




# DYNAMOMETER ACCESSORIES

A large decorative graphic in the center of the page, featuring several overlapping circles in shades of light blue and grey. The circles are arranged in a way that they appear to be floating or orbiting around a central point.

# 1 Traction Accessories

# ROUND HOOKS

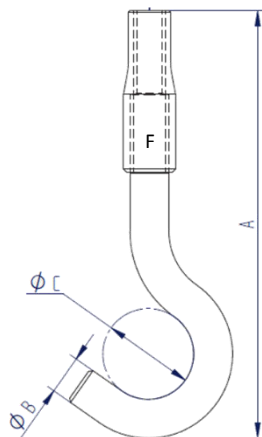


Round hooks are general purpose, suitable for any samples with a loop, eyelet or similar feature.

It is used with a digital force gauge to perform tensile test on tension springs.

It exists several threads for your specific load sensor.

INFORMATION TECHNIQUE						
Load capacity			Thread	Diameter (B)	Opening diameter (C)	Lenght
50 N	5 kgf	11 lbf	10-32 UNF	3 mm	8 mm	39 mm
50 N	5 kgf	11 lbf	M6	3 mm	8 mm	38 mm
500 N	50 kgf	110 lbf	10-32 UNF	6 mm	14 mm	66 mm
500 N	50 kgf	110 lbf	M6	6 mm	14 mm	66 mm
2.5 kN	250 kgf	550 lbf	5/16 UNC	6 mm	14 mm	66 mm



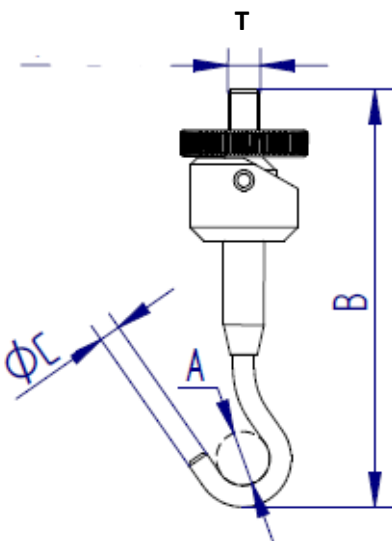
# SWIVEL TEST HOOKS



Swivel hooks are specifically designed to align samples when testing tension springs. They are usually used in conjunction with fixed test hooks.

It is used for general purpose tensile testing of tension springs.

TECHNICAL INFORMATION		
Load capacity	50 N, 11 lbf	500 N, 110 lbf
Thread (T)	10 -32 UNF	10 -32 UNF
Max diameter (A)	8 mm, 0.32"	14 mm, 0.55"
Diameter (C)	3mm, 0.12 "	6 mm, 0.24 "
Length	50 mm, 1.97 "	83 mm, 3.28 "
Weight	28 g, 0.05 lb	50 g, 0.1 lb



# Adjustable test hook

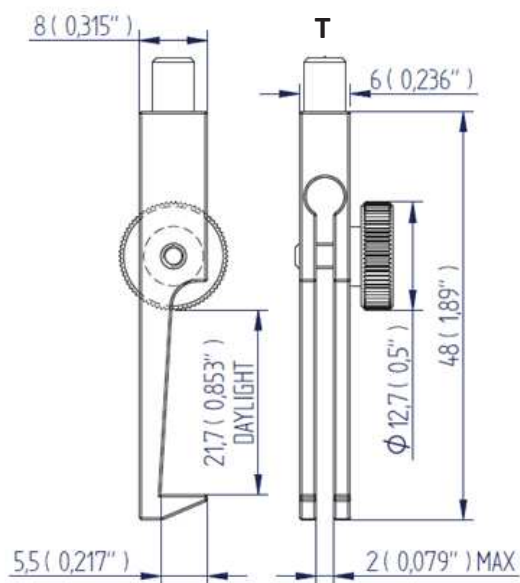


It is generally used for securely holding smaller crimp terminals for tests to BSI specification.

BS5G178 Part 1 and equivalent international standards.

It is designed for purpose tensile such as crimp terminals tests.

TECHNICAL INFORMATION	
Tread (T)	10-32 UNF
Load capacity	50 N
Jaws capacity	2 mm
Depth hook	5.5 mm
Setting	1 angle adjustment
Length / Weight	56 mm / 13 g





# Crochet de basculement pour capuchon

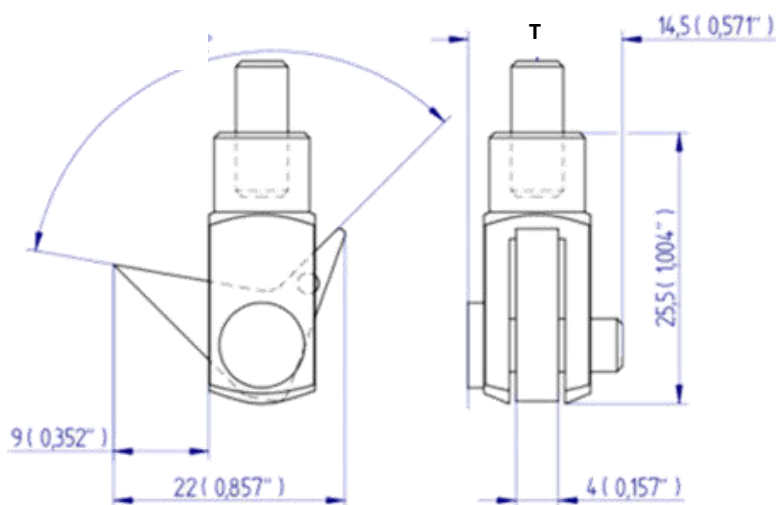


Designed to easily fit under bottle flip caps when testing their opening force.

It is used for general purpose tensile testing of : flip caps used in packaging

It is adjustable in angle to adapt to all needs.

TECHNICAL INFORMATION	
Thread (T)	Female 10-32 UNF
Load capacity	100 N
Setting	Double angle adjustment



# CLEVIS FASTENER



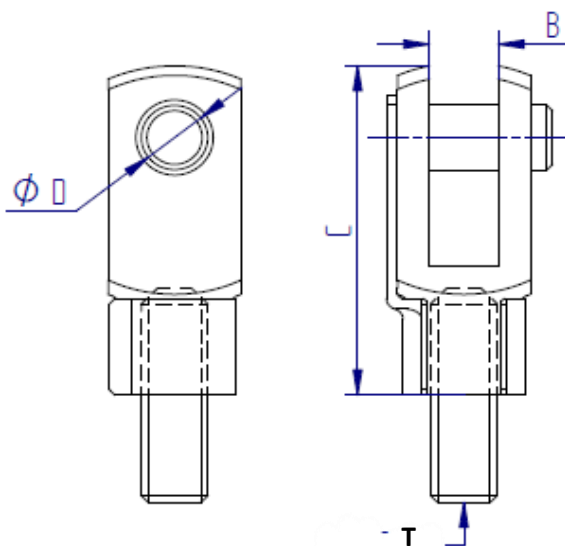
Clevis grips feature a removable pin which can be inserted into the U-shaped clevis. The specimen is usually

pre-conditioned with a hole or eyelet through which the clevis pin is passed to secure it in place.

Models 3 et 4 have a clevis pin with quick-release detents to speed up inserting and removing the pin..

TECHNICAL DATASHEET

Models	Load capacity			THREAD (T)	Diameter (B)	Pin diameter (D)	Lenght	Weight
<b>Model 1</b>	500 N	50 kgf	110 lbf	10-32 UNF	5 mm, 0.20"	5 mm, 0.20 "	26 mm, 1.02"	13 g, 0.03 lb
<b>Model 2</b>	500 N	50 kgf	110 lbf	M6	6 mm, 0.20"	6 mm, 0.24"	31 mm, 1.22"	13 g, 0.03 lb
<b>Model 3</b>	2.5 kN	250 kgf	550 lbf	M8	8 mm, 0.31"	8 mm, 0.31"	42 mm, 1.65 "	90 g, 0.20 lb
<b>Model 4</b>	5 kN	500 kgf	1100 lbf	M12	12 mm, 0.47"	12 mm, 0.47"	62 mm, 2.44"	250g, 0.55 lb



# Multi-Jaw

## Multi-jaw pinch for complex gripping

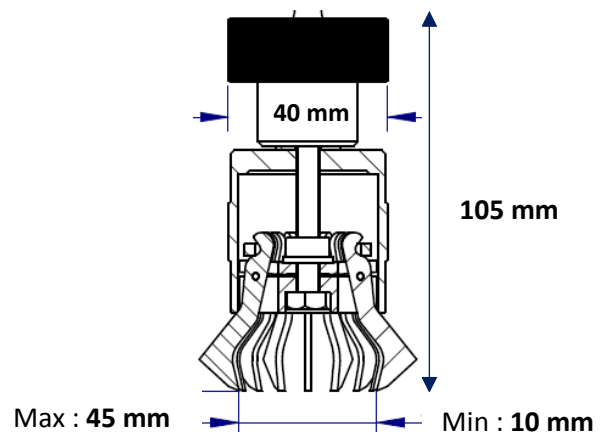


This pinch with multiple jaws is very practical for gripping a good number of objects having physical characteristics of different materials. It allows you to optimally grasp irregularly shaped products. By turning the handle, the jaws can open and close to ensure a secure grip.

Used for tensile tests:

- The ties
- Small components
- Textiles
- Bottle caps

TECHNICAL DATASHEET	
Load capacity	500 N / 50 kgf / 110 lbf
Tread	M6 ou 10/32 UNF
Length	105 mm
Jaw diameter	10 mm – 45 mm
Handle diameter	40 mm





# Spring-Action Vice Clamp

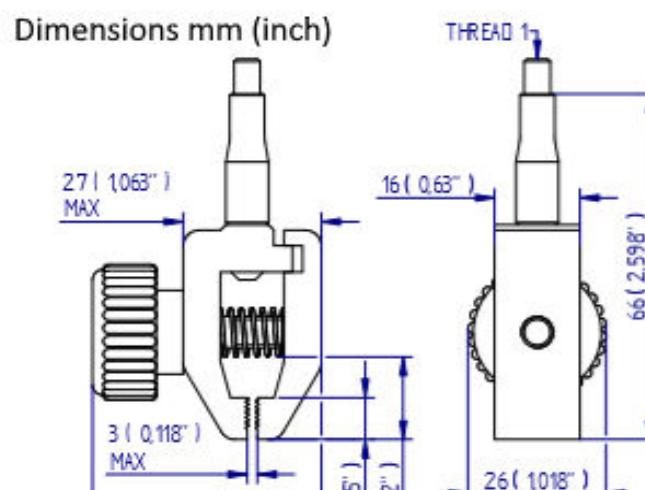


Spring-action vice clamps are lightweight clamps designed for gripping film, paper, labels, tape and other thin materials for tensile and peel testing. Ideal for testing at low forces, the clamps are fitted with adjustable serrated interlocking jaws. Often used with the chain link assembly for ease of sample loading and for alignment.

## Applications:

Used for tensile and peel testing of:

- Films
- Rubber
- Flexible sheet materials
- Woven fabrics
- Paper
- Tissue
- Laminates
- Tape
- Textiles



TECHNICAL INFORMATIONS						
	Load capacity		Thread 1	Jaw Opening	Jaw Width	Length
<b>200 N</b>	20 kgf	45 lbf	10-32 UNF	3 mm (0.12")	16 mm (0.63")	66 mm (2.60")

# SMALL PINCH GRIP

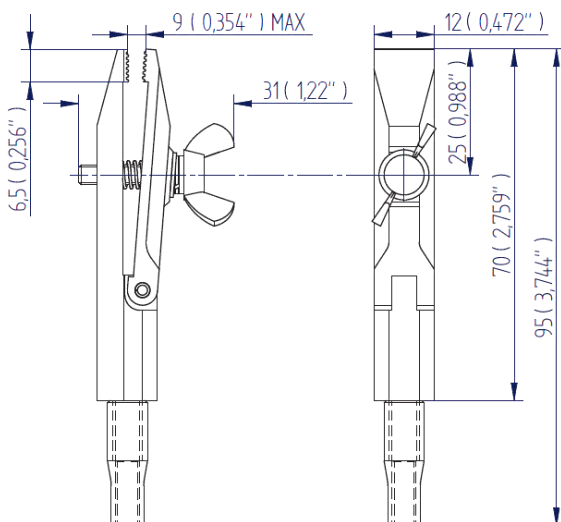


This clamp is the lightest clamp and uses clamping with a nut and a wing screw to tighten both sides.

These faces, provided with slight grooves, allow the gripping of the sample in complete safety, avoiding tearing.

It is used in particular for peeling tests with plastic film.

TECHNICAL DATASHEET	
<b>Tread (T)</b>	M6 10-32 UNF
<b>Load capacity</b>	200 N, 20 kgf, 44 lbf
<b>Jaws capacity</b>	9 mm
<b>Jaws length</b>	12 mm
<b>Height/ Weight</b>	95 mm / 70 g



T



# LARGE PINCH GRIP



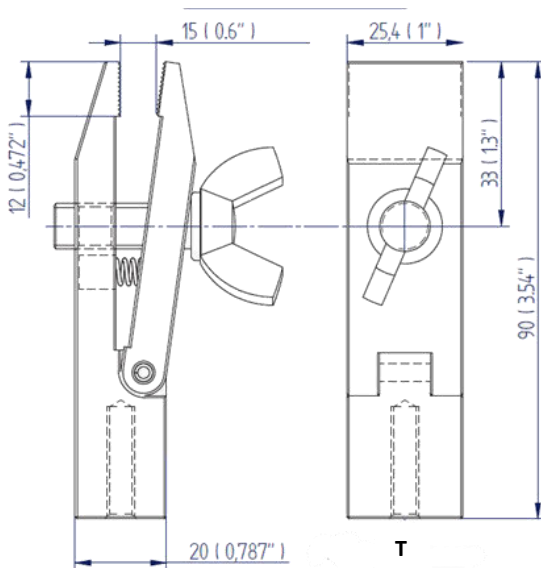
The large pinch handle has squared jaw faces to ensure that samples are held securely for tensile testing. Quick installation and sample release is achieved by first gripping with a hinge action and manually tightening the nut

Used for tensile and high strength peel tests of:

- Welded labels
- Small components
- Textile tie
- Strip of paper or handkerchief

## TECHNICAL DATASHEET

<b>Tread (T)</b>	M6
<b>Load capacity</b>	500 N, 50 kgf, 110 lbf
<b>Jaws capacity</b>	15mm
<b>Jaws width</b>	25 mm
<b>Lenght / Weight</b>	90 mm / 300 g



# PIN CHUCKS

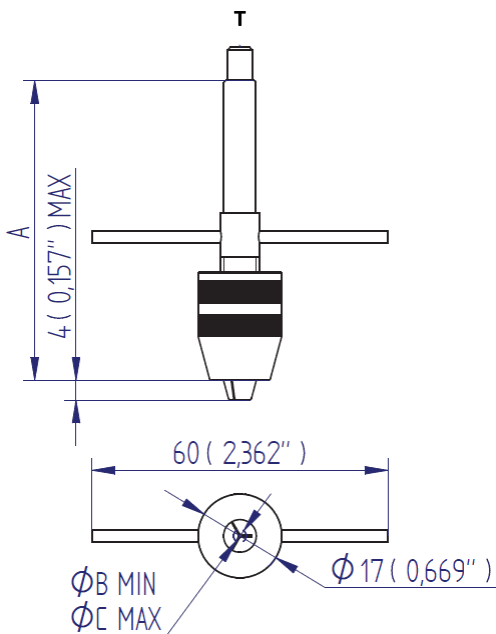


This clamp is specifically used for tests on circular samples of small diameters such as rods or needles.

These applications are:

- Tensile test
- Rod type components

TECHNICAL INFORMATION						
Load capacity			Thread	Jaws capacity	Length	Weight
100 N	10 kgf	22 lbf	10-32 UNF	0.5 mm – 3.5 mm	61 mm	36 g
100 N	10 kgf	22 lbf	M6	0.5 mm – 3.5 mm	86 mm	36 g





# LARGE WEDGE GRIP

## 1 kN



The modified large wedge grip has a shorter body with longer jaws to be able to securely hold S-spring poppers for tensile test-to-failure. As load is applied, the wedge action of the jaws increases the grip on sample.

These pliers are used for tensile test of press studs and poppers.

## 5 kN

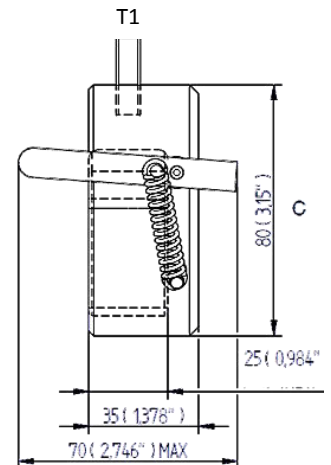
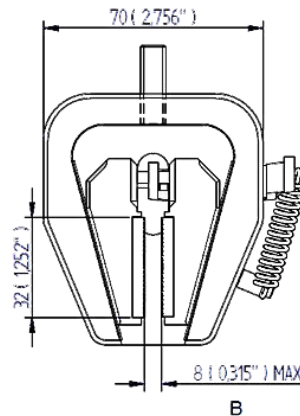
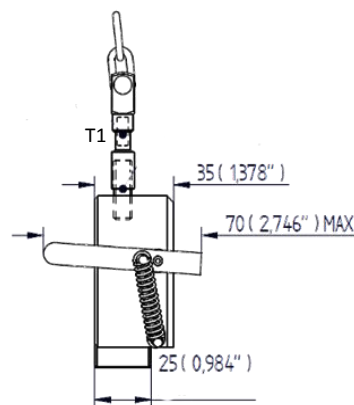
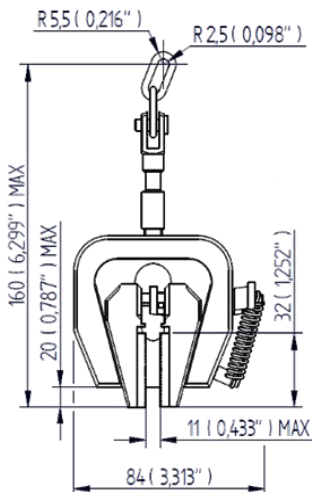


The 5 kN wedge grip is designed for tensile testing of flat and rigid materials including plastics, rubber and light metals. As load is applied, the wedge action of the jaws increases the grip on the sample. A spring-loaded lever allows the serrated jaws to open and close easily for the fast securing and release of samples.

Application for polymer, plastics, crimp, metals, rubber, wood, cables.

TECHNICAL INFORMATION	
Thread (T1)	10-32 UNF
Load capacity	1 kN, 100 kgf, 225 lbf
Weight	166 g
Length	160 mm (inch)
Jaws capacity	11 mm
Jaws width	25 mm

TECHNICAL INFORMATION	
Thread (T1)	5/16 UNC
Load capacity	5 kN, 500 kgf, 1 100 lbf
Weight	550 g
Length	80 mm (inch)
Jaws capacity (B)	8 mm
Jaws width	25 mm





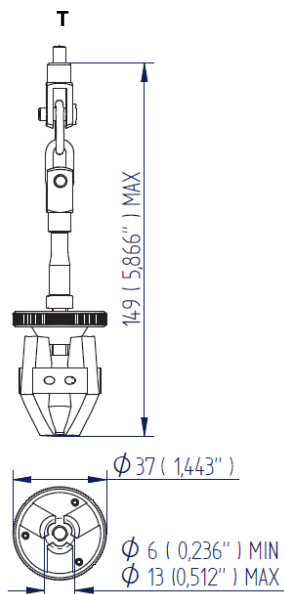
# 3 Jaw popper



This fixture, equipped with these three jaws and its pivoting function, allows the male and female side snaps to be held and pulled firmly.

It is used, more generally, in stud present on clothes.

TECHNICAL DATASHEET	
Thread (T)	M5
Max load	500 N, 50 kgf, 110 lbf
Weight	166 g
Length	144 mm (inch)
Jaw capacity	6 mm -13 mm

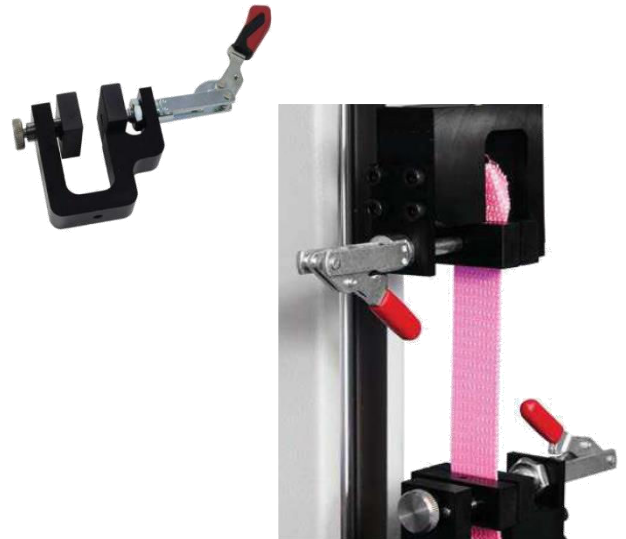


# Textile Vice Grap

## Grab Test – Textile Fixture

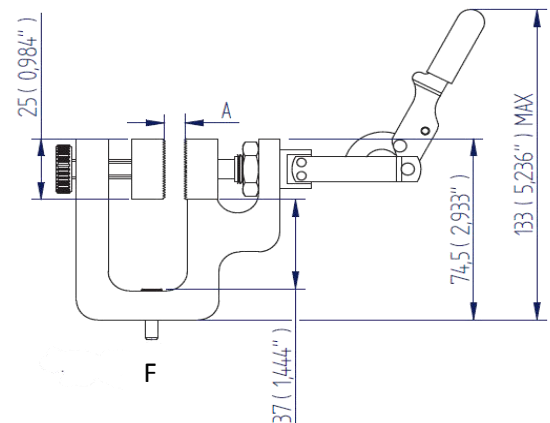
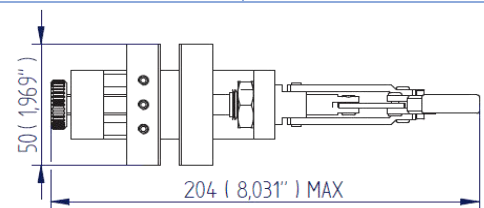
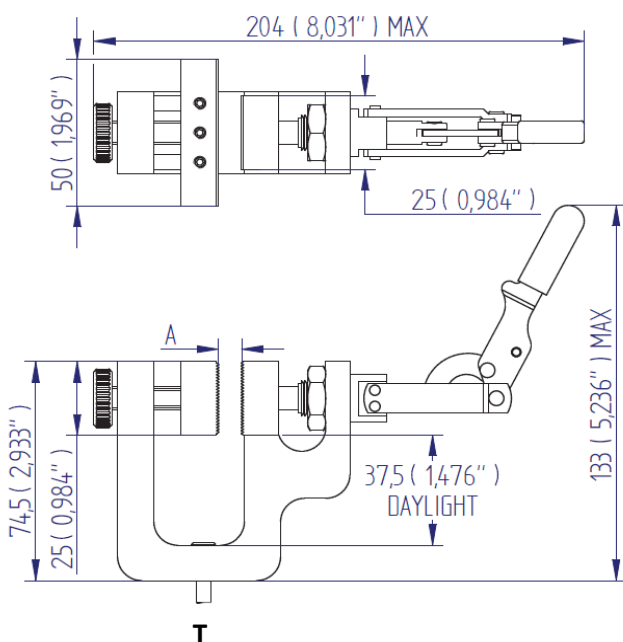


## Toggle Clamps

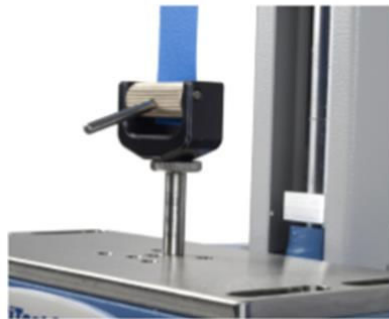


TECHNICAL INFORMATION	
Thread (T)	10-32 UNF
Load capacity	500 N / 50 kgf / 110 lbf
Applications	Textile strength and elongation
Jaws width	25mm / 50 mm
Jaw capacity	6.5 mm
Height / Weight	74 mm / 400 g

TECHNICAL INFORMATION	
Thread (T)	10-32 UNF
Load capacity	500 N / 50 kgf / 110 lbf
Applications	Polymer, fabric elongation
Jaws width	50 mm
Height / Weight	74 mm / 400 g
Serrated jaw capacity	7 mm (6 mm for flat)



# Lever-operated Cam Grips

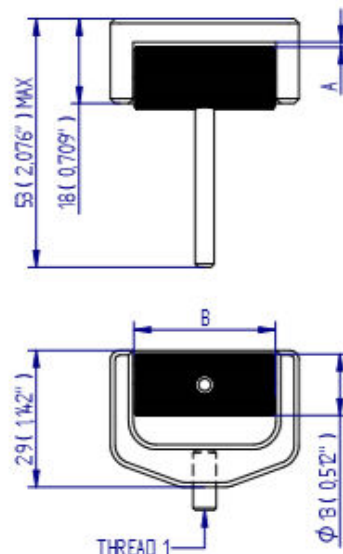


Lever-operated cam grips are designed to self-tighten as load as applied, and spread the load evenly. The lever also allows for quick insertion and release of samples.

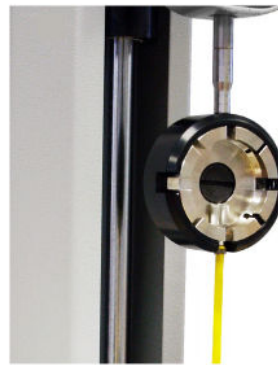
It is used for tensile test dumbbells and elastomers.

TECHNICAL INFORMATIONS							
Load capacity			Thread 1	Maximum Sample Size (Width x Thickness)		Height	Weight
<b>500 N</b>	50 kgf	110 lbf	10-32 UNF	30 mm x 5 mm	1.18" x 0.20"	29 mm (1.14")	100 g (0.22 lb)
<b>500 N</b>	50 kgf	100 lbf	10632 UNF	70 mm x 5 mm	2.76" x 0.20"	29 mm (1.14")	100 g (0.22 lb)

Dimensions mm (inch)



# Rotating Crimp Receptacle 1000N



The rotating crimp receptacle is a versatile termination holder that accommodates a wide range of terminals. The inner slotted ring rotates to adjust to fit 8 different-sized crimp terminals. Used for BS SG 178-1 and equivalent international standard test methods.

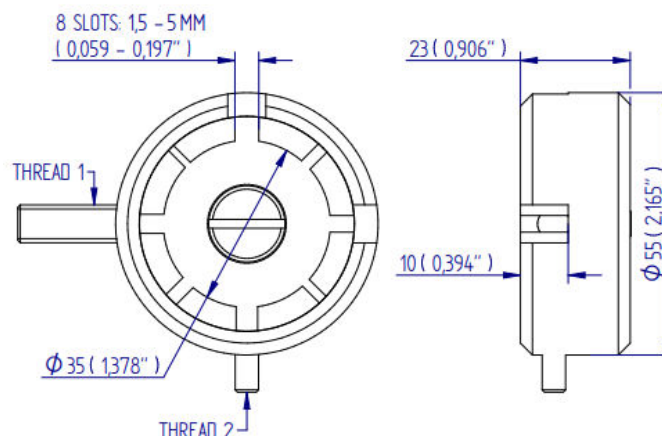
### **Applications:**

Used for general purpose testing of

- crimp terminals
- welded or bonded connectors

### TECHNICAL INFORMATIONS

Load capacity			Thread 1	Thread 2	Diameter		Sample diameter range		Weight	
1 kN	100 kgf	225 lbf	5/16 UNC	10-32 UNF	55 mm	2.16"	1.5 mm - 5 mm	0.06" - 0.20"	200 g	0.44 lb





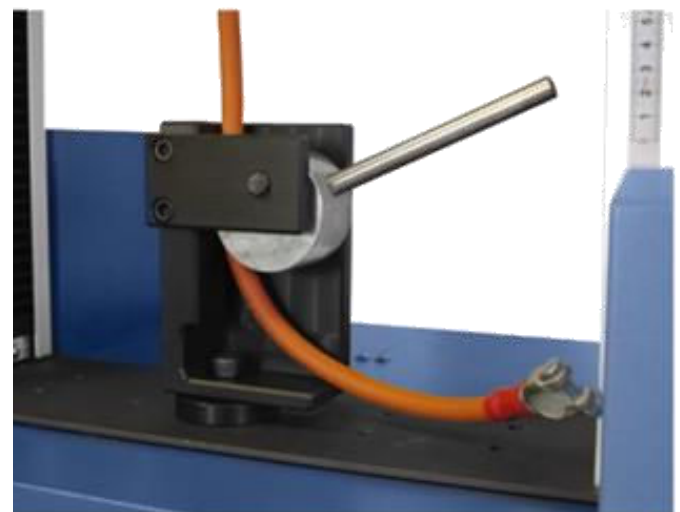
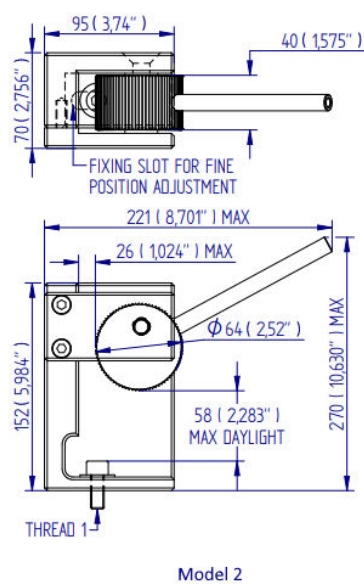
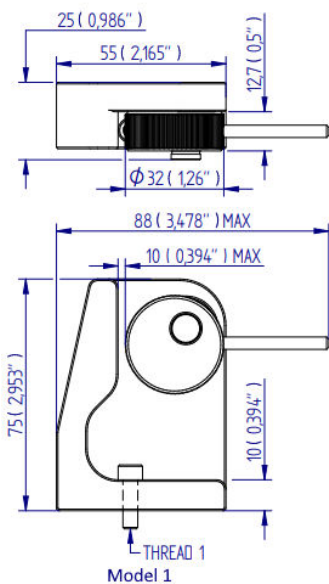
# CABLE CAM GRIPS 1000 N



Cable cam grips are designed for holding insulated cables and wires. The sample is secured by the cam, which self-tightens as load is applied and spreads the load evenly. Serrated or smooth cam. Supplied with socket-cap bolt for stand fixing.

It is used in general for tensile test of crimped terminals, wires, tapes, foils

TECHNICAL INFORMATIONS									
Model	Load capacity			Thread 1	Type	Max sample Width	Max sample Thickness	Length	Weight
1	1 kN	100 kgf	225 lbf	10-32 UNF	Serrated	13 mm (0.51")	10 mm (2.95")	75 mm (2.95")	230 g (0.51 lb)
2	1 kN	100 kgf	225 lbf	10-32 UNF	Smooth	13 mm (0.51")	10 mm (2.95")	75 mm (2.95")	230 g (0.51 lb)





# DOUBLE CAM GRIP SMALL 500 N

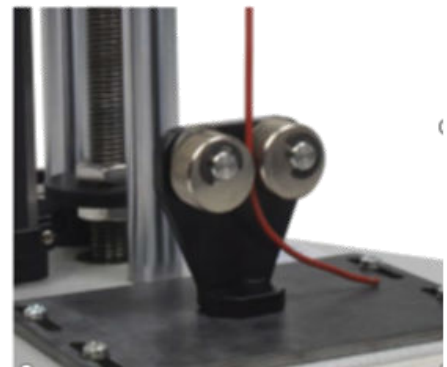
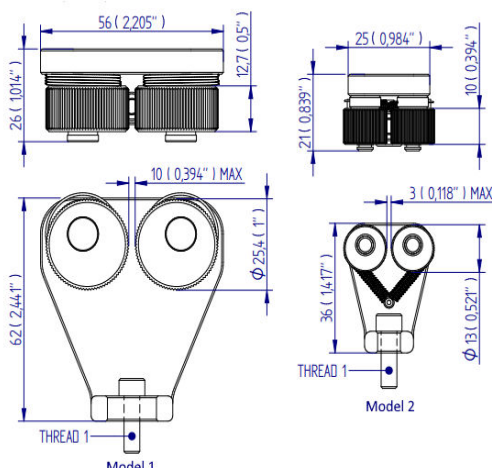


Double cam grips are designed for holding insulated cables and wire. The sample is secured by the cam, which self-tightens as load is applied, minimising slippage during testing.

It is used for tensile test of crimp terminals and wires.

## TECHNICAL INFORMATION

Model	Load capacity			Thread 1	Max sample Thickness	Max sample Width	Length
1	500 N	50 kgf	110 lbf	10-32 UNF	2 mm (0.08")	10 mm (0.40")	36 mm (1.42")
2	500 N	50 kgf	110 lbf	10-32 UNF	5 mm (0.20")	15 mm (0.59")	62 mm (2.44")



# ADAPTATORS

## COMPRESSION AND TRACTION

### EXTENSION RODS



Extension rods are used to add length to a fixture often to prevent the specimen making contact with the gauge/loadcell e.g., when compressing a plunger into a cylinder. They are also used to connect a force gauge or loadcell to a grip or fixture e.g. a wedge grip or test hook. The thumbwheel or locking nut are used to secure the grip in the correct orientation - care should be taken not to overtighten when using with low capacity gauges and loadcells.

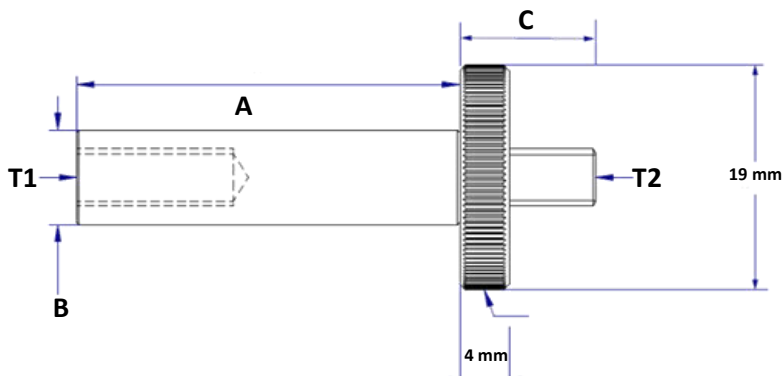
### THREAD ADAPTORS



Our range of adapters provide interchangeability between grips and fixtures and our range of force testing instruments and test systems. Adapters are usually threaded into the accessory.

TECHNICAL INFORMATION				
Model	Max load	Tread T1 - T2	Lenght A-C (mm)	Diam B (mm)
1	500 N	10-32 F – 10-32 M	30 - 11	8
2	500 N	10-32 F – 10-32 M	30 - 10	6
3	500 N	10-32 F – 10-32 M	130 - 10	6
4	500 N	10-32 F – M6 M	30 - 12	8
5	500 N	M6 F – M6 M	25 - 12	8
6	500 N	M6 F – M6 M	130 - 12	8
7	2.5 kN	5/16 F – 5/16 M	30 - 14	12
8	2.5 kN	5/16 F – 5/16 M	130 - 10	12

TECHNICAL INFORMATION				
Model	Max load	Thread Male = M Female = F	Lenght (mm)	Weight (g)
1	1 kN	10-32 M – M6 F	25	6
2	5 kN	5/16 F – 5/16 F	35	19
3	1 kN	10-32 F – 10-32 F	30	4
4	1 kN	10-32 F – 5/16 F	25	8
5	5 kN	5/16 F – M6 F	25	6
6	5 kN	5/16 M - M12 M	29	21
7	5 kN	5/16 M - M12 F	34	21
8	5 kN	5/16 M - M10 M	29	21
9	1 kN	M6 F - M6 F	25	5
10	10 kN	M10 M - M12 M	29	21
11	1 kN	10/32 M - M10 M	29	14
12	1 kN	10/32 F - M6 F	25	5





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# Compression Accessories

# CONE POINTS

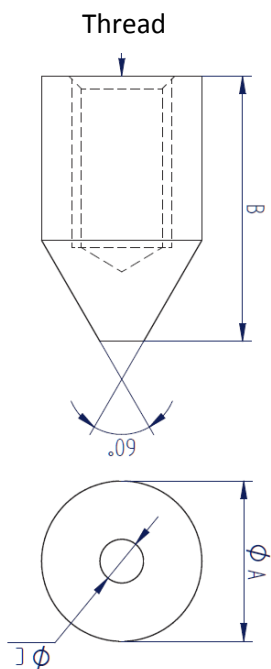


The cone points are used for puncturing, spreading and compressing sample.

These applications are:

- Packaging
- Food products
- Cosmetics

TECHNICAL INFORMATION						
Load capacity			Thread	Diameter (B)	Length	Point width
<b>500 N</b>	50 kgf	110 lbf	10-32 UNF	8 mm	14 mm	0.5 mm
<b>2.5 kN</b>	250 kgf	550 lbf	5/16 UNC	12 mm	21 mm	2 mm



# CHISEL POINT



**V**



Chisel points are used for puncturing and splitting samples, e.g. a typical application would be a 'cleave test' on eye liner pencils.

It is used for compression testing of packaging, food products, cosmetics

**V inverted**

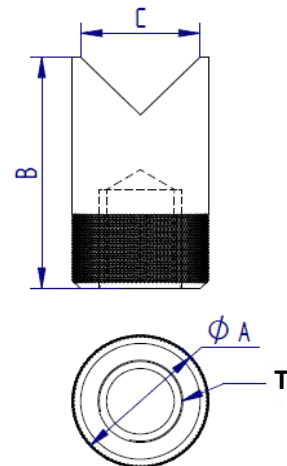
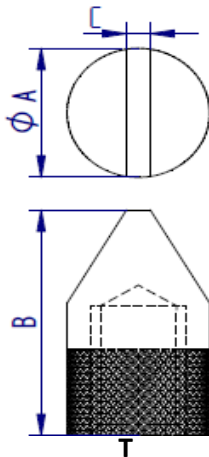


The inverted chisel is designed for compression testing of samples of a curved or rounded shape in cross-section.

It is used for compression testing of pipes and tubes.

TECHNICAL INFORMATION		
Model	Model 1	Model 2
Load capacity	500 N, 110 lbf	2.5 kN, 550 lbf
Thread (T)	10-32 UNF-F	5/16 UNC
Diameter	8 mm	12 mm
Length	14 mm	21 mm
Tip width	0.5 mm	2 mm
Weight	3 g	12 g

TECHNICAL INFORMATION		
Model	Model 1	Model 2
Load capacity	500 N, 110 lbf	2.5 kN, 550 lbf
Thread (T)	10-32 UNF-F	5/16 UNC
Diameter	8 mm	12 mm
Length	14 mm	21 mm
Tip width	7 mm	10 mm
Weight	3 g	13 g







# COMPRESSION PLATES



Nickel plated compression plates are resistant to rusting.

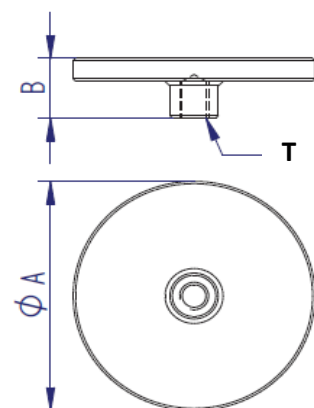
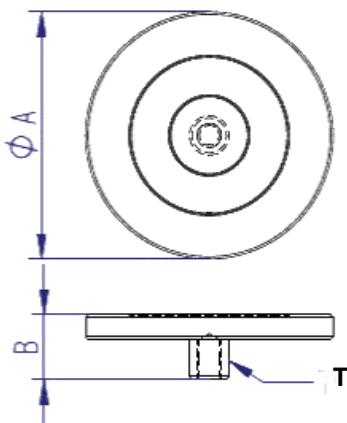
It is used for compression testing of : metals, mortar, cement, plaster.

Hardened and ground compression plates have a smooth, scratch-proof surface ideal for compression testing on samples that could damage a standard compression plate, such as metal springs.

It is used for compression testing of : springs, bottles, cans, polymer foams

TECHNICAL INFORMATION				
Model	Load capacity	Thread (T)	Diam A	Height B
Model 1	5 kN	10-32 UNF	12 mm	12 mm
Model 2	5 kN	M6	12 mm	12 mm
Model 3	5 kN	10-32 UNF	12 mm	16 mm
Model 4	5 kN	5/16 UNC	19 mm	19 mm
Model 5	5 kN	M6	19 mm	16 mm
Model 6	5 kN	10-32 UNF	50 mm	13 mm
Model 7	5 kN	5/16 UNC	50 mm	16 mm

TECHNICAL INFORMATION				
Model	Load capacity	Thread (T)	Diam A	Height B
Model 1	5 kN	M6	50 mm	13 mm
Model 2	5 kN	10-32 UNF	12 mm	12 mm
Model 3	5 kN	10-32 UNF	19 mm	12 mm
Model 4	5 kN	5/16 UNC	70 mm	20 mm
Model 5	5 kN	5/16 UNC	100 mm	20 mm
Model 6	5 kN	5/16 UNC	175 mm	20 mm
Model 7	5 kN	10-32 UNF	50 mm	13 mm





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# Accessoires de Couple

## LOWER & UPPER FIXING PLATE WITH 4 PEGS



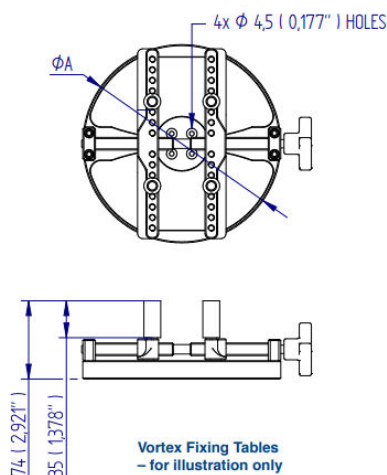
Torque Fixing Plates have been developed specifically to fit to the Vortex range of Torque testers. Upper Fixing Plates connect directly to the torque sensor and Lower Fixing Plates connect to the motor spindle of the Vortex.

Upper and Lower Fixing Plates can be used in combination with each other. Alternatively they can be used individually in conjunction with other grips or custom fixtures. They are a useful general-purpose grip offering highly versatile clamping of specimens, being fully adjustable to accommodate a variety of forms.

Four rubber-coated pegs are available with each Fixing Plate and are screwed into appropriate threaded holes to suit your specimen dimensions. The pegs are then tightened using the handle and leadscrew to secure the specimen in place.

Note: To avoid the risk of damaging the torque sensor by excessive tightening it is recommended that the Upper Fixing Plate only be used with sensors of 6 N.m and above.

Type	Tread 1	Max & Min opening $\phi$	Plate $\phi$ (A)	Height	Weight	Fixing Pegs (35 mm high)
Lower	4 x M4	10 – 190 mm	188 mm	188 mm	950 g	included
Upper	4 x M4	10 – 78 mm	100 mm	100 mm	475 g	included



# LOWER KEYLESS 4-JAW CHUCK (LARGE)



When seeking to hold small components or assemblies for torque testing it is often possible to use the flexibility provided by a standard machine-chuck.

Lower “keyless” 4-jaw Chuck (large) fitted with a round shaft for connection to the motor spindle of Vortex torque stands. Jaws may be tightened by hand or using the levers provided. Each 4-jaw chuck is delivered with 3 sets of interchangeable jaws which can quickly and easily be fitted using the fixing screws supplied

Max opening of chuck = 80 mm Weight including jaws = 1400 g



Mini jaws



Standard jaws



Long jaws

## JAW OPENINGS FOR LOWER KEYLESS CHUCK

Mini Jaws	Min 1 mm – max 37 mm	Contact height: 31 mm
Standard jaws	Min 37 mm – max 72 mm	Contact height: 14 mm
Long jaws	Min 10 mm – max 42 mm	Contact height: 32 mm

ALL DIMENSIONS ARE IN MILLIMETRES  
FOLLOWED BY INCHES (MM | IN |)

