

COF-01 Coefficient of Friction Tester

COF-01 Coefficient of Friction Tester is applicable to determination of static and kinetic coefficient of friction of plastic films, sheeting, aluminum foils, paper, paper-plastic composite films, paper board, wooden material, brake pads, windshield wiper, tire, conveyor belt, hair, metal, carbon rod, catheter and artificial skin, etc.



Product Features

High Configuration:

- SIMUSI springs with a coefficient of elasticity of 2N/cm are used and fully comply with the relevant standard test requirements
- High-frequency data acquisition system, the acquisition frequency is up to 500 times per second, to ensure that the most accurate static friction coefficient is collected
- Equipped with a 15s static function, which meets the relevant standard test requirements
- Embedded high-speed microcomputer control, to provide users with a comfortable and smooth operating experience
- Standardized, modularized, and serialized design concepts can meet the individual needs of users
- Conforms to multiple standards of GB, ISO, ASTM and the user could select testing methods as required
- The test speed is infinitely adjustable and supports any sled mass test
- The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors

Intelligence & Efficiency

- 7-inch HD colorful LCD touch screen, displaying test data and curves in real time
 - With a humanized operation interface and intelligent data processing functions, which is convenient to operate and data processing
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- Professional software has statistical analysis tools such as confidence interval and oscillation coefficient to help customers better analyze data
- High-precision motor drive, speed and displacement can be accurately controlled
- Built-in micro printer, can realize historical data printing function in real time
- Equipped with standard RS232 interface and software, which is convenient to data display collection and transmission
- Provides professional customization services to meet the individual needs of users in fixtures, software, etc.
- Free software upgrade service lifetime

Test Principle

Put two test surface flat together. Make the two surface relative move under a certain contact pressure and record the required force. The test force divided by the gravity of the slider is the friction coefficient values.

Applications

Basic Application	Films
	Paper and Paperboard
	Rubber
	Textiles, Non-woven Fabrics and Woven Bags
	Aluminum Foils, Aluminum Foil Composite Films, and Metal Products
Extended Application	Eye Drops
	Medical Tubes

Technical Specifications

Specifications	COF-01
Capacity Range	5N (Standard) 10N, 30N, 50N, 100N (Optional)
Test Accuracy	0.1%FS
Test Platform Temperature	Room temperature
Stroke	300 mm
Sled Mass	200g (standard), 500g (optional) Customization is available for other masses

Test Speed	100mm/min, 150mm/min 0.05 ~500mm/min (stepless speed regulation)
Specimen Height	0 ~ 30mm
Power Supply	AC 220V 50Hz/120V 60Hz
Instrument Dimension	600mm (L)×330 mm (W)×230 mm (H)
Net Weight	35.2 kg

Standards

ASTM D 1894, ISO 8295, TAPPI T816, GB 10006

Configuration

Standard Configuration: Instrument, Micro-printer, 200g Sled

Optional Parts: 500g Sled, Non-standard Sled
