

## Coefficient of Friction (COF) Tester (Static + Dynamic Friction of Paper or Plastic Films)

M Series



### Technical Specifications :

- Digital Model with Backlit LCD Display
- With Embedded Push Button Control on Digital Indicator / Controller.
- Ball-Screw driven actuator for smooth and maintenance-free operation.
- Hybrid Stepper Motor with Drive for precise speed control and Vibration / Noise Free operation.
- **Automatic Calculation of Static & Dynamic COF. No Calculation Required.**
- Optional Software to capture test data on to the PC directly through the software and generate PDF test & calibration reports.
- Inter-Changeable Testing Fixtures.
- Peak hold facility for maximum load and deflection
- **Auto-Calibration facility for user-friendly calibration.**
- Suitable to test COF of Paper, Paper Board, Plastic Films, Laminates, etc.
  - o Paper / Film vs Paper / Film
  - o Paper / Film vs Metal

Confirming to [TAPPI T549](#) / [ASTM D1894](#) specifications.

### See our videos on YouTube:

Film vs Film : [https://youtu.be/RAVequ\\_Btn0](https://youtu.be/RAVequ_Btn0)

Film vs Metal : <https://youtu.be/DojhVaa2WZc>



**Included with all models / SKUs :**

- 1) Basic Machine with 200gm Sled.
- 2) SS Templates to cut Sled and Base samples.
- 3) SS Test Panel (ASTM) for Paper / Film to Metal Testing.



**DQ/IQ/OQ Documentation are supplied with certain models.**

**RS-232 Data Cable with USB-Serial Converter are supplied with models / SKUs with software.**

**Software Options :**

- 1) No Software
- 2) Regular Software (Not 21-CFR-11 Compliant)
- 3) 21-CFR-11 Compliant Software (*Vantage*).



For more information on the software [click here](#).

**Warranty :** 12 Months (Ex-Factory)

**Utilities Required :**

1. Power Supply (Current : Max 5 Amps) :
  1. For India (Domestic Model) : 230 Volts A.C., 50 Hz. Clean power.
  2. For Outside India (Export Model) : As per your country's power rating.
2. Desktop / Laptop PC (Intel Core i3, 4GB RAM, Win10 OS, 1600x900p Monitor) or higher.

## How to Order ?

### Step 1 : Choose Capacity of the loadcell.

Loadcell	Unit	1	5	10
Load Capacity :	Kgf	1	5	10
	N	9.8	49	98
COF Working Range :	cof	> 0.0250	> 0.1250	> 0.250
COF Least Count :	cof	0.0005	0.0025	0.005
COF Accuracy : 0.2% of Load Capacity	cof	0.01	0.05	0.10

### Step 2 : Select Part Number / Equipment SKU

Region Options	Industry Options	-	Equipment - Series	-	Loadcell Capacity (Kgf) Options	-	Software Options
D	N		COF – M		1		NS
E	P				5		RS
					10		CS

	Options	Description
Type	D	Domestic Model For Sale in India only. Warranty / Support valid only in India
	E	Export Model for Sale outside India only. Comes with a set of emergency spares. International Quality / Warranty / Support.

Industry	N	For Food / Beverage / FMCG Industry. (Non-Pharma).
	P	For use in Pharmaceutical Industry. DQ/IQ/OQ documents are provided with machine.

Equipment - Series	COF – M	COF Tester – M Series
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Loadcell	1 / 5 / 10	1 Kgf / 5 Kgf / 10 Kgf
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Software	NS	No Software. No RS-232-Port. No Data Cable.
	RS	Regular software. (Not 21-CFR-11 compliant) RS-232 Data Cable with USB-Serial Converter is provided.
	CS	21-CFR-11 compliant software. ( <i>Vantage</i> ). RS-232 Data Cable with USB-Serial Converter is provided.

**Examples and comparison of Part Code / SKU for Domestic (India) Models.**

Part Code / SKU	Type		Industry		Loadcell			Software		
	Domestic Model	Export Model	Non-Pharma	Pharma	1 Kg	5 Kg	10 Kg	No Software	Regular Software	21-CFR-11 Compliant Software
DN-COF-M1-NS	✓		✓		✓			✓		
DN-COF-M1-RS	✓		✓		✓				✓	
DN-COF-M5-NS	✓		✓			✓		✓		
DN-COF-M5-RS	✓		✓			✓			✓	
DN-COF-M10-NS	✓		✓				✓	✓		
DN-COF-M10-RS	✓		✓				✓		✓	
DP-COF-M1-NS	✓			✓	✓			✓		
DP-COF-M1-RS	✓			✓	✓				✓	
DP-COF-M1-CS	✓			✓	✓					✓
DP-COF-M5-NS	✓			✓		✓		✓		
DP-COF-M5-RS	✓			✓		✓			✓	
DP-COF-M5-CS	✓			✓		✓				✓
DP-COF-M10-NS	✓			✓			✓	✓		
DP-COF-M10-RS	✓			✓			✓		✓	
DP-COF-M10-CS	✓			✓			✓			✓

**Examples and comparison of Part Code / SKU for Export Models.**

Part Code / SKU	Type		Industry		Loadcell			Software		
	Domestic Model	Export Model	Non-Pharma	Pharma	1 Kg	5 Kg	10 Kg	No Software	Regular Software	21-CFR-11 Compliant Software
EN-COF-M1-NS		✓	✓		✓			✓		
EN-COF-M1-RS		✓	✓		✓				✓	
EN-COF-M5-NS		✓	✓			✓		✓		
EN-COF-M5-RS		✓	✓			✓			✓	
EN-COF-M10-NS		✓	✓				✓	✓		
EN-COF-M10-RS		✓	✓				✓		✓	
EP-COF-M1-NS		✓		✓	✓			✓		
EP-COF-M1-RS		✓		✓	✓				✓	
EP-COF-M1-CS		✓		✓	✓					✓
EP-COF-M5-NS		✓		✓		✓		✓		
EP-COF-M5-RS		✓		✓		✓			✓	
EP-COF-M5-CS		✓		✓		✓				✓
EP-COF-M10-NS		✓		✓			✓	✓		
EP-COF-M10-RS		✓		✓			✓		✓	
EP-COF-M10-CS		✓		✓			✓			✓

