

Surface Coating Pull-Off Test Fixture TH-1000N / TH-5000N

- Measures adhesion strength of the coating by bonding a test dolly on coated surface and pulling off
- Performs testing according to the corresponding part of ISO 4624 and JIS K 5600-5-7



TH-1000N-20






TH-5000N-20



TH-5000N-20 Testing Image

Standards	<ul style="list-style-type: none">- JIS K 5600-5-7 [Testing methods for paints - Part 5: Mechanical property of film - Section 7: Adhesion test (Pull-off methods)] (corresponding part only)- ISO 4624 [Paints and varnishes - Pull-off test for adhesion] (corresponding part only)* See [Specifications] on page 2 for the published year of the standards
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Measuring Procedures		
Bond the dolly on the surface of the testing sample.	Fix the sample with the bottom plate.	Attach the dolly with the pin and start testing.
		




Specifications				
Model		TH-1000N-7	TH-1000N-20	TH-5000N-20
Upper Part	Capacity	1000N		5000N
	Dolly Surface	Round - dia. 7mm	Round - dia. 20mm	
	Weight *1	Approx. 40g	Approx. 90g	Approx. 195g
	Mounting Screw	M6		M10
Bottom Plate	Center Hole	Dia. 30mm		
Dimensions		See [Dimensions]		
Sample Size		Smaller than 50 x 100 mm		
Accessories		Upper Part and Bottom Plate, Dolly (10pcs)	Upper Part and Bottom Plate, Dolly (5 pcs)	
Standards *2		Part of ISO 4624(2016) and JIS K 5600-5-7(2014)	Part of ISO 4624(1978)/(2016) and JIS K 5600-5-7(1999)/(2014)	

*1 Weight of the attachment is also applied as a load on the force gauge. Consider it when selecting the capacity of a force gauge.


*2 The published year of conforming standards varies depending on the model.

* Adhesive is not included (Cyanoacrylate, two-component solventless epoxide and peroxide- catalyzed polyester adhesives have been found suitable in most cases).

[Spare Parts] Spare dollies are available for replacement.

Model	Included Parts	Images		
THC6-7	Dolly for TH-1000N-7 (10 pcs) (Mounting Screw M6) Material: Stainless Steel			
THC6-20	Dolly for TH-1000N-20 (5 pcs) (Mounting Screw M6) Material: Stainless Steel			
THC10-20	Dolly for TH-5000N-20 (5 pcs) (Mounting Screw M10) Material: Stainless Steel			
		THC6-7	THC6-20	THC10-20

Examples of Product Configuration TH-1000N-7	
Example 1	Code: 1T2003A
Testing up to 1000N according to a part of ISO 4624(2016) and JIS K 5600-5-7(2014)	
Digital Force Gauge: ZTS-1000N Motorized Test Stand: MX2-1000N-V75 Optional Attachment: TH-1000N-7 Optional Attachment: UJ6-1000N Optional Cable: CB-528 Optional Software: Force Recorder Standard *1	
Examples of Product Configuration TH-1000N-20	
Example 1	Code: 1T2004A
Testing up to 1000N according to a part of ISO 4624 (1978)/(2016) and JIS K 5600-5-7(1999)/(2014)	
Digital Force Gauge: ZTS-1000N Motorized Test Stand: MX2-1000N-V75 Optional Attachment: TH-1000N-20 Optional Attachment: UJ6-1000N Optional Cable: CB-528 Optional Software: Force Recorder Standard *1	
Examples of Product Configuration TH-5000N-20	
Example 1	Code: 1T2005A
Testing up to 5000N according to a part of ISO 4624 (1978)/(2016) and JIS K 5600-5-7(1999)(2014)	
Digital Force Gauge: ZTS-5000N Motorized Test Stand: MX2-5000N Optional Attachment: TH-5000N-20 Optional Attachment: UJ10-5000N Optional Cable: CB-528 Optional Software: Force Recorder Standard *1	



TH-1000N-7 Example 1 Image






TH-1000N-7 Example 1 Image

* 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.

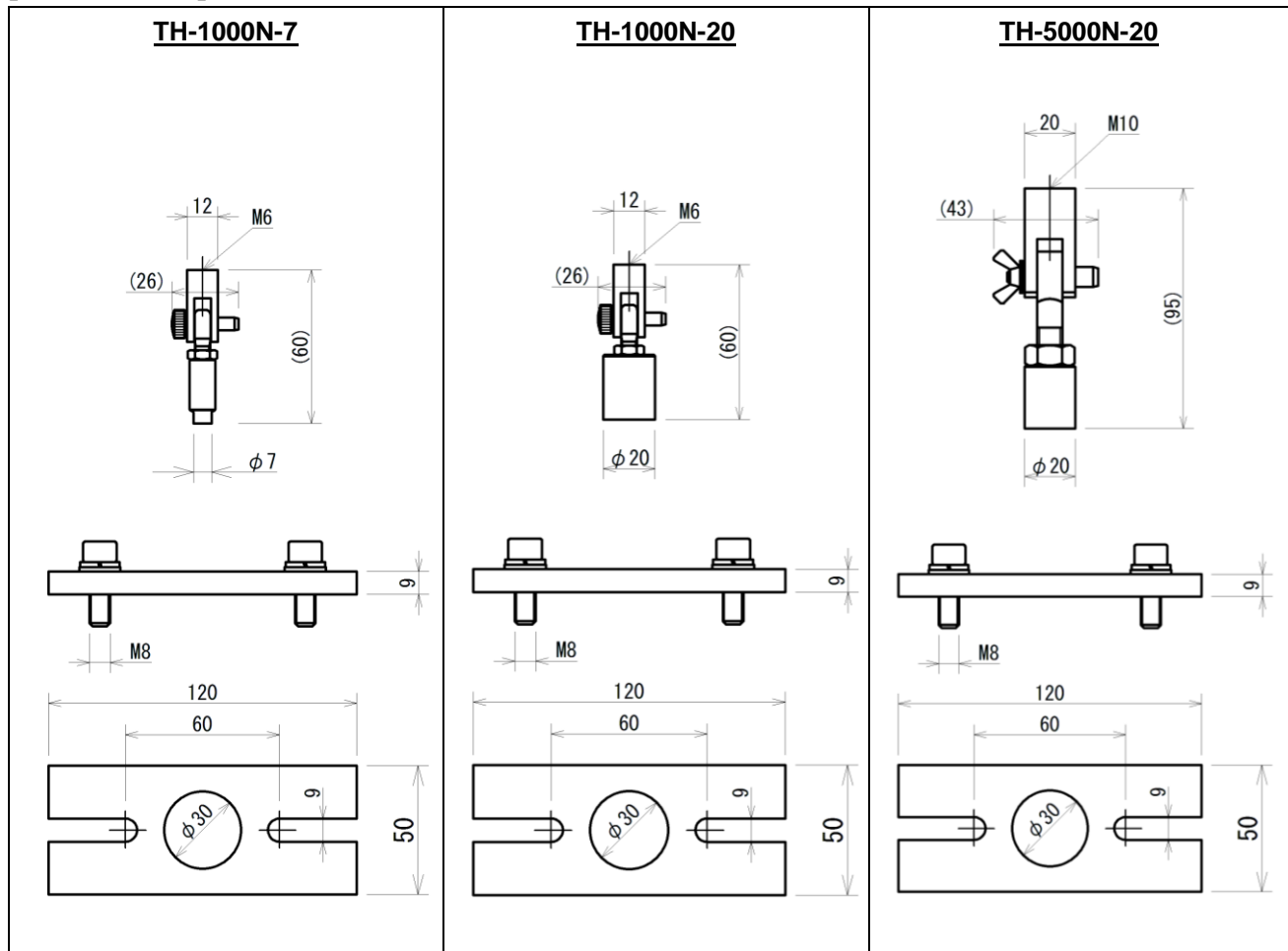
*1 Graphing software is required to check whether the increased rate of tensile force and the time required for breaking are within the specified range in the standard.

Mountable Force Gauges for TH-1000N		
DST/DSV series	ZTS/ZTA series	FB/PS/PSM series
Digital force gauge with excellent cost performance capable to manage data with PC.	Digital force gauge with high precision, featuring high sampling rate and a variety of useful functions.	Mechanical force gauge for easy handling.
		
Mountable Force Gauges for TH-5000N		
High Capacity ZTS/ZTA series	PSH series	
Digital force gauge with high precision, featuring high sampling rate and a variety of useful functions.	Mechanical force gauge for easy handling.	
		

* Ensure to select a force gauge with the same mounting screw as the upper part's.

Related Products		
90 Degree Peel Test Fixture P90-200N	180 Degree Peel Test Fixture P180-200N	High Speed Peeling Tester IPTS-20N/50N
Ideal for 90-degree peel testing by keeping the peeling angle at 90 degrees for measuring peel strength of samples such as adhesive tape up to 200N.	Enables to keep the peel angle at 180-degree and measure the peel strength of samples such as adhesive tape up to 200N.	Specialized for 180-degree peel testing with high performance and a wide range of speed up to 1500mm/min. Conforms a part of JIS.
		
Universal Joint UJ6-1000N/UJ10-5000N		
An optional attachment to prevent unbalanced load during measurement.		
		

[Dimensions]



Unit: mm

[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- A force gauge (sold separately) is required to use this product.
- Some samples may not be suitable to measure with this product.

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