

CHY-CA Film thickness measuring instrument

CHY-CA Film thickness measuring instrument adopts mechanical contact measurement method, strictly conform to the requirements of the standard, effectively ensure the normative and accuracy test. It is specialized in measuring the thickness of plastic film, thin film, diaphragm, paper, foil, silicon wafer and other materials within the range.



Professional technology

- Strictly in accordance with the standard design of contact area and measuring pressure, while supporting a variety of non-standard customization.
- The measuring head rises and falls automatically during the testing process, effectively avoiding the systematic error caused by human factors.
- Automatic and manual measurement modes are supported, which is convenient for users to choose freely.
- System automatic injection, injection step, measurement points, injection speed and other related parameters can be set by the user.
- Real-time display of the maximum, minimum, average and standard deviation of the measurement results and other analysis data for the convenience of users to judge.
- The standard measurement block is used for system calibration to ensure the accuracy and data consistency of the test.
- The system supports many practical functions such as real-time display of data, automatic statistics and printing, etc., which can obtain test results conveniently and quickly.
- The system is controlled by a microcomputer, equipped with LCD, menu-type interface and PVC operation panel, which is convenient for users to conduct test operation and view data.
- Standard USB interface facilitates the external connection and data between the system and the computer.

Rich application

Basic application	Sheet, diaphragm, paper, cardboard, foil, silicon, metal, textile materials, solid electrical insulation, non-woven materials, such as urine, sanitary towel sheet, etc
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Testing principle

CHY-CA film thickness measuring instrument adopts the principle of mechanical contact measurement, intercepts a certain size pattern; through the control panel button, the measuring head is adjusted to fall on the pattern; the thickness of the material is measured by the value measured by the sensor through the pressure generated by two contact surfaces and two contact areas.

Test standard

The instrument meets many national and international standards : ISO 4593、ISO 534、ISO 3034、GB/T 6672、GB/T 451.3、GB/T 6547、ASTM D374、ASTM D1777、TAPPI T411、JIS K6250、JIS K6783、JIS Z1702、BS 3983、BS 4817

Technical index

Item \ Model	CHY-CA Film thickness measuring instrument
Test range	0~2 mm (Conventional) 0~6 mm; 12 mm (Optional)
Resolution ratio	0.1 μ m
Measuring speed	10 次/min (Adjustable)
Test pressure	17.5 \pm 1 KPa (Film) ; 50 \pm 1 KPa (Paper)
Contact area	50 mm ² (Film) ; 200 mm ² (Paper) Note: one choice of film and paper; non standard customizable.
Injection step distance	0~1000 mm
Sample injection speed	0.1~99.9 mm/s
Power supply	AC 220V 50Hz
Size	461 mm(L) \times 334 mm(W) \times 357 mm(H)
Weight	32 kg

Product configuration

Standard configuration	Host, a standard gauge block, professional software, communication cable, measuring head
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