

■ Caution when choosing the right attachment

- Testing load has to be lower than the maximum load of the attachment.
- The weight of the upper attachment has to be lower than the 10% of the maximum load of the loadcell. If the maximum load of the loadcell is very small, it is recommended to adjust the testing machine with the attachment attached being placed.
- Make sure the size of the connecting rod is correct. Chart below shows the size of the screw for upper / lower attachment.
- If you plan to test special materials, it is highly recommended to perform the sample testing to choose the right attachment.

■ Installation size list

(1) The installation of the upper jig

The upper jig is installed to a loadcell. The screw size is as follows.

The machine model to use a loadcell equal to or less than 500N is for a male screw. The jig side gets the female screw.

The machine model to use loadcell more than 1kN is for a female screw. The jig side gets the male screw.

Load	Under 500N	1kN~10kN	20kN	50kN	100kN
Model	SV-55CB SVZ-201F-50 SDT-204F-50	SVZ-201F-100/200 SDT-204F-100/200 SDT-504F SDW-002F SDW-005F SDW-010F	SDW-020F	SDW-050F	SDW-100F
Screw size	M6P1	M12P1.75	M16P1.5	M24P2	M32P2

※ When a jig of the small capacity is installed with the additional load range, a joint screw is necessary.

(2) The installation of the lower jig

The surface plate with T-Groove to fix lower jig is situated on the base of testing machine.

Two T-throw nuts are to be inserted into the T-Groove and fix a jig onto them with two bolts.

The dimension of the T-Groove and the size of the bolt are as follows.

Model	SV-55CB (*1) SVZ-201F SDT-204F SDT-504F	SDW-002F SDW-005F	SDW-010F SDW-020F	SDW-050F	SDW-100F
T-Nut	M8P1.25	M8P1.25	M12P1.75	M16P2	M20P2.5
T-Groove					

(*1) There is only screw holes for mounting for SV-55CB model. SV-55CB model can be installed with T-groove table with additional option.

* Design, appearance and specifications may be changed for modifications or improvements without any prior notice.

Manufacturer



91-1 Hashira 6 bancho, Toyohashi,
Aichi Japan, 441-8058
PHONE.+81 532 45 8851
FAX. +81 532 46 6231
E-mail: info@imada-ss.co.jp
<http://www.imada-ss.co.jp>

Agency

ATTACHMENTS

IMADA-SS ATTACHMENTS (JIGS)



There are various jigs for 'Tensile', 'Compression', 'Bending', 'Peeling' and etc.

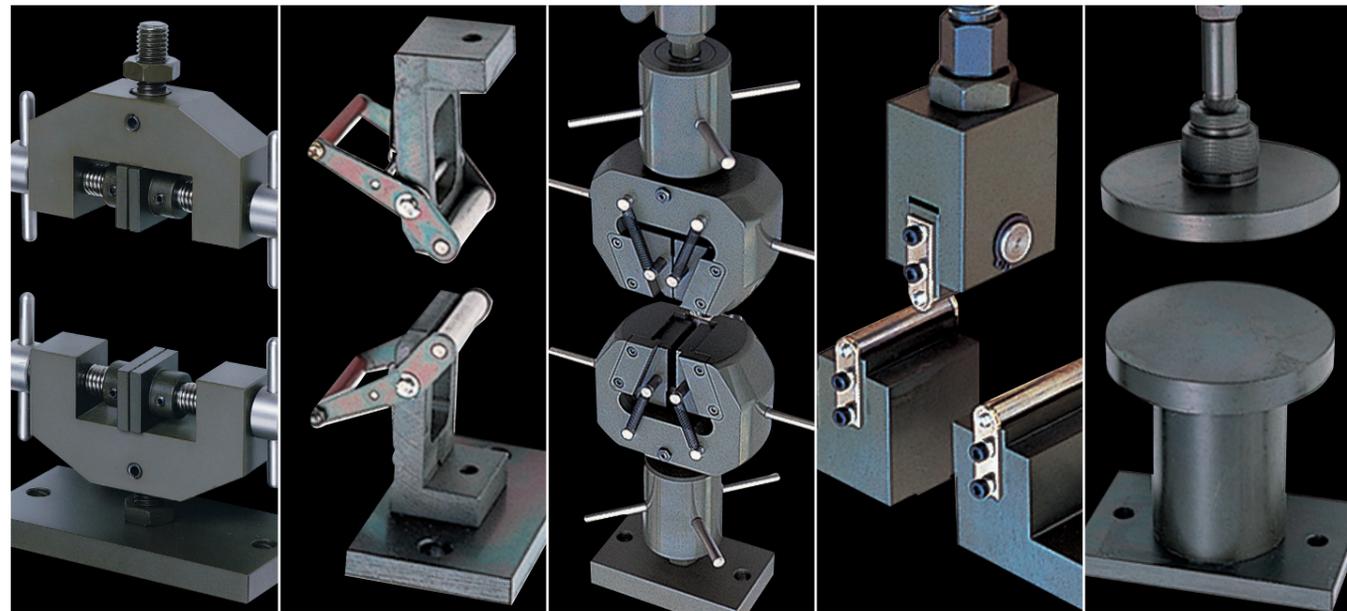
There are many special jigs and custom order jigs that are not listed in this catalog.

Please contact us.

ATTACHMENTS

IMADA-SS ATTACHMENTS (JIGS)

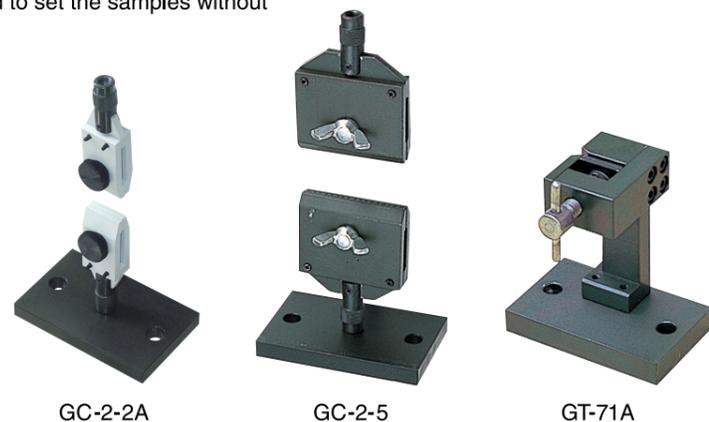
Selection of an attachment is very important, and it will bring out the full-capability of the testing machine. Almost every IMADA-SS testing machine can measure both “tensile” and “compression”. The test of “Tension”, “Compression”, “Bending”, “Peeling test”, and so on is possible by selecting the correct attachment for the testing purpose. We have many special attachments besides the items listed in this catalogue. We design the attachment which meets your requirement. Please feel free to contact us and let us know your requirement.



Film chuck

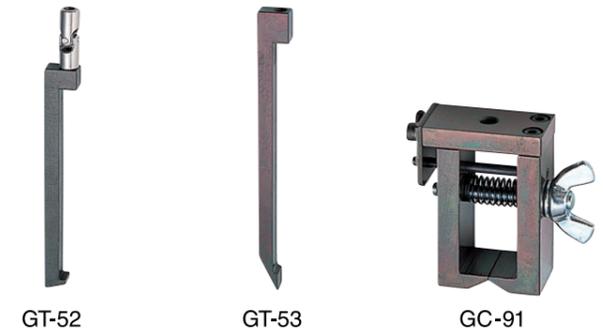
- This is designed for the tension test of the thin film. (max. thickness of 2mm)
- Suitable for the 180° peeling test of the glued sheet.
- GC-2-2A/GC-2-5A are made of aluminum, and there are no filing around the gripping area.
- “GT-71A” is recommended as a lower attachment if you need to set the samples without any sagging.

Type	Max. Load	Face width	Upper Weight
GC-2-2A	50N	20mm	38g
GC-2-5A		50mm	65g
GC-2-2	500N	20mm	75g
GC-2-5		50mm	155g
GT-71A	500N	50mm	—



Chip peeling test attachment / Hanging attachment

- GT-52/GT-53 are used for the purpose of semiconductor peeling.
GT-52: For pulling
GT-53: For pushing
- GC-91 is the jig for hanging samples. Tensile test of wire crimp terminal is possible by using with GT-30-2W.



Type	Max. Load	Specification	Upper Weight
GT-52	500N	width 10mm	105g
GT-53			100g
GC-91	200N	Open wide 0~4mm	150g

Miscellaneous attachment

- GP-5-0/1 is a hook.
- Connection screws such as ‘GQ-10-3’ are necessary for ‘GP-30-1/2’ additionally.
- ‘GP-5-2/GP-30-2’ are not suitable for a hard sample, because these are not hardened.



Type	Max. Load	Size	Weight
GP-5-0	50N	—	4g
GP-5-3A		L79mm	8g
GP-5-1	500N	—	12g
GP-5-2		ø16mm	12g
GP-5-3		L100mm	27g
GP-30-1	3kN	—	60g
GP-30-2		ø25mm	30g

T-nuts / Various Joint screws

- GQ-10-0 is a T-shape nut used to mount the lower attachment.
- Joint screw: GQ-10-1~4/GQ-30-1~3
- Universal joint: GQ-20-1/2
- Pin type joint: GQ-31-1/2

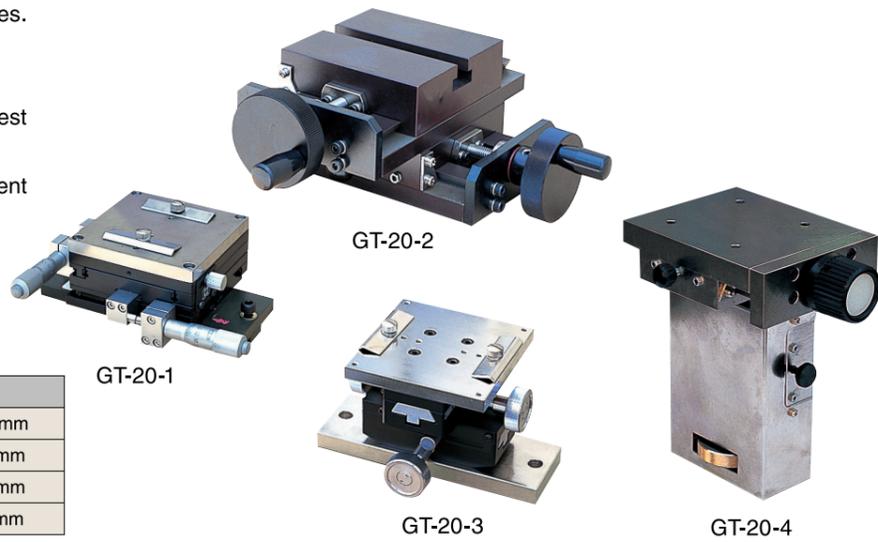


※ (M): Male screw (F): Female screw

Type	Screw diameter	Type	Screw diameter	Type	Screw diameter
GQ-10-0	M8	GQ-20-1	M6 (F) × M6 (F)	GQ-30-1	M6 (F) × M6 (F)
GQ-10-1	M6 (M) × M6 (M)	GQ-20-2	M12 (F) × M12 (F)	GQ-30-2	M12 (F) × M12 (F)
GQ-10-2	M12 (M) × M6 (M)			GQ-30-3	M12 (F) × M10 (F)
GQ-10-3	M12 (M) × M10 (M)			GQ-31-1	M6 (F) × M6 (F)
GQ-10-4	M12 (M) × M12 (M)			GQ-31-2	M12 (F) × M12 (F)

X-Y table / Y-Z table

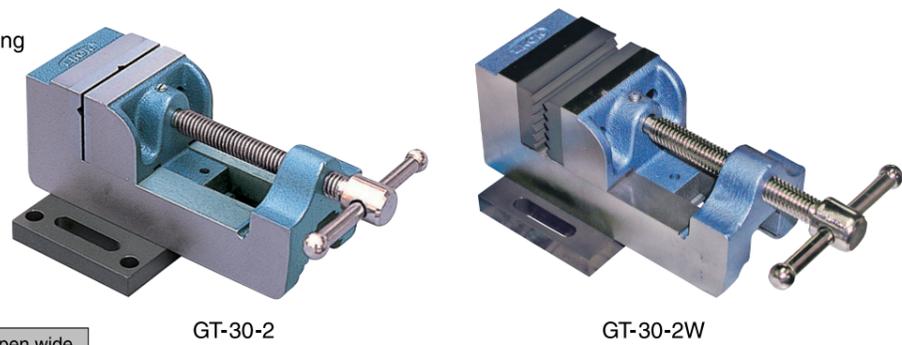
- This is used for position adjust of the samples.
GT-20-1~3: X-Y
GT-20-4: Y-Z
- "GT-20-4" is to be used for horizontal type test machine.
- In case of the cannot mounting the attachment to GT-20-4. Please contact us for detail.



Type	Max. Load	Stroke
GT-20-1	50N	X±7.5mm/Y±7.5mm
GT-20-2	3kN	X±25mm/Y±25mm
GT-20-3	500N	X±30mm/Y±30mm
GT-20-4		Y±15mm/Z±10mm

Vice grip

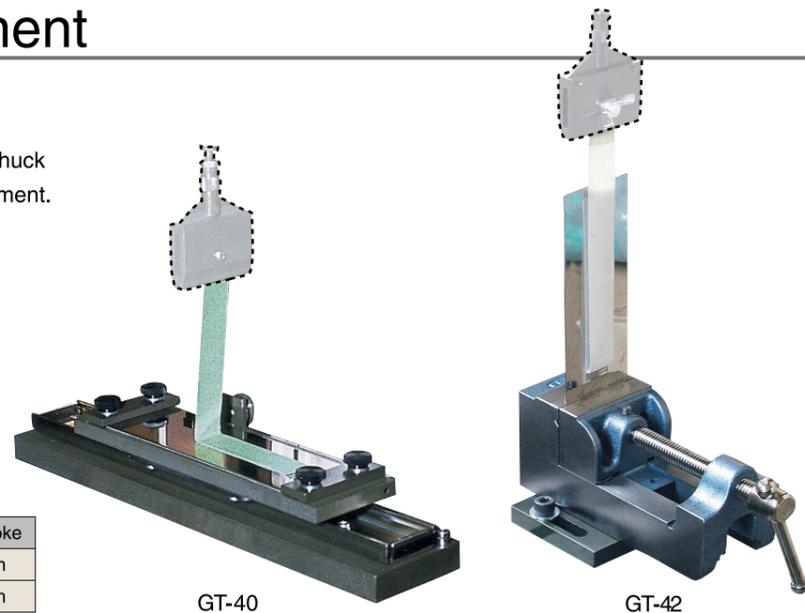
- It can be used as a lower attachment for many purposes.
- By customizing the surface of the gripping area, it will be used in many ways of testing.
- GT-30-2W is specially designed for gripping covered cable.



Type	Max. Load	Width	Open wide
GT-30-2	3kN	62mm	64mm
GT-30-2W			

Peeling test attachment

- GT-40: 90° peeling test
GT-42: 180° peeling test
- Upper attachment is an optional. Usually film chuck or pantograph chuck is selected for this attachment. (option)

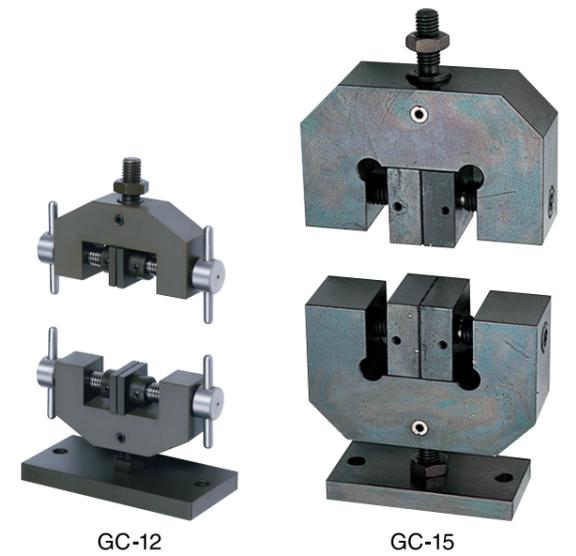


Type	Max. Load	Width	Peel stroke
GT-40	200N	50mm	130mm
GT-42	500N		150mm

Flat chuck

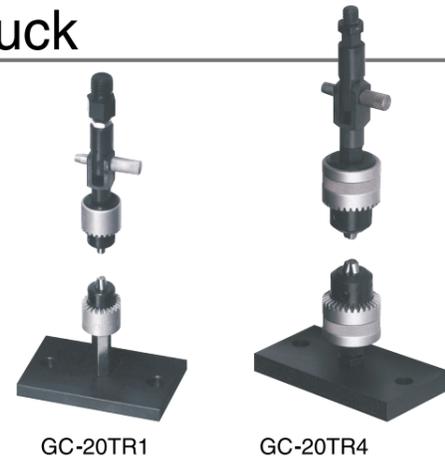
- This is all-purpose chucks which can grip thin to thick samples.
- It clips the samples by fastening the plate from both sides.

Type	Max. Load	Face width	Open wide	Upper Weight
GC-10-2	500N	20mm	0~20mm	200g
GC-10-3			10~30mm	220g
GC-12	2kN	30mm	0~18mm	530g
GC-15	5kN	50mm	0~20mm	3.6kg
GC-17	10kN			



Drill chuck

- This is used to hold the round bar shaped samples.



Type	Max. Load	Grip	Upper Weight
GC-20TR1	1kN	ø0.5~3mm	100g
GC-20TR4A	5kN	ø2~9mm	440g
GC-20TR4B	10kN		

Pin chuck

- This is the jig which clamps a pin, and to be used by compression test.
- This is commonly used at stab test.

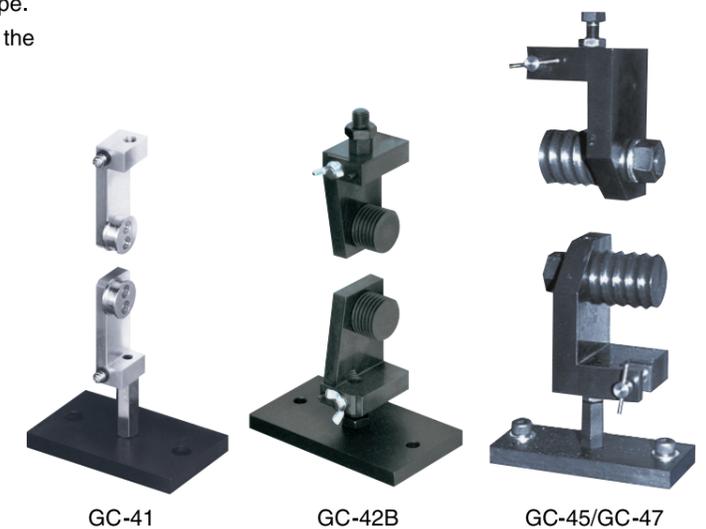


Type	Max. Load	Grip	Weight
GC-30A	200N	ø0.5~5mm	160g
GC-30-05	10N	ø0.5~1mm	16g
GC-30-10		ø1~1.5mm	
GC-30-15		ø1.5~2mm	

Wire winding grip

- This is suitable for tensile testing of string, electrical wire, or rope.
- It hold the samples by the frictional force to the drum, avoiding the samples to be cut at the edge of the attachment.

Type	Max. Load	Wire diameter	Drum	Upper Weight
GC-41	50N	ø0.5mm	ø16mm	27g
GC-42A	500N	ø2mm	ø30mm	580g
GC-42B	2kN			
GC-45	5kN	ø8mm	ø40mm	3kg
GC-47	10kN			



Roller grip

- This is suitable for testing materials which are deformable and elastic such as rubber and film.
- The tensile force is applied, the more self-clamping force is obtained.

Type	Max. Load	Width	Upper Weight
GC-60	500N	30mm	180g
GC-62	2kN	40mm	500g



GC-60



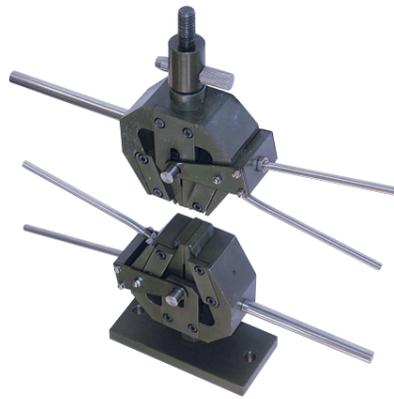
GC-62

Wedge grip

- It has a self-clamping effect to hold the samples tightly, and it is very easy to clamp or release the samples.
- Parts of hard may cause slip since the initial grip force might be not enough. This needs to be checked before testing the samples.
- Surface of the gripped area is flat. We can be manufactured "V" shaped surface for the round rod in custom order.
- GC-57~59S are fixed position type wedge grip.



GC-50



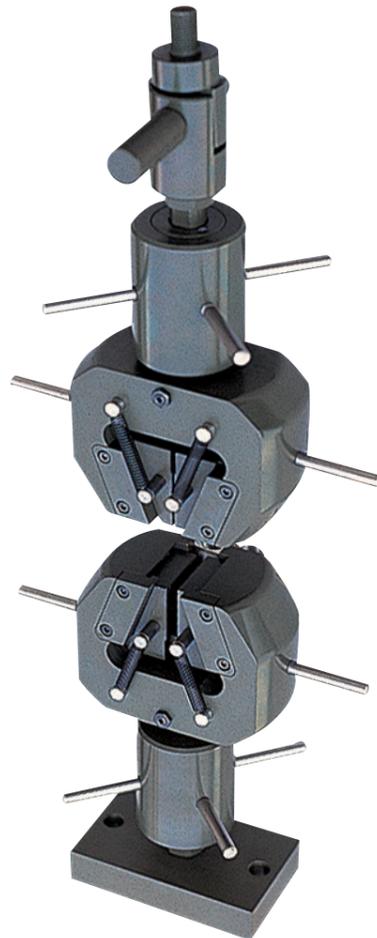
GC-51



GC-55



GC-57A/58A



GC-57~59S

Type	Max. Load	Face width	Open wide	Upper Weight
GC-50	500N	8mm	4mm	200g
GC-51	2kN	30mm	7mm	1.9kg
GC-55	5kN		5mm	2.8kg
GC-57	10kN	38mm	8mm	6.1kg
GC-57A		40mm	9mm	5.2kg
GC-58	20kN	38mm	8mm	7.3kg
GC-58A		40mm	9mm	5.2kg
GC-59	50kN	45mm	8mm	12.3kg
GC-59S	100kN			16.1kg

Pantograph chuck

- It is clamped one touch and necessary tightening.
- Model GC-90BT(or GC-90BGT) is a pair of upper & lower.
- These can be used to replace the air chuck.



GC-90H



GC-90B



GC-90BG



GC-90BT

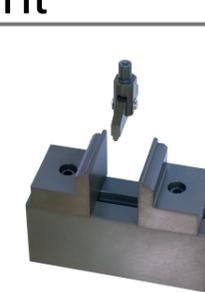


GC-90BGT

Type	Max. Load	Face width	Open wide	Upper Weight
GC-90H	50N	4mm	2mm	30g
GC-90B	500N	20mm	4mm	200g
GC-90BG	1kN			920g

Bending test attachment

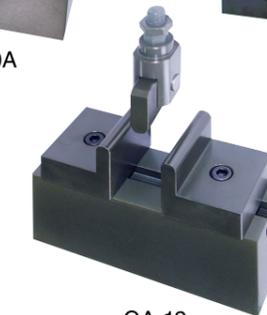
- This is for 3-point bending test attachment. We can be manufactured 4-point bending attachment in custom order.
- GA-10B is usually used for the three-point bending test for ceramic material.



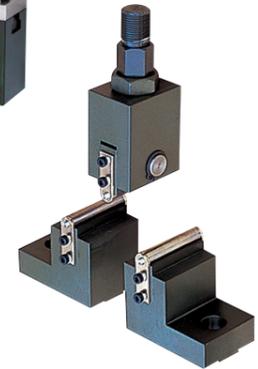
GA-10A



GA-10B



GA-12



GA-18~19S

Type	Max. Load	R	Width	Upper Weight
GA-10A	500N	2mm	55mm	150g
GA-10B		0.5mm	15mm	200g
GA-12	10kN	5mm	50mm	400g
GA-18	20kN			980g
GA-19	50kN			1.1kg
GA-19S	100kN			1.2kg

Flat type compression attachment

- GA-20A is a self-centering type.
- Upper flat head of GA-22~29S is a self-centering type, and the extent of alignment can be adjusted.



GA-20



GA-20A



GA-22



GA-28~29S

Type	Max. Load	Diameter	Upper Weight
GA-20	500N	ø55mm	150g
GA-20A			200g
GA-22	10kN	ø100mm	920g
GA-28	20kN		4.1kg
GA-29	50kN		4.2kg
GA-29S	100kN		4.3kg