

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 the thread. You can choose 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.



The number of attachments varies by models.
ZTS/ZTA Basic model:①~⑧, ZTA/ZTS-DPU-2~500N:①~⑧,
DS2:①~⑥, PS/PSM:①~⑧, FB:①~⑥
For 1000N capacity, SR-1 is included instead of S-1.

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 service group telephone number: +81(0)532-33-3288

IMADA Search <http://www.forcegauge.net/en>

High Capacity Type

M10

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



The number of attachments varies by models.
ZTA/ZTS-2500N/5000N:①~⑧,
ZTA/ZTS-DPU-1000~5000N:①~⑧, PSH:①~⑧

Attachments for Compression Testing

We offer fixtures for a variety of compression testing such as a durability test, a bending test, a sticking test, and more.

Compression Test Fixture for Small Spots

PG-2/3/4/5

Ideal for compression and penetration tests of small samples.

PG-2

○Representative applications
Plastic injection components, Switch, LCD panel, Food, Sponge hardness test with PG-2.

Models	PG-2	PG-3	PG-4	PG-5
Capacity(N)	100	100	200	200
External diameter(mm)	Approx. φ2	Approx. φ3	Approx. φ4	Approx. φ5
Weight(g)	Approx.2	Approx.3	Approx.4	Approx.5
Mounting screw			M6	M6

Durability Test Fixture

PR-500N/2500N

Designed for durability tests for retort pouch, heat sealed packages, box and so on.

PR-2500N

○Representative applications
Retort pouch, Packing box, Food pack, Tube container, Cardboard box durability test with PR-2500N.

Models	PR-500N	PR-2500N
Capacity(N)	500	2500
Measurable size(mm)	W194XD120XH105	W200XD140XH105
Weight(g)	Force gauge side:Approx.900	Force gauge side:Approx.3100
Mounting screw	M6	M10

PR-2500N: In accordance with a part of JIS Z 0238(1998)

Sticking Test Fixture

TKS-20N/250N

Designed for sticking test of thin samples such as film.

TKS-250N

○Representative applications
Film, Metal foil, PET bottle, Cloth, Fiber material, Film sticking test with TKS-250N

Models	TKS-20N	TKS-250N
Capacity(N)	20	250
Pin diameter(mm)	Approx. φ1	Approx. φ1
Pin weight(g)	Approx.22.2(Pin+Pin vice)	Approx.1.6
Mounting screw		M6

In accordance with a part of JIS Z 1707(1998)

Compression Test Fixture

A-40/60, S-40/60

Ideal for crushing tests. Type A is made of aluminum and Type S is made of steel. Type A is for low capacity force gauges.

A-40

○Representative applications
Cushioning materials, Cushion, Tablet, Ball, Spring, Ball compression test with S-40.

Models	A-40	A-60	S-40	S-60
Capacity(N)	200	200	500	500
External diameter(mm)	φ40	φ60	φ40	φ60
Weight(g)	Approx.38	Approx.84	Approx.110	Approx.238
Mounting screw			M6	M6

PR-2500N: In accordance with a part of JIS Z 0238(1998)

Bending Test Fixture

GA-10N/5000N

Designed for 3 points bending tests for metals, glasses, and more.

GA-10N

○Representative applications
Metal board, Plastic board, Carbon, Wire net, Ply wood board, Ceramic, Metal material bending test with GA-10N.

Models	GA-10N	GA-5000N
Capacity(N)	500	5000
Weight(g)	Force gauge side:Approx.100	Force gauge side:Approx.120
Mounting screw	M6	M10

Compression Test Fixture

UR-8S/8M

Hemisphere shaped fixture made of urethane. It produces finger-touch.

UR-8S

○Representative applications
Switch, Electrical component, Touch panel, The switch tactile test with UR-8S.

Models	UR-8S	UR-8M
Capacity(N)	50	50
Weight(g)	Approx.5.4	Approx.5.2
Hardness	ShoreA50	ShoreA70
Mounting screw		M6

※ Please note the fixture does not react to capacitance touch panels.

For High Capacity[Disc type]

PC series

Ideal for high capacity compression/ breaking testing up to 5000N. They can contact a test sample closely due to a free joint design.

PC series

○Representative applications
PET bottle, Ball, Tablet, Plastic, Plastic Package, PET bottle compression strength test with PC-5060.

Models	PC-5040	PC-5060	PC-5100
Capacity(N)	5000	5000	5000
External diameter(mm)	φ40	φ60	φ100
Weight(g)	Approx.160	Approx.330	Approx.820
Mounting screw			M10

For High Capacity[Rectangle type]

SQ series

Ideal for high capacity compression/ breaking testing up to 5000N. They can contact a test sample closely due to a free joint design.

SQ series

○Representative applications
Tablet, Plastic, Plastic Package, Tablet strength test with PC-5060.

Models	SQ-5030	SQ-5075	SQ-5150
Capacity(N)		5000	
寸法(mm)	30X20	75X50	150X100
Weight(g)	Approx.65	Approx.500	Approx.1560
Mounting screw		M10	

For High Capacity[Spherical type]

SP series

Ideal for high capacity compression/ breaking testing up to 5000N.

SP series

○Representative applications
Cushioning materials

Models	SP-5010	SP-5020	SP-5030
Capacity(N)		5000	
External diameter(mm)	φ10	φ20	φ30
Weight(g)	Approx.26	Approx.55	Approx.135
Mounting screw		M10	

Attachments for Tensile Testing

We offer a wide range of fixtures and grips for tensile testing such as a tearing test, a breaking tension test, and more.

Film Grip FC series

Ideal for gripping thin samples such as film and the like. FC-21U/41U/21UQ has urethane gripping part (only one side), thus the grips can hold the sample tightly but gently enough to avoid breaking samples. FC-21UQ is lever type, easy to grip samples.

○Representative applications
Film Heat sealing Adhesive tape Magnetic card Substrate

Models	FC-21	FC-20	FC-40	FC-21U	FC-41U	FC-21UQ	
Capacity(N)	250	500	500	250	250	250	
Features	Light type	up to 500N	Wide type up to 500N	One side urethane	Wide grip one side urethane	One side urethane with a lever	
Aperture width(mm)	Approx.20	Approx.20	Approx.40	Approx.20	Approx.40	Approx.20	
Aperture opening width(mm)	Max.2	Max.2	Max.2	Max.2	Max.2	Max.0.2	
Weight(g)	Approx.25	Approx.73	Approx.125	Approx.40	Approx.70	Approx.50	
Mounting screw							M6

※We provide a film cutter (page 38)
 ※Fixed models(-F) are available, recommended when you attach it on a test stand since their attaching parts (mounting screws) are fixed.

Wire Clamp Grip CW-500N

The wedge type grip for wire/cable, designed to secure a sample easily and tightly.



○Representative applications
Cable Wire

Models	CW-500N
Capacity(N)	500
Aperture opening width(mm)	Max.5
Weight(g)	Approx.220
Mounting screw	M6

Small Grip SC-3/8

Ideal for gripping fine samples or measuring at narrow spaces.



○Representative applications
Electrical lead Copper foil

Models	SC-3	SC-8
Capacity(N)	100	150
Aperture opening width(mm)	Max.1	Max.1
Weight(g)	Approx.20	Approx.21
Mounting screw	M6	

Cam Grip GR-30/2000

Ideal for gripping thin and rectangle shaped samples. Easy steps to set a sample (1. Put through sample, 2. Pull its lever) improves measurement efficiency.



○Representative applications
Rubber Tape Film

Models	GR-30	GR-2000
Capacity(N)	500	2000
Aperture opening width(mm)	Max.2	Max.4
Measurable width(mm)	Max.30	Max.50
Weight(g)	Approx.180	Approx.870
Mounting screw	M6	M10

※We provide a film cutter (P38).

Wedge Grip KC series

A self-tightening grip for wire, cable and so on. Designed to grip samples very easily, improving measurement efficiency. (It is not suitable for tempered samples.)

○Representative applications
Wire Cable Optical fiber cable Plastic Piece of metal

Models	KC-100	KC-1001	KC-5000
Capacity(N)	500	1000	5000
Aperture opening width(mm)	Max.10	Max.2	Max.5
Weight(g)	Approx.330	Approx.95	Approx.565
Mounting screw	M6	M6	M10

※S-1 or SR-1 is required when mounting PGC-0510 or 0505 on a force gauge.
 ※PGC-AD6 is required when mounting PGC-0510 or 0505 on a test stand.

Pantograph Grip PGC series

A self-tightening grip designed to grip samples easily like a cloth pin. It can grip even deformable samples like rubber, resin, and so on.

○Representative applications
Film Rubber Wire Cable Nonwoven fabric Plastic

Models	PGC-0505	PGC-0510	PGC-2530
Capacity(N)	500	500	2500
Aperture opening width(mm)	Max.20	Max.15	Max.15
Weight(g)	Approx.170	Approx.110	Approx.750
Mounting screw	M10		

※S-1 or SR-1 is required when mounting PGC-0510 or 0505 on a force gauge.
 ※PGC-AD6 is required when mounting PGC-0510 or 0505 on a test stand.

Fine Point Chuck FP-50/51

Ideal for testing fine strings or threads. You can utilize it in measurement at narrow spaces.



○Representative applications
Textile Fur Soft wire

Models	FP-50	FP-51
Capacity(N)	100	50
Aperture opening width(mm)	Max.0.5	Max.0.5
Weight(g)	Approx.19	Approx.8
Mounting screw	M6	

Tape Grip GC-60/100

Ideal for testing elastic or deformable samples such as rubber, film, tape and so on. This grip holds a sample tightly since the sample is wound around the grip.



○Representative applications
Rubber Film

Models	GC-60	GC-100
Measurable width(N)	500	500
Measurable width(mm)	Max.30	Max.50
Aperture opening width(mm)	Max.2	
Weight(g)	Approx.158	Approx.300
Mounting screw	M6	

※We provide a film cutter (P38).

Wire Winding Grip GC-30,WC-2000

Ideal for testing strings, wire, and the like. It holds a sample by winding it around, therefore, loads on a sample get balanced, and samples get harder to be broken than nipping type grips.

○Representative applications
Textile Wire Fur

Models	GC-30	WC-2000
Capacity(N)	500	2000
Diameter of bolt(mm)	M10	M16
Measurable line diameter(mm)	Max. φ 1	Max. φ 2
Weight(g)	Approx.136	Approx.900
Mounting screw	M6	M10

※Fixed models(-F) are available, recommended when you attach it on a test stand since their attaching parts (mounting screws) are fixed.

Hook for Corrugated Cardboard Adhesion Test DF-60

Designed exclusively for corrugated cardboard opening strength testing.



○Representative applications
Corrugated cardboard

Models	DF-60
Capacity(N)	250
Width(mm)	Approx.60
Weight(g)	Approx.145
Mounting screw	M6

Attachments for Compression and Tension Testing

These attachments can be used for both compression and tension testing.

Pin Grip CP-150N

For gripping thin wire shaped samples. You can utilize it in measurement at narrow spaces.



○Representative applications
Wire Optical fiber

Models	CP-150N
Capacity(N)	150
Aperture opening width(mm)	Approx. φ 0~3.2
Weight(g)	Approx.22
Mounting screw	M6

Flat Chuck GC-1100/1200/5000

These grips can be used for a wide range of testing applications. Its jaw is manually tightened, and individually adjusted for samples up to 10-30 thick. (The maximum thick differs among models.)

○Representative applications
Connector Cable Fastener Booklet Plastic Piece of metal

Models	GC-1100	GC-1200	GC-5000
Capacity(N)	1000	1000	5000
Aperture opening width(mm)	Max.10	Max.20	Max.30
Weight(g)	Approx.160	Approx.170	Approx.1400
Mounting screw	M6	M6	M10

※Fixed models(-F) are available, recommended when you attach it on a test stand since their attaching parts (mounting screws) are fixed.

Knurled Cam Grip GP-15/30

Ideal for testing resin or soft samples becoming thin when they are pulled. Knurled cam mechanism reduces the possibility of breaking samples.



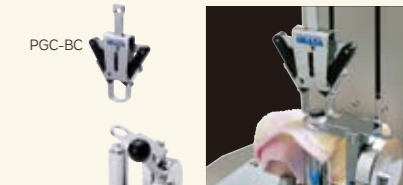
○Representative applications
Rubber Cable Silicone Elastomer

Models	GP-15	GP-30
Capacity(N)	250	1000
Aperture opening width(mm)	Max.4.5	Max.10
Weight(g)	Approx.70	—
Mounting screw	M6	—

※S-1 or SR-1 is required when mounting PGC-BC on a force gauge.

For Tensile Strength Test of Sewed Button BC-15/PGC-BC

Designed for tensile strength test of cloth button. It can grip the button whose diameter is up to 15mm. You can set a sample easily, improving measurement efficiency.



○Representative applications
Cloth button

Models	PGC-BC	Models	BC-15
Capacity(N)	300	Capacity(N)	300
Aperture opening width(mm)	Max.20	Measurable diameter(mm)	Max. φ 15
Weight(g)	Approx.125	Measurable height(mm)	Max.3.5

※S-1 or SR-1 is required when mounting PGC-BC on a force gauge.

Jacob's Chuck GC-5/15

Ideal for gripping round cylindrical shaped samples. Designed to prevent the samples from slipping.



○Representative applications
Plastic

Models	GC-5	GC-15
Capacity(N)	500	1000
Aperture opening width(mm)	Approx. φ 0.5~6.5	Approx. φ 2.0~13
Weight(g)	Approx.235	Approx.500
Mounting screw	M6	

※We provide a film cutter (P38).

Attachments for Wire Harness Testing

Combining these attachments with a force gauge and a test stand, you can create a wire harness testing machine. These attachments are designed to grip different sizes of harnesses.

~500N Accessory Attachments for A Manual Wire Clamp Pull Tester [LH-500N(P44)]

Terminal clamp jig

It is designed to secure a crimp terminal easily and quickly. For engaging it, you only have to hook it between its jaws.



Models	CH-500N
Capacity(N)	500
Aperture opening width(mm)	Max.6
Weight(g)	Approx.210
Mounting screw	M6

Wire clamp jig

It is designed to secure the ends of wire/cable tightly and easily. For engaging sample, you only have to pull its lever and put your sample on.



Models	CW-500N
Capacity(N)	500
Aperture opening width(mm)	Max.5
Weight(g)	Approx.220
Mounting screw	M6



~1000N Attachments for Vertical Test Stands

Rotary wire terminal jig

The grip secures wire terminals, cables, connectors, and other samples. It has grooves of different sizes to accommodate a wide range of wire diameters up to 8mm. You only have to rotate the wheel to the desired size.



Models	FW-12
Capacity(N)	1000
Measurable diameter(mm)	φ 1~8
Weight(g)	Approx.380
Mounting screw	M6

Wire clamp jig

It is for securing the ends of wire/cable, designed to prevent wire/cable from breaking due to knurled cam mechanism.



Models	GP-30
Capacity(N)	1000
Aperture opening width(mm)	Max.1.0
Weight(g)	Approx.880



~5000N Attachments for High Capacity

Wire terminal jig

It engages terminals from φ 4 to φ 12mm diameter.



Models	CH-5000N
Capacity(N)	5000N
Measurable diameter(mm)	φ 4~12(Internal diameter of the terminal hole)
Weight(g)	Approx.315
Mounting screw	M10

Wire clamp jig

It is designed for preventing wire coating from breaking.



Models	CW-5000N
Capacity(N)	5000
Measurable diameter(mm)	Max. φ 30(Cable diameter)



You can conduct a test complying with a part of JIS C 2805 (2010) using CH-5000N and CW-5000N together.

Fixture for Shear Test

A Set of Fixtures for Shear Test

LF

This set is designed for shear test of QFP lead and chip components, including jigs and a XY stage. The stage can manually adjust a test position precisely at light feed.



Hook attachment for 45 degree lead QFP-45-1
 90 degree chip shear attachment TIP90-1
 Chip components solder joints shear strength test

Models	LF
The set content	For QFP lead strength test: ①Hook attachment / QFP-45-1 ②45 degree table/QFP45-2 For soldered chip shearing test: ③90 degree chip shear attachment/TIP90-1 ④90 degree table/TIP90-2 For QFP lead strength test and soldering shearing test: ⑤XY table/QFP-1
Capacity(N)	100
Table dimensions	200X150
Weight(g)	①QFP45-1: Approx.60g ③TIP90-1: Approx.50g

It is in accordance with JIS Z 3198-6(2003), JIS Z 3198-7(2003)

Chip Peel Fixture

GT-10/20

Ideal for peel (shear) testing for soldered or adhered electric components.



Electrical component
 Flange cap
 Chip peeling strength test with GT-10

Models	GT-10	GT-20
Applying force	for Tension	for Compression
Capacity(N)	500	
Weight(g)	Approx.34	
Mounting screw	M6	

Attachments for Coefficients of Friction Testing

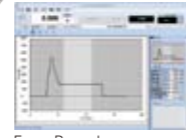
The included software automatically calculates Coefficient of Kinetic friction and coefficient of Static friction and draws graphs.



Representative applications
 Paper Film Panel

Models	COF2-2N	COF2-10N	COF-2N-V	COF-10N-V
Compatible test stand	Horizontal type MH2		Vertical type ※1	
Weight of the weight part(g)	200	1000	200	1000
Measurable size(mm)	Thickness:Max.1.5 Length:Max.150			

※1 Some vertical test stand can be not attached the fixture. Please contact us if you need the details. COF-2N,COF-2N-V in accordance with a part of JIS K 7125(1999).



Force Recorder Standard COF Ver.



Paper coefficient of friction test with COF2-10N

Attachments for Peel Testing

We offer fixtures for peel testing (adhesive testing) of sticky tapes, coating surfaces, and more.

90 Degree Peel Test Fixture **P90-200N/200N-EZ**

Ideal for 90 degree peel testing for adhesive tape and the like. P90-200N keeps the peeling degree at 90 degree. The moderated price model is P90-200N-EZ.

Representative applications
 Adhesive tape Copper foil Magnetic card Poulitice

Models	P90-200N	P90-200N-EZ
Measurable force(N)	~200	0.4~200
Measurable size(mm)	Length:Max.155 Width:Max.80	

P90-200N is in accordance with a part of JIS Z 0237(2009) and JIS C 5016(1994)
 ※We provide a film cutter (P38). With the cutter, you can cut film in constant-width.
 ※We also provide a rubber roller according to JIS (See P38 for further information).



Adhesive tape peeling strength test at 90 degree with P90-200N.

180 Degree Peel Test Fixture **P180-200N**

Ideal for 180 degree peel testing for adhesive tape and so on.

Representative applications
 Adhesive tape

Models	P180-200N
Measurable force(N)	0.5~200
Measurable size(mm)	Length:Max.150 Width:Max.40

It is in accordance with a part of JIS Z 0237(2009).
 ※We provide a film cutter (P38). With the cutter, you can cut film in constant-width.
 ※We also provide a rubber roller according to JIS (See P38 for further information).



Adhesive tape peeling strength test with P180-200N.

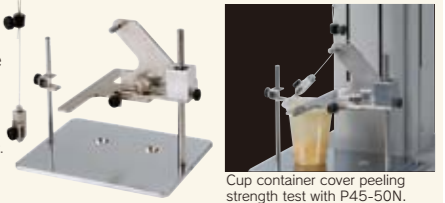
45 Degree Peel Test Fixture **P45-50N**

Ideal for peel testing of cup container's film covers. It standardize the peeling degree at 45 degree which is similar to practically opening a cup container.

※You cannot open the full lid of the container.
 Representative applications
 Film for cup container

Models	P45-50N
Capacity(N)	50
Measurable size(mm)	Height:Approx.10~100 Diameter:Approx.20~140
Chuck opening width(mm)	Max.2

It is in accordance with a part of JIS S 002(2001).
 ※We provide an optional tray to receive outflowing contents. (See P38 for further information).



Cup container cover peeling strength test with P45-50N.

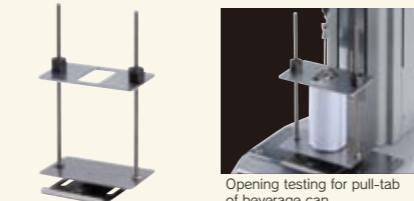
Jig for opening pull-tab of beverage can **PTD-100N**

Designed to pull up aluminum beverage can's pull-tab to 90 degree.

Pull-tab of beverage can

Models	PTD-100N
Capacity (N)	100
Maximum sample size (mm)	Height:170 Width:90

PTD-100N is in accordance with a part of JIS S 0022 (2001).
 ※We provide an optional tray to receive outflowing contents. (See P38 for further information.)



Opening testing for pull-tab of beverage can

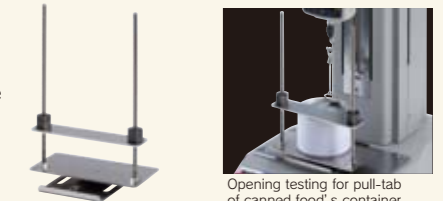
Jig for opening pull-tab of canned food's container **PTF-100N**

Designed to pull up a pull-tab of canned food's container to 90 degree to measure force opening the container's lid.

※You cannot open the full lid of the container.
 Pull-tab of canned food's container

Models	PTF-100N
Capacity (N)	100
Maximum sample size (mm)	Height:170 Width:110

PTD-100N is in accordance with a part of JIS S 0022 (2001).
 ※We provide an optional tray to receive outflowing contents. (See P38 for further information.)



Opening testing for pull-tab of canned food's container

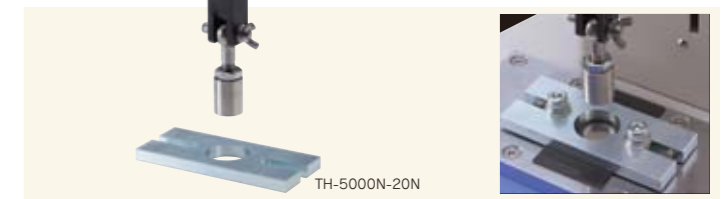
Coating Surface Peel Test Fixture **TH-1000N/5000N**

Ideal for peel testing of coating surface. It comes with 5 peeling heads(10 peeling heads for TH-1000N-7).

Representative applications
 Painted surface

Models	TH-1000N-7	TH-1000N-20	TH-5000N-20
Capacity(N)	1000	1000	1000
Upper fixture Adhesive area shape	Diameter7mm	Diameter20mm	Diameter20mm
(Force gauge side) Weight(g)	Approx.40	Approx.90	Approx.195
Mounting screw	M6	M6	M10
Lower fixture The center hole diameter(mm)	Diameter30	Diameter30	Diameter30

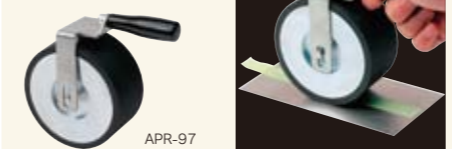
TH-1000N-7 is in accordance with a part of JIS K 5600-5-7 (2014).
 TH-1000N-20 and TH-5000N-20 are in accordance with a part of JIS K 5600-5-7 (1999).



TH-5000N-20

Rubber Roller for Peel Test **APR-97**

With this roller, you can apply stable pressure to stick samples, improving repeatability.



Models	APR-97
The roller weight(g)	Approx.2000
The sample contacting part material	Rubber(Hardness A80)

It is in accordance with a part of JIS Z 0237(2009)

Film Cutter **FSC-1525**

This cutter enables you to cut film in constant-width, improving measurement efficiency. It comes with 2 sets of spare edges.



Model	FSC-1525
Width to cut	15~70mm
Width adjustment block	15mm/1inch

FSC-1525 is in accordance with ASTM F88, JIS Z 0238 (1998), and JIS Z 1707 (1997).

Optional tray **PTW-10IN**

For receiving outflowing contents. It is attached on an IMADA test stand.



Model	PTW-10IN
Size (mm)	264 x 178

※Even though you combine the tray with a test stand, remember that the stand is still weak in water.

Other Attachments

Vice Grip **GT-30/2000N**

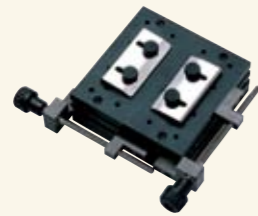
Wide opening range accommodates different sizes or shaped samples. Use with vertical test stands. (Contact us for models available with this grip.)



Models	GT-30	GT-2000N
Capacity(N)	1000	2000
Aperture opening width(mm)	Max.38	Max.64
Mounting	to Test stand table	

XY Table **XY-500N**

You can put a sample at the center using this XY table since the stage can be moved manually in X and Y directions at light feed. Use with vertical test stands. (Contact us for models available with this table)



Models	XY-500N
Capacity(N)	Tension:500 Compression:1000
X-Y movement amount	±30
Mounting	to Test stand table

Optional Handle for Force Gauges **FOH-1**

Combining a force gauge with this handle by screws, you can apply force stably.



Models	FOH-1
Compatible model	1000N or less range of ZTA/ZTS/DS2/PSS/PS/PSM/FS/FB series
Weight(g)	Approx.500

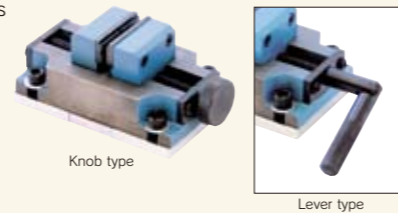
Conversion Adapter **CA series**

Gauges' threads (a part to mount an attachment) differ in size among models, thus you can use these adaptors to combine a force gauge and a desired attachment even if their sizes are different.

Models	Screw diameter	Capacity	Purpose
CA-F6T4	M6(Female Screw)→M4	100N	When mounting a M4 screw attachment of FRTS to a M6 screw thread of a force gauge.
CA-F6T10	M6(Female Screw)→M10	500N	When mounting a M10 screw attachment to a M6 screw thread of a force gauge.
CA-F10T6	M10(Female Screw)→M6	500N	When mounting a M6 screw attachment to a M10 screw thread of a force gauge.
CA-F4T6	M4(Female Screw)→M6	100N	When mounting a M6 screw attachment to FRTS series.
CA-F5T4	M5(Female Screw)→M4	100N	When mounting a M4 screw attachment to a M5 screw thread of Load cell LMU series.
CA-F5T6	M5(Female Screw)→M6	500N	When mounting a M6 screw attachment of FRT series to a M5 screw thread of a load cell LMU series.
CA-8T4	M8→M4	100N	When mounting a M4 screw attachment of FRT series to M8 screw thread of a load cell LU series. ※It does not mount to a T nut.
CA-8T6	M8→M6	500N	When mounting a T nut / M8 screw thread of load cell LU series to M6 screw attachment.
CA-8T10	M8→M10	2000N	When mounting a T nut / M8 screw thread of load cell LU series to M10 attachment.

Self-centering Vice Grip **GTW-50R/50L**

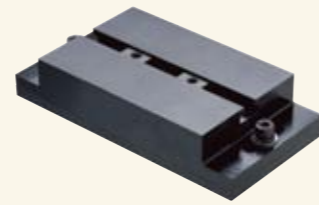
Self-centering vice. 2 models are available: 1. Knob model (high operability type) 2. Lever model (Strong clamp type) Use with vertical test stands. (Contact us for models available with this grip)



Models	GTW-50R	GTW-50L
type	Knob type	Lever type
Capacity(N)	500	1000
Aperture opening width(mm)	Max.68	
Mounting	to Test stand table	

T-Slot Table **TS-5000N**

It is for holding attachments, being utilized to mount/remove attachments quickly. You can also center your sample readily since the table moves in X/Y directions.



Models	TS-5000N
Capacity(N)	5000
Diameter of T-nut hole	M8
The space between T-nuts	Max.125
Movement amount(mm)	X: ±64 Y: ±15
Mounting	to Test stand table

Attachment Adapter **JF/EJ series**

The mounting adapter for grip type attachment for tension test. They help smooth sample fixation and precise adjustments of gripping positions and angle.



Models	JF6-50N	EJ6-1000N	EJ10-5000N
Capacity(N)	50	1000	5000
Mounting screw for a force gauge	—	M6	M10
Mounting screw for a chuck fixture	M6	M6	M10
Weight(g)	Approx.8	Approx.29	Approx.140

※Please contact us for the detail that which attachment is available.
※A-1/S-1/SR-1 is required to mount JF6-50N on a force gauge.



Eye Bolt and Eye Nut for Load Cells

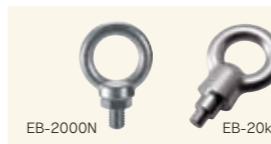
Hoisting attachment for tension test by load cells (Page 16).

for Load Cell DPU series

Eye Bolt **EB series**

It hangs a test sample or a load cell by hooking chain, rope, hook etc.

Models	EB-500N-M6	EB-2000N	EB-20kN
Compatible load cell	DPU-5N~500N	DPU-1000N/2000N	DPU-10kN/20kN
Capacity	500N	2000N	20kN
Weight(g)	Approx.18	Approx.137	Approx.1100
How to mount	M6 Male Screw	M12 Male Screw	M18 Male Screw



for Load Cell LU series

Eye Bolt **EB-500N-M8**

It hangs a test sample or a load cell by hooking chain, rope, hook etc.

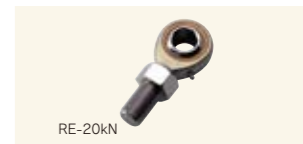
Models	EB-500N-M8
Compatible load cell	LU series
Capacity(N)	500
Weight(g)	Approx.39
Mounting screw	M8 Male Screw



Rod End[for shafts] **RE-20kN**

A shaft can be put through it.

Models	RE-20kN
Compatible load cell	DPU-10kN, DPU-20kN
Capacity(kN)	20
Weight(g)	Approx.300
Mounting screw	M18 Male Screw



for Load Cell LMU series

Eye Nut **EN-500N**

It hangs a test sample or a load cell by hooking chain, rope, hook etc.

Models	EN-500N
Compatible load cell	LMU series
Capacity(N)	500
Weight(g)	Approx.11
Mounting screw	M5 Female Screw



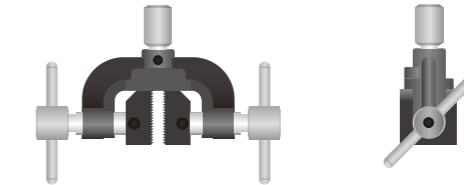
Custom Order Examples

1.Resizing Ready-Made Attachment

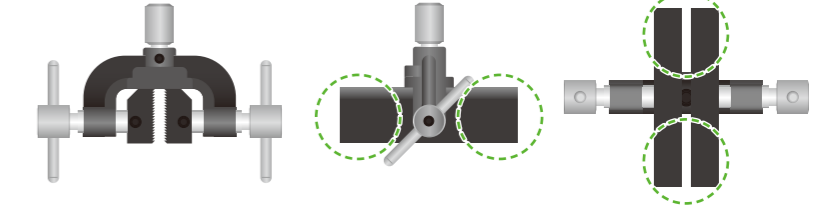
[Example. GC-1200 series Length change of grip part]

We can resize the width and the length of the grip part.

Standard



Custom made example of wider grip of GC series



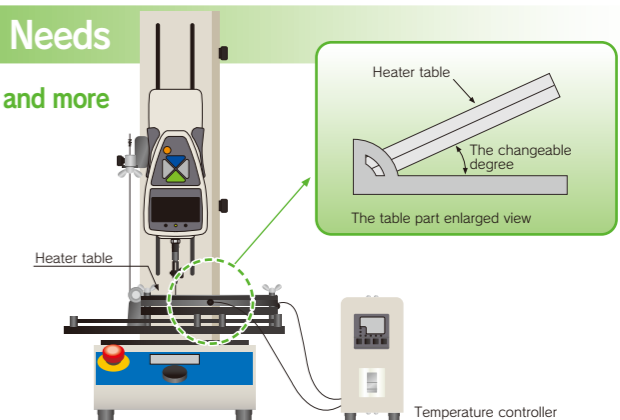
We flexibly change sizes (width, depth) of fixtures and grips to fit your testing needs. Please contact us for the details.

2.Changing Specifications to Fit Your Testing Needs

● Changing conditions such as measuring angles, temperatures, and more

[Example: Specification change of peeling test fixture]

We can offer a degree changeable table for peel testing. Besides, we can combine a heater with a table of a test stand.



● Measurement in accordance with standards such as Japanese Industrial Standard, ISO or ASTM.

We offer force measuring instrument complying with standards' requirement (measuring speed, fixture design, etc).

3.Completely Original Products

[Example: Cork excerpction measuring unit]

We offer the special use fixture for your sample to improve measuring repeatability and efficiency.

