

TESTING INSTRUMENTS FOR
A MEASURABLE DIFFERENCE...

IDM
instruments

COEFFICIENT OF FRICTION TESTER

IDM-C0055-SERIES



The Coefficient of Friction Testers have proven to be a fast, reliable and accurate method of determining coefficient of friction. Our range of COF Testers are used to determine the static and kinetic friction of plastic film, sheeting, paper and other sheeted material coatings. Their small bench top design makes it easy to use in a laboratory or setup out on the production floor for offline testing as needed.

COEFFICIENT OF FRICTION TESTER **IDM-C0055-M1**

This unit can measure Static COF (peak) from a resting position and continue to move testing surfaces in a relative motion to give an accurate kinetic COF (dynamic) result. It features a stationary sled with a moving plane and also comes with the option of computer software to record data - see options. Peel Testing can also be carried out on this unit - see options.



COF TESTER WITH VARIABLE SPEED **IDM-C0055-M2**

This model offers enhanced functionality by incorporating adjustable speed control ranging from 50 to 300 mm/min, driven by a precision stepper motor for smooth and accurate operation. After each test cycle and sample removal, the system automatically returns to its starting "HOME" position, ensuring quick setup and efficiency for the next test.

Controls are via an LCD touch screen for stop, start, home and speed changes. This model is the next level in accurate and precise COF measurement for static and kinetic results and comes with the option of computer software to record data - see options. Peel Testing can also be carried out on this unit - see options.



COF TESTER WITH VARIABLE SPEED & HEATED PLATEN **IDM-C0055-M3**

With variable speed, touch screen operation & in built heated platen, model C0055 M3 is most ideal for plastic film testing. The temperature range on this unit is between ambient to 170°C, allowing for testing at elevated temperatures. This model also comes with the option of computer software to record data - see options. Peel Testing can also be carried out on this unit - see options.



APPLICATIONS

- Metal
- Coatings
- Paper
- Composites
- Paper
- Printing
- Foils
- Rubber
- Plastics
- Linoleum

SPECIFICATIONS

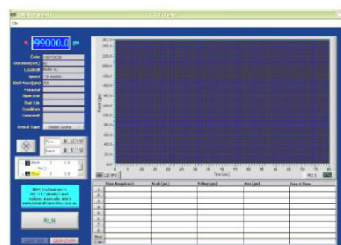
	IDM-C0055-M1	IDM-C0055-M2	IDM-C0055-M3
			
Speed & Accuracy	150 mm/min $\pm$ 0.2% of full scale	50-300 mm/min $\pm$ 0.2% of full scale	50-300 mm/min $\pm$ 0.2% of full scale
Friction Function and Selectable Units	Static and Kinetic - kgF , lbF , N, COF, ozF , gF		
Force Range	10N x 0.002, (1kgF x 0.0002), COF 5 x 0.001		
Sled Dimensions	63 mm x 63 mm - Weight: 200 $\pm$ 2g		
Plane	150 mm x 300 mm		
Travel Distance	220 mm		
Communication	USB		
Cutting Templates	1x Sled & 1x Moving Plane		
Connection	Electrical: 220/240 VAC 50 HZ or 110 VAC 60 HZ (please specify when ordering)		
Working Environment	Temperature: 10°C to 40°C, Humidity: 25% to 85%		
DIMENSIONS	(PACKED)		
Height	390mm	430 mm	380 mm
Width	470 mm	560 mm	320 mm
Length	870 mm	960 mm	930 mm
Packed Weight (Kg)	21 kg	22 kg	24 kg
Volumetric Weight (Kg)	31.9 kg	46.2 kg	22.6 kg

OPTIONS

C0055-OP1: COF Data Acquisition Software

The Static & Kinetic Friction C0055 range also has the option of a computer software package to record data.

- Dynamic real-time display
- Result averaging
- Screen print out
- Data export to Excel



C0055-OP2: 180° Peel Fixture Rod



STANDARDS

- ASTM D1894
- ASTM D2534 (Coefficient of Kinetic Friction for Wax Coatings)
- ASTM D3330 (Peel Adhesion for Pressure Sensitive Tape 180°)
- ASTM D4521 (COF for Corrugated/ Fibreboard)
- ASTM F88 (Seal Strength for Flexible Barrier Material)
- ISO 8295 (COF for Plastics)
- TAPPI T816 (COF for Corrugated and Paperboard)
- TAPPI T549 (COF for Uncoated Writing and Printing Paper)

UNIT COMES WITH



Cutting Template for Sled
63.5 mm x 63.5 mm



Cutting Template for Moving Plane
150 mm x 300 mm



COF Sled
200g

WARRANTY & CALIBRATION SERVICES

- 1 year Warranty
- Our Preventive Maintenance & Calibration (PM&C) program has been designed to make the maintenance and calibration of your valuable testing equipment more cost effective by preventing breakdowns and downtime by regular calibration, service and replacement of defective parts.

For more information contact:
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Specifications are subject to change without notice
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