MXD-01 Coefficient of Friction Tester is strictly based on GB 10006 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, discrete analysis of test results (confidence degree) and statistical analysis of group specimens
- 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™ Lab Data Sharing System for uniform and systematic data management

Test Standards

This instrument conforms to the standard: GB 10006, ISO 8295

Applications

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

Basic Applications	Films
	Paper and Paperboard
	Textiles, Non-woven Fabrics and Woven Bags
	Rubber
	Aluminum Foils, Aluminum Foil Composite Films and Metal Products
	Printing Matters

Extended Applications	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 frictions 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-01**
Capacity Range	0 ~ 5 N
Load Measurement Accuracy	±1% of reading from 10% to 100% of the load cell capacity
Stroke	70 mm
Mass of Sled	200g, 500g Customization is available for other masses
Test Speed	100 mm/min
Power Supply	220VAC 50Hz / 120VAC 60Hz
Instrument Dimension	470 mm (L) x 310 mm (W) x 200 mm (H)
Net Weight	31 kg

Configurations

Standard Configurations	Instrument, Micro Printer, Sled of 200g and Sled of 500g
Optional Parts	Professional Software, Communication Cable, Sled of 1000g and Customized Sled

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 for the latest updates. Labthink reserves the rights of final interpretation and revision.