

## 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.  
FSA-MSL series: Ideal for force-displacement measurement.

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

- Force-Displacement testing  
Portable force-displacement tester.



- 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.

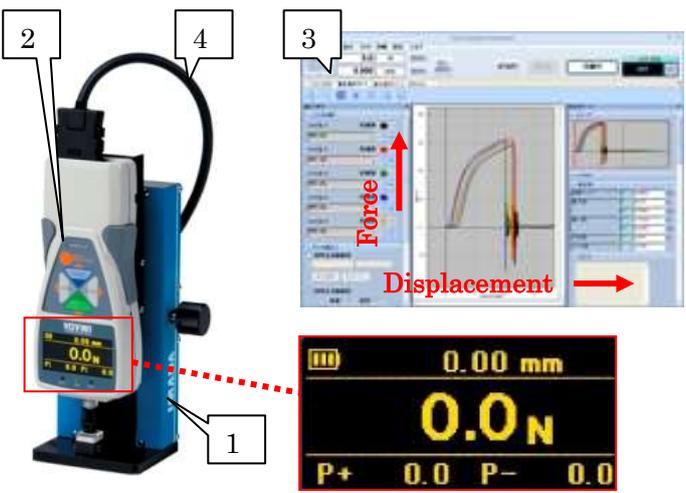
Ideal for mounting on equipment	Designed to suit different measurement environment
<p>It has M4 screw holes to fix it on your equipment. Ideal for measurement obliquely, or big sample testing, and more.</p>	<p><b>Table</b> can be removed or fixed differently, so the testing method would be various to fit your measurement conditions.</p>

\* Dimensions are in 4<sup>th</sup> 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><b>*Data can be saved into a USB flash drive.</b> 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. &lt;&lt; ZTA series force gauge (*1) Sold separately</p>		

[Force-displacement measuring unit FSA-MSL series]

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>1. Test stand with a linear scale 2. ZTA series digital force gauge 3. Force-displacement graphing software Force Recorder Professional 4. Cable</p>	<p><b>Model:FSA-MSL-__N</b> * You can select force range from 2N(200gf), 5N(500gf), 20N (2kgf), 50N(5kgf) to fit your needs.</p> <p>Please refer to each specifications for further information.</p>

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

Handle	Screw diameter conversion adapter
MS-01	MS-02
	
Fixed on the bottom of MS series.to make measurement more easily and stably.	Used to fix MS series on tripods (*).

\*We do not sell tripods.

[Related products]

Standard digital force gauge DS2 series	High performance digital force gauge ZTA series	Urethane jig for compression test UR series
		
Ideal for measuring force peak values. Simple and affordable model.	High sensitivity: provides accurate results for even quick movement testing. Measured data can be saved in USB flash drive.	Ideal for switch feeling testing etc. since it is close to the sense of operation by human.

It would be a pleasure to provide advice to select the best products or testing system for you. Please do not hesitate to contact us or our distributor in your country.

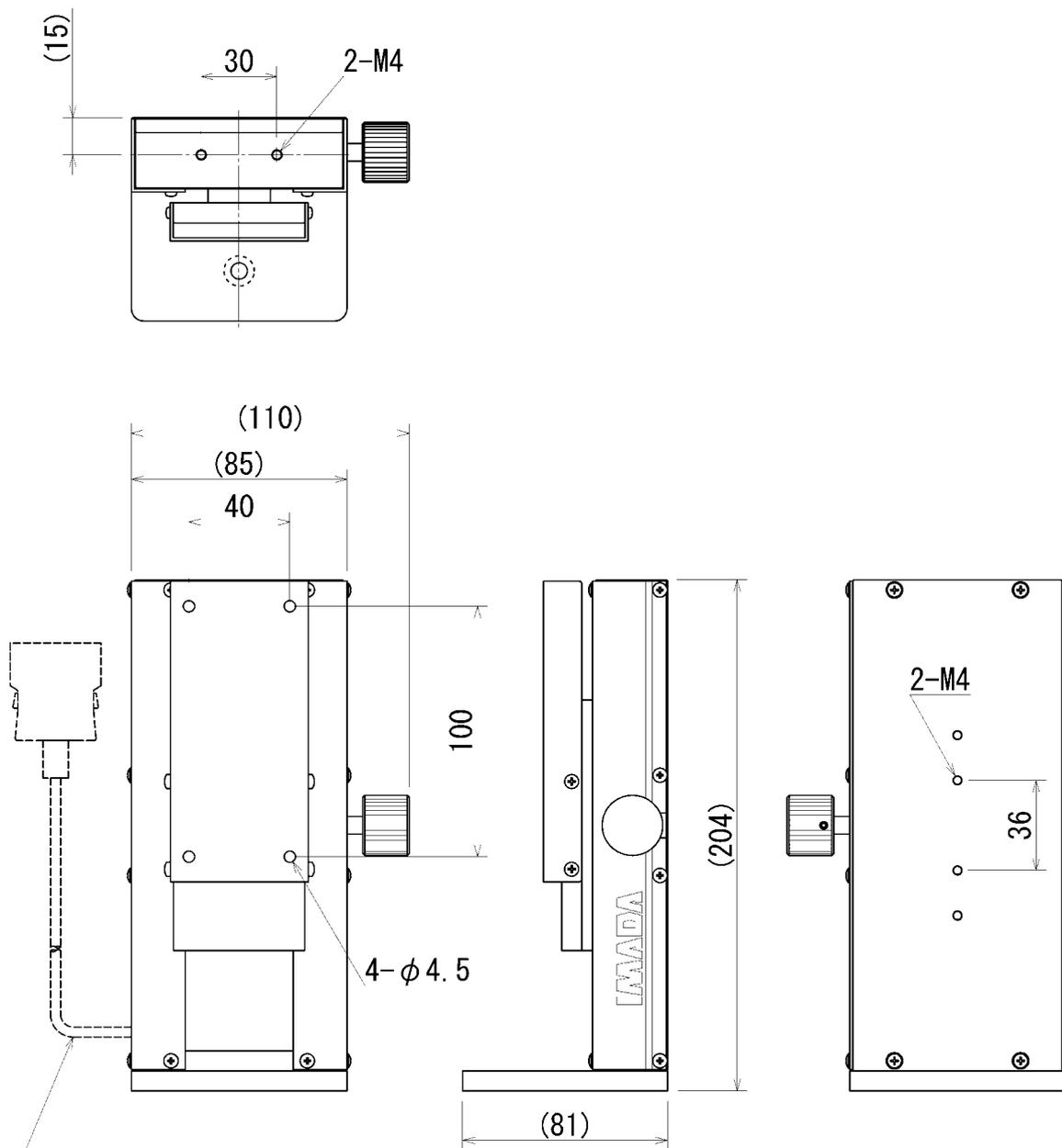
[Specifications]

<b>Model</b>	<b>Force measurement</b>	MSF-50N
	<b>Force-displacement measurement</b>	FSA-MSL-__N>(*1)(*2)
<b>Capacity</b>		50 N
<b>Stroke</b>		Approx. 80 mm at maximum
<b>Travel of a mounted gauge</b>		Manual; Knob
<b>Travel</b>		18mm / 1 complete turn
<b>Size</b>		H204*W109.4 *D72mm
<b>Weight</b>		Approx. 1.2kg
<b>Accessory</b>		Attachment mounting plate, screws
<b>The gauges that can be combined *</b>		MSF-50N      Digital force gauge DS2, ZTS, ZTA series
		FSA-MSL-__N      Digital force gauge ZTA series

\* The range must be lower than 50N.

\*1 \_\_N; You can select range from 2N(200gf), 5N(500gf), 20N(2kgf), 50N(5kgf).

\*2 Please refer to the dedicated specifications of FSA series for further information.



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

[Cautions]

- The contents may be changed without previous notice.
- All of products are designed for measurement purpose only.
- Force gauges are not included but necessary to carry out testing.
- Do not copy and use this content without authority.