

MXD-02 Coefficient of Friction Tester

MXD-02 Coefficient of Friction Tester is specialized in measuring the static and kinetic coefficient of friction of plastic film and sheet, rubber, paper, paperboard, woven bag, metal composite belt for communication cable and optical cable, conveyor belt, wood, coating, brake block, wiper, shoe material, tire, and other materials when sliding. By measuring the friction coefficient (or smoothness) of materials, the quality index can be adjusted or controlled to meet the users' requirements. It can also be used to measure the smoothness of cosmetics, eye drops, and other daily chemical products.



Product Features

- 7-inch color touchscreen with graphical user interface (GUI).
- Static and kinetic coefficients of friction can be tested for each specimen.
- Complies with ASTM, ISO, TAPPI, and GB standards for versatility.
- Equipped with a precise and stable driving system.
- The real-time change of force value is revealed clearly through the test curve.
- Complies with GMP standards for multi-level user authority.
- Three measurement modes: static friction, kinetic friction, static and kinetic friction.
- Features an advanced embedded sensor for high accuracy.
- The speed can be adjusted to support different slider types.
- The table and slide block are degaussed and processed by remanence, which effectively reduces the testing error.
- Micro-printer and standard USB interface facilitate the external connection and transmission between the instrument and data sharing system of laboratory.
- The instrument can be equipped with SAICHENG's latest operating software (optional), featuring a user-friendly interface, intelligent data processing, strict user management, secure data storage, electronic signature, etc.
- Low Maintenance - 12 months between calibrations with simple method.

Standards

This test instrument conforms to many national and international standards: ISO 8295, ASTM D1894, TAPPI T816, GB/T 10006

Applications

This instrument is equipped with different grips for COF tests of many materials. And customization is also available for special materials tests.

Basic Applications	Plastic film, sheet, paper, paperboard, textile, non-woven fabric, woven bag, rubber, aluminum foil, aluminum foil composite film, metal products, and printings.
Extended Applications	Wood, flooring, photographic films, grain, hair, pipe, ball-shaped material, medical tube, and lacquered wire.

Technical Specifications

Items	Specifications
Capacity Range	0 ~ 5 N (standard)
	10 N, 30 N (optional)
Accuracy	0.5% FS
Stroke	400 mm
Mass of Sled	Weight: 200 g Dimension: 63 mm x 63 mm (standard)
	Note: sled can be customized.
Plane Dimension	450 mm x 200 mm
Test Speed	0 ~ 800 mm/min
Instrument Dimension	800 mm (L) x 390 mm (W) x 260 mm (H)
Power Supply	120VAC 60Hz / 220VAC 50Hz (can be changed to local requirement)
Net Weight	25 kg

Configurations

Standard: Instrument, Micro Printer and Sled of 200g and 500g

Optional: Professional Software, Communication Cable, Sled of 1000g, Non-standard Sled

Please Note: [Saicheng Instrument](http://global.saicheng.cn) is always dedicated to the innovation and improvement of product performance and functionality. Therefore, technical specifications are subject to change without further notice. Please visit our website at global.saicheng.cn for the latest updates. Saicheng Instrument reserves the rights of final interpretation and revision.