

MXD-01A Coefficient of Friction Tester is strictly based on ASTM D1894 standard, and is professionally applicable to the determination of static and kinetic coefficients of friction of plastic films, sheets, rubber, paper and paper board, PP woven bags, fabrics, metal-plastic composite belts for communication cables, convey belts, wood, coatings, brake pads, windshield wipers, shoe materials and tires. By testing the frictional properties of materials, the technical indexes could be controlled to meet requirements for production. Besides, the instrument can be used to measure smoothness of cosmetics, eye drops and other daily products.



**Professional Technology**

- Static and Kinetic coefficients of friction can be tested simultaneously
- The functions of automatic delay timing and automatic COF zeroing ensure enough touching time between tested specimens
- The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors
- The instrument is controlled by micro-computer with LCD, PVC operation panel and menu interface, which is convenient for customers to test or view the test data
- Top quality parts and components made by world famous brands are used to ensure reliable overall product performance
- Professional operating software supports the automatic judgment of smoothness status, and statistical analysis of group specimen test results
- Micro-printer can automatically print the test reports of single tested specimen or groups of tested specimens
- Equipped with RS232 port for convenient PC connection and data transfer
- Supports Lystem<sup>™</sup> Lab Data Sharing System for uniform and systematic data management

**Test Standards**

This instrument conforms to the standard: ASTM D1894

**Applications**

The instrument is applicable to the determination of static and kinetic coefficients of friction of:

<b>Basic Applications</b>	Films
	Paper and Paperboard
	Textiles, Non-woven Fabrics and Woven Bags
	Rubber
	Aluminum Foils, Aluminum Foil Composite Films, and Metal Products

### Extended Applications

Printing Matters
Wood and Flooring
Photographic Films
Pipes
Grains: the instrument can test static and kinetic coefficients of friction of grains against the metal and other materials
Hair: the instrument can test static and kinetic coefficients of friction of the hairs
Ball Shaped Materials: the instrument can test static and kinetic coefficients of friction of the ball shaped materials against even leveled materials
Medical Tubes: The coefficients of friction of catheters and nose feeding tubes against human skin have the direct affection on patient comfortable feeling. This instrument can test static and kinetic coefficients of friction of medical tubes against skin
Lacquered Wires: This instrument can test static and kinetic coefficients of friction of the lacquered wires against even leveled materials

### Technical Specifications

Specifications	MXD-01A
Capacity Range	0 ~ 5 N
Accuracy	1% FS
Stroke	≥130 mm
Mass of Sled	200 g (500 g optional) Customization is available for other masses
Test Speed	150 mm/min
Environment Condition	Temperature: 10°C~ 40°C Humidity: 20%RH ~ 70%RH
Power Supply	AC 220V 50Hz
Instrument Dimension	575 mm (L) x 310 mm (W) x 208 mm (H)
Net Weight	34 kg

### Configurations

Standard Configurations	Mainframe, Micro Printer and Sled of 200g
Optional Parts	Professional Software, Communication Cable and Customized Sled of 500g

**Please Note:** Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at [www.labthink.com](http://www.labthink.com) for the latest updates. Labthink reserves the rights of final interpretation and revision.