

Flat Chuck GC series

- Allows to grip samples of various thicknesses due to the wide opening width
- Replaceable Claws cater to different sample-types (GCF-1200 and GC-5000 only)
- 4 models available to meet your needs

Multi-Purpose model GCF-1200



GCF-1200

- Swivel or non-swivel neck adjust with screwing.
- Different replaceable claw sold separately for various measurement requirements.



Refer to Page3 for the Replaceable Claws specifications.

High cost-performance model GC-1100/1200



GC-1100



GC-1200

GC-1100/1200

- Non-replaceable standard V-Notch Claw
- Swivel Neck Type (non-fixable)
- High-cost performances can be expected
- GC-1100: Max. Sample Thickness 10mm
- GC-1200: Max. Sample Thickness 20mm

High-capacity model GC-5000






GC-5000

- High-Capacity Type for up to 5000N measurement
- Swivel Neck Type (non-fixable)
- Replaceable claws (sold separately) with different tooth types can cater to various sample ranges



Refer to Page 3 for the Replaceable Claws specifications.

Related standards (only for GCF-1200 with Wave-Shaped claws)	
-ISO 1924-2:1994 [Paper and board - Determination of tensile properties – Part 2: Constant rate of elongation method] (corresponding part only) -JIS P 8113:2006 [Paper and board - Determination of tensile properties – Part 2: Constant rate of elongation method] (corresponding part only)	

How to use (GC-1200)		
Fix chuck to the measuring shaft.	Open the chuck with the lever.	Turn the lever in the opposite direction and grip samples.
		

Specification				
Model	GCF-1200	GC-1100	GC-1200	GC-5000 *3
Capacity	1000N	1000N	1000N	5000N
Feature (model)	Multi-purpose	High cost-performance		High capacity
			For thicker sample	
Max. sample thickness	20mm	10mm	20mm	30mm *4
Jaw width	20mm	20mm	20mm	29mm
Throat depth	20mm	20mm	20mm	37.5mm
Dimension	See [Dimension]			
Weight *1	Arprox.170g	Aprox.160g	Aprox.160g	Arprox.1400g
Mounting Part Angle	Approx. 20°	Approx. 20°	Approx. 20°	Approx. 17°
Mounting screw	M6	M6	M6	M10
Replaceable claws exchange	√			√
Fixed mounting screw *2	√			

* GC-1100/1200/5000 is not suitable for hard and slippery samples.

*1 Weight of the attachment is also applied as a load on the force gauge. Please check the weight when selecting the capacity of a force gauge.





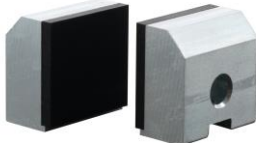
*2 Fixed mounting screw is recommended to use for horizontal test stands or mount to the table of vertical test stands.

*3 GC-5000 non-swivel neck type is available with customization requests. Please inquire for details.



*4 OP-GC5K-C30, when installed, the maximum opening for the sample thickness is 22mm.

[Customization Service]

- The specification changes for Max. Sample thickness/Jaw widths/Throat depth can be requested.
Please contact our distributor or us for further information and other options.

Replaceable claws of GCF-1200		
OP-GCF-C10	OP-GCF-C20	OP-GCF-C30
V-Notch claws (supplied claws) Capacity: 1000N Suitable for unsmooth surface samples	Square-Notch claws Capacity: 1000N Suitable for soft and elastic samples such as rubber	Wave-Shaped claws Capacity: 1000N Suitable for thin samples such as paper
		
OP-GCF-C40	OP-GCF-C50	
Parallel claws Capacity: 1000N Suitable for gripping sample surface such as aluminum foil	Rubber Bonded claws Capacity: 250N Suitable for gripping sample surfaces without scratches/damage	
		

* Each replaceable claws are sold in set of 2.

Replaceable claws of GC-5000	
OP-GC5K-C10	OP-GC5K-C30
V-Notch claws (supplied claws *1) Capacity: 5000N Adapted for stiff, hard to tear samples Example: metal sheets / plates	Wave-Shaped claws Capacity: 5000N Adapted for flexible, easy to tear samples Example: Leather / Knit Fabrics
	


* Each replaceable claws are sold in set of 2.

*1 The New GC-5000 type is available to order with Wave-Shaped claws: GC-5000-C30

The Old GC-5000 type has non-replaceable V-notch claws.




New GC-5000 type with replaceable claws	Old GC-5000 type with fixed non-replaceable claws
	

Example of Product Configuration GC-1100	
Configuration 1	Code : 1G2008A
Simple tension (tensile) test in capacity 1000N	
Digital force gauge : DST-1000N	
Manual test stand : HV-1000N	
Option attachment : GC-1100 (2pcs)	
Example of Product Configuration GC-1200	
Configuration 1	Code : 1G2009A
Functional and advanced tension (tensile) test in capacity up to 1000N.	
Digital force gauge : ZTS-1000N	
Motorized test stand : MX2-1000N	
Option attachment : GC-1200 (2pcs)	
Option cable : CB-528	
Example of Product Configuration GC-5000	
Configuration 1	Code : 1G2010A
Functional and advanced tension (tensile) test in capacity up to 5000N.	
Digital force gauge : ZTS-5000N	
Motorized test stand : MX2-5000N	
Option attachment : GC-5000 (2pcs)	
Option cable : CB-528	
Example of Product Configuration GCF-1200	
Configuration 1	Code : 1G2013A
Functional and advanced tension (tensile) test in capacity up to 1000N.	
It can grip various samples by exchange of replaceable claws.	
Digital force gauge : ZTS-1000N	
Motorized test stand : MX2-1000N	
Option attachment : GCF-1200 (2pcs)	
Option cable : CB-528	



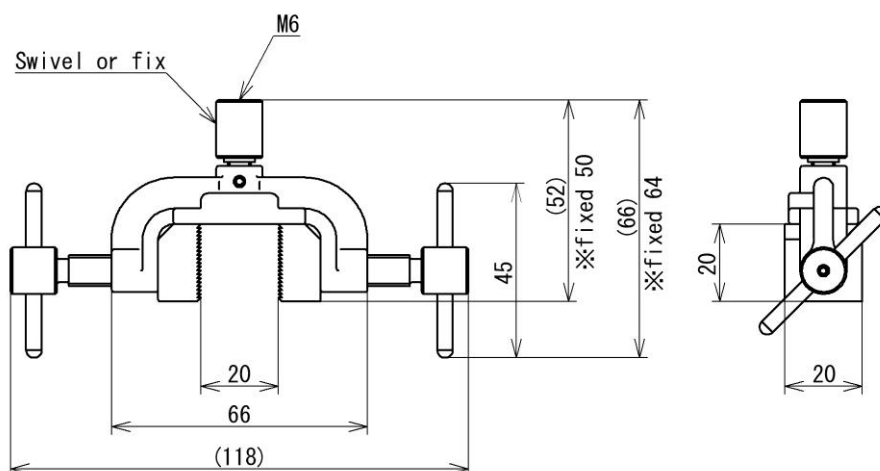
GC-1200
Configuration 1 image
(1G2009A)

- * Refer to the specification of each product for details.
- * Product configuration varies depending on the shape and characteristic of the sample, and measurement conditions. Please contact us or authorized distributor for further details.
- * The force gauge capacity recommended varies depending on the expected loading forces.
- * Longer stroke Test-stand required/suitable for samples with a high elongation rate. Please contact the authorized distributor or us for more information/concerns.

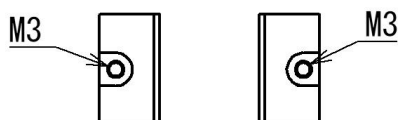
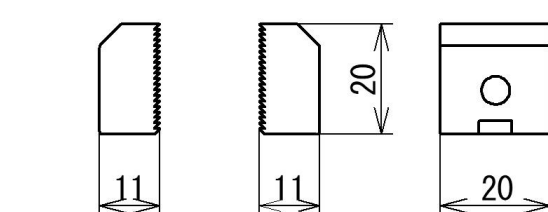
Related Products		
Wedge Grip KC series	Pantograph grip PGC series	Vise jig GT-30/2000N
Wedge Grip for gripping thin samples firmly with wedged surface.	Enables to grip easy to deform samples such as rubber and resin.	Be mounted on a vertical test stand to hold and fix a sample firmly.
		

[Dimensions]

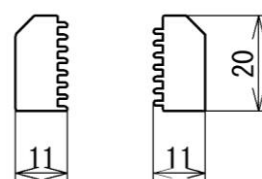
GCF-1200



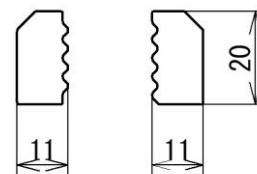
Replaceable claws of GCF-1200



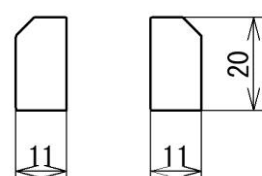
V-Notch claws OP-GCF-C10



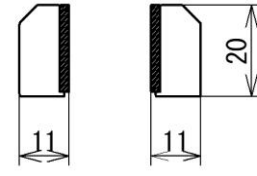
Square-Notch claws
OP-GCF-C20



Wave-Shaped claws
OP-GCF-C30

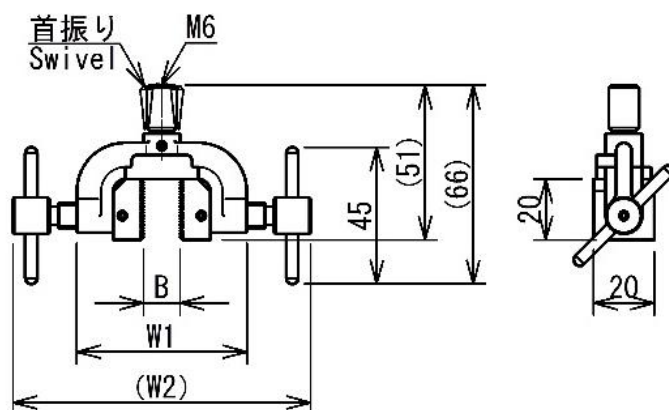


Parallel claws
OP-GCF-C40



Rubber Bonded claws
OP-GCF-C50

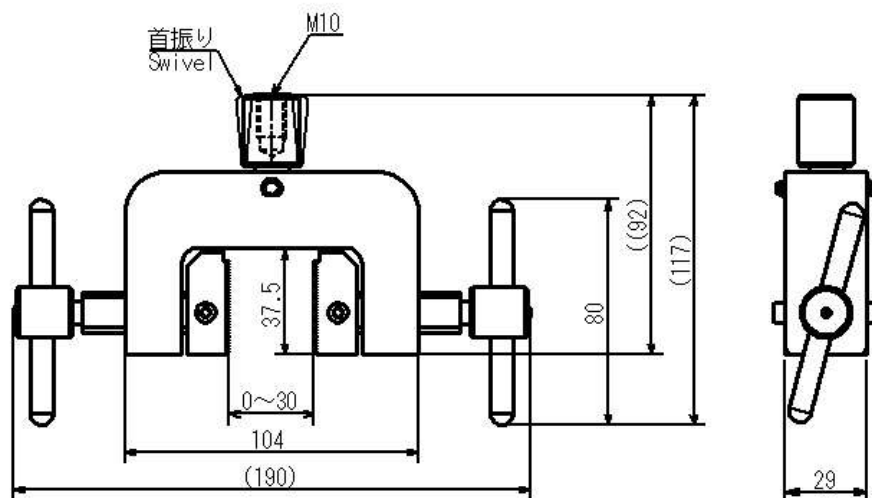
GC-1100/GC-1200



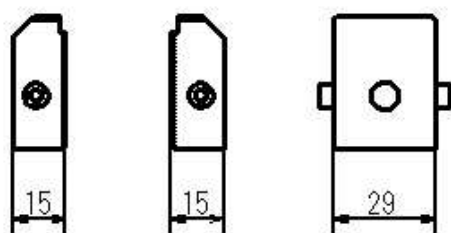
Model	GC-1100	GC-1200
B	10	20
W1	56	66
W2	98	112

Unit: mm

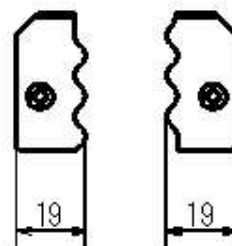
GC-5000



Replaceable claws of GC-5000



Wave-Shaped claws
OP-GC5K-C10



Wave-Shaped claws
OP-GC5K-C30

[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- A force gauge (sold separately) is required to use this product.
- Some samples may not be suitable to measure with this product.

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