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Analysis & Testing Instruments

Coefficient of Friction Tester GM-1



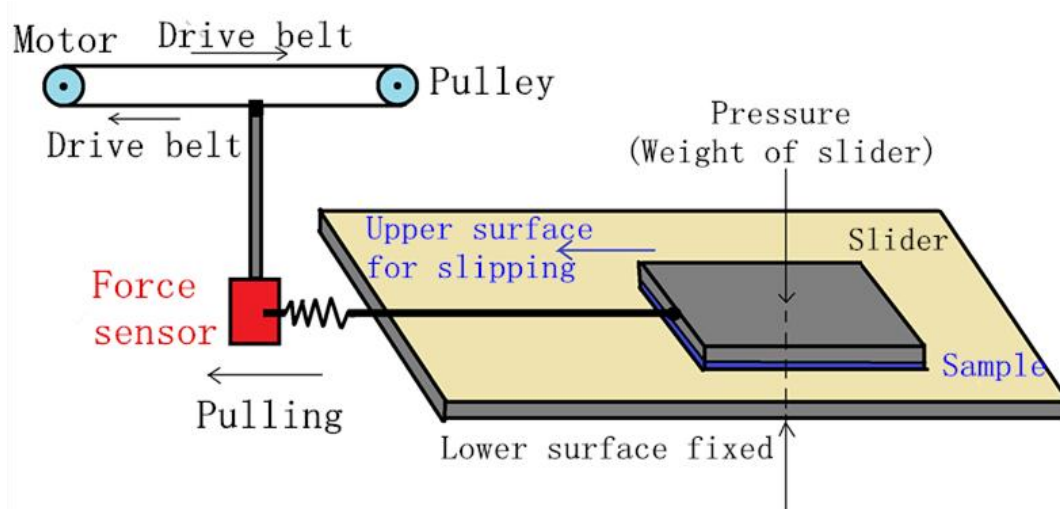
Introduction

The coefficient of friction tester GM-1 is a measuring instrument developed and manufactured by the GBPI R&D team based on various test standards of GB, ISO, ASTM and market demand. The measured friction coefficient determines the smoothness and opening difficulty of the film. and uniformity can be accurately determined, so as to correctly guide the production.

It is suitable for measuring the static friction coefficient, dynamic friction coefficient and peel strength of plastic films, composite films, aluminum foils, aluminized films, plates, rubber, ceramics and other materials when sliding.

Test Principle

Clamp the strip test sample, and wrap the slider with the sample to be tested, and then place the slider on the hanging hole of the sensor. Under a certain contact pressure, the conveyor belt is driven by the motor to move the force sensor. That is, to move the two test surfaces relative to each other. The force signal measured by the force sensor is amplified by the integrator and sent to the recorder, and the kinetic friction coefficient and the static friction coefficient are recorded respectively.



Standard

ISO 8295, TAPPI T816, GB 10006

Specification

Item	Technical parameter
COF test range	0.001~0.999
Force range	0~9.8 N
Measurement accuracy	±0.5%FS
Resolution	0.001
Sliding speed	100, 150, 500 mm/min
Route	100 mm±5 mm
Sample thickness	≤2 mm
Slider size	63 mm×63 mm (if American standard, 63.5 x 63.5 mm)
Slider Weight	200 g±2 g
Work platform size	200 mm×470 mm
Instrument size	470 mm×350 mm×220 mm
Power	100 W
Power supply	AC 220 V, 50 Hz
Weight	12.5 kg

Feature

The force sensor is easy to calibrate, and the special standard block is used for quick calibration, which is convenient and fast;

The host is equipped with a liquid crystal display, which displays the coefficient of static friction and coefficient of dynamic friction in real time;

Supporting control software, the interface is simple and clear, easy to operate;

Display real-time curve, the curve can be zoomed;

Sensor over-range automatic protection function, functional modular design, easy to maintain;

The instrument is equipped with a rigid sleeve as standard, and the spring can be switched to effectively prevent the slipping and sticking of the viscous film.

Application

	Film	Suitable for static friction coefficient and dynamic friction coefficient test of plastic film and thin film
	Paper	Suitable for dynamic and static friction coefficient test of paper and cardboard
	Textiles, non-woven fabrics, woven bags	Suitable for testing static friction coefficient and dynamic friction coefficient of textile, non-woven fabric and woven bag
	Aluminum foil, aluminum foil composite film, metal products	Suitable for testing static friction coefficient and dynamic friction coefficient of aluminum foil, aluminum foil composite film and metal products
	Printing product	It is suitable for static friction coefficient and dynamic friction coefficient test of printed matter

Product configuration

Standard configuration	Host, professional test software, rigid sleeve, slider, weight
Optional parts	Computer, Metrology Certificate
Remark	3-hole socket, ground wire

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