

What is Unit "N"?

The "N" is a force unit called "Newton." $<1\text{kgf}=9.80665\text{N}>$
 In Japan, Measurement Act established in 1993 requires you to use only Newton for force measurement.
 Thus, in Japan our gauges indicate N.
 For outside of Japan, we offer international models providing N/kgf/lbf. To be specific, as for digital force gauges you can switch units (N/kgf/lbf), and as for mechanical force gauges you have to select one from the 3 units before purchase.

For your information, in Japan the unit only in the table below can be used according to Measurement Act.

Excerpt of "Measurement Units pertaining to the International System of Units" (Ministry of Economy, Trade and Industry)

Quantity of the state of physical phenomena	Measurement unit
Force	Newton
Moment of force	Newton-meter
Pressure	Pascal or Newton per square meter bar
Stress	Pascal or Newton per square meter
Viscosity	Pascal second or Newton second per square meter

Reduced value for conventional force unit $1\text{kgf}=9.80665\text{N}$

What is the best way to choose the most suitable range of a force gauge / a load cell?

⚠ Capacity in specifications means the maximum force that can be applied to a force gauge / a load cell. Force gauges or load cells would be broken if you applied force over their capacity. Therefore, we recommend that you choose the force gauge whose capacity is a little larger than expected force in your testing. Please utilize the information below to prolong gauges' lives.

Shock or Breaking Test : When Measuring Rapid Force Change

→ Please choose the force gauge whose capacity is 200% of expected force in your testing.

Ex) Expected force: 10N, Measuring instrument: Digital force gauge ZTS → ZTS-20N is recommended.
 (①) Double the expected force (10N) → 20N, (②) Choose the ZTS whose capacity is 20N → ZTS-20N

Elongation Test : When Measuring Slow Force Change

→ Please choose the force gauge whose capacity is 150% of expected force in your testing.

Ex) Expected force: 30N, Measuring instrument: Digital force gauge ZTS series → ZTS-50N is recommended.
 (①) Increase expected force (30N) by half → 45N, (②) Choose the ZTS whose capacity is 45N
 → We do not offer ZTS-45N, then ZTS-50N is the nearest one.)

What Is "F.S." for Accuracy, for example $\pm 0.2\%$ F.S.?

"F.S." is abbreviation of "Full Scale," and it means the capacity.

Ex) ZTS-50N offers $\pm 0.2\%$ F.S. accuracy, and has 50N capacity.

→ The error is... $50\text{N} \times \pm 0.2\% = \pm 0.1\text{N}$

→ When the measured value is 30N using ZTS-50N, guaranteed result is... $30\text{N} \pm 0.1\text{N} = 29.9 \text{ to } 30.1\text{N}$

Key Point of Maintenance of Measuring Instrument

Measuring instruments should be calibrated periodically. Calibrating means checking if they maintain initial accuracy or not. All of the measuring instruments including force gauges reduce their accuracy slightly day by day, therefore, they should be calibrated, and adjusted as required to conduct precise measurement continuously.

IMADA offers calibration services, so you can keep using our force gauges for long after purchase at ease. Besides, our calibration center is certified with ISO/IEC17025:2017, therefore, we offer high quality of calibration service if required.
 ※ Some products cannot be calibrated for some reasons.

Test Stands

Test Stands Improve Repeatability.

They provide constant test speed and apply load straight, reducing the variation from a person to a person.

A force gauge can be used by hand, and also it can be used with a test stand for greater accuracy. Combine a test stand with a force gauge and attachments to create a force testing machine, which offers a significant advantage over handheld use in precision.

Motorized Test Stands

They provide constant test speed and apply force straight, offering high repeatability.

Simple MX (Vertical)/MH (Horizontal)

Capacity:
 (MX) 500N~1000N
 (MH) 1000N

The Simplest Type

- For simple compression/tension tests

Measuring speed can be changed with its dial, however, the setting speed is not able to be seen in display. MX2/MH2 or EMX can digital the speed on its monitor.

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Standard MX2 (Vertical)/MH2 (Horizontal)

Capacity:
 (MX2) 500N~5000N
 (MH2) 500N~2500N

User Friendly and High Functionality

- Digitally set testing speed and see it on its monitor.
- The equipped monitor indicates measuring conditions which can be easily set.
- MX2/MH2 include Timer and Counter function which enable you to conduct durability tests and repeat tests.

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High Performance EMX

Capacity: 500~1000N

Advanced type of MX2 with several features below

- It provides a wide range of testing speed (0.5~600mm/min) and travel distance setting, covering a wide variety of testing conditions.
- It has highest rigidity, offering great precision.
- 5 types of measuring pattern (speed/repeat frequency etc.) can be stored.

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※ Actual measuring capacities are depending on the force gauge capacities.

However, measurements are depending on test stand capacities when the test stand capacity is less than the force gauge capacity.

On our website, you can see a wide range of force testing applications, and download a specification sheet of each product. Please feel free to contact us.

IMADA <https://www.forcegauge.net/en/>

Search

Manual Test Stands

With a manual test stand, force can be applied straight, offering higher repeatability than measurement by hand.

Simple

SVL-1000N

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Capacity: 1000N

- The simplest test stand
- The lever improves measuring efficiency.

SVH-1000N

To Page 32

Capacity: 1000N

- The simplest test stand
- The handle realizes stable measurement.

Low Capacity

FCA-50N

To Page 33

Capacity: 50N

- Simple Lever Test Stand can set travel distance.

KV-50N

To Page 33

Capacity: 50N

- Ideal for small force measurement.

MSF-50N

To Page 33

Capacity: 50N

- Varieties of measurements can be realized by the different installing ways.

Long Stroke

HV

To Page 32

Capacity: 500N~3000N

- Ideal for stretching or large sample measurement.

SH

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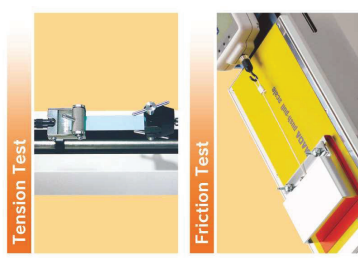
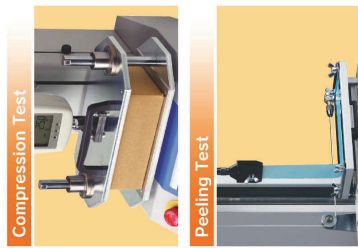
Capacity: 1000N~3000N

- A sample can be set very easily.

Horizontal

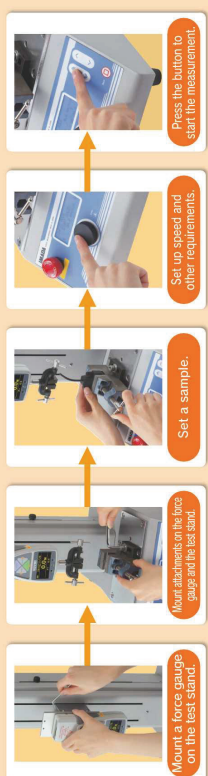
They provide constant test speed and apply force straight. They realize the high-repeatable measurement.

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



How to Use Motorized Test Stand

(Using Example: MX2 series)



As options, we can extend stroke, change speed range, and more to meet your measurement needs. Some models can equip a liner scale (FA version) to measure / analyze the relationships of force and displacement. The details are on Page 34.

Common overview of Motorized Test Stand (Compatible Test Stand : MX2 series, MH2 series, EMX series)

Adjusting Speed ※ 1

Testing speed is easily adjustable with the dial.

Setting Resolution:

UNIT
0.5mm/min
5mm/min
10-20mm/min
20-100mm/min
100-300mm/min

※Adjustable speed types: Start/Measuring/Return

Other Functions

In CYCLEMODE, you can set the reciprocating frequency and pausing time.

Counter (the reciprocating frequency):Max. 65535 times

Timer (pausing time):Max. 99 min 59 sec 9 (by 0.1 sec)

Three Measuring Modes

Three Testing Modes are available:

- **MANUAL MODE:** it moves a force gauge at the set speed while Up/Down or Left/Right button pressed.
- **JOG MOVE:** it moves a force gauge at light feeds (approx. 0.05mm/1 turn) by turning the dial.
- **CYCLE MODE:** it reciprocate a force gauge between stroke-limit knobs.

Versatile Functions with Force Gauge

Versatile functions are available with the Force Gauge (ZT Series) and the CB series cables.

- **Overload Prevention:** A test stand stops when a force gauge senses too much force over its capacity.
- **Force Control:** A test stand stops when a force gauge senses a pre-set force limit. Or it can automatically regulate the load so as to be in a pre-set range in a pre-set time period.
- **Measurement Speed Control:** A test stand can switch function between the Moving direction and the Measurement Speed.
- **Auto-Functions:** Auto-Zero, Reset of the Force Gauge and Auto-recording of the measured values reflected in the Software during the measurement.

Refer to the P.13 for details

※1. The speed ranges vary per product.

Standard Type

- Measuring speed can be set digitally.
- This type of stands have a monitor to show measuring conditions which enables you to set them easily.
- Durability test using its timer function and repeat test using its counter functions can be conducted.

MX2 series

- Option**
- Length Scale
 - FA version
 - Long Stroke
 - Extended Column (MX2-5000N only)
 - Speed Range Change
 - Output and Input External Signal
- Please refer to Page34.

Measure under the safe environment

Accessory

To Page 33

Connect with External Devices

Application examples of how cables are used

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Analyze Force-Displacement Relation

Force-Displacement Analysis Unit

To Page 49

Specification

Model	MX2-500N	MX2-1000N	MX2-2500N	MX2-5000N
Capacity	500N	1000N	2500N	5000N
Speed	10-300mm/min	10-300mm/min	10-300mm/min	10-300mm/min
Stroke	Approx. 255mm	Approx. 300mm	Approx. 320mm	Approx. 360mm
Weight	Approx. 6.5kg	Approx. 10.5kg	Approx. 14.5kg	Approx. 24.5kg
Size	475x180x245mm	475x180x245mm	475x180x245mm	475x180x245mm

MH2 series

● Horizontal Type

- Option**
- Length Scale
 - FA version
 - Speed Change
 - Output and Input External Signal
- Please refer to Page34.

Specification

Model	MH2-500N	MH2-2500N
Capacity	500N	2500N
Speed	10-300mm/min	10-300mm/min
Stroke	Approx. 245mm	Approx. 340mm
Weight	Approx. 14kg	Approx. 27kg
Size	Approx. W554xD220xH219mm	Approx. W660xD340xH261mm

Analyze Force-Displacement Relation

Force-Displacement Analysis Unit

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Connect with External Devices

Application examples for using cables

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setting screen

Easy setting with press-turn dial

setting screen

Easy setting with press-turn dial



setting screen

Easy setting with press-turn dial

setting screen

Easy setting with press-turn dial

Advanced Type EMX series

- Meets your various measuring requirements by wide speed range (0.5-600mm/min)
- Enables you to measure precisely with the highest rigidity
- Sets the travel distance digitally and unify measuring condition
- Improves measuring efficiency by storing up to 5 measuring patterns
- Allows communication with various external devices by equipped I/O connector
- Improves measuring accuracy and efficiency by CONTACT/BREAK DETECTION
- Makes it simple to set measuring conditions by Easy set-up mode



Specification	EMX-500N	EMX-1000N
Model	500N	1000N
Capacity	500N	1000N
Speed	0.5-600mm/min	0.5-600mm/min
Minimum Stroke length (mm)	Approx. 295mm	Approx. 320mm
Weight	Approx. 1.9kg	Approx. 2.3 kg
Size	Approx. W220xD380xH637mm	Approx. W280xD410xH643mm

Simple Type

- This type is the simplest.

MX series

- Speed/Length Meter
- Length Scale
- Long Stroke
- Speed Change

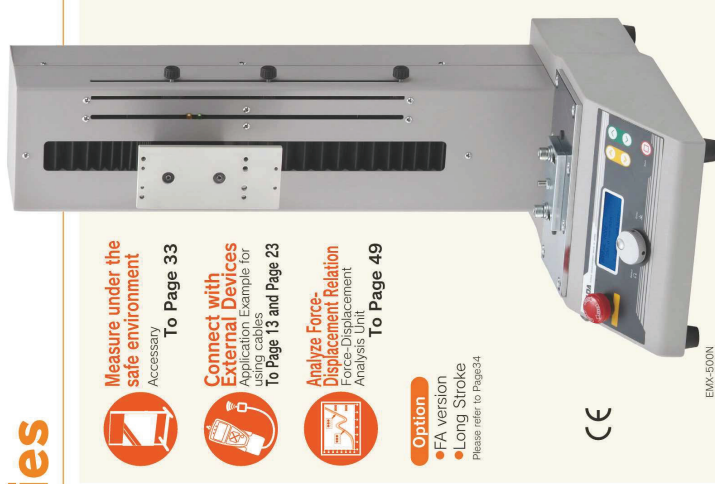
Please refer to Page 34



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Specification	MX-500N	MX-1000N
Model	500N	1000N
Capacity	500N	1000N
Speed	1.0-300mm/min	8-240mm/min
Minimum Stroke length (mm)	Approx. 235mm	Approx. 420mm
Weight	Approx. 1.9kg	Approx. 2.4kg
Size	Approx. W214xD428xH773mm	Approx. W263xD466xH903mm

Note: CA force gauge is separately sold. (CA) 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. (8.1) 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 MX2-2500/MX2-5000N or MH2-2500N is in the case of mounting ZT series high capacity type.



Accessory
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Connect with
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Example for
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Analyze Force-
Displacement Relation
Force-Displacement
Analysis Unit
To Page 49

- Option
- FA version
- Long Stroke

Please refer to Page 34



EM-500N

MH-1000N

- Horizontal Type



Please refer to Page 34

Specification	MH-1000N
Model	1000N
Capacity	1000N
Speed	6-180mm/min
Minimum Stroke length (mm)	Approx. 280mm
Weight	Approx. 1.4kg
Size	Approx. W700xD195xH210mm

Note: CA force gauge is separately sold. (CA) 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. (8.1) 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 MX2-2500/MX2-5000N or MH2-2500N is in the case of mounting ZT series high capacity type.

Manual Test Stands

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

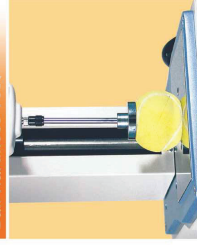


Combining a test stand with a force gauge and attachments, you can create a testing machine to meet your testing needs.

Cloth Button Pull Off Test



Ball Hardness Test



Mount a force gauge
on the test stand



Non attachments on the force
gauge and the test stand



Set a sample.



Pull down the lever/
turn the handle.

How to Use Manual Test Stand

(Using Example: SVL-1000N)

As options, we can extend its stroke or mount a length scale. The detail is on Page 34.

Simple Type

SVL-1000N/SVH-1000N

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

Specification

Model	SVL-1000N (Lever type)	SVH-1000N (Handle type)
Capacity	1000N	1000N
Minimum Stroke length (mm)	Approx. 265mm	Approx. 265mm
Maximum Stroke	60mm	60mm
Feed Amount	60 mm / 170 degree Lin of the lever	3mm / 1 turn
Weight	Approx. 7.5kg	Approx. 7.7kg
Size	Approx. W200xD280xH410mm	Approx. W200xD280xH410mm

※A Maximum stroke means maximum travelling distance of a force gauge.
※B GF-1/GF-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.

- Option
- Length Scale
- Long Stroke

(except HV-3000N)

Please refer to Page 34

Specification	HV-500NII	HV-1000N	HV-3000N
Model	500N	1000N	3000N
Capacity	500N	1000N	3000N
Minimum Stroke length (mm)	Approx. 240mm	Approx. 375mm	Approx. 415mm
Feed Amount	2mm / 1 turn	1.2mm / 1 turn	0.6mm / 1 turn
Weight	Approx. 1.0kg	Approx. 1.8kg	Approx. 2.4kg
Size	Approx. W370xD395xH575mm	Approx. W630xD795xH750mm	Approx. W850xD1077xH740mm

Note: CA force gauge is separately sold. (CA) 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. (8.1) 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 the case of mounting ZT series high capacity type.

Low Capacity or Small Type

FCA-50N



- Sets a travel distance to move a force gauge, and measures the force value to the distance.

FCA-50N

Model	FCA-50N
Capacity	0~45mm (Adjustable with the limit knob)
Measuring Space	50~90mm (ø1)
Weight	Approx. 1.2kg
Size	Approx. W175xH236xD176mm
Connectable force gauge	ZTS ZTA DST DSV (ø2)

※The measuring space means the distance between the stand table and the thread of a force gauge. The distance depends on where you put the force gauge.
※2 You can use the force gauge with the unit with which you use the force gauge.
※We also offer an food testing unit including this FCA-50N. For further information, please see "Catalog for Torque testers and Food testers."

Horizontal Type

SH series

- Horizontal type: Sets a sample easily.



SH-1000N

Model	SH-1000N	SH-3000N
Capacity	1000N	3000N
Measuring Space (ø1)	Approx. 250mm	Approx. 355mm
Feed Amount	1.2mm/1 turn	0.6mm/1 turn
Weight	Approx. 1.5kg	Approx. 2.2kg
Size	Approx. W560.5xH265xH219.5mm	Approx. W636.5xH265xH225mm

- Length Scale
- Please refer to Page 34

Accessories for Test Stand

OP-MX2EMX-IC
OP-MX250-IC



OP-MX2EMX-IC

Model	OP-MX2EMX-IC	OP-MX250-IC
Cover Material	PET	Polycarbonate
Weight	Approx. 9.1kg	Approx. 5.5kg
Size	Approx. W410xH319xH50mm	Approx. W375xH250xH30mm
Compatible Test Stand (ø1)	MX2-5000N	MX2-5000N

※1 -CN option and safety setting of MX2 series are required to activate interlock function. (-CN option is installed standardly for EMX series)

- It is a safety shield put in front of a test stand, protecting an operator from sample debris.



ST-SS

Model	KV-50N
Cover Material	Acrylic
Weight	Approx. 500g
Size	Approx. W406xH305xH620mm

- Specification

MS series

- This type is ideal for measurement in capacity up to 50N.
- A force gauge can be moved at light feed.



MSF-50N

- Various measurements are possible by the different installing ways.
 - Analyze Force-Displacement Relation
- Analysis Unit
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Model	FCA-50N	MSL-50N
Type	Standard	FA version (FA-53)
Capacity	50N	50N
Measuring Space (ø1)	Approx. 44mm	18mm/1 turn
Feed Amount	Approx. 1.2kg	Approx. 1.2kg
Weight	Approx. W110xH216xH204mm	

- Specifications

※We do not sell any tripod.

You can combine the stand with an optional handle or your input to expand the range of measuring opportunity. ※We do not sell any tripod.

Options for Test Stands

The options below can be added to expand functionality of test stands or improve measuring efficiency.

Options for The Manual and Motorized Test Stands

Length Scale (-S)	Long Stroke (-L,-2L)	Extended Column (-EXT)
It digitally indicates travel distance of a force gauge. (We recommend another option (FA version) below if you need to analyze the relations of force and displacement.)	We extend the stand's stroke. We extend the stand's column. The stand's stroke does Not change.	
Speed / Length Meter (-E)	FA version (-FA)	Output and Input External Signals (-CN)
It plays the measuring speed and travel distance of force gauges.	We build a linear scale into a test stand to output travel distance of a force gauge, and you can utilize it for analysis of force-displacement relations. For further information of force-displacement analysis unit, please see page 45.	We can equip a connector for external input and output. For example, you can connect a footswitch with the stand via the connector to operate it by the footswitch (like step on it to start measurement). Please contact us for further information.
Speed Range Change (-VOO)		
We can change the range of measuring speed. (The customizable range differs among models. Besides, some models could decrease their force capacity. Please contact us for further information.)		

Options Available for Motorized Test Stands

Model	MX-500N	MX-1000N	MX-500N	MX-1000N	MX2-500N	MX2-1000N	MX2-2500N	MX2-5000N	EMX-500N	EMX-1000N	MH-1000N	MH2-500N	MH2-2500N
Speed/Length Meter	-E	○	○	○	○	○	○	○	○	○	○	○	○
Length Scale	-S	○	○	○	○	○	○	○	○	○	○	○	○
FA Specification	-FA	○	○	○	○	○	○	○	○	○	○	○	○
Long Stroke (mm)	-L	○	○	○	○	○	○	○	○	○	○	○	○
Extended Column	-2L	○	○	○	○	○	○	○	○	○	○	○	○
O/I External Signals	-EXT	○	○	○	○	○	○	○	○	○	○	○	○
Speed Range Change (mm/min)	-V	○	○	○	○	○	○	○	○	○	○	○	○

※1 User mounted unit is available. ※2 It may decrease its capacity. ※3 The -2L option is incompatible with length scale (-S option). Additional charge for wooden packaging is required for shipping.
※4 The column is extended but the stroke remains the same. ※5 It is already installed as the standard function. ※6 Some models could decrease their force capacity. Please contact us for further information.

Examples of Model with Options

- When you want to extend the stroke of MX2-500N→Choose the option "Long Stroke (-L)" = MX2-500N-L
 - When you want to change the speed range of MX2-500N→Choose the option "Speed Range Change (-VOO)" = MX2-500N-V600
- ※In ●●, we put figure of speed. → Example) When the speed range changes into the fastest speed 20~600 mm/min
- The number is here

Options Available for Manual Test Stands

Model	SVL-1000N	SVH-1000N	HV-500N	HV-1000N	HV-3000N	KV-50N	MSF-50N	SH-1000N	SH-3000N
Length Scale	-S	○	○	○	○	○	○	○	○
Long Stroke (mm)	-L	○	○	○	○	○	○	○	○
Extended Column (mm)	-EXT	○	○	○	○	○	○	○	○

※1 It may decrease its capacity. ※2 We can extend the column length, but travel distance of force gauge does Not change.

Examples of Model with Options

- When you want to see the travel distance of a force gauge using SVH-1000N →Choose the option "Length Scale (-S)" = SVH-1000N-S

The Helpful Functions of Motorized Test Stand

The optional functions can be activated by connecting a force gauge ZTS/ZTA series to a motorized test stand via the suitable cable.

- ①The Overload Preventing Function
- ②Force Control Functions

For further information, see page 13

We provide made-to-order test stands to fit your needs.

Changing Test Speed Range / Extending Column Length

[This is recommended when you...]

- Test stretch samples.
- Compress (Tensile) long.
- ↑ We can extend column length of both horizontal and vertical test stands.
- Test speedily.
- Test slowly.
- ↑ We can change the range of measuring speed.



Testing Large Samples

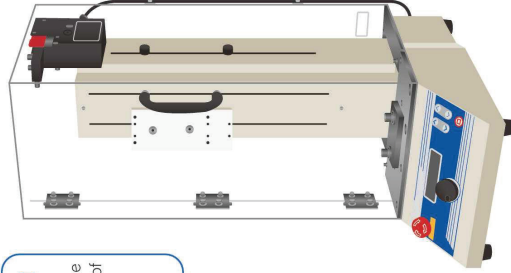
[This is recommended when you...]

- Measure a large sample since the test stand can be moved in the X-Y direction with the guide rail.
- It improves the measurement efficiency since a sample is not needed to move even when compressing (pulling) multiple points from one end to the other of wide surface.

The electromagnetic lock cover provides safety

[This is recommended when you...]

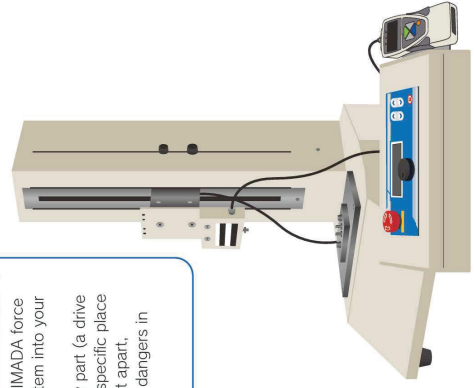
- Would like to stop the test stand completely before the door is unlocked, instead of unlocking the door at the same time as the stand stops.



Separating a Display Part from a Drive Part for Built-in

[This is recommended when you...]

- Incorporate IMADA force testing system into your equipment
- Fix a display part (a drive part) on a specific place
- Manipulate it apart, preventing dangers in testing.



Please feel free to contact us about made-to-order issues. We will provide the best solution for you.

Attachments

The fixtures mounting on a force gauge thread or a test stand table

Attachments are integral components of testing systems, designed for a wide variety of force testing applications for tension, compression, peeling, COF, and more.

■ The Attachment Types and How to Use

IMADA attachments are separated to 2 types generally.

1

Attachments to be mounted on a force gauge.



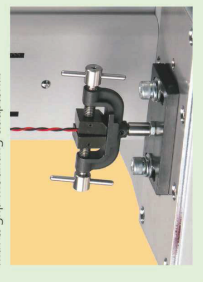
A force gauge's thread is M6 or M10 screw, and type 1 attachments are designed to fit into either screw. You can choose desired one from a wide range of attachments, and mount it on a force gauge's thread to complete a force tester.

2

Attachments to be mounted on a test stand table.



Type 1 can be mounted on a test stand with a grip mounting adapter.



※It is attached with test stands (except some models).

⚠ Weight of an attachment is applied as force to a force gauge, therefore, please choose an attachment whose weight is 10% or less of the force gauge's capacity.

⚠ Please contact us before purchase to choose the most appropriate attachment for your testing. Some samples cannot be tested appropriately due to their shapes or materials. We are pleased to help you choose the best attachment to meet your testing needs.

⚠ Some attachments are in accordance with Japanese Industrial Standard (JIS). A force gauge and a test stand are required for measurements complying with JIS. Please feel free to contact us for the details. When you need other standard such as ISO or ASTM, please contact us as well.

Accessory Attachments

The IMADA force gauges come with attachments below for basic compression/tension tests.

Standard Type

M6

(Accessory attachments for the force gauges whose capacities are 1000N or less)

Force gauges whose capacities are 100N or less come with aluminum made attachments (A-type). Steel made attachments (S-type) are included in force gauges whose capacities are from 200N to 1000N.

A-1/S-1/SR-1

A-2/S-2

A-3/S-3

A-4/S-4

A-5/S-5

A-6/S-6

A-7/S-7

A-8/S-8

A-9/S-9

A-10/S-10

A-11/S-11

A-12/S-12

A-13/S-13

A-14/S-14

A-15/S-15

A-16/S-16

A-17/S-17

A-18/S-18

High Capacity Type

M10

(Accessory attachments for the force gauges whose capacities are higher than or equal to 1000N)

B-1

B-2

B-3

B-4

B-5

B-6

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The number of attachments varies by models.

ZTS/ZTA-2500N/5000N: ①~⑧,

ZTS/ZTA-DPU-1000~5000N: ①~⑥, PSH: ①~⑧

On our website, you can see a wide range of force testing applications, and download a specification sheet of each product. Please feel free to contact us.

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