

## COF-01 Coefficient of Friction Tester

### Brief Introduction

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.



### Technical Features

- ◆ 0.5 class high precision force sensor makes the accuracy and repeatability of test results.
- ◆ Equipped with advanced displacement control system, automatically read displacement, displacement accuracy can reach 0.1mm
- ◆ Embedded micro-computer chips, simplified and efficient user interface provide users with comfortable and smooth operating experience.
- ◆ Standard, modularized and systematic designs can meet personalized requirements of the users.
- ◆ Equipped with touch screen, with which the instrument can be easy to operate.
- ◆ 7 inch HD LCD, displaying test data and curves in real time
- ◆ Imported high-speed and high-precision chips guarantee the testing accuracy and efficiency.
- ◆ Uses high-precision motor-driven mechanism, which can control the speed and displacement precisely.
- ◆ Supports tests with non-standard mass sleds.
- ◆ Supports tests of non-standard thickness of specimens.

- ◆ Both static coefficient of friction and kinetic coefficient of friction can be tested in this instrument.
- ◆ Historical test data can be printed out by built-in micro-printer.
- ◆ Equipped with standard serial communication ports.

## 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

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

## Technical Specifications

Item	COF-01
<b>Capacity Range</b>	5N (Standard) 10N, 30N, 50N, 100N (Optional)
<b>Test Accuracy</b>	0.05%FS
<b>Stroke</b>	300mm
<b>Sled Mass</b>	200g, 500g (optional) Customization is available for other masses
<b>Test Speed</b>	100mm/min, 150mm/min Test speed could be adjusted
<b>Specimen Height</b>	0~30mm
<b>Power Supply</b>	AC 220V 50Hz/120V 60Hz

<b>Instrument Dimension</b>	600mm (L)×330 mm (W)×230 mm (H)
<b>Net Weight</b>	35 kg

## Standards

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

## Configuration

<b>Standard Configuration</b>	Instrument, Micro-printer, Sled of 200g
<b>Optional Parts</b>	sled of 500g, Non-standard Sled

*Technical specifications are subject to change without further notice. Please visit our website at [www.horizontester.com](http://www.horizontester.com) for latest information.*