

KASON-CFT02A Computer-Controlled Coefficient of Friction Tester



Instrument Overview

The KASON-CFT02A Coefficient of Friction Tester is manufactured in accordance with GB 10006-2021 and ASTM D1894, and also complies with national and international standards including GB/T 17200, GB/T 22895, ISO 8295, and TAPPI T816. It is professionally designed to measure the static and dynamic coefficients of friction of materials during sliding, applicable to plastic films and sheets, paper, rubber, woven bags, cardboard, textile fabrics, conveyor belts, metal composite tapes for communication cables and optical fibers, coatings, wood, brake pads, shoe materials, windshield wipers, tires, etc. By testing the slip resistance of materials, it can control and adjust the process indicators of material production quality to meet product application requirements. It can also be used for measuring the slip performance of daily chemical products such as eye drops and cosmetics.

Basic Applications

- Films: Static and dynamic friction coefficient testing of plastic films and sheets
- Paper: Static and dynamic friction coefficient testing of paper and cardboard
- Textiles, non-woven fabrics, woven bags: Static and dynamic friction coefficient testing of such materials
- Rubber: Static and dynamic friction coefficient testing of rubber products
- Aluminum foil, aluminum foil composite films, metal products: Static and dynamic friction coefficient testing of such materials
- Printed matter: Static and dynamic friction coefficient testing of printed products

Instrument Features

- Industrial-grade high-definition color touch screen with a menu-driven interface, facilitating user control and real-time display of data and curves
- Complies with multiple testing standards (GB, ISO, ASTM), and testing methods can be customized as per customer requirements

- Three testing modes available: static friction coefficient, dynamic friction coefficient, and combined static-dynamic friction coefficient
- Force value accuracy better than Grade 0.5, effectively ensuring test accuracy and repeatability
- Adopts a well-known brand operating system and precision ball screw, providing speed accuracy better than Grade 0.5 with stepless speed regulation and stable operation
- System accessories use world-renowned brand components to ensure the precision and stability of the system
- Imported high-speed and high-precision sampling chip to guarantee the real-time performance and accuracy of test data
- Automatic timing of standing time to ensure full contact between test samples
- Automatic zero clearing of static/dynamic friction coefficients before the start of test movement, improving the accuracy of test results
- Test table and test slider are both demagnetized and residual magnetism tested, effectively reducing system test errors
- Equipped with intelligent configurations such as limit protection, overload protection, automatic return, and power-off memory to effectively ensure user operation safety
- Multi-level user permission settings, with arbitrary customization of operation permissions for each level as per actual needs
- Real-time display of test curves to reflect the change trend of force value during the test process
- Built-in USB interface for easy external access to computer systems, data transmission and software upgrade
- Supports quick review of historical data, overlay comparison and analysis of grouped test data, and traceability of test data
- Equipped with a micro printer for real-time printing of test results
- Professional computer control software (optional) with practical functions such as statistical analysis of grouped samples and historical data comparison

Technical Parameters

Model	KASON- CFT02A Coefficient of Friction Tester
Measuring Range	0-5N (0-10N, 0-30N customizable)
Measurement Accuracy	0.001N
Force Acquisition Frequency	2ms
Minimum Result Reading	0.001
Stroke	300mm

Model	KASON- CFT02A Coefficient of Friction Tester
Slider Stroke	70mm, 150mm (1-300mm customizable)
Slider Mass	200g, 500g (any non-standard weight customizable)
Slider Size	63×63mm (customizable)
Control Mode	Microcomputer control, fully automatic testing, automatic calculation and display of results
Display Mode	8-inch LCD touch screen
Test Speed	100mm/min, 150mm/min (1-600mm/min customizable)
Return Speed	1-600mm/min customizable
Test Modes	Standard modes for GB10006, ISO8295, ASTM D1894 + 1 non-standard setting mode
Power Supply	AC220V 50HZ
Test Conditions	Standard laboratory environment
Instrument Dimension	660mm (L) × 400mm (W) × 320mm (H)
Net Weight	Approx. 32KG
Referenced Standards	GB10006, GB/T17200, GB/T22895, ISO8295, ASTM D1894, TAPPI T816, GB/T2792, etc.
Remarks	Customized production available to meet special customer requirements within our capability

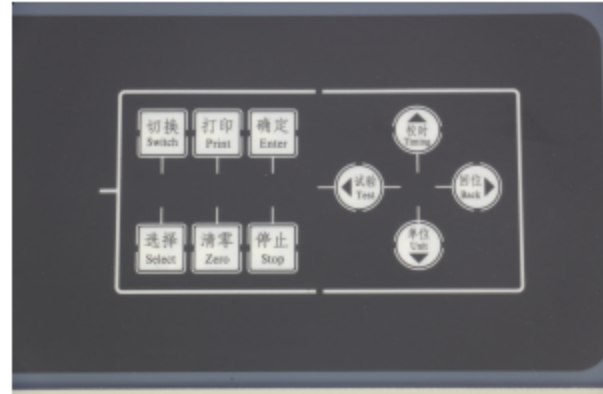
Product Configuration

Standard Configuration: Main unit, micro printer, 200g slider, 500g slider counterweight, power cord, technical documents

Optional Accessories: Non-standard customization service, computer control software, non-standard sliders



Screen display



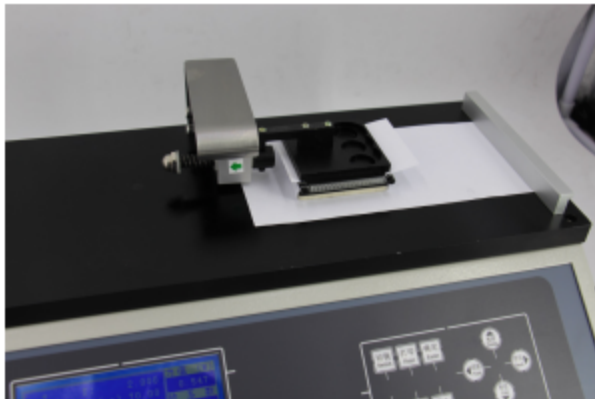
Operation keys



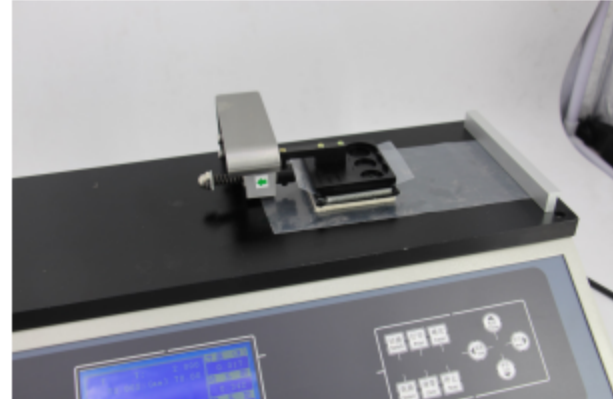
Data printing



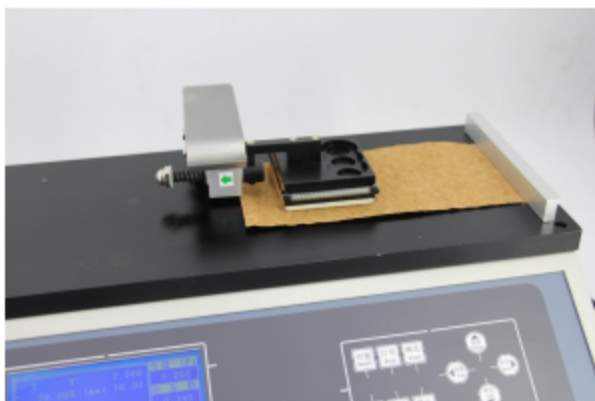
Built-in handle



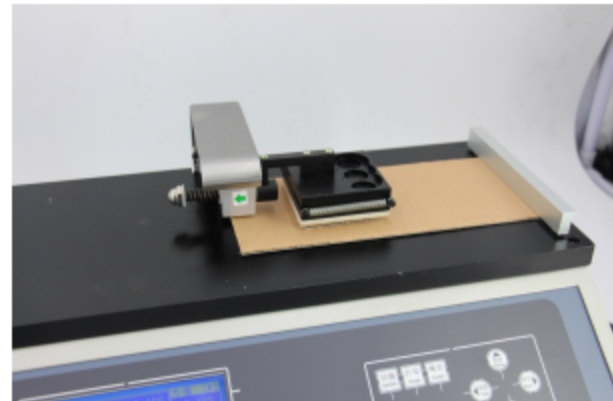
Paper coefficient of friction



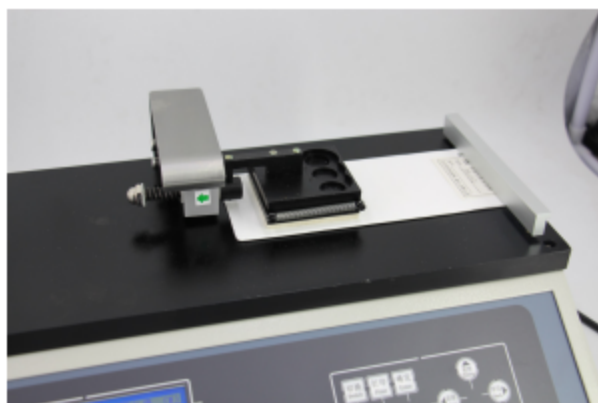
Film coefficient of friction



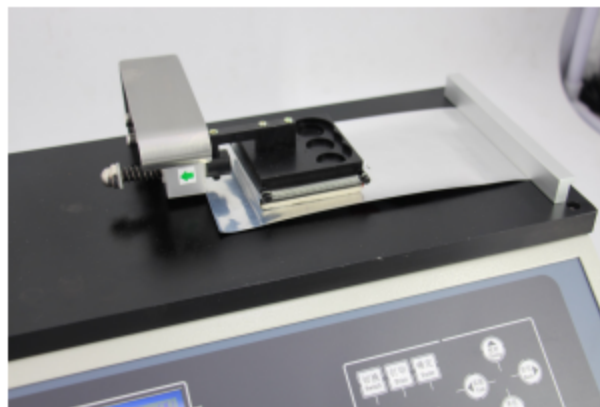
Tobacco coefficient of friction



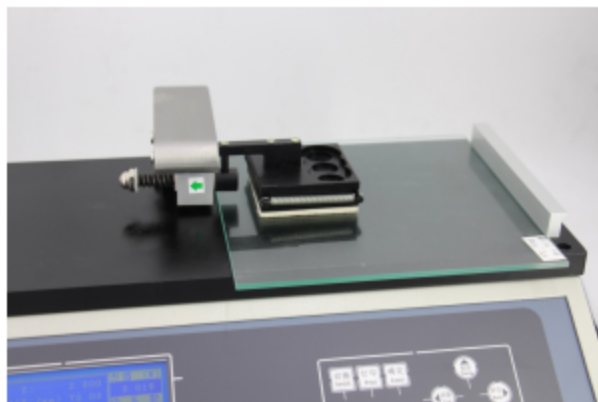
Paperboard coefficient of friction



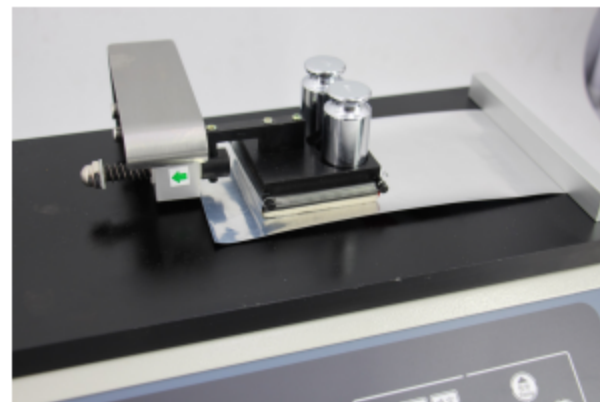
Coating coefficient of friction



Aluminum foil coefficient of friction



Glass coefficient of friction



Coefficient of friction testing with 500g slider

FOCUS IN MATERIAL TEST

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