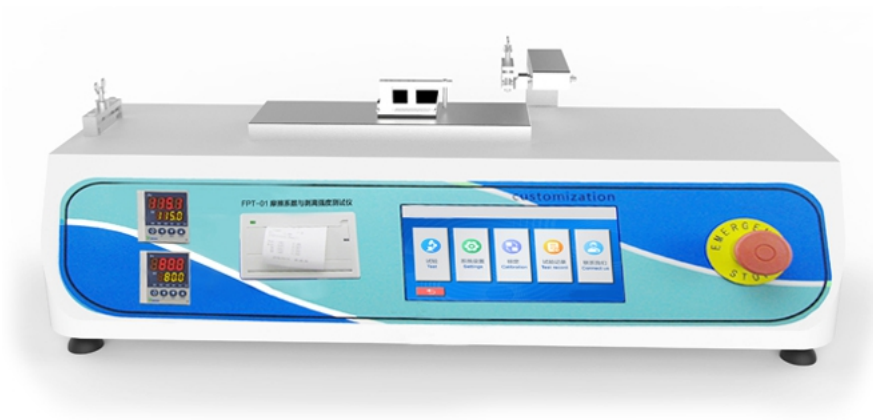


## FPT-01 Friction / Peel Tester

### Brief Introduction

FPT-01 Friction / Peel Tester can be used to test peel strength test of adhesive laminated products, medical adhesive bandage, release paper and protection films, as well as coefficient of static and kinetic friction of plastic films, sheets, foils, paper, cardboard, woven bags, fabric (fabric style test), metal-plastic composite strip/belt for communication cable, convey belt and textile.



### Technical Features

- ◆ 0.1 % FS high precision force sensor makes the accuracy and repeatability of test results.
- ◆ Focus on small force value testing to achieve accurate data testing
- ◆ Two test modes are available, coefficient of friction and 180° peel test
- ◆ Equipped with a temperature control platform to realize testing under different temperature conditions
- ◆ Equipped with advanced displacement control system, displacement accuracy can reach 0.1mm
- ◆ With advanced servo drive system, which can achieve infinitely variable speed under different testing conditions
- ◆ The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors
- ◆ Dual configuration for 7-inch color touch screen and 11.6-inch 2-in-1 PAD, providing multiple operating experiences
- ◆ Conforms to multiple ISO, ASTM and GB standards
- ◆ Powerful user-defined functions, test schemes, test standards, unit conversion, test reports, etc. can be freely defined
- ◆ Complete data analysis and reporting functions, display force-displacement, force-time, displacement-time, stress-strain curves in real time

- ◆ Intelligent designs including position restriction, overload protection, auto reset and power failure memory guarantee the safe operation
- ◆ Equipped with standard serial communication port, which can be connected to computer software to facilitate data processing and transmission

## 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>	<b>Plastic Films and Sheets</b>	Coefficient of static and dynamic friction tests of plastic films and sheets
	<b>Paper and Paperboard</b>	Coefficient of static and dynamic friction tests of paper and paperboard
	<b>Rubber</b>	coefficient of static and dynamic friction tests of rubber products
	<b>Printing Matters</b>	Coefficient of static and dynamic friction tests of printing matters
	<b>Textiles, Non-woven Fabrics and Woven Bags</b>	Coefficient of static and dynamic friction tests of textiles, non-woven fabrics and woven bags
	<b>Aluminum Foils and Aluminum Foil Composite Films</b>	Coefficient of static and dynamic friction tests of aluminum foils, aluminum foil composite films and other metal products
<b>Extended Application</b>	<b>High Temperature Test</b>	Coefficient of static and dynamic friction tests at higher temperature than room temperature
	<b>Wood and Flooring</b>	Coefficient of static and dynamic friction tests of wood and flooring
	<b>Photographic Films</b>	Coefficient of static and dynamic friction tests of photographic films
	<b>Screen of Mobile Phone and Leather</b>	Coefficient of static and dynamic friction tests of mobile screens against the leather products
	<b>Adhesives</b>	Peeling test of the adhesive products
	<b>Medical Adhesives</b>	Peeling test of medical adhesives e.g. adhesive bandages and plasters

	<b>Protection Films</b>	Peeling test of protection films for mobile phones or computers
	<b>Magnetic Cards</b>	Peeling test of the films and magnetic cards

*Note: \*Additional accessories or customized sample grips may need to be purchased separately to complete the tests that cannot be completed with standard sample grips.*

*\*\* Customized grips are needed for extended applications*

## Technical Specifications

Item	FPT-01
Capacity Range	5N ,10N, 30N
Test Accuracy	0.1% FS
Displacement Accuracy	0.1mm
Drive System	Servo drive system
Test Speed	0.05 ~ 500 mm/min Test speed could be adjusted
Accuracy of Test Speed	±1%
Stroke	10 ~ 300 mm
Sled Mass	200g, 500g (optional) Customization is available for other masses
Test Temperature	Room Temperature ~ 100°C
Temperature Variation	±0.2°C
Temperature Accuracy	±2°C
Specimen Thickness	≤ 2 mm
Sled	200g, 63.5mm×63.5mm Customization is available
Power Supply	AC 220V 50Hz/120V 60Hz

<b>Instrument Dimension</b>	640mm (L)×300 mm (W)×250 mm (H)
<b>Net Weight</b>	25 kg

## Standards

ASTM D1894, ISO 8295, ISO 8510-2, ASTM D4917, ASTM D3330, TAPPI T816, TAPPI T549, GB 10006, GB/T 2790, GB/T 2791, GB/T 2792

## Configuration

<b>Standard Configuration</b>	Instrument, Sled of 200g, COF Test Fixture, Peel Test Fixture,
<b>Optional Parts</b>	Air Compressor, Standard Pressure Roller, Test Plate

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