

Small Multi Test Stand MS series

Small, lightweight, and portable. Ideal for mounting on equipment.
Fine adjustment of a force gauge's position by knob operation.
MSL-50N : Ideal for force-displacement measurement.

MS series Model	
For force measurement	MSF-50N
Force-displacement measurement	MSL-50N

Force-Displacement testing
Portable test stand for force-displacement measurement.
*There is a product which include digital force gauge and software.
Model: FSA-MSL series



Test stand weight: only 1.2kg
Small, lightweight, and portable.



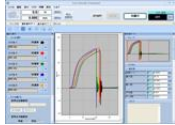



It moves by 18mm by a complete turn.
Fine adjustment of a force gauge's position. You can move a force gauge up/down by 80mm at maximum.

*The force gauge is not included.

Ideal for mounting on equipment	Designed to suit different measurement environment
<p>Screw holes</p>	<p>Can be fixed differently</p> <p>Table</p> <p>You can move a mounted force gauge over the length of MS series test stand.</p>
<p>It has M4 screw holes to fix it on your equipment. Ideal for measurement obliquely, or big sample testing, and more.</p>	<p>Table can be removed or fixed differently, so the testing method would be various to fit your measurement conditions.</p>

* Dimensions are in 4th page.

[Application examples: It can be used for various measurement purposes and environment]


Purpose	Measurement environment	
	On Tables	In unstable places
Force peak measurement	 <p>Portable. Easy operation.</p>	 <p>Ideal for measurement of switches on walls or ceilings with optional handles (MS-01)*.</p>
Force-displacement analysis	  <p>Portable force-displacement graphing / analyzing system.</p>	 <p>Can be fixed on equipment or tripods. (To fix it on your tripods, optional accessory MS-02 is needed. * We do not sell tripods.)</p>
 <p>*Data can be saved into a USB flash drive. ZTA series force gauge (*1) can transfer measured data into USB flash drive. Combining MS series with ZTA series, you can save measured data (100times / sec) as Excel CSV format in USB flash drive. You can also make a graph of the saved date with Excel functions on PC. << ZTA series force gauge (*1) Sold separately</p>		

* To maintain the measurement accuracy, firmly press the test stand vertically against the wall or ceiling while turning the knob.


Specifications		
Model	MSF-50N	MSL-50N
Features	Standard	FA option (*1)
Capacity	50 N	
Stroke (*2)	Approx.44mm at maximum	
Travel of a mounted gauge	Manual: Knob	
Travel	18mm/1 complete turn	
Size	Approx.W110 x D81 x H204mm	
Weight	Approx.1.2kg	
Accessories	Attachment mounting plate, screws, L-wrench, instruction manual	

*1 It is included displacement scale. You can measure force-displacement using with ZTA series.

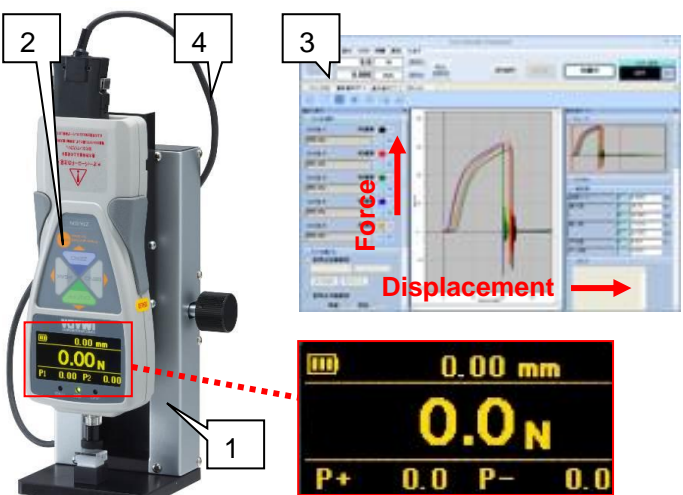
*2 The maximum stroke means the distance between the test stand table and the thread of the ZT series.

Mountable Force Gauges for MSF-50N		
DST/DSV series	ZTS series	ZTA series
Simple digital force gauge	High repeatability with various functions	High repeatability with various functions and direct USB memory connection
		

* Please select below 50N capacity of digital force gauges.



Mountable Force Gauges for MSL-50N
ZTA series
High repeatability with various functions and direct USB memory connection


* Please select below 50N capacity of digital force gauges.

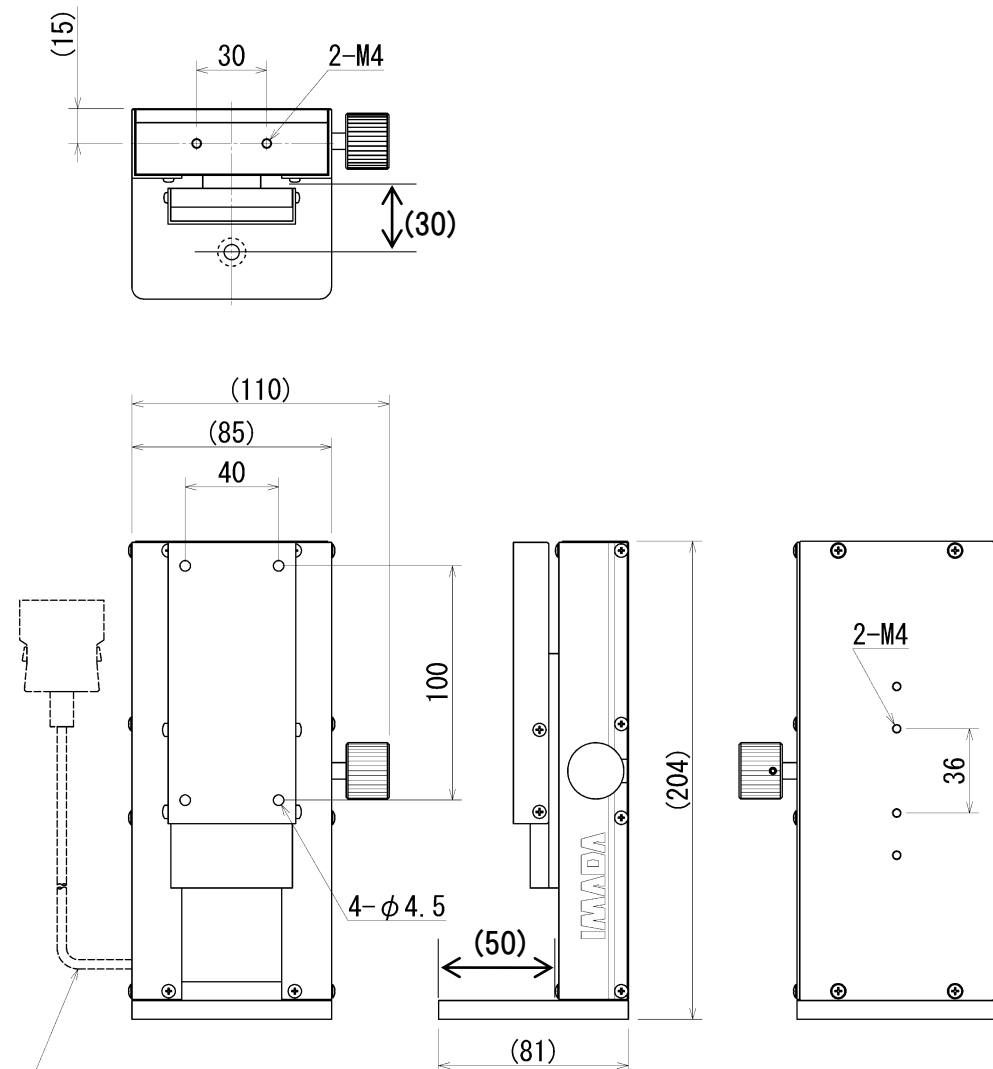
Force-displacement measuring unit FSA-MSL series : Characteristics	
<p>Measuring unit to draw force-displacement curve easily Ideal for switch feeling testing or material testing such as rubber and more.</p>	
	<p>Model:FSA-MSL-__N * You can select force range from 2N(200gf), 5N(500gf), 20N (2kgf), 50N(5kgf) to fit your needs.</p> <p>Unit details 1. Test stand with a linear scale 2. ZTA series digital force gauge 3. Force-displacement graphing software Force Recorder Professional 4. Cable Please refer to each specification for further information.</p>

* Please refer to FSA series specifications for further information of FSA-MSL series.

[Option]

Handle MS-01	Screw diameter conversion adapter MS-02
	
<p>Fixed on the bottom of MS series.to make measurement more easily and stably.</p>	<p>Used to fix MS series on tripods (*). *We do not sell tripods.</p>

[Dimensions]



The displacement meter and the cable is included in only FSA-MSL series.

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.
- Do not use this product in the environments including fierce temperature changes, high temperature, high humidity, near water, dusty place

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