



Additional chargeable functions^{*1,2} for Force Recorder Next Series

Plug-in designed to enhance
the quality of professional measurement and analysis

- **Friction Testing Module**
- **Peel Testing Module 1**
- **Pressure/Stretchability Measurement Module**
- **Switch Operating Force Testing Module**
- **Spring Rate Measurement Module**
- **Deflection Correction Function**
- **Bending Stress Measurement Module**
- **Excel Data Writing Function**

*Please refer to the specifications for details concerning the Force Recorder Next series.

*1 IMADA Connected introduces other supplementary functions (or features) for the Force Recorder Next series.
For the latest lineup, please visit IMADA Connected.

*2 For the additional Force Recorder Next Series supplementary functions downloads listed below, the purchase of
the download card(s) required.

Force Recorder Next series updates may be required for installing



COF

Friction Testing Module

Automatically calculates Coefficient of Friction from measured values and supports compliance with relevant standards for friction tests

Feature 1

Automatic calculation of friction coefficient, standard conformity judgment of file/selected data, pass/fail judgment of measurement results

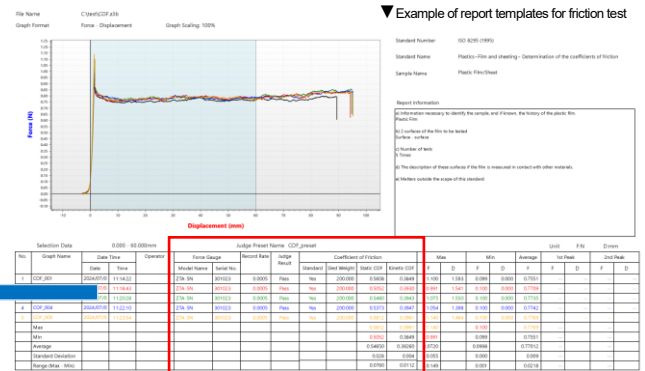


Force Gauge		Record Rate		Judge Result	Coefficient of Friction		
Model Name	Serial No.				Standard	Sled Weight	Static COF
ZTA-SN	301023	0.0005	Pass	Yes	Yes	200.000	0.5608
ZTA-SN	301023	0.0005	Pass	Yes	Yes	200.000	0.5052
ZTA-SN	301023	0.0005	Pass	Yes	Yes	200.000	0.5480
ZTA-SN	301023	0.0005	Pass	Yes	Yes	200.000	0.5373
ZTA-SN	301023	0.0005	Pass	Yes	Yes	200.000	0.5812
							0.3961
							0.5052
							0.3849
							0.54650
							0.39260
							0.028
							0.004
							0.0760
							0.0112

Automatically calculates and displays the coefficient of static friction and average dynamic friction coefficient from measurement results by presetting the weight of the weights and the calculation section. It also displays the result of standard conformity judgment of selected data.

COF Values		COF Values	
Yes		No	
Sled Weight	200.000 g	Sled Weight	200.000 g
Static COF	0.5608	Static COF	0.5608
Kinetic COF	0.3849	Kinetic COF	0.3767

Measurement data can be easily output using dedicated report templates, csv, etc.



Feature 2

Supported measurements complying with friction test-related standards

Measurement conditions comply with JIS, and other standards related to friction testing are preinstalled for the efficiency in setting up according to the standards. In addition, the user preset function can save any user-made measurement conditions.

Coefficient of Friction

Standard

User

Standard Information

Standard Number

JIS K7125 (1999)

Standard Name

Plastics-Film and sheeting- Determination of the

Sample Name

Plastic Film/Sheet

Standard Template

ASTM D1894 (2014 Withdraw) -inch
ASTM D1894 (2014 Withdraw) -mm
ISO 8295 (1995)
JIS K7125 (1999)
JIS P8147 (2010)
TAPPI T549 (2020) -inch
TAPPI T549 (2020) -mm

▲ Supported standard(as of July,2024)
* Different from each software.

Supports measurement setup with the standard with descriptions

Standard Information

Standard Number: JIS K7125 (1999)

Standard Name: Plastics-Film and sheeting- Determination of the coefficients of friction

Sample Name: Plastic Film/Sheet

Overview

The sled is a metal block with dimensions of 63.5 mm square, and its weight is 200 ± 2 g.

Move at a uniform speed of 100 ± 10 mm/min.

Measure the static friction force when the weight starts to move and the dynamic friction force during the interval of 60 mm after the weight starts moving.

Calculate the static and dynamic friction coefficients from the respective static and dynamic friction forces.

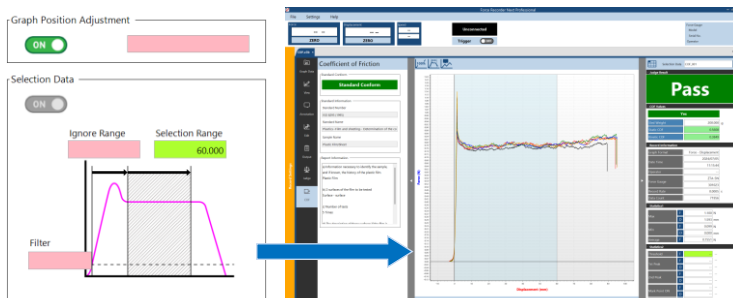
Report Information

ON

- Information necessary to identify the sample, and if known, the history of the plastic film.
- 2 surfaces of the film to be tested
- Number of tests
- The description of these surfaces if the film is measured in contact with other materials.

Easy report creation thanks to preinstalled report setting required for relevant standards

The Select data required for kinetic friction calculation set automatically, according to the standards.



In addition to the result of standard conformity judgment of selected data, it also displays the result of standard conformity judgment of file.

Standard Conform		Standard Conform	
Standard Conform		Standard Non-Conform	



Peel

Peel Testing Module 1

Automatic conversion of measurement results to peel force units and the measurement standards compliance support

Feature 1

Automatic conversion of peel force units, standard conformity judgment of file/selected data, pass/fail judgments of measurement results

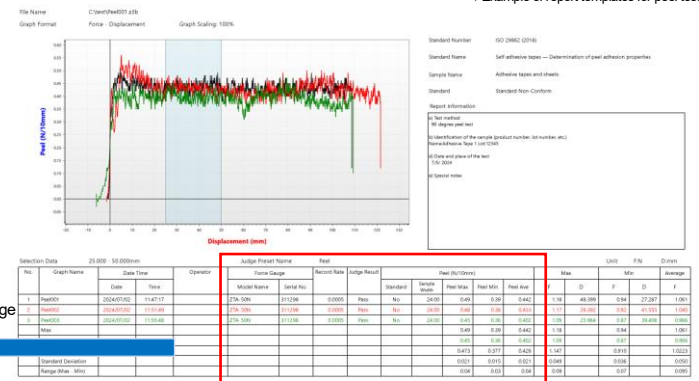


The measurement results are automatically converted and displayed in the set peel force unit (N/10mm, etc.) by advanced setting conditions such as sample width, conversion unit, and calculation interval. It also displays the result of standard conformity judgment of selected data.

Peel Force Values		Peel Force Values	
Yes		No	
Sample Width	24.00 mm	Sample Width	24.00 mm
Peel Max	0.49 N/10mm	Peel Max	0.49 N/10mm
Peel Min	0.38 N/10mm	Peel Min	0.39 N/10mm
Peel Ave	0.436 N/10mm	Peel Ave	0.442 N/10mm

- Measurement data can be easily output using dedicated report templates, csv, etc.

▼Example of report templates for peel test



Enlarge

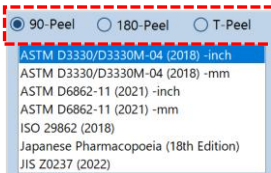
Judge Preset Name Peel ▼Output of Peel test measurement data

Force Gauge		Record Rate	Judge Result	Peel (N/10mm)				
Model Name	Serial No.			Standard	Sample Width	Peel Max	Peel Min	Peel Ave
ZTA-50N	311298	0.0005	Pass	No	24.00	0.49	0.39	0.442
ZTA-50N	311298	0.0005	Pass	No	24.00	0.48	0.38	0.433
ZTA-50N	311298	0.0005	Pass	No	24.00	0.45	0.36	0.402
						0.49	0.39	0.442
						0.45	0.36	0.402
						0.473	0.377	0.426
						0.021	0.015	0.021
						0.04	0.03	0.04

Feature 2

Supports peel test compliance with relevant standards

- Same as in the Friction Testing Module, possible to additionally preset and register the various measurement conditions.



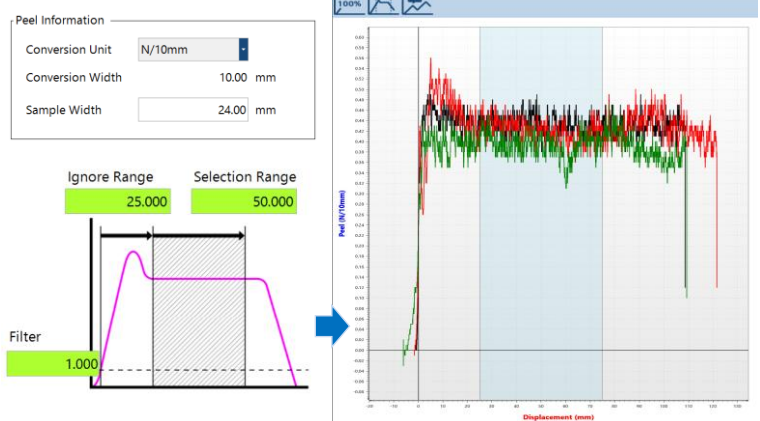
◀Packaging industry standards for the three test methods with 90/180 degrees, and the T-shape tests are preset and registered as measurement conditions.

▼Supported standard(as of November2024)

Peel test supported standards	90°	180°	T-Peel
ASTM D3330/D3330M-04 (2018)	✓	✓	—
ASTM D6862-11 (2021)	✓	—	—
ISO 29862 (2018)	✓	✓	—
Japanese Pharmacopoeia (18th Edition)	✓	✓	—
JIS Z0237 (2022)	✓	✓	—
ASTM F88/F88M-23 (2023)	—	✓	✓
ASTM D1876-08 (2023)	—	—	✓
ISO 11339 (2022)	—	—	✓
JIS K6854-3 (1999)	—	—	✓
JIS Z0238 (1998)	—	—	✓
JIS Z1707 (2019)	—	—	✓
BS EN 868-5:2018	—	—	✓

* Different from each software.

- The peel test version of the Friction Testing Module and the corresponding standards and measurement conditions are for peel tests. The section data required to calculate the average peel force in the specified peel range is also automatically set.



- In addition to the result of standard conformity judgment of selected data, it also displays the result of standard conformity judgment of file.

Standard Conform	Standard Conform
Standard Conform	Standard Non-Conform

P/s

PRESS./Stretch.

Pressure/Stretchability Measurement Module

Displays Compression/Tensile measurement results in terms of Pressure and Stretchability

Feature 1

Automatic conversion of force value per area unit and stretchability / stretchability rate, and pass/fail judgment of measurement results



- When a compression/tension test performed by setting the sample's cross-sectional area and the compression jig's area, the force value of the measurement results converted to a force value per unit area (= pressure) and displayed, in addition, the initial length/height of the sample set, and after compression/tension measurement, the stretchability/stretchability rate displayed from the displacement amount. The graph's Y-axis (pressure \leftrightarrow force) and X-axis (stretchability \leftrightarrow displacement) can also be switched.

Pressure/Stretchability

preset_2

Pressure (Y-Axis) Information

Graph Change

ON

Pressure Unit

kPa

Area

10.000 mm²

Stretchability (X-Axis) Information

Graph Change

ON

Stretchability Unit

Δ%

Initial Length

30.000 mm

Pressure/Stretchability Values

Area		28.000	mm ²
Initial Length		10.000	mm
Max Pressure	P	1.814	MPa
	Δ	41.160	%
Min Pressure	P	0.000	MPa
	Δ	0.000	%
Ave Pressure	P	0.9760	MPa

*Units for Pressure and Stretchability unable to change after recording.

*Parameters such as Young's modulus and yield point are made to order. Please contact us for details.

*Stretchability/stretchability rate conversion only supported by Force Recorder Next Professional.

Feature 2

Measurement efficiency supported with measurement condition presets

- Measurement conditions preset before starting measurement, making switching between conditions to suit the sample easier and improving measurement efficiency.

- Measurement data can be easily output using dedicated report templates, csv, etc.

Pressure/Stretchability

preset_2

Pressure (Y-Axis) Information

Graph Change

ON

Pressure Unit

kPa

Area

10.000 mm²

Stretchability (X-Axis) Information

Graph Change

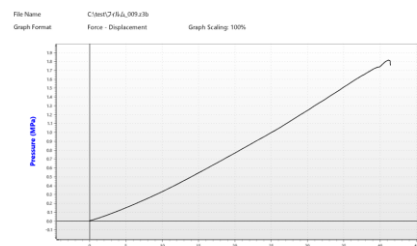
ON

Stretchability Unit

Δ%

The preset function is limited to the administrator privilege holders for the measurement conditions management.

番号	名前	有効	単位	面積	有効	単位	初期長さ
1	preset_1	×	MPa	28.000	×	Δ%	10.000
2	preset_2	×	kPa	10.000	×	Δ%	30.000
3	preset_3	×	N/mm ²	20.000	×	Δ%	15.000



No.	Graph Name	Date Time	Operator	Force Gauge Model Name	Serial No.	Judge Result	Area	Length	Max(MPa)	Max(Δ%)	Min(MPa)	Min(Δ%)	Average(MPa)	Unit	F/F0	Error
1	21545-110140	2024/11/08	110144	ZTA-50N-1	123456	Pass	28.000	10.000	1.814	41.160	0.000	0.000	0.9760	MPa	1.154	0.00
									1.814	0.000	0.000	0.000	0.9760			
									1.8140	0.0000	0.0000	0.0000	0.97600			
									---	---	---	---	---			
									0.000	0.000	0.000	0.000	0.0000			

Enlarge

Judge Preset Name: Preset

▼Output of Pressure/Stretchability measurement data

Force Gauge Model Name	Serial No.	Judge Result	Area	Length	Max(MPa)	Max(Δ%)	Min(MPa)	Min(Δ%)	Average(MPa)
ZTA-50N-1	123456	Pass	28.000	10.000	1.814	41.160	0.000	0.000	0.9760
					1.814	0.000	0.000	0.000	0.9760
					1.8140	0.0000	0.0000	0.0000	0.97600
					---	---	---	---	---
					0.000	0.000	0.000	0.000	0.0000



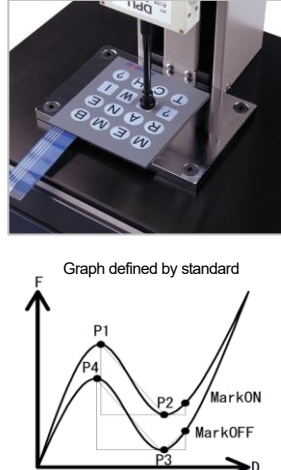
Switch

Switch Operating Force Testing Module

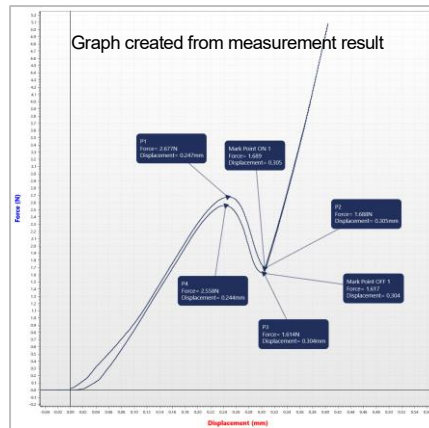
Supports standard compliance for calculating and measuring the tactile characteristics

Feature 1

Automatic calculation of Switch Operating Force Testing Module, standard compliance/conformity, pass/fail judgment of measurement results



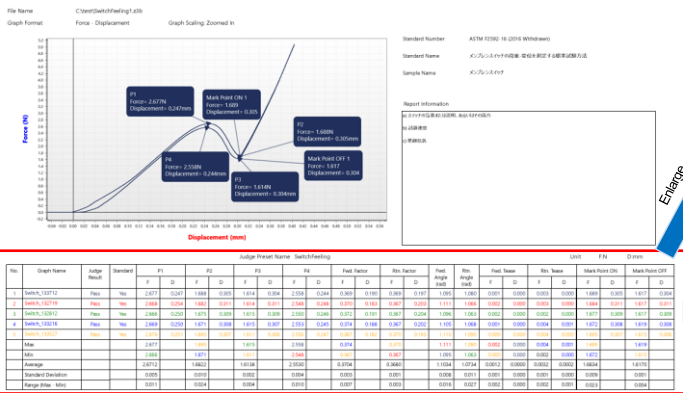
- Switch characteristic parameters such as click rates automatically calculated and displayed from the switch actuation and bottom reaction force. The Selected standard compliance is displayed.



Switch Operating Force Values			
		Yes	
Threshold	F	0.100	
P1	F	2.677 N	
	D	0.247 mm	
P2	F	1.688 N	
	D	0.305 mm	
P3	F	1.614 N	
	D	0.304 mm	
P4	F	2.558 N	
	D	0.244 mm	
Fwd. Factor	F	0.369	
	D	0.190	
Rtn. Factor	F	0.369	
	D	0.197	
Fwd. Angle	F	1.095 rad	
Rtn. Angle	F	1.080 rad	
Fwd. Tease	F	0.001 N	
	D	0.000 mm	
Rtn. Tease	F	0.003 N	
	D	0.000 mm	

- Measurement data can be easily output using dedicated report templates, csv, etc.

▼Example of report template for Switch Operating Force Testing Module



*Force-displacement graphs are only supported by Force Recorder Next Professional.

Judge Preset Name SwitchFeeling											
No.	Graph Name	Judge Result	Standard	P1		P2		P3		P4	
1	Switch_133712	Pass	Yes	F	D	F	D	F	D	F	D
2	Switch_133719	Pass	Yes	2.677	0.247	1.688	0.305	1.614	0.304	2.558	0.244
3	Switch_132812	Pass	Yes	2.666	0.250	1.675	0.309	1.615	0.309	2.550	0.246
4	Switch_133216	Pass	Yes	2.669	0.250	1.671	0.308	1.615	0.307	2.553	0.243
5	Switch_133527	Pass	Yes	2.676	0.251	1.695	0.307	1.611	0.306	2.556	0.247
Max				2.677		1.695		1.615		2.558	
Min				2.666		1.671		1.611		2.548	
Average				2.6712		1.6822		1.6138		2.5530	
Standard Deviation				0.005		0.010		0.002		0.004	
Range (Max - Min)				0.011		0.024		0.004		0.010	

Unit F·N D·mm															
Fwd. Factor		Rtn. Factor		Fwd. Angle (rad)		Rtn. Angle (rad)		Fwd. Tease		Rtn. Tease		Mark Point ON		Mark Point OFF	
F	D	F	D	F	D	F	D	F	D	F	D	F	D	F	D
0.369	0.190	0.369	0.197	1.095	1.080	0.001	0.000	0.003	0.000	0.000	0.000	1.689	0.305	1.617	0.304
0.370	0.189	0.367	0.203	1.111	1.066	0.002	0.000	0.003	0.000	0.000	0.000	1.684	0.311	1.617	0.311
0.372	0.191	0.367	0.204	1.096	1.063	0.002	0.000	0.002	0.000	0.000	0.000	1.677	0.309	1.617	0.309
0.374	0.188	0.367	0.202	1.105	1.066	0.001	0.000	0.004	0.001	0.001	0.001	1.672	0.308	1.619	0.308
0.367	0.182	0.370	0.193	1.110	1.090	0.000	0.000	0.004	0.000	0.000	0.000	1.695	0.307	1.615	0.306
0.374		0.370		1.111	1.090	0.002	0.000	0.004	0.001	0.001	0.001	1.695		1.619	
0.367		0.367		1.095	1.063	0.000	0.000	0.002	0.000	0.000	0.000	1.672		1.615	
0.3704		0.3680		1.1034	1.0734	0.0012	0.0000	0.0032	0.0002	0.0002	0.0002	1.6834		1.6170	
0.003		0.001		0.008	0.011	0.001	0.000	0.001	0.000	0.000	0.000	0.009		0.001	
0.007		0.003		0.016	0.027	0.002	0.000	0.002	0.001	0.001	0.001	0.023		0.004	

Feature 2

Supports measurements complying with the Switch Operating Force Testing Module

- The preset measurement conditions comply with relevant standards for switch testing for easy setups according to the standard required. Also, the user preset function enables additional standard registration for the measurement requirements.

▼Supported standard(as of November 2024)

Switch Operating Force

Standard

User

Standard Information

Standard Number

ASTM F2592-16 (2016 Withdrawn)

Standard Name

Standard Test Method for Measuring the Force-

Sample Name

Membrane Switch

Switch Information

Threshold

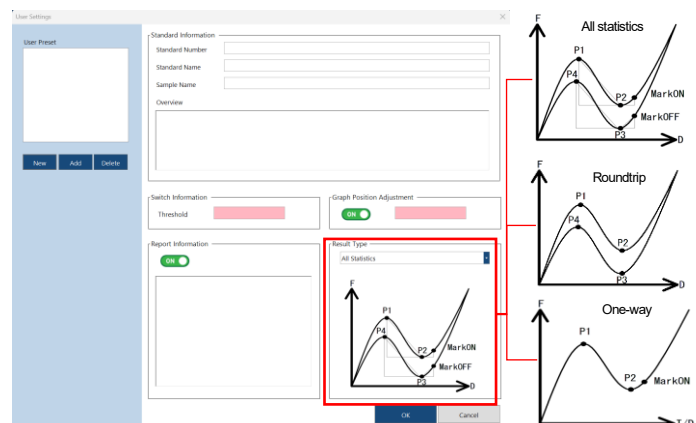
2.000

Standard Template

ASTM F2592-16 (2016 Withdrawn)

*Additional specifications added by special order. Please contact us for details.

- For User Presets, 3 "Result Types" are available for the measurement requirements.





Spring

Spring Rate Measurement Module

Automatic calculation of spring rate for compression springs, extension springs, and disc springs

Feature

Automatic calculation of “spring rate”, pass/fail judgments of measurement results



*This function is only supported by Force Recorder Next Professional.

- Automatically calculate the “spring rate” which is the force required to extend or compress a spring and display the measurement result. In addition, measurement data with spring rate and related parameters can be easily output using dedicated report templates, csv, etc.

☐ Compression ☒ Tension ☐ Disc

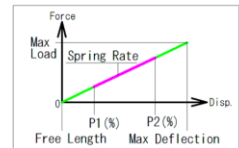
Tension Spring Information

Maximum Load

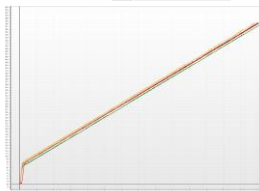
P1 (%)

P2 (%)

Note

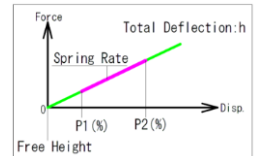
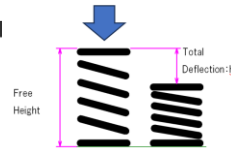


Tension Spring Statistics		
Spring Rate		3.650 N/mm
Maximum Load	F	58.2 N
	D	14.017 mm
P1	F	11.9 N
	D	1.402 mm
P2	F	42.6 N
	D	9.812 mm



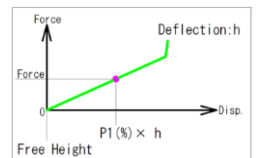
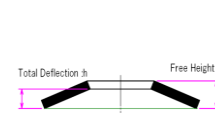
▲Tension Spring Selection

Calculate Spring Rate between P1(%) and P2(%) of the displacement of the maximum force (total deflection) applied to the spring.



▲Compression Spring Selection

Calculate Spring Rate between P1(%) and P2(%) up to total reflection



▲Disc Spring Selection

Calculate force at a specified percentage P1(%) of total deflection
*Must be used in combination with Deflection Correction Function.



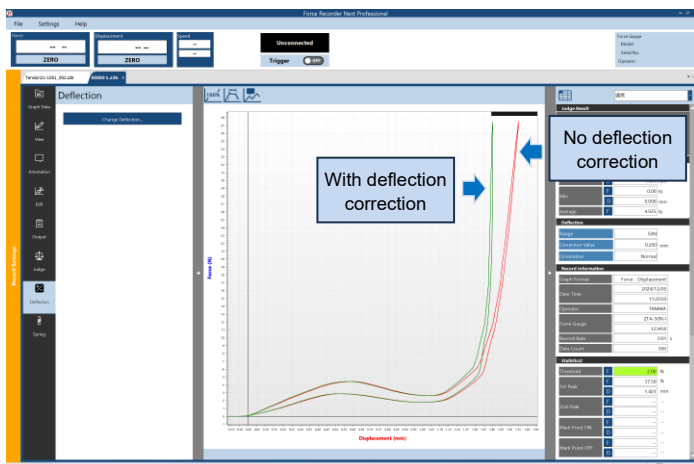
Deflection

Deflection Correction Function

Deflection correction of measurement devices to obtain high accuracy force-displacement measurement

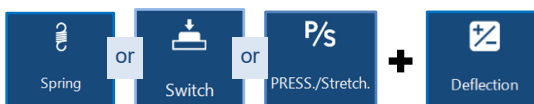
Feature

Correct deflection of measurement devices and reflect highly accurate displacement values in measurement results



*This function is only supported by Force Recorder Next Professional.

- Able to be used in combination with other additional chargeable functions.



- Correct error caused by deflection of measurement devices by software and reflect highly accurate displacement values in the measurement results. In particular, the relationship between force and displacement can be measured more precisely in tests with large force - small displacement values.

Deflection	
Range	50N
Correction Value	0.200 mm
Orientation	Normal

Deflection

ON

Deflection Correction Information

Range	2N
Correction Value	1.000 mm
Orientation	<input checked="" type="radio"/> Normal <input type="radio"/> Reverse

- Able to register the preset of Deflection Correction Information. The deflection correction information is displayed in the Statistics tab on the right of viewing window.

- Deflection Correction Information can be output along with each output data.

File Name C:\test\02\0000 1\3b
Graph Format Force - Displacement

Information

No.	Graph Name	Date Time	Operator	Force Gauge	Record Rate	Data Count	Deflection Correction		
							Range	Correction Value	Orientation
1	None	2024/12/05 11:20:45	TANAKA	ZTA-S0N-4 123456	0.01	500	---	---	---
2	Reverse	2024/12/05 11:20:45	TANAKA	ZTA-S0N-4 123456	0.01	500	---	---	---
3	Normal	2024/12/05 11:20:45	TANAKA	ZTA-S0N-4 123456	0.01	500	50N	0.200 mm	Normal



Bending Stress

Bending Stress Measurement Module

Automatically calculates bending stress for 3-point bending, 4-point bending, and cantilever beam tests.

Feature

Automatically calculate and display "bending stress" for material strength design, performance evaluation, and durability confirmation / judge pass or fail based on measurement results.



- Specify the necessary parameters according to each test method, automatically calculate the "bending stress", and display the measurement results. Dedicated report templates and CSV formats are available to output bending stress and related parameters.

☒ 3 Point ☐ 4 Point ☐ Cantilever

Applicable to three types of test methods.

- For each test method, the parameters required to calculate 'bending stress' include the distance between supports, sample shape (*1), and size etc.

3 Point Bending Test Information

L: Length 100.000 mm

Shape ☐ Rectangular Bar ☒ Round Bar

d: Diameter 10.000 mm

4 Point Bending Test Information

L: Length 100.000 mm

S: Upper Span 10.000 mm

Shape ☒ Rectangular Bar ☐ Round Bar

b: Width 10.000 mm

h: Height 10.000 mm

Cantilever Bending Test Information

L: Length 10.000 mm

Shape ☐ Rectangular Bar ☐ Round Bar

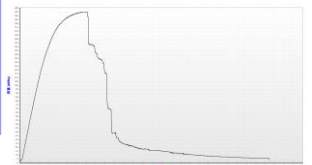
b: Width 10.000 mm

h: Height 10.000 mm

3 Point Bending Statistics	
Bending Stress	194.583 MPa
Length	100.000 mm
Width	4.000 mm
Height	3.000 mm

4 Point Bending Statistics	
Bending Stress	172.000 MPa
Length	100.000 mm
Upper Span	60.000 mm
Width	4.000 mm
Height	3.000 mm

- The graph units can be converted from load (N) to bending stress (MPa).



* Applicable only bending tests with a single-point concentrated force.

*1 Applicable only for square/rectangular bar and round bar samples. Not applicable for hollow bars.



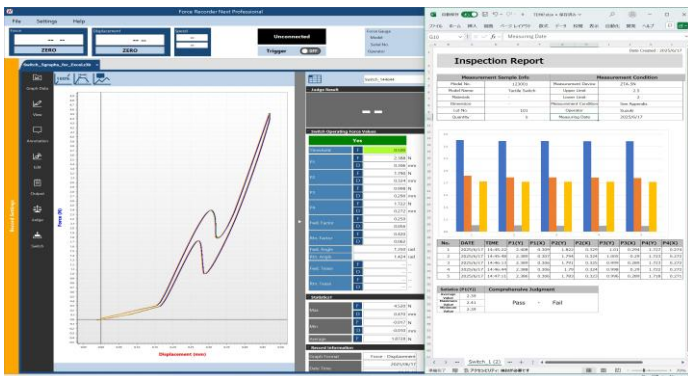
Excel

Excel Data Writing Function

Automatically write measurement data to any specified Excel file.

Feature

Automatically writing measurement data to an Excel file supports the creation of measurement result reports.



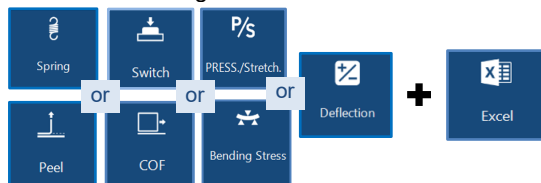
- Statistical values, record information, pass/fail judgment results, and other parameters are automatically written to the Excel file specified by the user.

Judge	Record Information	Statistics1	Statistics2	Bending Stress
Item	Enable / Disable			
Max (Y-Axis)	<input type="checkbox"/>			
Max (X-Axis)	<input type="checkbox"/>			
Min (Y-Axis)	<input type="checkbox"/>			
Min (X-Axis)	<input type="checkbox"/>			
Average (Y-Axis)	<input type="checkbox"/>			

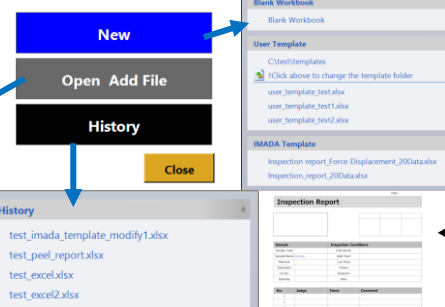
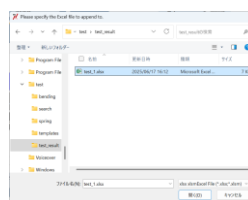
able to predefine the parameters to be written to the Excel file.

- The Excel file to be written to can be specified using one of three buttons in the pre-record settings tab: [New], [Open Add File], or [History].

- Able to be used in combination with other additional chargeable functions.



Select the excel file to append the measurement data.



Create the excel file from blank workbook or templates.

Template sample

Select excel file from the previously used file list.

*Supported excel file formats: [.xlsx] and [.xlsm].

[Disclaimer]

Microsoft Excel is a registered trademark of Microsoft Corporation in the United States and other countries.

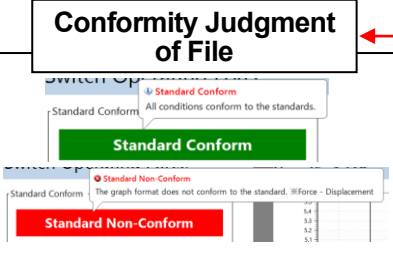
This software is independently developed by our company and is not affiliated with, endorsed by, or associated with Microsoft Corporation.

Standard Conformity Judgment

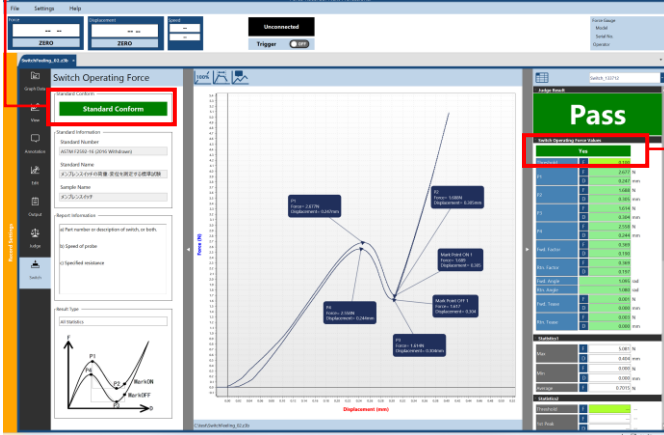
* This function is not available in additional chargeable function without [Standard Settings].

The [Standard Conformity Judgment] is available in additional chargeable functions with [Standard Setting]. Each judgment result can be confirmed in the measurement results viewing window. The [Conformity Judgment of File] is displayed on the left side, and the [Conformity Judgment of Selected Data] is displayed on the right side.

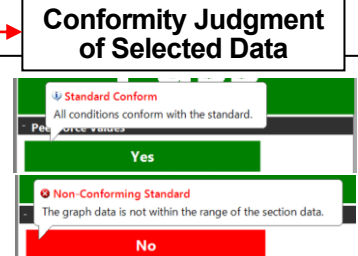
Conformity Judgment of File



- The software evaluates whether the entire file data has been acquired according to the software's configurable conditions for standards.
- The reasons for "Conform / Non-Conform" are displayed in the popup window over the judgment result.
- The [Conformity Judgment of File] and [Conformity Judgment of Selected Data] will not be conducted in the measurement result acquired by using user preset conditions. The judgment result will be displayed as [--].



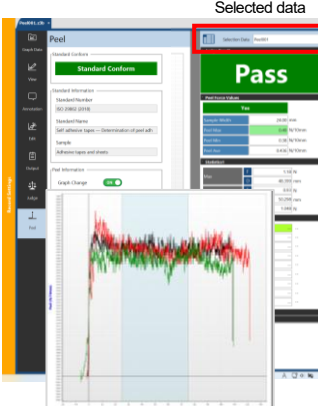
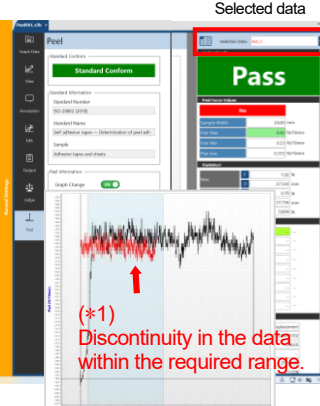
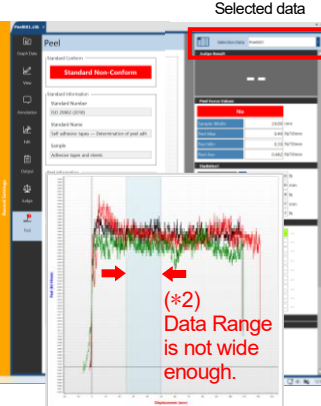
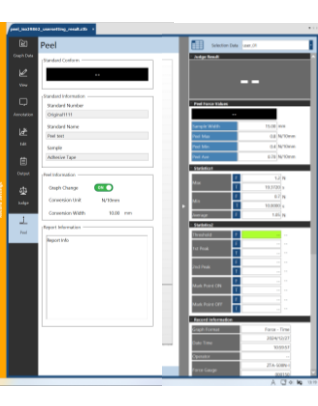
Conformity Judgment of Selected Data



- The software evaluates whether the individual measurement data in the file meet the selected standards.
- The reasons for "Yes / No" are displayed in the popup window over the judgment result.
- The reason of judgment result "No" varies depending on the additional chargeable function. Please refer to the instruction manual for each function.

[Conformity Judgement Pattern]

*An example of applying the ISO 29862(2018) preset in the Peeling Test Module.

	Pattern1		Pattern2		Pattern3		Pattern4	
Compliance Conditions	1. Force Unit:N 2. Displacement Unit:mm 3. Conversion Unit:N/10mm 4. Graph Format:Force-Displacement 5. Selection Data Range:50mm 6. Sample Width:≤24±0.5m							
Judgment Result	Standard Conform	Yes	Standard Conform	No	Standard Non-Conform	No	--	--
Description of Result	The measurement was conducted according to the compliance conditions.	The selected measurement data meets the compliance conditions.	The measurement was conducted according to the compliance conditions.	The selected measurement data does not meet the compliance conditions. (Refer to *1)	The measurement was not conducted according to the compliance conditions. (Refer to *2)	Regardless of the results, if the result of Conformity Judgment of File is [Standard Non-Conform], all result of Conformity Judgment of Selected Data will be [No].	The measurement was conducted under user preset conditions,	The measurement data was acquired by using user preset conditions.
Example	Selected data		Selected data		Selected data			
								

[Notes]

- When adding graph data from different files, it can be added if the units of the Y-axis/X-axis are the same. However, the preset conditions, including the standard compliance judgement of the destination file, will be those of the destination file.
- Compliance requirements for the standards vary depending on the additional features, so please refer to the instruction manuals for the respective additional features.

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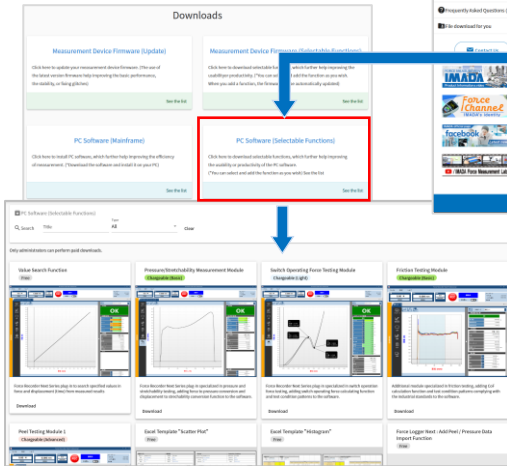
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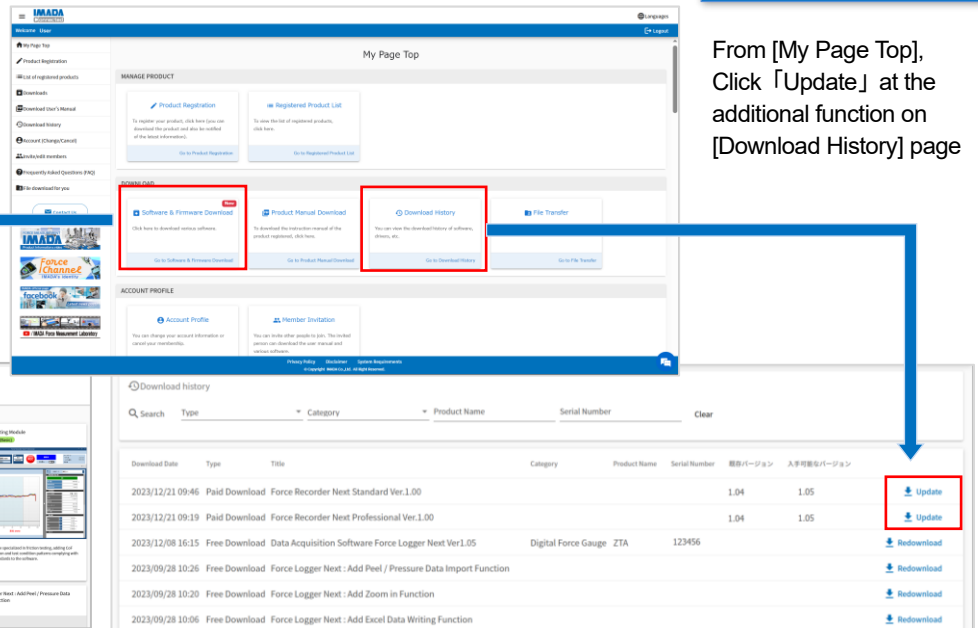
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Spring Rate Measurement Module		✓	
Deflection Correction Function		✓	
Bending Stress Measurement Module		✓	
Excel Data Writing Function		✓	

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