

# Manual Test Stands

They provide constant test angles, offering higher repeatability than measurement by hand.



Combining a test stand with a force gauge and attachments, you can create a testing machine to meet your testing needs.

## Cloth Button Pull Off Test



## Ball Hardness Test



## How to Use Manual Test Stand

(Using Example: SVL-1000N)



Mount a force gauge on the test stand.



Mount attachments on the force gauge and the test stand.



Set a sample



Pull down the lever/ Turn the handle.

As options, we can extend its stroke or mount a length scale. The detail is on Page 33.

## Simple Type

# SVL-1000N/SVH-1000N

◎The lever type improves the measuring efficiency.  
The handle type realizes stable measurement.

### ■Specification

Lists	SVL-1000N(Lever type)	SVH-1000N(Handle type)
Capacity	1000N	1000N
Maximum Sample Height(※1)	Approx.225mm	Approx.225mm
Maximum Stroke※A	60mm	60mm
Feed Amount	60 mm / 170 degree turn of the lever	3mm/1 turn
Weight	Approx. 7.3kg	Approx. 7.7kg
Size	Approx.W200xD280xH410mm	Approx.W200xD280xH410mm

※A Maximum stroke means maximum traveling distance of a force gauge.

※B GF-1/2: These are necessary adapters for mounting a chuck fixture on the tables of the stand. (Separately sold)



## Long Stroke Type

# HV series

◎HV series have a long stroke, ideal for testing extensible or large specimens.

◎They are operated by a handle.

### ■Specification

Lists	HV-500NII	HV-1000N	HV-3000N
Capacity	500N	1000N	3000N
Maximum Sample Height(※1)	Approx.240mm	Approx.375mm	Approx.415mm
Feed Amount	2mm/1 turn	1.2mm/1 turn	0.6mm/1 turn
Weight	Approx.10kg	Approx.18kg	Approx.24kg
Size	Approx.W327xD309xH597.5mm	Approx.W305xD275xH730mm	Approx.W355xD310xH744mm



**Note:** ◎A force gauge is separately sold.◎Actual measuring capacity depends on the force gauge's capacity. However, when the test stand's capacity is less than the force gauge's capacity, you can measure force up to the test stand's capacity.(※1)The maximum height or length means the distance between the test stand table and the thread of the force gauge ZT series general type(1000N or less)at the highest position of the test stand. The distance does not include attachments. The distance of HV-3000N or SH-3000N is in case of mounting ZT series high capacity type.

## Low Capacity or Small Type

◎This type is ideal for measurement in capacity up to 50N. ◎You can move a force gauge at light feed.

# FCA-50N

◎You can decide a travel distance to move a force gauge, and measure the force value to the distance.

### ■Specifications

Model	FCA-50N
Capacity	50N
Distance	0~45mm (Adjustable with the limit knob)
Measuring Space	50~80mm (*1)
Weight	Approx. 3kg
Size	Approx.W75xH296xD178mm
Compatible force gauge	ZTS ZTA DST DSV (*2)

※1 The measuring space means the distance between the test stand table and the thread of a force gauge. The distance depends on where you put the force gauge.

※2 You cannot combine high capacity model force gauges with this stand.

※We also offer an food testing unit including this FCA-50N. For further information, please see "Catalog for Torque testers and Food testers."

# KV-50N

◎It is a desktop type.

◎It can move a force gauge at light feed (1.0mm/1 turn).

### ■Specification

Lists	KV-50N
Capacity	50N
Maximum Sample Height(※1)	Approx.63mm
Feed Amount	1.0mm/1 turn
Weight	Approx.2kg
Size	Approx.W140xD180xH220mm

# MS series

◎Various measurements are possible by the different installing ways.



You can combine this stand with an optional handle or your tripod to expand the range of measuring opportunity.

※You need an optional adaptor (sold separately) to combine it with a tripod.  
※We do not sell any tripods.

### ■Specification

Lists	MSF-50N	MSL-50N
Type	Standard	FA version(Page33)
Capacity	50N	
Maximum Sample Height(※1)	Approx.44mm	
Feed Amount	18mm/1 turn	
Weight	Approx.1.2kg	
Size	Approx.W110xD81xH204mm	

## Horizontal Type

# SH series

◎Horizontal type: You can set sample easily.

### ■Specification

Lists	SH-1000N	SH-3000N
Capacity	1000N	3000N
Maximum Sample Length(※1)	Approx.250mm	Approx.355mm
Feed Amount	1.2mm/1 turn	0.6mm/1 turn
Weight	Approx.15kg	Approx.22kg
Size	Approx.W560.5xD265xH219.5mm	Approx.W696.5xD285xH225mm



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Force-Displacement Analysis Unit  
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MSF-50N



**Option**  
●Length Scale  
Please refer to Page 33

SH-1000N