                                         |
| 6.12 Compression device                | Dynamic pressure plate + static pressure plate + safety limit push rod + guide column frame + precision bearing                                                                                                                                                                                                                                  |
| 6.13 Safety device                     | Electric leakage protection, overload protection, limit protection device                                                                                                                                                                                                                                                                        |



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| 6.14 Driving mode                                                                                                                                                           | Variable frequency motor |
| 6.15 Force value control                                                                                                                                                    | High precision sensor    |
| 6.16 Power                                                                                                                                                                  | AC 220V 50Hz/60Hz        |
| <b>7.Standard accessories</b>                                                                                                                                               |                          |
| 7.1 Operation manual                                                                                                                                                        | 1 piece                  |
| 7.2 Printing paper                                                                                                                                                          | 1 roll                   |
| 7.3 Load sensor                                                                                                                                                             | 1 piece                  |
| 7.4 Microprinter                                                                                                                                                            | 1 set                    |
| 7.5 Power cord                                                                                                                                                              | 1 piece                  |
| <b>8.Work environment requirements</b>                                                                                                                                      |                          |
| Room temperature:25℃; power supply: 220V, the power supply should be reliable grounding; clean working environment, no strong vibration source, the host support is stable. |                          |
| <b>9. Characteristics</b>                                                                                                                                                   |                          |



1. The force sensor is an S-type tension and pressure sensor 10KN, with an accuracy of 0.05%FS, and the relative accuracy of the system's force measurement is as high as  $\pm 1\%$  within the range of 2% ~ 100%FS.
2. The displacement sensor adopts 2000 channels/coil photoelectric encoder, and uses 4fold technology to reach the resolution of 2400 channels/coil (the highest resolution is up to 0.001mm).
3. The measurement and control system adopts TM2101 testing machine touch screen measurement and control system, main indexes:
  - ★ Suitable for a variety of grating encoder, pulse number range: 100~65535;
  - ★ The micro printer prints test results, and has the function of taking points to print;
  - ★ Single test, manual 10 point statistics, and automatic calculation of the average value, fracture value (suitable for stripping, tearing test), up to 5 groups can be stored;
  - ★ Unit arbitrary switch: strength: kN/N/ KGF/GF/T/LBF, displacement: mm/cm/in;
  - ★ Overload protection function can be set;
  - ★ Automatic homing function;
  - ★ Various test methods such as fixed load and location shift.

#### **10. Touch screen interface( can Chinese-English switch)**



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