



COEFFICIENT OF FRICTION TESTER

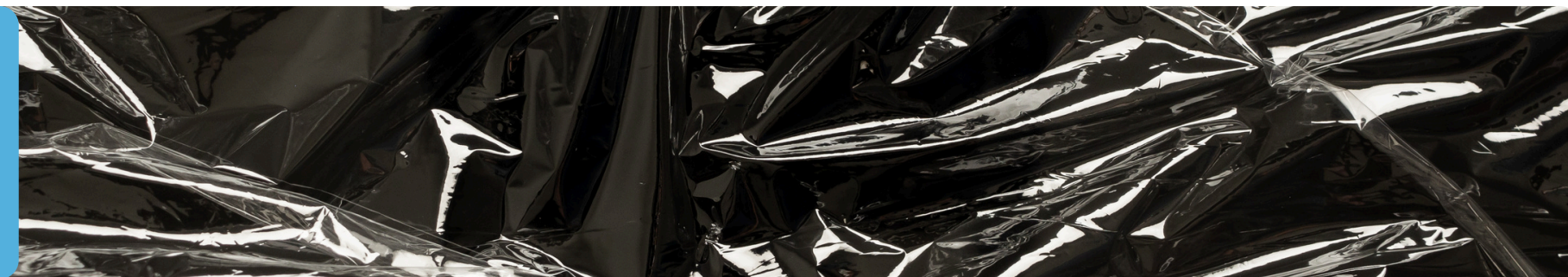
Q-COF Tester

Q-COF TESTER - COEFFICIENT OF FRICTION TESTER

APPLICATION

Introducing the **Q-COF Tester - Coefficient of Friction Tester**, a cutting-edge measuring instrument meticulously crafted to surpass industry standards, including ASTM D1894, ISO 8295, and other global benchmarks.

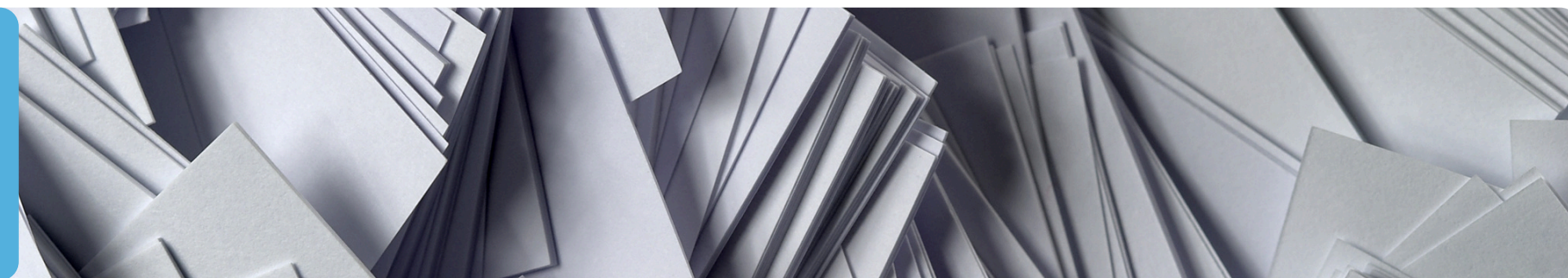
Plastic Film



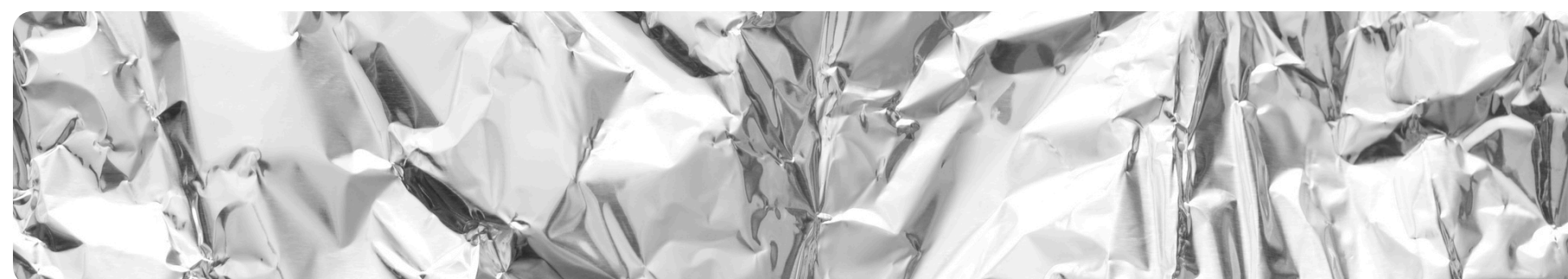
Printing Product



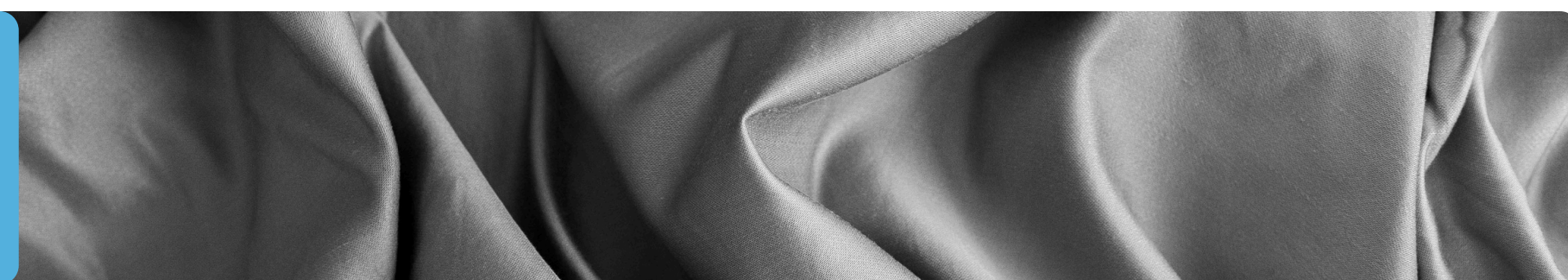
Paper and
Cardboard



Aluminium Foil and
Metal Products



Textiles, Non-Woven
Fabrics, Woven Bags



Its precision in measuring the friction coefficient is unparalleled, providing invaluable insights into the smoothness and friction characteristics of films, essential for optimizing production processes.

Versatile and reliable, it excels in assessing static friction coefficient, dynamic friction coefficient, and peel strength **across a wide range of materials** such as plastic films, composite films, aluminum foils, aluminized films, plates, rubber, ceramics, and more during sliding operations. Embark on a transformative journey with Qualitest and elevate your testing endeavors to new heights.



TEST PRINCIPLE

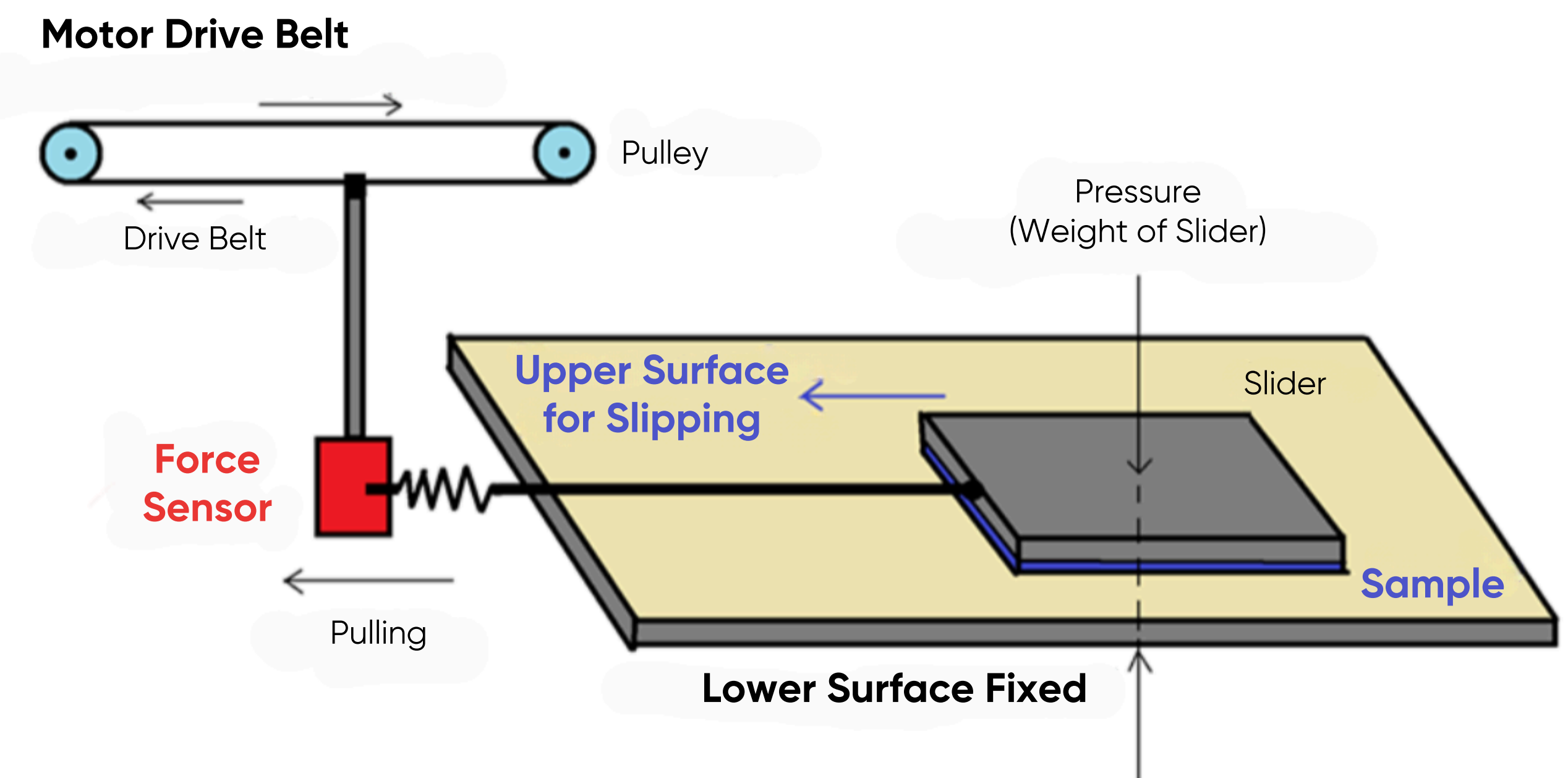
To conduct the test, begin by securing the strip test sample firmly with a clamp and wrapping the sample to be tested around the slider. Next, position the slider onto the hanging hole of the sensor.

With a predetermined contact pressure applied, the motor activates the conveyor belt, initiating movement detected by the force sensor, prompting the two test surfaces to slide against each other.

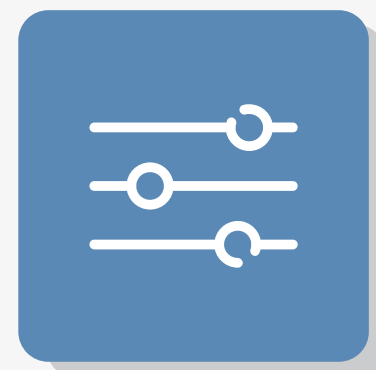
The force signal captured by the sensor undergoes amplification through the integrator before being transmitted to the recorder.

Here, both the kinetic friction coefficient and static friction coefficient are recorded separately, providing comprehensive data for analysis and evaluation.

Working Principle Diagram



FEATURES/ADVANTAGES



Easy Calibration:

The force sensor is easily calibrated using a special standard block for quick and convenient calibration.



User-Friendly Control Software:

Supporting control software with a simple and clear interface for easy operation.



LCD Display with Real-time Curves:

The host features a liquid crystal display for real-time monitoring of static and dynamic friction coefficients, along with curves for detailed analysis.



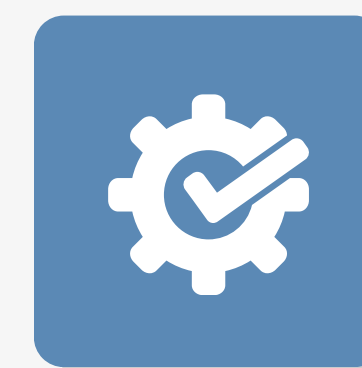
Automatic Sensor Protection:

The sensor includes an over-range automatic protection function for added safety.



Functional Modular Design:

Designed with a functional modular structure, making it easy to maintain.



Standard Rigid Sleeve:

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

TECHNICAL SPECIFICATIONS

Q-COF TESTER

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	0~500 mm/min
Stroke	0~150 mm
Sample Thickness	≤2 mm

Item	Technical Parameter
Slider Size	63 mm×63 mm (if American standard, 63.5 x 63.5 mm)
Slider Weight	200 g±2 g
Work Platform Size	180 mm×470 mm
Monitor	LCD
Instrument Size	470 mm×340 mm×200 mm
Power	100 W
Voltage	AC 220 V, 50 Hz (110V upon request)
Weight	23 kg



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