

Summary:

This Inclined **Surface Coefficient of Friction Tester** is a accurate instrument for determining the static friction coefficient of flat surfaces. It is professional applicable to the determination of static coefficients of friction of paper, paper board, plastic films, sheets, convey belts and other materials. By testing the frictional properties of materials, the open performance of packages, packing speed of packers and other indexes could be controlled to meet requirements for production.

The COF is measured on an inclined plane of approximately 0 to 85°. This incline is increased at a rate of $1.5 \pm 0.5^\circ$ per second by an electric motor until the sample bearing block begins to slide. At this point, the inclined plane is locked and the angle can be read. The tangent of this angle is the coefficient of friction (COF).



Standards:

TAPPI T 815: Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method)

ASTM D 202: Standard Test Methods for Sampling and Testing Untreated Paper Used for Electrical Insulation

ASTM D4918: Standard Test Method for Coefficient of Static Friction of Uncoated Writing and Printing Paper by Use of the Inclined Plane Method

ETC...

Parameters:

Angle range	0°---85°
Accuracy	0.01°
Angular speed	0.1°/s---10.0°/s
Slider weight	90mm x 100mm, 1300g (standard) 76mm x 63mm 235g (optional) 63.5mm x 63.5mm 200g (optional)
Load	0-5N
Environment requires	Temperature: 23±2℃
	Humidity: 20%RH~70%RH
Output	Mini-Printer
	Software to connect with PC (optional)
Dimensions	470 mm(L)×320 mm(W)×240 mm(H)
Power supply	AC 220V 50Hz

Features:

- ※ Angular speed stepless speed change, automatic platform reset and other functions, easily realize the test requirements under different conditions
- ※ Professionally used to test the static friction coefficient of the sample on the inclined surface
- ※ Both the instrument test bench and the test slide have undergone demagnetization treatment and remanence detection, which effectively reduces the system test error
- ※ The equipment is controlled by a microcomputer with a menu-type operation interface
- ※ PVC control panel and LCD screen, convenient for users to perform test operation and data viewing
- ※ Equipped with a micro printer and a standard USB interface to facilitate the external connection and data transmission between the system and the computer