

# Coefficient of Friction Table COF-10N

Friction table used with a force gauge.

Suitable for friction tests of papers and films.

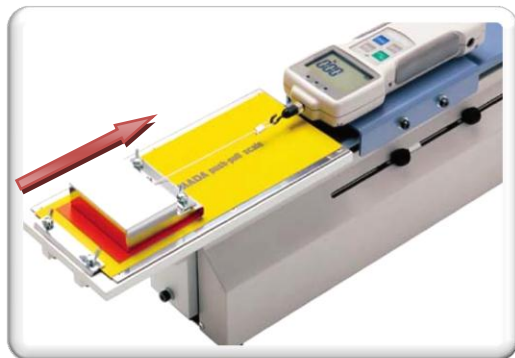
Static friction and average dynamic friction are easily detectable with included

For more precise test

Horizontal System

COF-2N

COF-10N



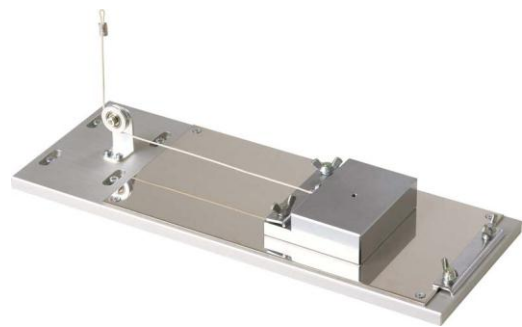
Measurement Example

For test at small space

Vertical System

COF-2N-V

COF-10N-V



Measurement Example




\* This product does not include either force gauges or test stands.

Specifications				
Model	COF-2N	COF-10N	COF-2N-V	COF-10N-V
Pull Direction	Horizontal System		Vertical System	
Weight	200g (Approx.2N)	1000g (Approx.10N)	200g (Approx.2N)	1000g (Approx.10N)
Sample Width	Max 1.5mm			
Stroke	Max 150mm			
Table Weight	Approx. 1.7kg		Approx. 1.9kg	
Dimensions	Refer to the next page.			
Accessory	Software: ZP-Recorder-COF      *PC is not included.			
Attachable Test Stands	MH-1000N-E ML-1000N-E		MX-500N-E, MX-1000N-E, MX-2000N-E MX2-500N, MX2-1000N, EMX-1000N	

\*Please get a contact with your local distributor or us when customized stroke or weight is needed.

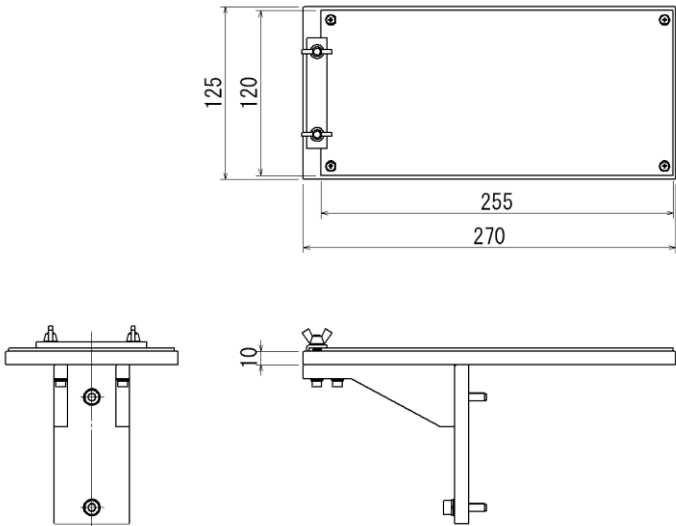
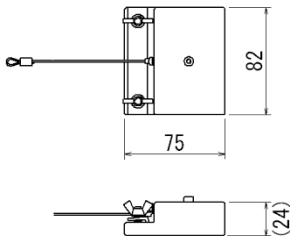
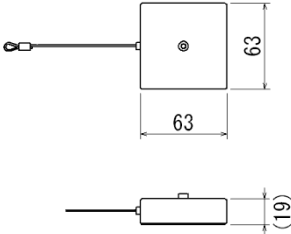
\*Weight can be solely purchased without the table and software.  
(Weight model [200g: COFW-2, 1000g: COFW-10])

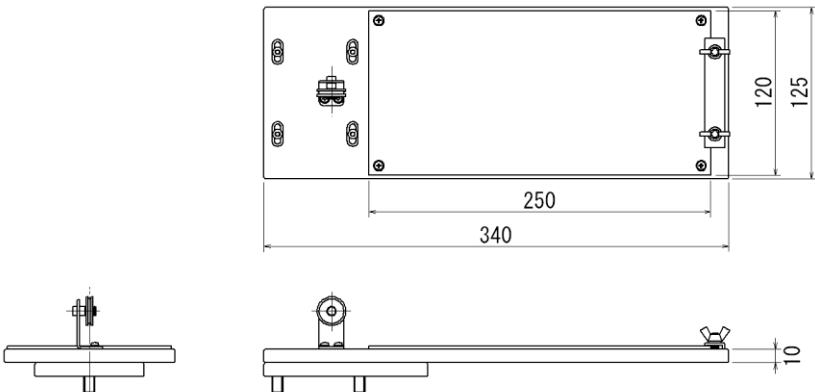
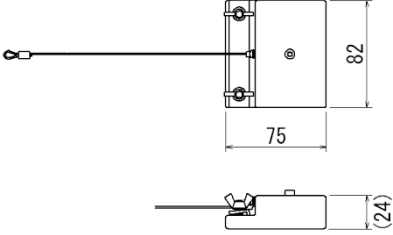
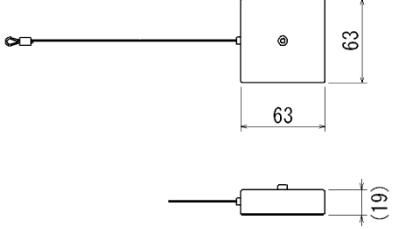
\*Please get a contact with us for attachment to other types of test stands.

Recommended Combinations	
Digital Force Gauge	Motorized Test Stand
 <p>ZP Series *Capacity depends on samples (Capacity should be 50N or less)</p>	 <p>Horizontal Test Stand MH-1000N-E (For COF-2N, COF-10N)</p>
	 <p>Vertical Test Stand MX2-500N (For COF-2N-V, COF-10N-V)</p>

Corresponded JIS: Japanese Industrial Standard		
JIS P8147 (1994)	Paper and board-Determination of the static and kinetic coefficients of friction	COF-10N COF-10N-V
JIS K7125 (1999)	Plastics - Film and sheeting - Determination of the coefficients of friction	COF-2N COF-2N-V

[Dimensions]

Horizontal System	
<div>Table</div>  <p>The table section contains three technical drawings. The top drawing is a top-down view of the table with dimensions: a vertical offset of 125mm, a vertical distance of 120mm, a horizontal distance of 255mm, and a total horizontal width of 270mm. The bottom-left drawing is a side view of the table's support structure. The bottom-right drawing is a side view of the table's horizontal beam, showing a 10mm offset.</p>	<div>Weight 1000g (for COF-10N, approx.10N)</div>  <p>The 1000g weight section contains two technical drawings. The top drawing is a side view of the weight with dimensions: a width of 75mm and a height of 82mm. The bottom drawing is a side view of the weight's hook, with a dimension of (24)mm.</p> <div>Weight 200g (for COF-2N, approx. 2N)</div>  <p>The 200g weight section contains two technical drawings. The top drawing is a side view of the weight with dimensions: a width of 63mm and a height of 63mm. The bottom drawing is a side view of the weight's hook, with a dimension of (19)mm.</p>

Vertical System	
<div>Table</div>  <p>The table section contains three technical drawings. The top drawing is a top-down view of the table with dimensions: a vertical offset of 120mm, a vertical distance of 125mm, a horizontal distance of 250mm, and a total horizontal width of 340mm. The bottom-left drawing is a side view of the table's support structure. The bottom-right drawing is a side view of the table's horizontal beam, showing a 10mm offset.</p>	<div>Weight 1000g (for COF-10N-V, approx.10N)</div>  <p>The 1000g weight section contains two technical drawings. The top drawing is a side view of the weight with dimensions: a width of 75mm and a height of 82mm. The bottom drawing is a side view of the weight's hook, with a dimension of (24)mm.</p> <div>Weight 200g (for COF-2N-V, approx. 2N)</div>  <p>The 200g weight section contains two technical drawings. The top drawing is a side view of the weight with dimensions: a width of 63mm and a height of 63mm. The bottom drawing is a side view of the weight's hook, with a dimension of (19)mm.</p>

**ZP Recorder-COF**

File CSV Print Help

Kgf N lbf **Manual Mode**

**0.00** N ZERO Y axis 0.5 N X axis 2 Sec

N Axes Comparator Trigger Bandwidth @Print

4.0  
3.5  
3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0  
-0.5  
-1.0

0 4 12 16 sec

**Statistics**

Rate(Hz)	1000.00
Samples	16,686
Rec. Time	16.685
Maximum	3.48
Minimum	-0.05
Average	2.187

**Peak Detect**

Value	-----
Time	-----
Threshold	-----

**Coefficient of Friction**

Sled Weight	9.807
Static COF	0.3548
Dynamic COF	0.2574

**Selected Range**

☐ Automatic Reset

Org.(sec)	3.212
End(sec)	14.647

Folder: C:\Documents and Settings\VP\My Documents File Name: Force File

Enable to display static friction:  $\mu_S$  and average dynamic friction:  $\mu_D$ , by starting drawing the graph of measurement just after the weight starts to move.

Rate (Hz) 1000.00  
 Samples 11436  
 Maximum 2.87  
 Minimum 2.27  
 Average 2.524  
 Threshold -----  
 Detected Peak Value ▲ -----  
 Time at Peak Value -----  
 Static COF 0.3548  
 Dynamic COF 0.2574

Rate (Hz) 1000.00  
 Samples 11436  
 Maximum 2.37  
 Minimum 2.04  
 Average 2.168  
 Threshold -----  
 Detected Peak Value ▲ -----  
 Time at Peak Value -----  
 Static COF 0.3100  
 Dynamic COF 0.2209

Rate (Hz) 1000.00  
 Samples 11436  
 Maximum 2.22  
 Minimum 1.99  
 Average 2.111  
 Threshold -----  
 Detected Peak Value ▲ -----  
 Time at Peak Value -----  
 Static COF 0.2875  
 Dynamic COF 0.2153

Rate (Hz) 1000.00  
 Samples 11436  
 Maximum 2.24  
 Minimum 1.96  
 Average 2.086  
 Threshold -----  
 Detected Peak Value ▲ -----  
 Time at Peak Value -----  
 Static COF 0.2916  
 Dynamic COF 0.2107

Rate (Hz) 1000.00  
 Samples 11436  
 Maximum 2.18  
 Minimum 1.94  
 Average 2.031  
 Threshold -----  
 Detected Peak Value ▲ -----  
 Time at Peak Value -----  
 Static COF 0.2886  
 Dynamic COF 0.2071

Ceiling 4.000  
 Bottom 2.000  
 L-Boundary 3.212  
 R-Boundary 14.647  
 Sled Weight 9.807

The contents may be changed without notice in advance.  
This product is designed for force measurement only. Do not use it for other purpose.  
Some samples may not be able to be gripped depending on materials and shapes.  
Do not copy and use the contents without authority.