

180-degree Peeling Tester IPTS-5N

- Specialized for peel test of embossed carrier tape complying with IEC and JIS
- High sampling rate of 2000Hz ensures accurate graphing
- Handles a wide range of test speed up to 1500 mm/min
- One-click user-friendly operation



IPTS-5N

Test Image

<p>IEC/JIS standards for peel test of embossed carrier tape</p>	<p>IEC 60286-3:2013 Packaging of components for automatic handling-Part 3: Packaging of surface mount components on continuous tapes. (Partly) (Corresponding Japanese standard: JIS C0806-3:2014)</p>
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Features	
<p>Accurate graphing It captures rapid force change due to its high sampling rate (2000Hz) thus ensures high repeatability.</p>	<p>One-click operation Simply press the START button to start the test. It peels the sample to the set stroke (peel length).</p>
<p>Automatic recording It can automatically record, graph and save data when testing.</p>	<p>Visual analysis It can overlay up to 5 graphs to allow easy comparison and visual analysis. It can automatically calculate Max/Min/Ave values of each graph and shows them in the same table.</p>

[Main functions]

[Test conditions]

- Peel length

Max. 200mm

- Load cell height adjustment

Easily adjust the height of load cell by rotating the knob to suit the sample (up to 13mm).

- Stroke limit knob

Adjust stroke (peel length) easily by the limit knob.

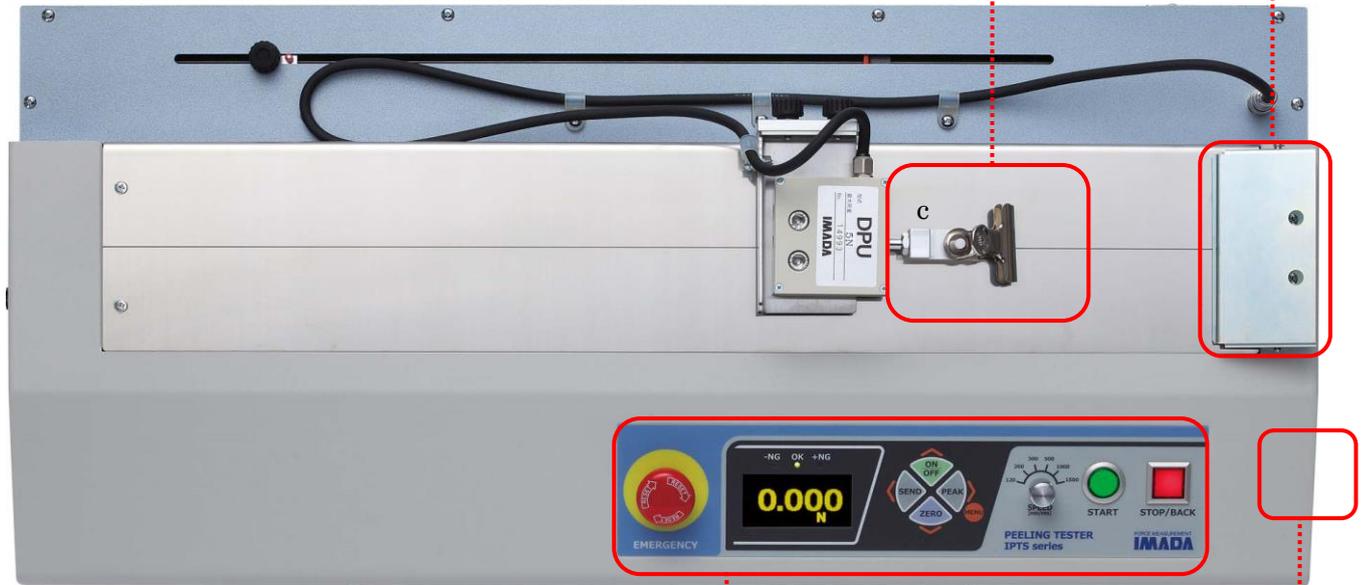
[Sample fixing]

- Center line

Attach the sample straight along with the center line, and fix it with sample clip.

- Easy gripping

Simply grip film with film clip, and hang the clip to the load cell.



[Controls]

- Organic EL display

Clear organic display provides excellent readability.

- Simple operation

Simply press start button to start the test. It enables automatic graphing by software.

- A wide range of test speed

120, 200, 300, 500, 1000, 1500mm/min (Switchable by a knob)

[Output]

- USB connector

Connect it to a PC using a supplied USB cable.



Procedure of Test			
Attach a sample	Set test speed and stroke	Grip film	Start test
Attach a sample straight along with the center line.	Select test speed with SPEED dial and set stroke (peel length) by limit knob.	Grip the peeled covering tape film with the film clip.	Press START button to start test. Meanwhile it starts automatic recording.
			

[Main functions of supplied software]

[Basic operation]

- Save graphs automatically

It enables automatic graphing and data saving by using trigger function.

- Switch graphs with plural tabs

The recorded graphs can be displayed in plural tabs.

- Add notes

Notes can be inserted at desired points on the graph.

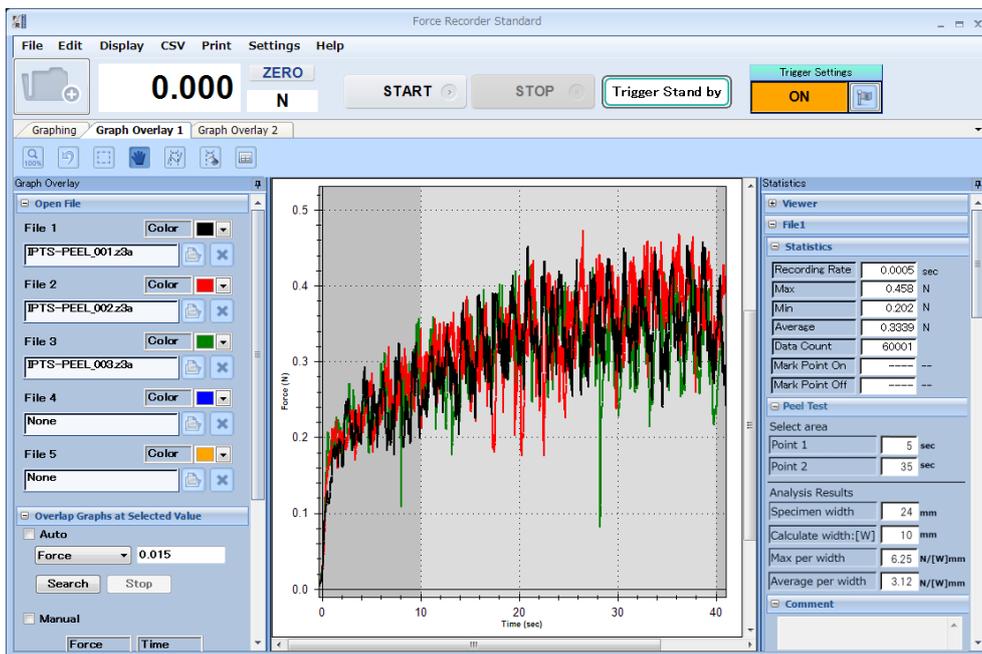
[Advanced operation]

- Overlay graphs

Max. 5 graphs can be overlaid. It can be printed and output in desired format.

- Zoom graph

Simply click and drag to specify an area to zoom-in. The Max, Min, and Ave. values of the selected area are displayed. It allows you to print or output in desired format.



[Others]

- Statistics display

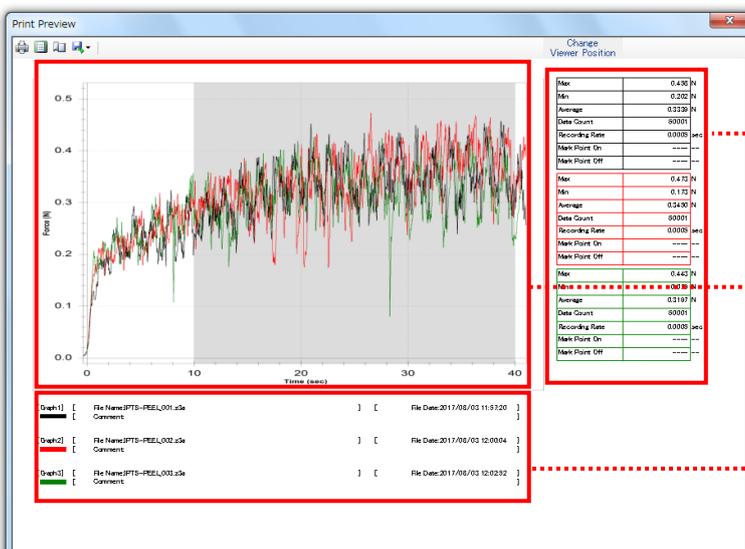
The Max, Min, and Ave. values can be displayed. When the specimen width and calculate width are input, the Max and Ave per width can be calculated and shown as N/(width)mm.

Peel Test	
Select area	
Point 1	5 sec
Point 2	35 sec
Analysis Results	
Specimen width	24 mm
Calculate width: [W]	10 mm
Max per width	6.25 N/[W]mm
Average per width	3.12 N/[W]mm

- Input comment

Notes such as testing conditions up to 198 characters can be input.

[Output sample image]



Statistics

Graph data

File name, folder, and comments

[Output]

- Printing

It prints out in A4 or letter size.

- Digital output

The data can be output in Word, Excel, and PDF format.

Graph is attached as an image file.

Specifications	
Model	IPTS-5N
Capacity	5N
Resolution	0.001N
Accuracy	+/-0.2%F.S. +/-1digit
Overload	Approx.150% F.S (It warns with warning buzzer and light flashing when the force is over 110% of capacity.)
Sampling rate	Max.2000 data / sec (2000Hz)
Test speed	120, 200, 300, 500, 1000, 1500mm/min (Switchable)
Stroke (length)	Travel of load cell: Approx. 400mm (Peel length: Approx.200mm)
Peel angle	165°-180° (Height and angle are adjustable.)
Max. sample width	Adhesion: 88mm (Film clip: 40mm, Sample clip: 95mm)
Max. sample thickness	Cover film: 0.5mm
Safety device	Emergency stop button, Overload prevention (Valid only when the power is ON) (*1)
Power	AC100 to 240V free input (*2)
Weight	Approx. 11kg
Operating environment	Temperature: 0 to 40°C Humidity: 20 to 80%RH
Accessories	Force Recorder Standard (graphing software), USB cable, Power cable, Film clip, Inspection certificate, Instruction manual

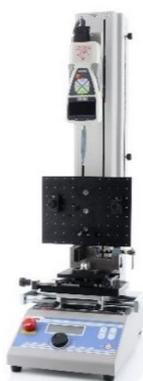
*1 It does not guarantee complete protection against overload.

*2 Please specify the voltage when you order. (Accessory varies depending on voltage.)

Specifications of supplied software	
Data transferring speed	Max. 2000 data / sec (2000Hz)
Recording data point	Max. 7.2 million
Graph	Graph overlaying function, Capture function, Graph scaling, Statistics output, Point marking
Graph recording	Trigger function
Edit	Comment, Add notes, Borderline function
Output	Printing (A4, letter size), CSV, Word, Excel, PDF
OS	Windows 7/8/8.1/10
Hardware	CPU: Pentium4 (1GHz or more) or more is recommended Memory: 2GB or more is recommended Hard disk (data storage area): 10GB or more is recommended
Plat form	NET Framework4.6 or later
Execute environment	Microsoft Internet Explorer 6 or later Windows installer 3.1 or later
Image size	Resolution 1024×768 pixel or more
Connection port	USB1.1, USB2.0 connecor * Operation in USB 3.0 has not been varified.

* Some old versions of Excel show data up to 65,531 only.

Related Products		
Alignment stage for solder joints strength test SJS-100N-L/S	QFP lead hook SJ-QFP-01	Chip shear jig SJ-TIP-01
		
Designed for fixing a PCB to test pull and shear strength of solder joints to adjust in the XY-axis direction finely and change the angle to 45 degrees or 90 degrees.	For 45-degree pull strength test of solder joints complying with the corresponding part of IEC and JIS standards	For 90-degree shear strength test of solder joints complying with the corresponding part of JIS standard Tip diameter: 0.25mm
Chip shear jig SJ-TIP-02	Chip shear jig SJ-TIP-03	Chip shear jig SJ-TIP-04
		
For 90-degree shear strength test of solder joints complying with the corresponding part of JIS standard Tip diameter: 0.5mm	For 90-degree shear strength test of solder joints complying with the corresponding part of IEC and JIS standards Tip diameter: 2mm	For 90-degree shear strength test of solder joints complying with the corresponding part of IEC and JIS standards Tip diameter: 4mm

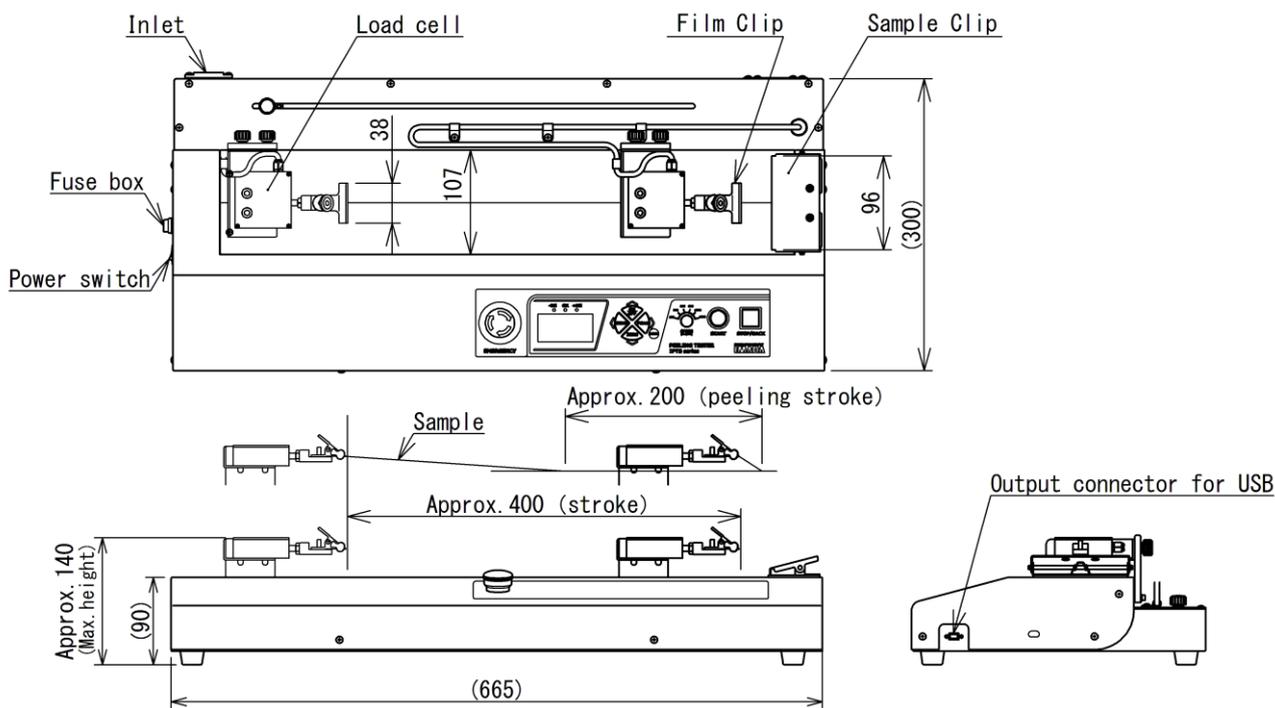
Related Test	
<p>Breaking tensile strength test of cover tape's film to check whether it meets the requirement of IEC 60286-3(2013) and JIS C0806-3(2014)</p>	<p>Pull strength test of solder joints complying with the corresponding part of IEC 62137-1-1 (JIS C 62137-1-1)</p>
	
<p>Example1 Code: 1G2005A</p> <p>Digital force gauge: ZTS-200N Motorized test stand: MX2-500N-L Optional attachment: GC-60 (2 pieces) Optional cable: CB-528</p>	<p>Example1 Code: 1S2008A</p> <p>Digital force gauge: ZTS-100N Motorized test stand: EMX-500N-L Optional attachment: SJ-QFP-01 Optional attachment: SJS-100N-L Optional cable: CB-528 Optional software: Force Recorder Standard</p>
<p>Shear strength test of solder joints complying with the corresponding part of JIS Z 3198-7 d</p>	<p>Shear strength test of solder joints complying with the corresponding part of IEC 62137-1-2 (JIS C 62137-1-2)</p>
	
<p>Example1 Code: 1S2009A</p> <p>Digital force gauge: ZTS-100N Motorized test stand: MX2-500N-L-V90 Optional attachment: SJ-TIP-02 Optional attachment: SJS-100N-L Optional cable: CB-528 Optional software: Force Recorder Standard</p>	<p>Example1 Code: 1S2010A</p> <p>Digital force gauge: ZTS-100N Motorized test stand: EMX-500N Optional attachment: SJ-TIP-03 Optional attachment: SJS-100N-S Optional cable: CB-528 Optional software: Force Recorder Standard</p>

* Refer to the specification of each product for details.

* Product configuration varies depending on the shape and characteristic of the sample, and measurement conditions.

* The recommended capacity of force gauge varies depending on the expected force to be loaded.

[IPTS-5N Dimensions]



Unit: mm

[Cautions]

- Specifications are subject to change without prior notice.
- This product is designed for force testing only. Do not use it for any other purposes.
- Some samples may not be suitable to grip with this product.
- Do not copy and use this content without authorization.
- Some samples are not suitable due to the materials of the sample and measuring conditions.

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Visit our website for more information on wide product specifications, measurement applications and videos.