

MXD-02 Film Coefficient of Friction Tester

MXD-02 Coefficient of Friction Tester is specialized in measuring the static and dynamic friction coefficients of plastic film and sheet, rubber, paper, cardboard, woven bag, fabric style, metal material composite belt for communication cable and optical cable, conveyor belt, wood, coating, brake pad, wiper, shoe material, tire and other materials when sliding. By measuring the smoothness of materials, the production quality of materials can be controlled and adjusted. In addition, it can be used to determine the smoothness of cosmetics and eye drops.



Professional Technology

- The dynamic and static friction coefficients of the samples can be measured simultaneously by one test.
- The test speed can be set and adjusted to support any slider mass.
- The instrument can meet the requirements of GB, ISO and ASTM, and the test method can be selected according to the requirements of customers.
- The test table and slide block of the instrument are degaussed and remanence detected, which effectively reduces the system test error.
- The equipment is controlled by microcomputer, equipped with menu operation interface, PVC control panel and LCD screen, which is convenient for users to carry out test operation and data view.
- System accessories are world-famous imported components, stable and reliable performance.
- Professional software can automatically carry out statistical analysis and re analysis of original data of single piece and group test results, stack comparison of group curves, and multiple report modes, which can directly and quickly show the test results to customers.
- It is equipped with micro printer and standard USB interface to facilitate the external connection and data transmission between the system and the computer, the laboratory data sharing system, and the unified management of test results and test reports test standards.

Testing Principle

The two experimental surfaces are placed flat together. Under a certain contact pressure, the two planes move relative to each other, and the required force is recorded. The weight of the slider divided by the test force is the friction coefficient.

The instrument conforms to many national and international standards: ISO 8295、GB 10006、ASTM D1894、TAPPI T816



Rich Application

Basic Application	Film	It is suitable for testing static and dynamic friction coefficients of plastic film and sheet
	Paper	It is applicable to the test of dynamic and static friction coefficient of paper and paperboard
	Textiles, non-woven fabrics, woven bags	It is suitable for testing static friction coefficient and dynamic friction coefficient of textiles, non-woven fabrics and woven bags
	rubber	It is suitable for testing static and dynamic friction coefficients of rubber
	Aluminum foil, aluminum foil composite film, metal products	Suitable for static and dynamic friction coefficient test of aluminum foil, aluminum foil composite film and metal products
	Printed matter	Test of static and dynamic friction coefficients for printed matter
Extended Application	Wood, floor material	It is suitable for testing static and dynamic friction coefficients of wood and floor materials
	Film	Test of static and dynamic friction coefficient for film
	Grain	It is used to test the static friction coefficient and dynamic friction coefficient of grains and metals
	Hair	Test of static friction coefficient and dynamic friction coefficient between hair and hair
	Pipe	Test of static and dynamic friction coefficients of pipes
	Spherical materials	Test of static and dynamic friction coefficients of spherical and plane materials
	Medical tube	In order to monitor and control the skin friction, it is necessary to measure the friction coefficient between the catheter and the human skin
	Enameled wire	Test of static and dynamic friction coefficients of enameled wire and other plane materials

Technical Index

Item \ Model	MXD-02 Coefficient of Friction Tester
Load range	0 ~ 5 N
Accuracy	0.5 Grade
Stroke	70 mm, 150 mm
Slider weight	200g, 500g (1000g Optional)
	Note: other quality sliders can be customized
Test speed	100mm/min, 150mm/min
	Note: other speeds are adjustable
Environmental requirements	Temperature: 10℃~40℃
	Humidity: 20%RH~70%RH
Power	AC 220V 50Hz
Size	470 mm (L) × 310 mm (W) × 200 mm(H)

Product Configuration

Standard configuration	Mainframe, micro printer, 200g slider, 500g slider, Operation certificate, instruction and packing list.
Optional items	1000g slider, non-standard slider, communication cable, professional software