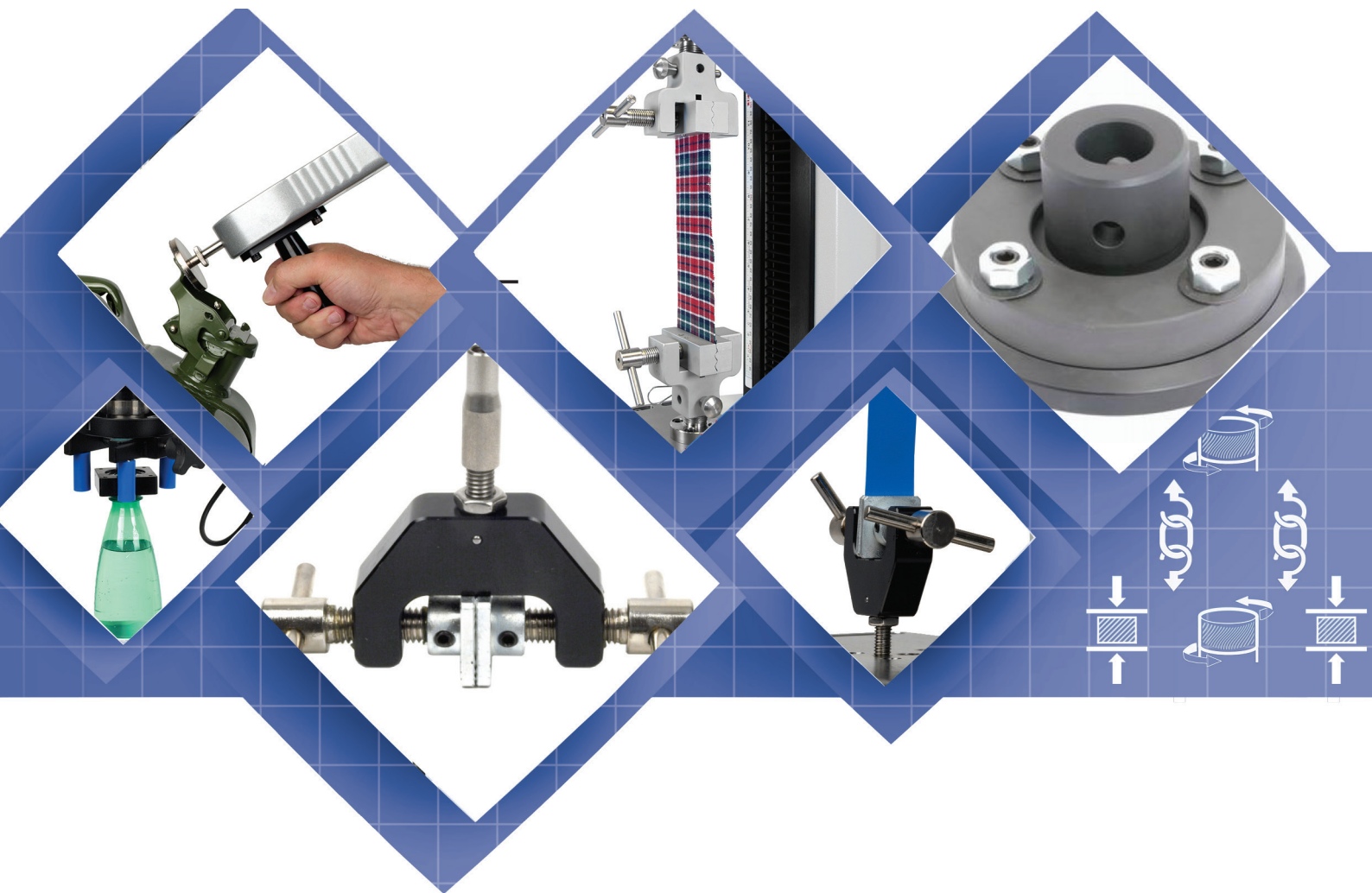


# Mecmesin

testing to perfection

# Accessories Catalogue

for Force and Torque testing



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## How to use this catalogue

This catalogue contains a very broad range of accessories and you should find exactly what you want. For most fixture types all you will need is a part number, which is indicated in a specification table associated with the accessory:

<a href="#">DATASHEET</a>										
Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
432-346	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb

Select the part number from the specification table

## Catalogue Listing

The catalogue is divided into two main sections. At the front is a concise listing of the accessories with a description, photograph, schematic drawing indicating the fundamental dimensions and the specification table:

**Slotted Compression Plates**

Slotted compression plates allow for escape of air from containers under top-load testing where a centring cone is unsuitable.

[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
432-346	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb

Catalogue listing entry

## Datasheets

The second section contains datasheets for those accessories where further details are relevant. The electronic version of this catalogue will have a hyperlink to the datasheet in the listing entry.

More complex fixtures, such as bend jigs, can be built from user specification, comprising a number of parts. These accessories have their specification table in the datasheet which provides more detail for selecting the correct part. The catalogue listing will show the following information with the datasheet link:

[DATASHEET](#)   [QC](#)

Part No.	
Mec103	Please see data sheet for full details

Refer to the datasheet for selecting part numbers for complex fixtures

If you cannot easily find what you want, or you are unsure, please call us, and we will be able to advise you. We also have a custom fixture design and manufacture capability, with expert engineers.

## QC Fittings

Accessories with Quick Change QC fitting will have a hyperlink labelled 'QC' to jump to the appropriate section within the catalogue. Please see table above for example of QC Hyperlink button.

# About Mecmesin

Mecmesin has been a specialist designer and manufacturer of force and torque testing equipment since 1977. Based in the UK, we have offices in six countries and distributors in over 50 more. Our aim has always been to provide cost-effective solutions to in-house product testing, from hand-held instruments to custom-built automation systems. Mecmesin is an established, leading, and trusted brand worldwide.

The systems and instruments we provide combine accuracy, reliability and affordability, in a range to suit all kinds of product testing. They are widely used in quality assurance situations, frequently on the production line or shop floor, where their robust design is ideal for continuous use with low training requirement. Design laboratories also represent a large part of our client base, where the computing power of our top-range systems is essential. Our gauges and instruments are market leaders, for their accuracy, reliability and sheer ruggedness.

Users of Mecmesin systems can be found across a very wide range of industries for an extremely diverse spread of applications. We frequently meet these needs by combining our standard products with customised solutions. Our highly talented and experienced engineers design bespoke systems, grips and fixtures to ensure optimal testing of any product presented to us.

## The importance of force and torque testing

The testing of products in-house brings control to engineering processes, guaranteeing fit-for-purpose functionality and allowing design optimisation. Mecmesin equipment provides the capability to meet quality standards for both internally manufactured and externally-sourced products and materials from suppliers.

Further benefits of testing include:

- Quality assurance protects your brand reputation and market position.
- Quality assurance demands standardised testing, whether to ASTM, BS, DIN, ISO, an industry body, or an internal corporate standard.
- Standards require systems that ensure repeatability from day to day and from site to site, anywhere in the world.
- Design frequently includes materials content optimisation; testing designs for strength and fitness for purpose are an essential component.
- Testing to detect problems before they affect production, minimises wastage.



## Your choice of grips and fixtures

Mecmesin supplies a full range of approved grips and fixtures for use with all our systems and instruments.

However, in testing flexible, moulded or asymmetric items, custom grips are often required. We have an expert in-house design and manufacturing facility for these specific needs.

## Comprehensive product range

Our modular product range includes test systems, instruments and accessories designed and manufactured to suit all force and torque test applications and environments.

Test systems have three distinct designs to meet different user-interface requirements, computer-controlled, touch screen controlled and motorised systems. Our systems measure force from 0.5 kN to 50 kN and torque from a few mN.m to 10 N.m.

For less exacting applications we have a range of force and torque gauges and table top manually operated instruments measuring up to 2.5kN and 10N.m respectively.



## Support and services

Our team of expert applications and service engineers are there to support you with a range of professional services. We can help you select the right test solution, including grips and fixtures, provide demonstrations, pre-program your system, install and train users, followed by full after-sales service.

- Comprehensive global network of international distributors
- 24 month warranty
- On-site installation and training
- Application support
  
- Online helpdesk live web chat
- Calibration and service centre
- Custom built systems
- Bespoke grips and fixtures



## Compression

### **Compression plates**

Compression plates must be suited to the sample contact area. Nickel plated compression plates have a coating, which helps to prevent rust. 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 springs. The rubber-faced compression plate has a protecting layer, which helps to prevent damage from metal-to-metal contact during a compression test. Self-levelling compression plates are ideal for general compression testing on a range of materials and finished products. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample. Vented compression plates are ideal for top-load/crush testing of containers such as PET bottles, releasing any potential increase in internal pressure.

### **Probes**

Probes are designed primarily for penetration and puncture resistance testing, with tip profiles suitable for many different materials and functions. Load buttons on extension rods can perform the same function, or measure the compressive strength for example in small samples, or push-button switches.

### **Flexure/bend jigs**

Flexure jigs provide standards-compliant means for single and multi-point bend tests, with rounded contact anvils.

### **Dedicated compression fixtures**

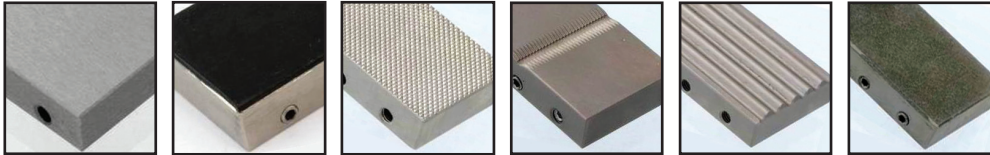
Dedicated compression fixtures provide appropriate attachment or holding of specific kinds of sample, for example long flexible springs, or bite simulation.



## Tension

### Jaw grips

Jaw grips are primarily used in tensile testing, though vice grips may equally be used to hold a sample for certain compression tests, such as under a probe for penetration resistance, or a switching force. Jaw faces may be interchangeable with blank (smooth) faces or different profiles, such as wave-form or pyramidal, for better gripping various samples.



*Blank*

*Rubber*

*Pyramid*

*' V '*

*Wave*

*Diamond*

### Pinch grips

Pinch grips are designed for small-area contact to grip a sample, and are hinged with a screw-adjustable mechanism.

### Toggle clamps

Toggle clamps are secured by means of a handle that closes one vice jaw against another that is positioned by a screw. Gripping and releasing a sequence of samples is quick, easy and predictable. Typically used for gripping fabrics, the jaws may be purposely asymmetrical.

### Vice grips (single action, one face screwed in parallel against the other)

Vice grips have one fixed face against which a parallel and equal face is tightened. The position of the fixed face may be adjustable. They may be manually screw-operated, or pneumatic.

### Double-action vice grips (plane grips)

Double-action vice grips have two equally mobile parallel jaws to enable in-plane alignment of the test sample. They are typically used in pairs. They may be manually screw-operated, or pneumatic.

### Wedge grips (defined by their shape and axial jaw movement)

Wedge grips are designed such that under tension the sample draws the two jaw faces tighter together in a firmer grip. Initial grip is achieved by screw, lever or pneumatic action.

## Tension (continued)

### **Belt and strap grips**

Belt and strap grips are typically of a split-bollard type in order to provide a rounded, smooth-surface, self-tightening grip.

### **Bollard grips**

Roller or bollard grips provide a rounded surface against which a sample is held in tension, to prevent cutting, indentation or tearing.

### **Cam grips**

Cam grips operate by virtue of one or two opposing eccentric bollards increasing their tightness under tension. They may be spring-loaded or lever-action for quick insertion and release.

### **Chucks**

Chucks are designed to either grip a cylindrical test sample directly, or to grip a thin probe, such as a needle for penetration testing.

### **Claw grips**

Claw grips engage the top of a sample under tension, to minimise lateral compression, or to help grip irregular objects.

### **Flexible links**

Flexible links are added into tension fixturing to allow a certain amount of lateral movement for maintaining natural axial alignment, for example as a sample straightens, peels or tears, or when using a hand-held gauge instrument.

### **Hooks**

Round hooks are suitable for samples with loops, such as some springs, 'o' rings and seals, or for attaching flexible links such as chains to allow for lateral movement under test. Peg hooks can engage smaller attachment holes in thinner and stiffer samples than round hooks.

### **Scissor grips**

Scissor grips are self-tightening and self-aligning, the sample initially being held by light spring tension. The ratio of clamping force to tensile force changes in proportion to opening width. The wider the opening, the stronger the grip on the sample.

## Dedicated tension fixtures

### **Flexure/bend jigs**

Flexure jigs provide standards-compliant means for single and multi-point bend tests, with rounded anvils.

### **Coefficient of friction**

Dedicated jigs for measuring coefficient of friction between two surfaces, ensure compliance with international and industry test standards for accuracy and repeatability. They are used for measuring both static and kinetic friction.

### **Peel jigs**

Peel testing jigs are usually to a design specified by international test standards and methods, and a specific type or angle of peel test.

### **Pull-off/pull-out fixtures**

These dedicated tension fixtures provide appropriate attachment or holding of specific kinds of sample, for example, fabric fasteners and adornments, corks, and container caps.

## Torque

Torque grips are designed to hold a sample vertically and precisely about its rotational axis. Choice of grip depends on the symmetry and shape of the sample. If a suitable standard fixture cannot be found, custom grips can be designed and made by Mecmesin engineers. Mandrels for any profile of closures can be designed and manufactured to specification.

### Fixing tables

Torque fixing tables are typically 4-peg grips, adjustable for centring test samples about the rotating axis. They attach to either the torque cell or the test stand spindle.

### Saddle plates

Saddle plates fit onto fixing tables to provide a stable flat base for test samples.

### V-blocks

V-blocks present V-angled jaws at 180° to a rounded sample to achieve a centred, vertical clamp.

### Chucks

Chucks are designed to either grip a cylindrical test sample directly, or (pin chucks) to grip a thin probe, such as a needle for penetration testing. Torque screwdrivers normally employ chuck fixtures.

### Mandrels

Mandrels match the profile of screw-top closures for an exact fit. These are usually made to the user's specific design requirement.

### Calibration check rig

A calibration check rig will indicate whether a torque cell lies within acceptable tolerance limits of its calibration, to verify accuracy between recalibration periods.

# Quick Change QC fittings

## How QC fittings work

QC fittings are mainly to standard post diameters of 20 mm or 32 mm. Smaller fixtures may have a QC diameter of 15.9 mm, for which you will require a QC converter.

The fixture is presented to the post, and a pin inserted through holes in the fixture sleeve and post, and secured with a clip.



Lighter QC fixtures can be mounted on a simple post (Type A or J) attached directly to either a loadcell or stand anvil by means of a grub screw. Whilst this is simpler, the orientation of the securing pin may not be ideal.



432-282



432-418

Larger fixtures are mounted onto a post with a broader base (Type C or L). This base is screw-mounted onto the anvil or stand base, and requires an additional single-screw mounting plate for attachment to a loadcell. These QC mounts also have a screw collar for tightening the fixture against the locking pin.



432-284



432-451

To convert a non QC type grip to a QC type, attach a female sleeve (Type B or K) to the grip.



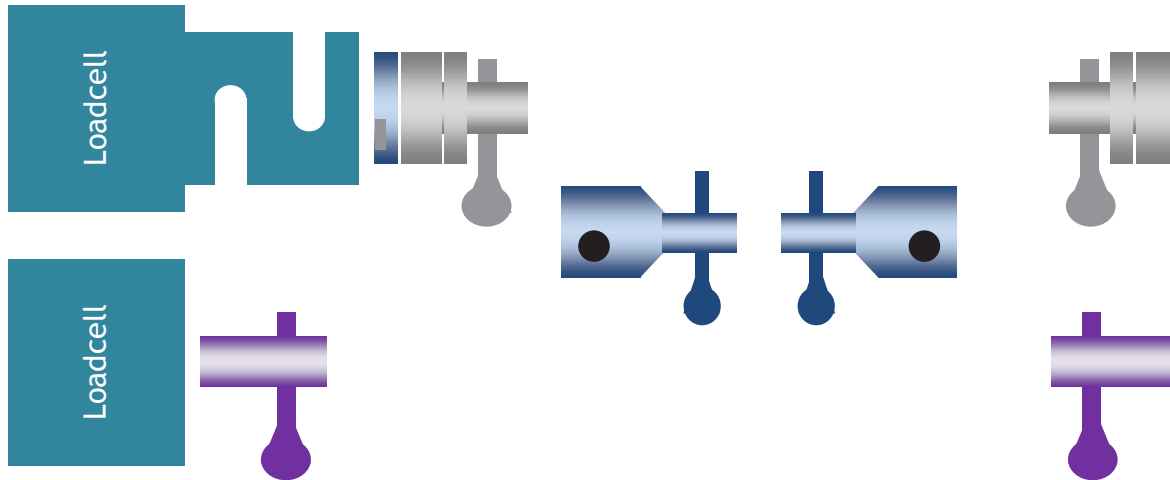
432-429

\*Take great care when selecting grips for use with loadcells below 50 N to avoid risk of overload.



## Loadcell QC fitting

Loadcell	Capacity	Thread	Mounting plate	Part no.	Post & pin	Post Ø	Part no.
ILC/gauge	0.5–5 kN*	5/16 UNC	N/A	N/A	Type A	20 mm	432-282
ILC/gauge	0.5–5 kN*	10-32 UNF	N/A	N/A	Type J	20 mm	432-418
ILC-S	100 N, 200 N	M6	Type M	432-452	Type C	20 mm	432-284
ILC-S	500 N	M6	Type D	432-285	Type C	20 mm	432-284
ILC-S	1 kN	M10	Type E	432-286	Type C	20 mm	432-284
ILC-S	2.5 kN, 5 kN	M12	Type F	432-287	Type C	20 mm	432-284
ILC-T	10 kN	M12		Type F	Type C	20 mm	432-284
ILC-T	25 kN	M16		Type G	Type C	20 mm	432-284
ILC-P	20 kN, 50 kN	M18		N/A	Type L	32 mm	432-451



QC fitting, loadcell and anvil / stand base schematic

## QC Converters

Sleeve Ø	Post Ø	Type	Part no.	Sleeve Ø	Thread	Type	Part no.
20 mm	15.9 mm	Type N	Mec187-158-M-20	20 mm	M12	Type B	432-283
				20 mm	5/16 UNC	Type K	432-429

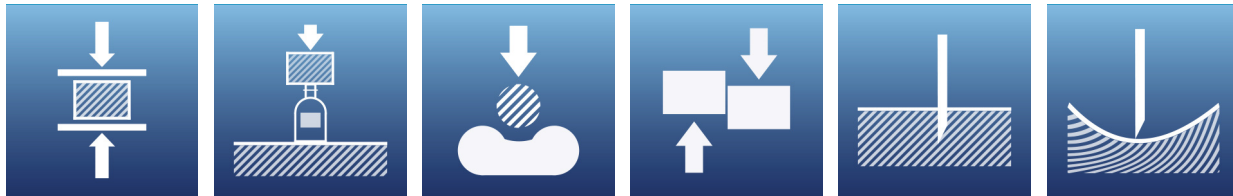
(please ask if you need other size converters)

## Stand QC fitting

Stand capacity	Post & pin	Post Ø	Part no.
MultiTest 0.5 kN to 5 kN	Type A (or J)	20 mm	432-282 (418)
MultiTest 0.5 kN to 25 kN	Type C	20 mm	432-284
MultiTest 50 kN	Type L	32 mm	432-451

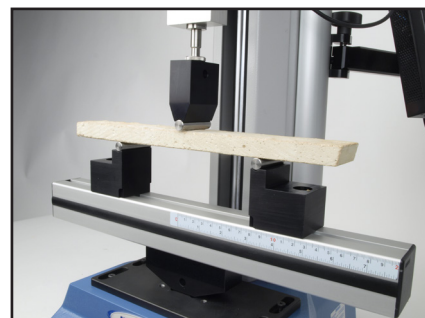
## Compression

Compression testing takes many forms, from testing the hardness or compressive strength of a material or manufactured product, to how it deforms and/or recovers, or its resistance to penetration. Compression testing can be used to test an insertion force or sharpness of a needle, or the strength of an adhesive bond under shear. Measuring these forces requires test systems and fixtures that ensure precise repeatability through correct alignment and gripping.



### Types of compression test for which we can supply fixtures

- ultimate compressive strength
- break stress
- single pellet crush
- top-load (column) crush
- box crush (BCT)
- edge crush (ECT)
- ring crush (RCT)
- compressibility and recovery
- top load, glass containers
- lap shear under compression
- double sandwich shear
- compressive shear
- laminates compressive shear stress
- puncture shear
- three-point bend
- four-point bend
- cantilever bend
- ball burst
- short span compression
- short beam shear strength
- needle penetration
- cone penetration
- compressive hardness
- compressive hardness
- penetration resistance
- circular bend
- compressive strength
- five point bend
- flat crush (FCT)
- compressive deformation
- pinch
- bursting strength (sheet rupture)
- puncture resistance
- compressive burst



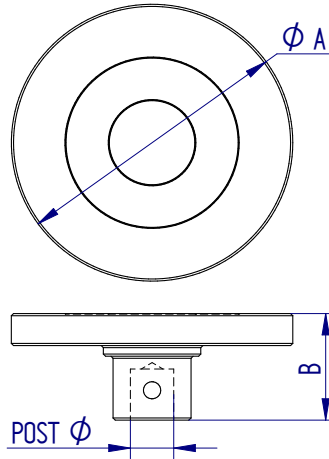
# Compression plates: fixed Compression

## Hardened and Ground Compression Plate, QC fitting

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.

### Applications:

- springs
- cans
- bottles
- polymer foams



[QC](#) [DATASHEET](#)

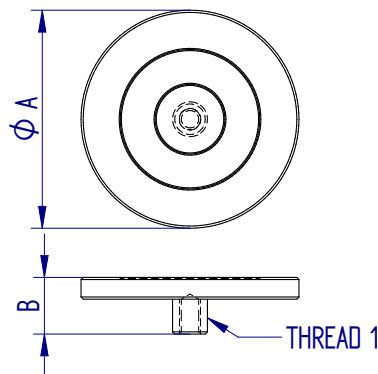
Part No.	Load Capacity			Post $\phi$	Diameter ( $\phi A$ )		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		mm	in	mm	in	kg	lb
432-342	5 kN	500 kgf	1100 lbf	QC 20 mm	130 mm	5.12"	45 mm	1.77"	3.2 kg	7.05 lb
432-480	5 kN	500 kgf	1100 lbf	QC 20 mm	50 mm	1.97"	45 mm	1.77"	—	—

## Nickel-Plated Compression Plates

Nickel plated compression plates are resistant to rusting.

### Applications:

- metals
- cubes
- cement
- cylinders
- mortar
- plaster

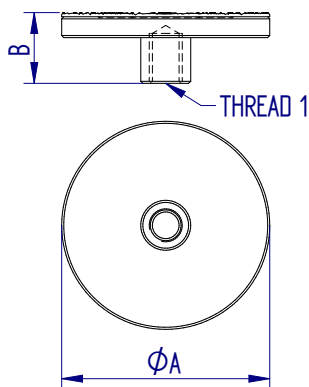


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Diameter ( $\phi A$ )		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		mm	in	mm	in	g	lb
432-119	5 kN	500 kgf	1100 lbf	10-32 UNF	12 mm	0.47"	12 mm	0.47"	6 g	0.01 lb
432-188-F95	5 kN	500 kgf	1100 lbf	M6	12 mm	0.47"	12 mm	0.47"	5 g	0.01 lb
432-121	5 kN	500 kgf	1100 lbf	10-32 UNF	19 mm	0.75"	16 mm	0.63"	12 g	0.03 lb
432-125	5 kN	500 kgf	1100 lbf	5/16 UNC	19 mm	0.75"	19 mm	0.75"	17 g	0.04 lb
432-005	5 kN	500 kgf	1100 lbf	M6	19 mm	0.75"	16 mm	0.63"	10 g	0.02 lb
432-343	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	79 g	0.17 lb
432-344	5 kN	500 kgf	1100 lbf	5/16 UNC	50mm	1.97"	16 mm	0.63"	84 g	0.19 lb

# Compression plates: fixed

## Compression



### Rubber-Faced Compression Plates

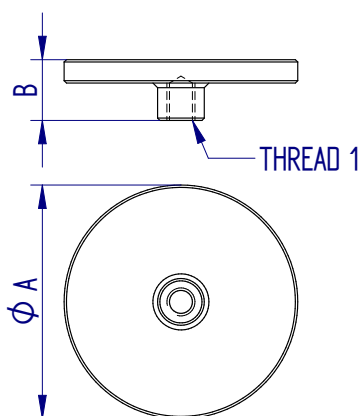
The rubber-faced compression plate has a rubber layer which helps to prevent damage to the sample that would occur from metal contact during a compression test. Also increases grip at the point of force application on low friction or curved specimens.

#### Applications:

- metals
- glass
- slippery or curved samples

#### DATASHEET

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	kN	kgf	lbf		mm	in	mm	in	g	lb
432-219	2.5	250	550	5/16 UNC	50	1.97"	17	0.67"	84	0.19
432-220	5	500	1100	10-32 UNF	50	1.97"	13	0.51"	—	—



### Hardened and Ground Compression Plates

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.

#### Applications:

- springs
- cans
- bottles
- polymer foams

#### DATASHEET

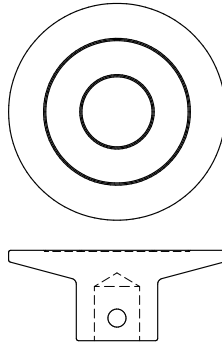
Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	kN	kgf	lbf		mm	in	mm	in	g	lb
432-197	5	500	1100	M6	50	1.97"	13	0.51"	—	—
432-336	5	500	1100	10-32 UNF	12	0.47"	12	0.47"	6	0.01
432-337	5	500	1100	10-32 UNF	19	0.75"	12	0.47"	12	0.03
432-338	5	500	1100	5/16 UNC	70	2.76"	20	0.79"	301	0.66
432-341	5	500	1100	5/16 UNC	100	3.94"	20	0.79"	624	1.37
432-446	5	500	1100	5/16 UNC	175	6.89"	20	0.79"	2	4.41
432-172-F95	5	500	1100	10-32 UNF	50	1.97"	13	0.51"	—	—



# Compression plates: fixed Compression

## Phosphated Compression Plates, QC fitting

Phosphate-coated hardened steel compression plates are available in a range of diameters, and with male or female QC-fittings. Sold in pairs, they can also be combined with self-levelling plates.

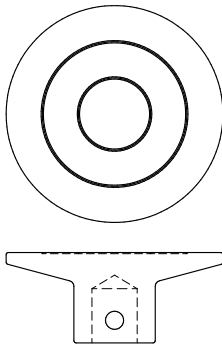


[QC](#) [DATASHEET](#)

<b>Part No.</b>	Please see data sheet for full details
Mec23	

## Aluminium Compression Plates, QC fitting

Anodised aluminium compression plates are available in a range of diameters, and with male or female QC-fittings. Sold in pairs, they can also be combined with self-levelling plates.

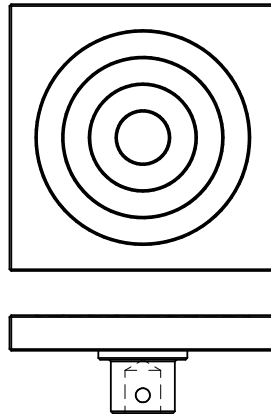


[QC](#) [DATASHEET](#)

<b>Part No.</b>	Please see data sheet for full details
Mec23	

# Compression plates: fixed

## Compression

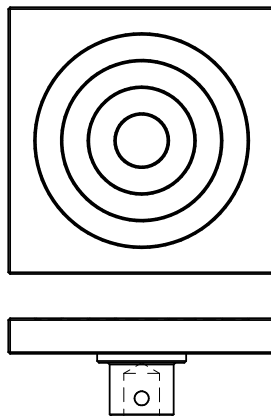


### Phosphated Rectangular Compression Plates, QC fitting

Phosphate-coated hardened steel compression plates are available in a range of dimensions, square and rectangular, and with male or female QC-fittings. Sold in pairs, they can also be combined with self-levelling plates.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec36	

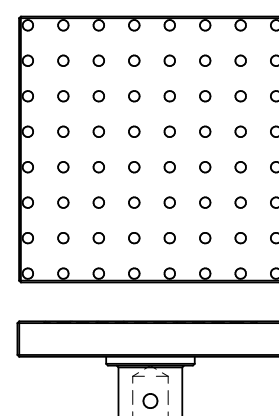
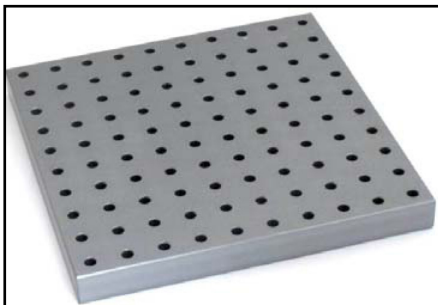


### Aluminium Rectangular Compression Plates, QC fitting

Anodised aluminium compression plates are available in a range of dimensions, square and rectangular, and with male or female QC-fittings. Sold in pairs, they can also be combined with self-levelling plates.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec36	



### Perforated Compression Plates, QC fitting

Perforated aluminium compression plates are used for compressing porous materials such as polymer foams. Supplied singly they can be paired with rigid or self-levelling plates. QC fitting.

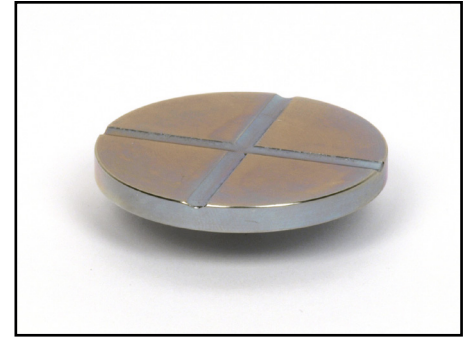
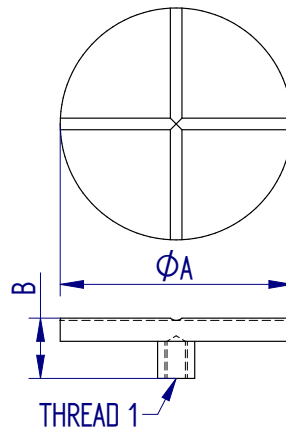
[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec36	

# Compression plates: fixed & vented Compression

## Slotted Compression Plates

Slotted compression plates allow for escape of air from containers under top-load testing where a centring cone is unsuitable.

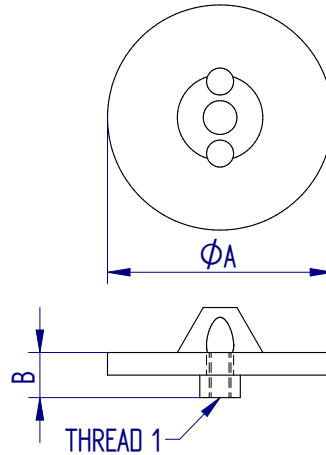


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Diameter ( $\Phi A$ )		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb
432-346	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb

## Vented Compression Plates

Vented compression plates are ideal for top-load/crush testing of containers such as PET bottles. Two circular vents allow air to escape from the container during compression and an integrated nose cone helps to position containers centrally.



[DATASHEET](#)

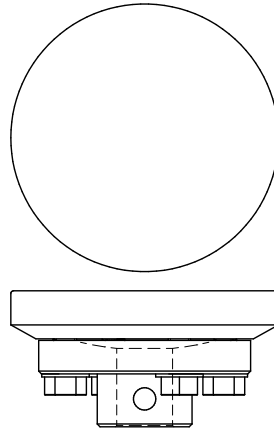
### Applications:

- plastic bottles
- PET containers

Part No.	Load Capacity			Thread 1	Diameter ( $\Phi A$ )		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		50 mm	1.97"	10 mm	0.39"	50 g	0.11 lb
432-347	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	10 mm	0.39"	50 g	0.11 lb
432-348	5 kN	500 kgf	1100 lbf	5/16 UNC	50 mm	1.97"	10 mm	0.39"	50 g	0.11 lb

# Compression plates: self-levelling

## Compression

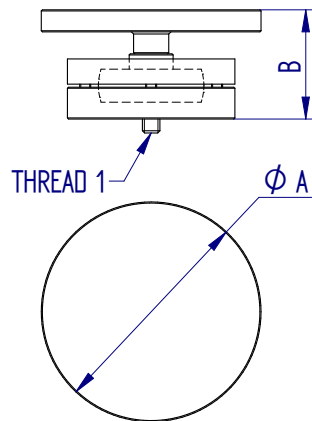


### Spherically-Seated Self-levelling Compression Plates, QC fitting

Spherically-seated self-levelling compression plates are ideal for general compression testing on a range of materials and finished products. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample, or where the sample has faces that are not exactly parallel and conventional plates would put an undue load on a very small area, causing a premature failure. QC fitting.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec223	



### Self-levelling Compression Plates

Self-levelling compression plates are ideal for general compression testing on a range of materials and finished products. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample, or where the sample has faces that are not exactly parallel and conventional plates would put an undue load on a very small area, causing a premature failure.

#### Applications:

- metals
- cylinders
- springs
- cans
- polymer foams
- curved-face samples

[DATASHEET](#)

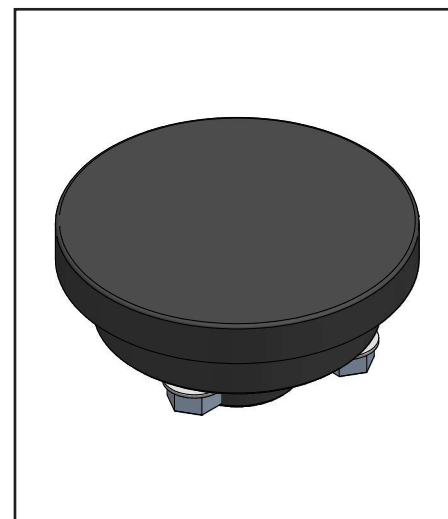
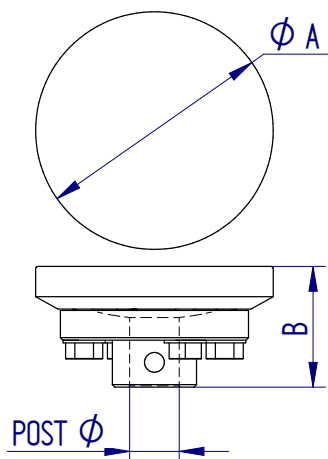
Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	kN	kgf	lbf		mm	in	mm	in	g	lb
432-349	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	38 mm	1.50"	450 g	0.99 lb
432-350	5 kN	500 kgf	1100 lbf	5/16 UNC	70 mm	2.76"	50 mm	1.97"	—	—
432-351	5 kN	500 kgf	1100 lbf	5/16 UNC	100 mm	3.94"	50 mm	1.97"	—	—
432-352	5 kN	500 kgf	1100 lbf	5/16 UNC	175 mm	6.89"	50 mm	1.97"	2.2 kg	4.9 lb



# Compression plates: Self-levelling Compression

## Self-levelling Compression Plates, QC fitting

Hardened steel compression plates have a smooth, scratch-proof surface ideal for compression testing on samples that could damage a standard compression plate. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample, or where the sample has faces that are not exactly parallel and conventional plates would put an undue load on a very small area, causing a premature failure.



### Applications:

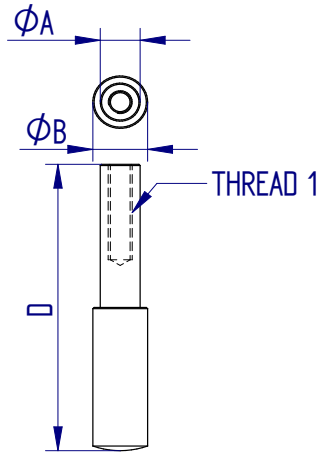
- springs
- cans
- foams
- curve-faced samples

[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post $\phi$	Diameter ( $\phi A$ )		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		100 mm	3.94"	82 mm	3.23"	3.3 kg	7.3 lb
432-353				QC 20 mm						

# Compression Probes

## Compression



### Radiused Probes

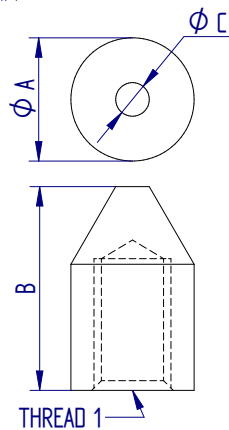
Radiused probes are used to perform penetration or puncture tests on a wide range for texture products. Aspects measured include firmness and ripeness of foods. Also used for cosmetics and similar products with measured texture attributes.

#### Applications:

- Baked goods
- Fruit and vegetables
- Cosmetics
- Dairy products
- Confectionery
- Gels

### DATASHEET

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Diameter (ØB)		Length (D)	
	N	kgf	lbf		mm	"	mm	"	mm	"
432-354	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	8 mm	0.31"	60 mm	2.36"
432-355	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	11 mm	0.43"	60 mm	2.36"



### Cone Probes

Cone points are designed for puncturing, spreading and compressing samples.

#### Applications:

- Packaging
- Food products
- Cosmetics

### DATASHEET

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Diameter (ØC)		Weight	
	N	kgf	lbf		mm	"	mm	"	mm	"	g	lb
432-358	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14 mm	0.55"	0.5 mm	0.02"	2 g	0.004 lb
432-359	2.5 kN	250 kgf	550 lbf	5/16 UNC	12.7 mm	0.5"	21mm	0.83"	3.5 mm	0.14"	12 g	0.027 lb

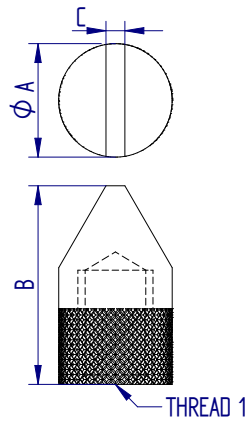
# Compression Probes Compression

## Chisel Point Probes

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

### Applications:

- Packaging
- Food products
- Cosmetics



### DATASHEET

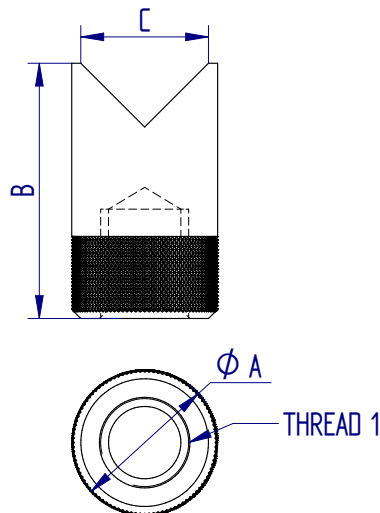
Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Tip Width (C)		Weight	
	500 N	50 kgf	110 lbf		8 mm	0.31"	14 mm	0.55"	0.5 mm	0.02"	3 g	0.007 lb
432-360	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14 mm	0.55"	0.5 mm	0.02"	3 g	0.007 lb
432-361	2.5 kN	250 kgf	550 lbf	5/16 UNC	12 mm	0.47"	21 mm	0.83"	2 mm	0.08"	12 g	0.027 lb

## Inverted Chisel Point

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

### Applications:

- Pipes
- Tubes

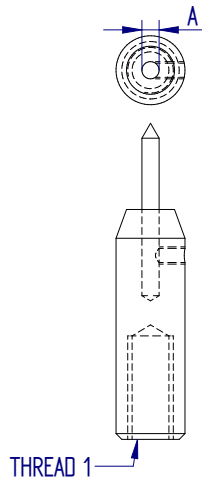


### DATASHEET

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Width (C)		Weight	
	500 N	50 kgf	110 lbf		8 mm	0.31"	14 mm	0.55"	7 mm	0.28"	3 g	0.006 lb
432-356	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14 mm	0.55"	7 mm	0.28"	3 g	0.006 lb
432-357	2.5 kN	250 kgf	550 lbf	5/16 UNC	12 mm	0.47"	21 mm	0.83"	10 mm	0.39"	13 g	0.029 lb

# Compression Probes

## Compression



### Adapter and Needle Set

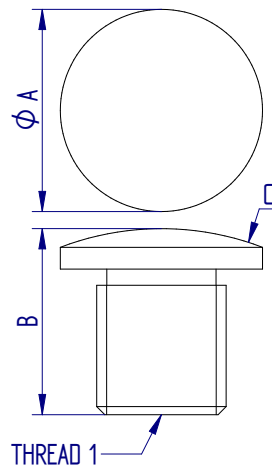
For use with the Mecmesin shotcrete penetrometer to test sprayed or poured concrete during the first few hours of development as a reliable indication of compressive strength.

#### Applications:

- sprayed concrete

#### DATASHEET

Part No.	Thread 1	Diameter (ØA)	
		3 mm	0.118"
432-504	5/16 UNC		



### Load Buttons

Mecmesin load buttons come in a range of sizes and are used for compression testing applications where limited space restricts access to the loadcell.

#### Applications:

- Any compression test

#### DATASHEET

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Radius (C)		Weight	
	500 N	50 kgf	110 lbf		14 mm	0.55"	14 mm	0.55"	20 mm	0.79"	6 g	0.01 lb
432-075	500 N	50 kgf	110 lbf	M6	14 mm	0.55"	14 mm	0.55"	20 mm	0.79"	6 g	0.01 lb
432-064	1 kN	100 kgf	225 lbf	M10	16 mm	0.63"	13 mm	0.51"	17.5 mm	0.69"	11 g	0.02 lb
432-065	10 kN	1000 kgf	2200 lbf	M12	16 mm	0.63"	11.5 mm	0.45"	17.5 mm	0.69"	10 g	0.02 lb
432-110	50 kN	5000 kgf	11000 lbf	M24	32 mm	1.26"	27 mm	1.06"	52 mm	2.05"	104 g	0.23 lb
432-114	50 kN	5000 kgf	11000 lbf	M36	75 mm	2.95"	35 mm	1.38"	90 mm	3.54"	663 g	1.46 lb
432-115	25 kN	2500 kgf	5500 lbf	M16	25 mm	0.98"	23 mm	0.91"	35 mm	1.38"	38 g	0.08 lb

## 10 kN 3-Point Bend Jig, QC fitting

The 10 kN 3-point bend jig is ideal for performing a variety of flexure tests on medium-stiffness samples. It includes two lower support-anvils, which are adjustable and one upper anvil to apply load to the sample. The support beam is graduated lengthways in metric and imperial units for accurate positioning of the anvils.

### Applications:

- ceramics
- composites
- flexible sheet materials
- glass
- plastics
- films
- wood



[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Anvil Width			Anvil Radius		Bending Span		Length		Weight	
432-266	10 kN	1000 kgf	2200 lbf	QC 20 mm	58 mm	2.28"	5 mm	0.2"	24 mm - 300 mm	0.94" - 11.81"	380 mm	14.96"	12.4 kg	29.46 lb	

## 2.5 kN 3-Point Bend Jig

The 2.5 kN 3-point bend jig is an easy-to-use fixture that relies on the test machine to maintain alignment between the top and bottom parts.

### Applications:

- composites
- plastics
- flexible sheet materials
- wood
- films



[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Anvil Width		Anvil Radius		Bending Span		Length	
432-151	2.5 kN	250 kgf	550 lbf	10-32 UNF	45 mm	1.77"	10 mm	0.04"	10 mm - 300 mm	0.39" - 11.81"	405 mm	15.9"

## 1 kN 3-Point Bend Jig

The 1 kN 3-Point bend jig is a lightweight three-point bend assembly with 60 mm high arms and 120 mm support span. Ideal for most snapping applications including food texture applications. Recommended for use with 'S' Beam type load cells where forces are below 1 kN.

### Applications:

- food products
- circuit boards



[DATASHEET](#)

Part No.	Load Capacity			Anvil Width		Anvil Radius		Weight	
432-248	1 kN	100 kgf	225 lbf	120 mm	4.7 mm	1.5 mm	0.059"	653 g	1.43 lb
432-294	Base plate to attach bend jig to test stand							792 g	1.75 lb



# Bend Fixtures Compression

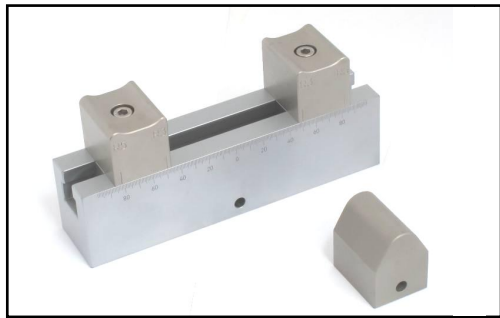


## Mec22 50 kN Bend Jig, QC fitting

A 50 kN bending fixture in aluminium, with a bending span of 330 mm and a beam width of 100 mm. The main support bears two Type AX anvils, and an upper OX anvil, with 10 mm, 20 mm and 30 mm diameter rollers as standard. The addition of an upper anvil support converts this to a 4-point or 5-point bend jig. Attaches to QC adapter mounts.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec22	

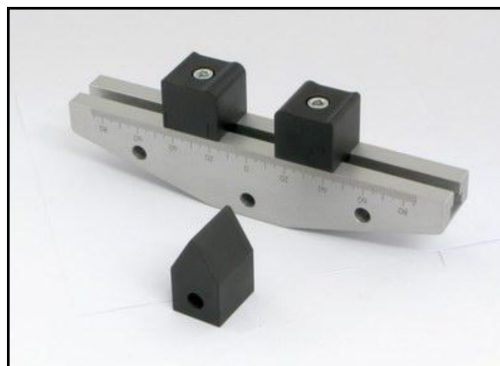


## Mec103 50 kN Bend Jig, QC fitting

A 50 kN bending fixture in steel, with a bending span of 120 mm and beam width of 50 mm. The main support bears two Type A nickel-plated steel anvils, each with two milled radii of 3 mm and 5 mm. The upper anvil is radius 10 mm. The addition of an upper anvil support converts this to a 4-point bend jig. The jig fits 20 mm QC adapters.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec103	



## Mec238 2.5 kN Bend Jig, QC fitting

A 2.5 kN small bending system in aluminium, with a bending span of 4 mm – 150 mm and a beam width of 30 mm. Supplied with Type A anvils with a radius pair of 2 mm and 3 mm, and an upper anvil of radius 2 mm. The addition of an upper anvil support converts this to a 4-point bend jig. Fits QC 15.9 mm adapters.

[DATASHEET](#) [QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec238	

## Bend jigs to your own specification

Bend jigs can be assembled to user specification to achieve these requirements:

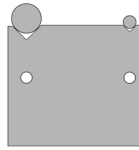
- load rating
- anvil edge type
- anvil height
- individual positioning of anvils, or by centric gearing
- bending span width
- anvil movement type
- 3, 4 or 5-point bend capability
- anvil mount type
- anvil width

Certain anvil types allow a rocking movement, adjustable angle (articulated), or flat sideways movement. For sharp angle bending (e.g. to 160°) long-fin anvils are available, along with other specialised anvils. Standard anvil types are shown below. (Roller size is denoted by diameter, milled edges by radius.)

### Type A: dual-radius

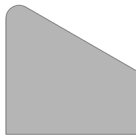


A: milled edge

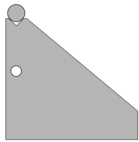


AX: v-notch roller bearings

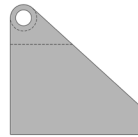
### Type C: single radius



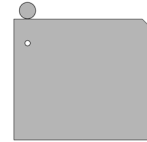
C: milled edge



CX: v-notch roller



CL: captive roller

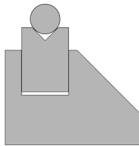


CM: roller free to traverse

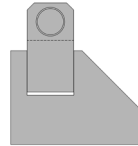
### Type CW, carrier style



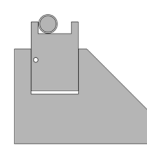
CW: milled edge



CWX: v-notch roller

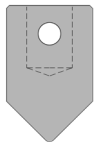


CWL: captive roller

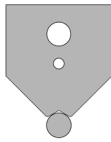


CWN: roller traverses to stop

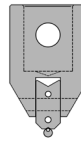
### Type O, upper anvil



O: milled edge



OX: v-notch roller bearing



OWX: carrier-style v-notch

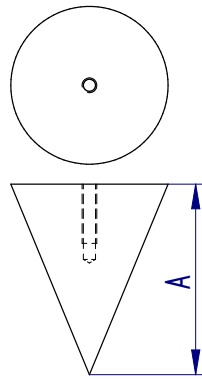
## How to specify your specific bend jig requirement

Let us know your requirement by:

- beam model: Mec22, Mec103, Mec238
- aluminium or steel, and finish (where available)
- the beam length (longer beam lengths are available for certain jigs)
- anvil mount type as above (A, C, CW, O, OW and X, L, M, N)
- the upper and lower anvil radii (milled) or diameters (rollers)
- any special requirements such as anvil height or width, or movement
- if you require centric gearing (Mec103 only)
- if you require an upper support for two anvils for 4-point or 5-point testing
- the QC coupling size (15.9 mm, 20 mm or 32 mm)

For full details and examples, refer to the datasheets for the three base models: Mec238, Mec103 and Mec22.

# Puncture jigs Compression



## Perspex 45° Cone Probe with Extension Rod

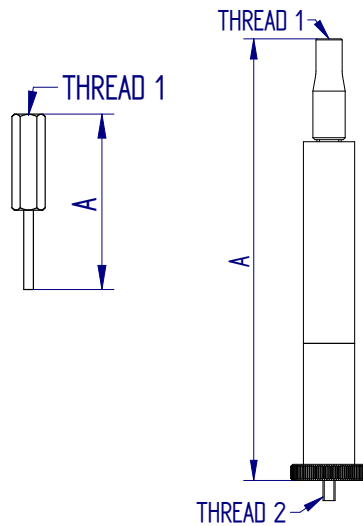
The perspex cone probe has a 45° angle, and is used for texture testing to assess characteristics such as hardness and spreadability.

### Applications:

- food products
- cosmetics

### DATASHEET

Part No.	Load Capacity			Thread 1	Thread 2	Height (A)		Weight	
	N	kgf	lbf			mm	"	g	lb
432-081	200 N	20 kgf	45 lbf	M3	-	38.6 mm	1.52"	12 g	0.03 lb
432-100	200 N	20 kgf	45 lbf	10-32 UNF	M3	110 mm	4.33"	40 g	0.09 lb



## 2 mm Needle Probe with Extension Rod

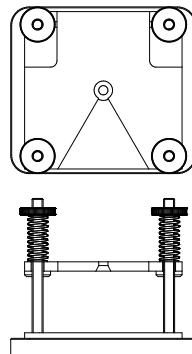
The needle probe is made from stainless steel and is designed for surface puncture and penetration tests.

### Applications:

- food products

### DATASHEET

Part No.	Load Capacity			Thread 1	Thread 2	Length (A)		Weight	
	N	kgf	lbf			mm	"	g	lb
432-087	100 N	10 kgf	22 lbf	M3	-	36.5 mm	1.44"	9 g	0.02 lb
432-100	100 N	10 kgf	22 lbf	10-32 UNF	M3	110 mm	4.33"	40 g	0.09 lb



## Puncture Test Jig

This jig is designed also to accommodate spherical or irregular samples. Three sizes of holding plate are supplied.

### Applications:

- films
- food products

### DATASHEET

Part No.	Load Capacity			Max. Sample (Ø)		Weight	
	N	kgf	lbf	mm	"	g	lb
432-243	200 N	20 kgf	45 lbf	-	-	757 g	1.66 lb
432-244	200 N	20 kgf	45 lbf	47 mm	1.85"	693 g	1.52 lb

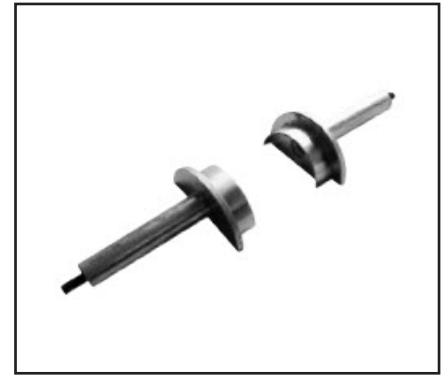
# Specialist compression fixtures

## Compression

### Simulated Child Jaws

Simulated child jaws comply with BS5239:1998 to imitate compressive force within a child's mouth. Grips are supplied in pairs.

No drawing available

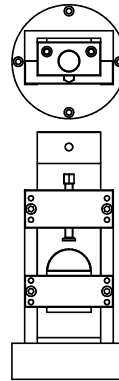


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Weight	
	500 N	50 kgf	110 lbf		177 g	0.32 lb
432-020	500 N	50 kgf	110 lbf	10-32 UNF	177 g	0.32 lb

### Wood Shear Test Jig, QC fitting

Wood shear test grips are used to maintain alignment in wood adhesive bonds, for testing to DIN 52367, ISO 6238, EN 392, EN 392, and BS 373. QC fitting. ASTM D143 version also available.



[QC](#)

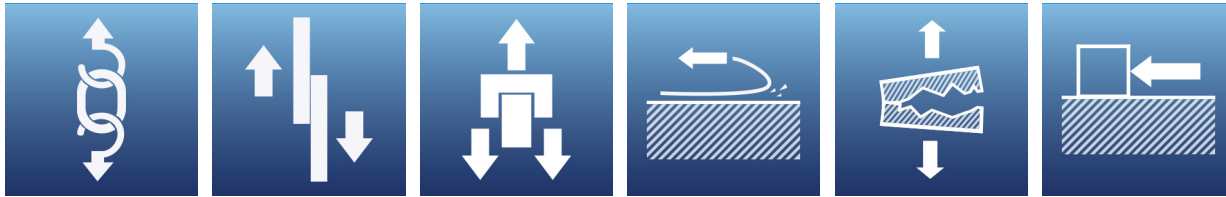
Part No.

Mec17

# Introduction Tension

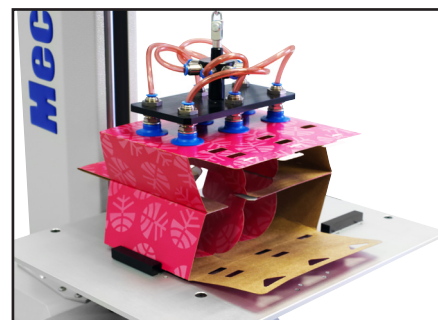
## Tension

Tension testing is used to measure the tensile strength of a material or manufactured product, to how it deforms and/or recovers under elongation, or the strength of an adhesive bond under shear or pull-off. Tension testing can be used to test the removal force for a crimped joint, the peel strength of flexible adhesive joints, resistance of sheet materials to tearing, or the coefficient of friction between surfaces. Measuring these forces requires test systems and fixtures that ensure precise repeatability through correct alignment and gripping.



### Types of tension test for which we can supply fixtures

- ultimate tensile strength
- tensile strength
- elongation at break
- yield point
- shear in tension
- laminates tensile shear stress
- T-peel
- 90 degree peel
- 180 degree peel
- moving table peel
- floating roller peel
- peel wheel test
- loop tack
- climbing drum peel
- single rip (trouser) tear
- double rip (tongue) tear
- trapezoidal tear
- wing tear (Winkelmann/Graves)
- single lap shear
- double lap shear
- friction, static and kinetic
- pull-off / pull-out
- butt joint
- parallel plate adhesion
- Delft tear
- tensile deformation
- 135 degree peel
- push-off / push-out
- grab method (fabrics)
- strip method (fabrics)

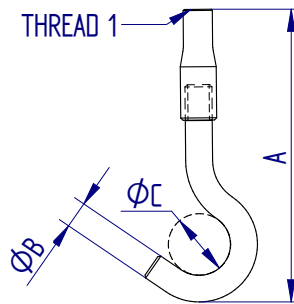


## Round Hooks

Round hooks are general purpose, suitable for any sample with a loop, eyelet or similar feature. Often used with a digital force gauge to perform tensile tests on tension springs.

### Applications:

- tension springs
- any sample with a loop or eyelet



[DATASHEET](#)

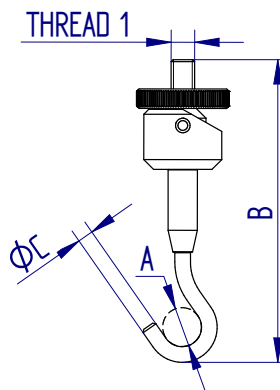
Part No.	Load Capacity			Thread 1	Diameter (ØB)		Max. Specimen Diameter (ØC)		Length (A)		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-118	50 N	5 kgf	11 lbf	10-32 UNF	3 mm	0.12"	8 mm	0.32"	39 mm	1.54"	20 g	0.04 lb
432-120	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	30 g	0.07 lb
432-122	2.5 kN	250 kgf	550 lbf	5-16 UNC	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	30 g	0.07 lb
432-169	500 N	50 kgf	110 lbf	M6	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	20 g	0.04 lb
432-171	50 N	5 kgf	11 lbf	M6	3 mm	0.12"	8 mm	0.32"	38 mm	1.50"	8 g	0.02 lb

## 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.

### Applications:

- tension springs



[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Max. Specimen Diameter (ØA)		Diameter (ØC)		Length (B)		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-391	500 N	50 kgf	110 lbf	10-32 UNF	14 mm	0.55"	6 mm	0.24"	83 mm	3.28"	50 g	0.11 lb
432-392	50 N	5 kgf	11 lbf	10-32 UNF	8 mm	0.32"	3 mm	0.12"	50 mm	1.97"	28 g	0.06 lb

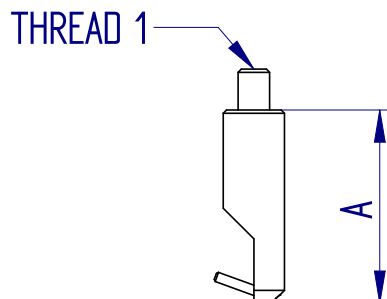
## Peg Hook

Peg hooks are designed for easy mounting of small and miniature tension springs. The extended peg hook is supplied with a flexible link.

Used for securely attaching samples of decorations when carrying out test-to-failure tests on textiles and clothing.

### Applications:

- tension springs
- clothing
- textiles

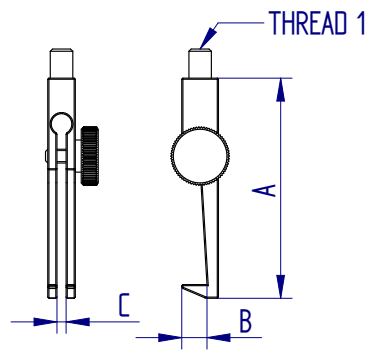


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Length (A)		Peg Length		Peg Ø		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-399	50 N	5 kgf	11 lbf	10-32 UNF	30 mm	1.18"	6 mm	0.24"	1.5 mm	0.06"	30 g	0.07 lb
432-181	50 N	5 kgf	11 lbf	10-32 UNF	97 mm	3.82"	9 mm	0.35"	2 mm	0.08"	42 g	0.09 lb



# Hooks Tension



## Adjustable Test Hook

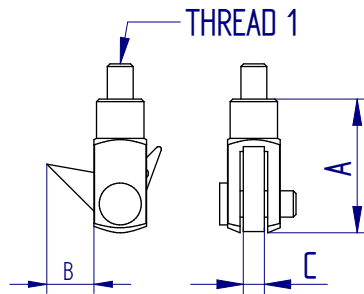
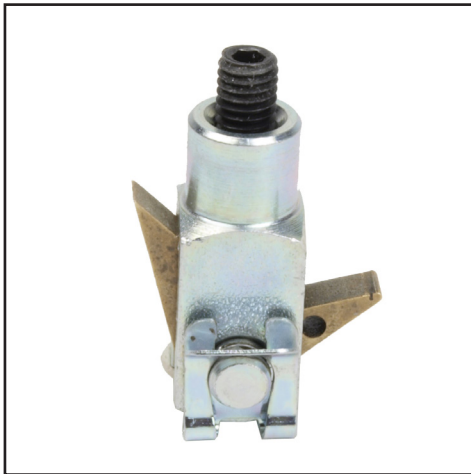
Used for securely holding smaller crimp terminals for tests to BSI spec. BS5G178 PART 1 and equivalent international standards.

### Applications:

- crimp terminals

### DATASHEET

Part No.	Load Capacity			Thread 1	Hook Depth (B)		Jaw Capacity (C)		Length (A)		Weight	
	50 N	5 kgf	11 lbf		5.5 mm	0.217"	2 mm	0.08"	48 mm	1.89"	13 g	0.03 lb
432-380	50 N	5 kgf	11 lbf	10-32 UNF	5.5 mm	0.217"	2 mm	0.08"	48 mm	1.89"	13 g	0.03 lb



## Flip Cap Accessory

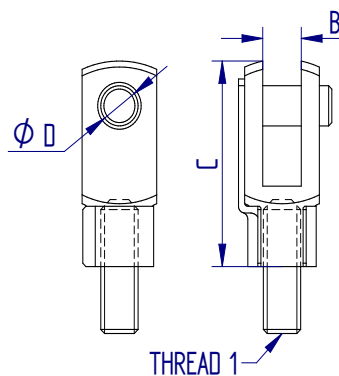
Designed to easily fit under bottle flip caps when testing their opening force.

### Applications:

- flip caps used in packaging

### DATASHEET

Part No.	Load Capacity			Thread 1	Hook Depth (B)		Hook Width (C)		Length (A)		Weight	
	100 N	10 kgf	22 lbf		9 mm	0.35"	4 mm	0.16"	25.5 mm	1.00"	17 g	0.04 lb
432-419	100 N	10 kgf	22 lbf	10-32 UNF	9 mm	0.35"	4 mm	0.16"	25.5 mm	1.00"	17 g	0.04 lb



## Clevis Fastener

Used for testing heavy duty tension springs or for securing odd-shaped parts

### Applications:

- tension springs

### DATASHEET

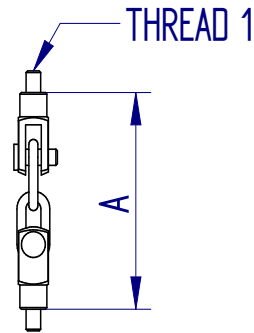
Part No.	Load Capacity			Thread 1	Width (B)		Pin Diameter (ØD)		Length (C)		Weight	
	500 N	50 kgf	110 lbf		6 mm	0.20"	6 mm	0.24"	31 mm	1.22"	—	—
432-216	500 N	50 kgf	110 lbf	M6	6 mm	0.20"	6 mm	0.24"	31 mm	1.22"	—	—
432-400	2.5 kN	250 kgf	550 lbf	M8	8 mm	0.31"	8 mm	0.31"	42 mm	1.65"	90 g	0.20 lb
432-403	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
432-443	5 kN	500 kgf	1100 lbf	M12	12 mm	0.47"	12 mm	0.47"	62 mm	2.44"	250 g	0.55 lb

## Chain Link Assembly

The chain link assembly is used for flexible alignment and connection of other accessories, in particular manual handling test applications. The 500 N capacity version is often used for ease of sample loading with lightweight vice grips, vice clamps and wedge grips.

### Applications:

- manual handling

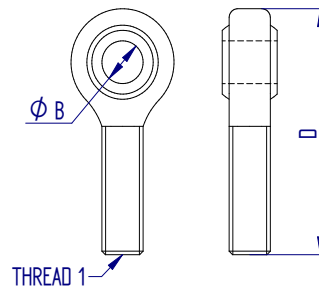


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Length (A)		Weight	
	500 N	50 kgf	110 lbf		68 mm	2.68"	32 g	0.07 lb
PSV8057	2.5 kN	250 kgf	550 lbf	5/16 UNC	130 mm	5.12"	158 g	0.35 lb

## Rod End Bearing

Rod end bearings are used to align heavy samples so they remain stable during loading.

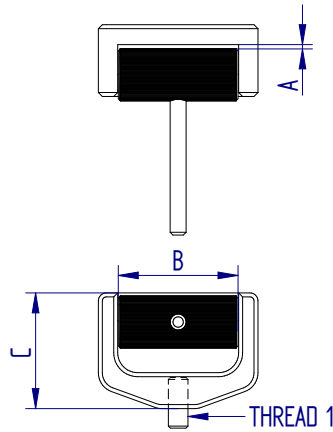


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Diameter (ØB)		Length (D)	
	25 kN	2500 kgf	5500 lbf		16 mm	0.63"	85 mm	3.35"
432-366	10 kN	1000 kgf	2200 lbf	M12	12 mm	0.47"	69 mm	2.72"
432-367	5 kN	500 kgf	1100 lbf	M10	10 mm	0.39"	62 mm	2.44"
432-368	50 N	5 kgf	11 lbf	M24	24 mm	0.94"	126 mm	4.96"
432-369	1 kN	100 kgf	225 lbf	M6	6 mm	0.24"	46 mm	1.81"
432-370	100 kN	10000 kgf	22000 lbf	M36	36 mm	1.42"	181 mm	7.13"

# Cam grips

## Tension



### Lever-operated Cam Grip

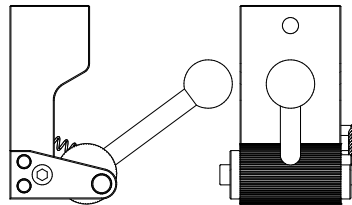
Lever-operated cam grips are designed to self-tighten as load is applied, and spread the load evenly. The lever also allows for quick insertion and release of samples.

#### Applications:

- dumbbells
- elastomers

### DATASHEET

Part No.	Load Capacity			Thread 1	Maximum Sample Size (A x B)		Length (C)		Weight	
	500 N	50 kgf	110 lbf		30 mm x 5 mm	1.18" x 0.20"	29 mm	1.14"	100 g	0.22 lb
432-383	500 N	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
432-047	500 N	50 kgf	110 lbf	10-32 UNF	70 mm x 5 mm	2.76" x 0.20"	29 mm	1.14"	100 g	0.22 lb

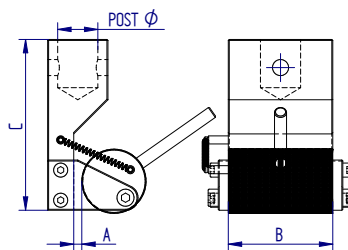


### Lever-operated Cam Grip, QC fitting

Lever-operated cam grips are easy to apply, and self-tighten under load. They are used for soft, flat and flexible samples such as foils, plastic and rubber. Roller faces can be smooth or pyramidal. QC fitting, from 1 to 10 kN. Supplied in pairs.

### DATASHEET QC

Part No.	Please see data sheet for full details
Mec7	



### Spring-loaded Eccentric Grip, QC fitting

The spring-loaded eccentric grip is a self-tightening cam grip with a knurled roller design, ideal for flat and dumbbell shaped samples. The eccentric knurled roller and serrated back plate provide excellent gripping on smooth surfaces for tension tests up to 2 kN.

#### Applications:

- flexible sheet materials
- polymers
- rubber
- plastics

### DATASHEET QC

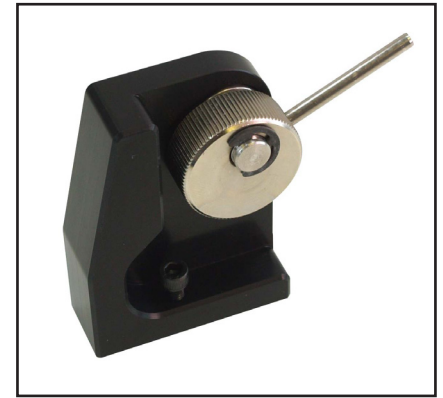
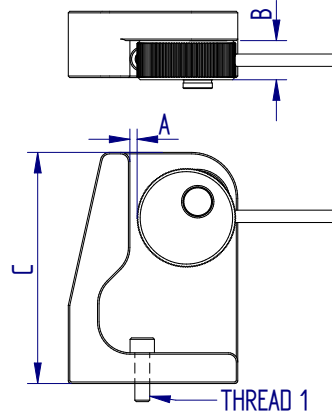
Part No.	Load Capacity			Post Ø	Max. Sample Thickness (A)		Max. Sample Width (B)		Length (C)		Weight	
	2 kN	200 kgf	440 lbf		QC 20 mm	4 mm	0.16"	52 mm	2.05"	93 mm	3.66"	540 g
432-263	2 kN	200 kgf	440 lbf	QC 20 mm	4 mm	0.16"	52 mm	2.05"	93 mm	3.66"	540 g	1.19 lb

### Cable Cam Grip

Cable cam grips are designed for holding insulated cables and wire. 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.

#### Applications:

- crimp terminals
- foils
- tapes
- wires



[DATASHEET](#)

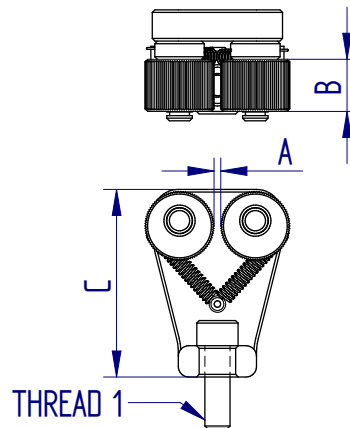
Part No.	Load Capacity			Thread 1	Type	Max. Sample Width (A)		Max. Sample Thickness (B)		Length (C)		Weight	
	1 kN	100 kgf	225 lbf			13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-390	1 kN	100 kgf	225 lbf	10-32 UNF	Serrated	13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-404	1 kN	100 kgf	225 lbf	10-32 UNF	Smooth	13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-108	5 kN	500 kgf	1100 lbf	M10	Serrated	40 mm	1.57"	26 mm	1.02"	152 mm	5.98"	2.3 kg	5.10 lb

### Double Cam Grip

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.

#### Applications:

- crimp terminals
- wires



[DATASHEET](#)

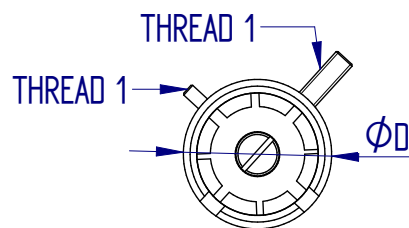
Part No.	Load Capacity			Thread 1	Max. Sample Thickness (A)		Max. Sample Width (B)		Length (C)	
	500 N	50 kgf	110 lbf		3 mm	0.12"	10 mm	0.40"	36 mm	1.42"
432-387	500 N	50 kgf	110 lbf	10-32 UNF	3 mm	0.12"	10 mm	0.40"	36 mm	1.42"
432-378	500 N	50 kgf	110 lbf	10-32 UNF	10 mm	0.39"	12.7 mm	0.50"	62 mm	2.44"

### Rotating Crimp Receptacle

The rotating crimp receptacle is a versatile crimp 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 5G 178-1 and equivalent international standard test methods.

#### Applications:

- crimp terminals
- welded or bonded connectors

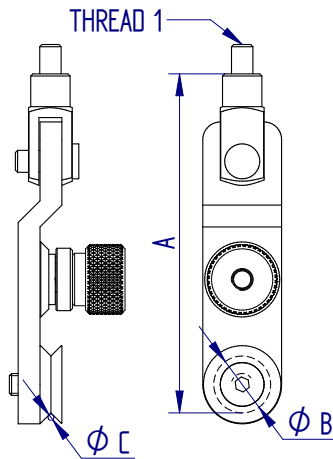


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Thread 2	Diameter (ØD)		Sample Diameter Range		Weight	
	1 kN	100 kgf	225 lbf			55 mm	2.16"	1.5 mm - 5 mm	0.06" - 0.20"	200 g	0.44 lb
432-379	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

# Bollard grips

## Tension



### Wire/Filament Grips

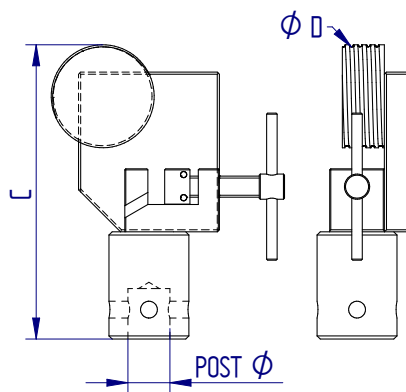
The wire/filament grip is equipped with a grooved capstan and precision-machined swivel plate, which are designed to ensure centre break within the sample and specimen alignment when force is applied.

#### Applications:

- thin wires
- cords
- filaments
- yarns

### DATASHEET

Part No.	Load Capacity			Thread 1	Pulley Diameter (ØB)		Max. Wire Diameter (ØC)		Length (A)		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-363	250 N	25kgf	55 lbf	10-32 UNF	13 mm	0.5"	0.8 mm	0.03"	78 mm	3.07"	-	-
432-397	500 N	50 kgf	110 lbf	10-32 UNF	19 mm	0.75"	1.5 mm	0.06"	97 mm	3.82"	117 g	0.26 lb



### Large Circular Bollard Grip, QC fitting

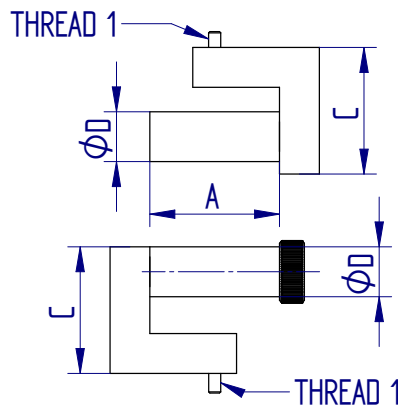
Large circular bollard grips are designed for testing flexible wire-type samples up to a maximum load of 2 kN. The sample is wrapped around the bollard and the free end is clamped tightly in place.

#### Applications:

- cord
- filaments
- wire
- yarn

### DATASHEET QC

Part No.	Load Capacity			Post Ø	Max. Specimen Thickness	Length (C)		Weight		
	N	kgf	lbf			mm	in	kg	lb	
432-271	2 kN	200 kgf	440 lbf	QC 20 mm	2 mm	0.08"	140 mm	5.51"	1.3 kg	2.9 lb



### Film Grips

These grips are used for flexible samples such as films, where conventional grips create stress points so reducing tensile strength. Samples are wrapped around the drum, spreading the load and avoiding breakage. Grips are supplied in pairs.

#### Applications:

- thin films
- polymers
- elastomers

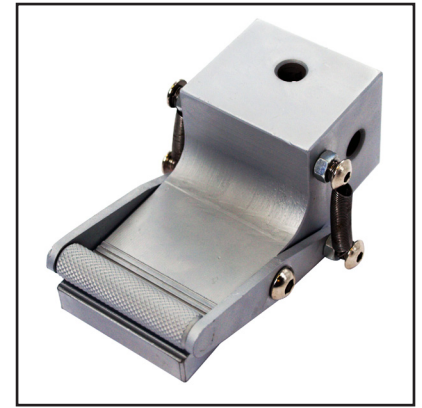
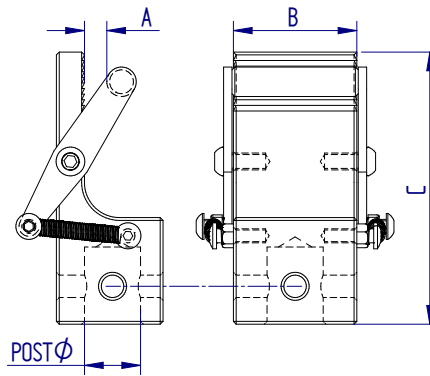
### DATASHEET

Part No.	Load Capacity			Thread 1	Sample Width (A)		Diameter (ØD)		Length (C)	
	N	kgf	lbf		mm	in	mm	in	mm	in
432-157	500 N	50 kgf	110 lbf	10-32 UNF	50 mm	1.97"	20 mm	0.79"	58.8 mm	2.00"



## Spring-Loaded Fold Grip, QC fitting

The Spring-loaded fold grip is a self-tightening grip with a spring-loaded roller for holding flexible samples firmly as load is applied. Sample material is wound around the cross hatch knurl of the 10 mm (0.39") diameter roller and held in contact with the serrated rear body, preventing slippage within the grip.



### Applications:

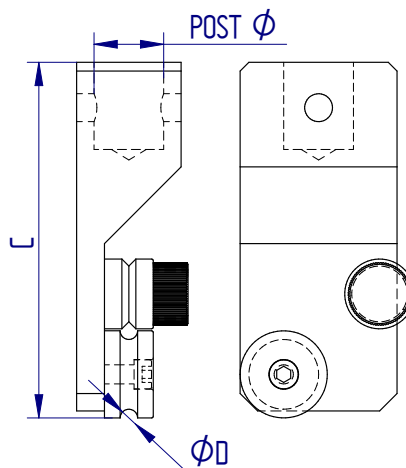
- elastomers
- films
- polymers
- rubber
- fabrics
- leather

[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Max. Sample Thickness (A)		Max. Specimen Width (B)		Length (C)		Weight	
	2 kN	200 kgf	450 lbf		5 mm	0.20"	44 mm	1.73"	97 mm	3.81"	680 g	1.5 lb
432-262	2 kN	200 kgf	450 lbf	QC 20 mm	5 mm	0.20"	44 mm	1.73"	97 mm	3.81"	680 g	1.5 lb

## Small Circular Bollard Grip, QC fitting

Small circular bollard grips are made from aluminium and are designed for testing delicate, flexible samples such as fine threads, wires and yarns, which may break easily when clamped. The maximum capacity is 100 N. The sample is wrapped around the bollard and the free end is held tightly in place using a pair of friction washers and a thumbscrew.



### Applications:

- fibres
- filaments
- threads
- yarns
- twines
- fine wires

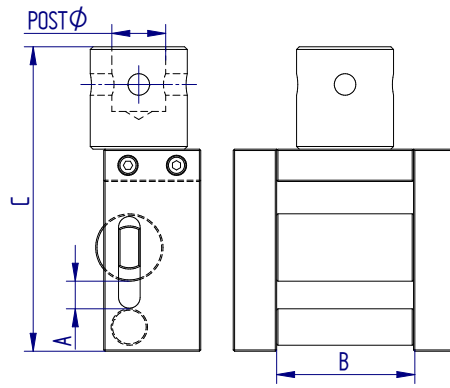
[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Max. Load (to maintain tension)	Max. Filament Diameter (ØD)		Length (C)		Weight	
	100 N	10 kgf	22 lbf			5 mm	0.20"	102 mm	4.02"	210 g	0.46 lb
432-270	100 N	10 kgf	22 lbf	QC 20 mm	0.5 N	5 mm	0.20"	102 mm	4.02"	210 g	0.46 lb



# Belt and strap grips

## Tension



### Webbing Grip, QC fitting

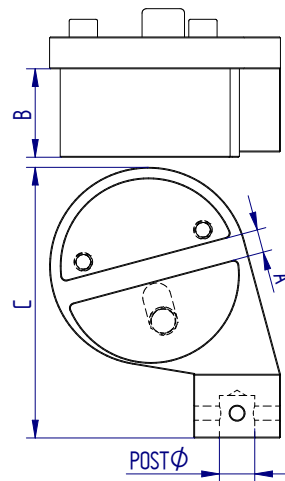
Webbing grips are easy to use and designed for rapid testing of high-strength belts and tapes. The sample is wound around the knurled roller and then around the smooth roller. As load is applied, the smooth roller moves in the slot to secure tightly against the knurled surface ensuring maximum gripping strength.

#### Applications:

- fabrics
- textiles
- webbing

[DATASHEET](#) [QC](#)

Part No.	Load Capacity			Post Ø	Max. Sample Thickness (A)		Max. Specimen Width (B)		Length (C)		Weight	
	2 kN	200 kgf	440 lbf		11 mm	0.43"	50 mm	1.97"	113 mm	4.45"	1.1 kg	2.4 lb
432-269	2 kN	200 kgf	440 lbf	QC 20 mm	11 mm	0.43"	50 mm	1.97"	113 mm	4.45"	1.1 kg	2.4 lb



### Heavy-duty Belt Grips, QC fitting

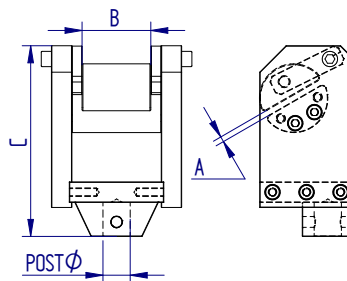
Heavy-duty belt grips are designed for testing high-strength belts and straps such as conveyor belts, which require specialised grips to prevent sample slippage. By winding the sample around the split bodies the stresses in the specimen are distributed. Self-tightening for effective tensile testing up to 10 kN. Grips are supplied in pairs.

#### Applications:

- conveyor belts
- plastic and metal strapping
- seat belts
- webbing

[DATASHEET](#) [QC](#)

Part No.	Load Capacity			Post Ø	Max. Sample Thickness (A)		Max. Specimen Width (B)	Length (C)		Weight		
	10 kN	1000 kgf	2200 lbf		14 mm	0.55"		50 mm	1.97"	153 mm	6.02"	5 kg
432-277	10 kN	1000 kgf	2200 lbf	QC 32 mm	14 mm	0.55"	50 mm	1.97"	153 mm	6.02"	5 kg	11 lb



### Heavy-duty Textile Grip, QC fitting

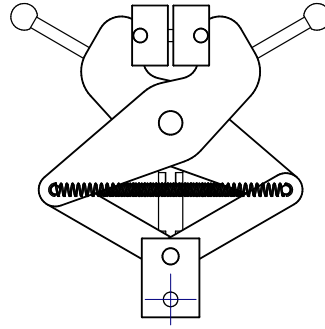
Heavy-duty textile grips are ideally suited to tension testing of fabrics, textiles and webbing. The grips are very easy to load, and the self-tightening action ensures that the sample does not slip. Grips are supplied in pairs.

[DATASHEET](#) [QC](#)

Part No.	Load Capacity			Post Ø	Sample Thickness Min./Max. (A)		Max. Specimen Width (B)		Length (C)	
	50 kN	5 kgf	11 lbf		0.5 mm - 3 mm	0.02" - 0.118"	81 mm	3.18"	224 mm	8.82"
432-434	50 kN	5 kgf	11 lbf	QC 32 mm	0.5 mm - 3 mm	0.02" - 0.118"	81 mm	3.18"	224 mm	8.82"

## Scissor Grips, QC fitting

Scissor grips are self-tightening and self-aligning, the sample initially being held by light spring tension. The ratio of clamping force to tensile force changes in proportion to opening width. The wider the opening, the stronger the grip on the sample. A range of jaw profiles and types is available. QC fitting.



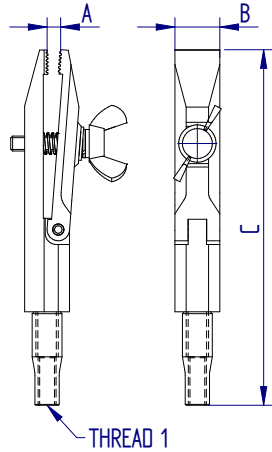
QC

DATASHEET

Part No.	Please see data sheet for full details
Mec11	

# Pinch grips

## Tension



### Small Pinch Grip

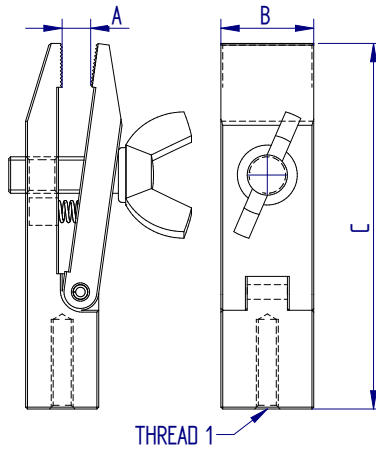
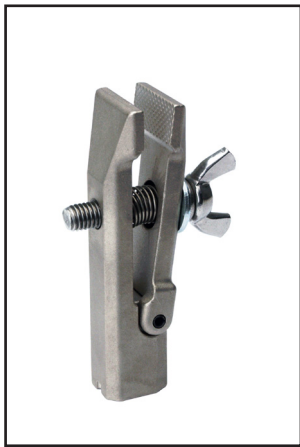
Pinch grips are lightweight miniature vice grips, which use a hinge action to initially grab a sample, with a wing nut to tighten the jaw faces. Each 10 mm x 10 mm (0.39" x 0.39") jaw face has a slight groove to hold the sample securely, yet avoid inducing a break within the grip. Pinch grips are particularly well suited for peel testing of thin plastic films.

#### Applications:

- woven yarn
- tissue
- thin films

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
	200 N	20 kgf	44 lbf		9 mm	0.35"	12 mm	0.47"	95 mm	3.74"	70 g	0.15 lb
432-280	200 N	20 kgf	44 lbf	M6	9 mm	0.35"	12 mm	0.47"	95 mm	3.74"	70 g	0.15 lb



### Large Pinch Grip

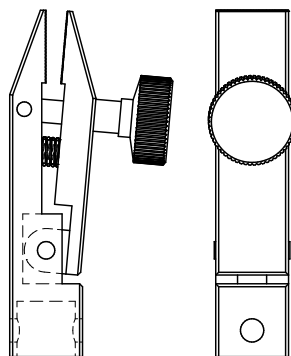
The large pinch grip has cross-hatched jaw faces to ensure samples are held securely for tensile tests. Fast installation and release of samples is achieved by initially grabbing by hinge action, and manually tightening the wing nut.

#### Applications:

- small components
- welded tags
- textile attachments
- paper and tissue strips

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
	500 N	50 kgf	110 lbf		9 mm	0.35"	25 mm	0.98"	100 mm	3.94"	300 g	0.66 lb
432-278	500 N	50 kgf	110 lbf	M6	9 mm	0.35"	25 mm	0.98"	100 mm	3.94"	300 g	0.66 lb



### 2 kN pinch grip, QC fitting

Pinch grips are designed for small-area contact to grip a sample, and are hinged with a screw-adjustable mechanism. QC fitting.

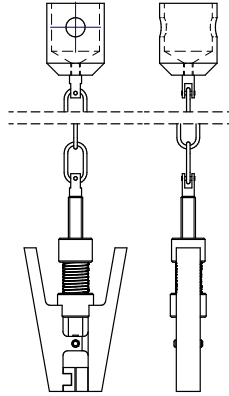
#### DATASHEET

#### QC

Part No.	Please see data sheet for full details
MecS470	

## 20 N Spring-loaded Pinch Grip with chain link, QC fitting

Pinch grips are designed for small-area contact to grip a sample, and are hinged with a screw-adjustable mechanism. Available with the adapter mounted directly on the grip or on a chain for ease of positioning. QC fitting.

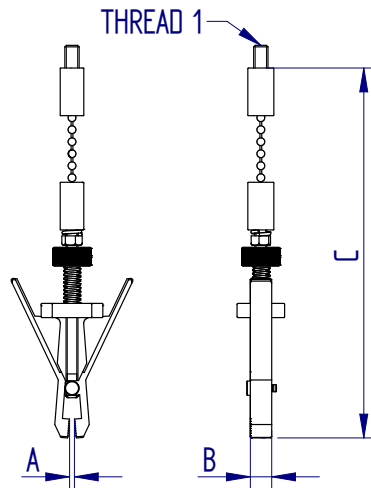


QC

DATASHEET

Part No.	Please see data sheet for full details
Mec205k	

# Vice grips: Single-action Tension



## Lightweight Mini Vice Grip

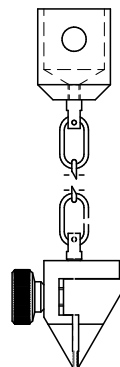
Lightweight mini vice grips are ideal for testing extremely low forces by virtue of their spring-loaded clamping action. Samples are held without the need to tighten a thread which may damage very light loadcells or the sample itself. Supplied with a chain link for ease of alignment.

### Applications:

- sub-miniature components
- thin films
- tissue and cotton yarns
- delicate fine wires

### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
432-281	5N	0.5kgf	1 lbf	M6	5 mm	0.197"	9 mm	0.35"	154 mm	6.06"	30 g	0.07 lb

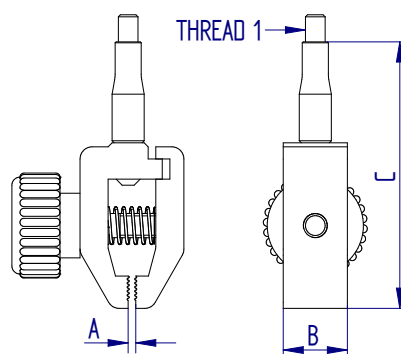


## 100 N Miniature Vice-Grip with integral pyramid jaws, QC fitting

Miniature vice grips with jaw sizes from 5 mm (h) x 6 mm (w), are used for small samples and components. Their parallel faces achieve a better hold than a pinch grip. QC fitting. Supplied with chain for improved alignment or for post-mounting, and with pneumatic option.

### DATASHEET QC

Part No.	Please see data sheet for full details
MecS341	



## 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:

- films
- flexible sheet materials
- paper
- laminates
- textiles
- rubber
- woven fabrics
- tissue
- tape

### DATASHEET QC

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)	
432-381	200 N	20 kgf	45 lbf	10-32 UNF	3 mm	0.12"	16 mm	0.63"	66 mm	2.60"

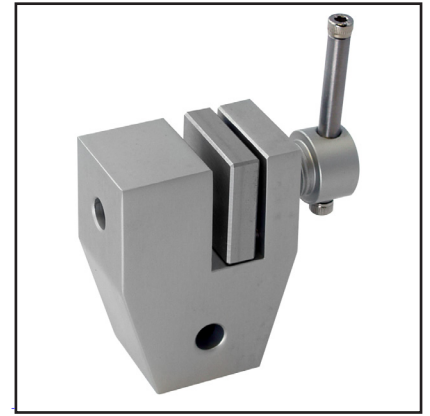
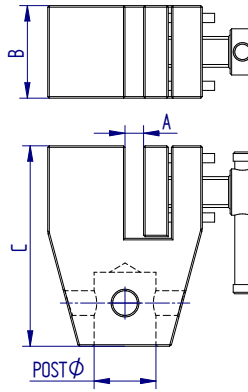
# Vice grips: Single-action Tension

## Small Single-action Vice Grip, QC fitting

Small single-action vice grips are ideal for testing low force applications on flat samples. These general purpose vice grips are fitted with 30 mm x 30 mm (1.2" x 1.2") flat-faced jaws.

### Applications:

- films
- flexible sheet materials
- laminates
- rubber
- woven fabrics
- tissue
- paper
- tape
- textiles



[QC](#) [DATASHEET](#)

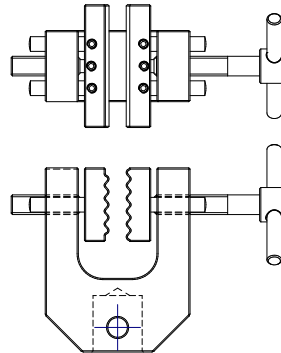
Part No.	Load Capacity			Post Ø	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
	200 N	20 kgf	45 lbf		8 mm	0.32"	30 mm	1.18"	65 mm	2.56"	215 g	0.47 lb
432-264	200 N	20 kgf	45 lbf	QC 20 mm	8 mm	0.32"	30 mm	1.18"	65 mm	2.56"	215 g	0.47 lb

## Medium Single-action Vice Grips, QC fitting

Medium single-action vice grips are suitable for tensile testing a wide range of samples. Available fitted with one of three different types of jaw face: diamond-faced, rubber-coated and wave-form, to securely grip most materials. Jaws may be ordered separately.

### Applications:

- films
- woven fabrics
- laminates
- flexible sheet materials
- rubber
- paper
- tape
- textiles
- tissue



[QC](#) [DATASHEET](#)

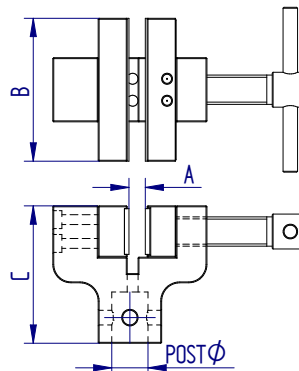
Part No.	Please see data sheet for full details
Mec240k	

## Large Single-action Vice Grip, QC fitting

Large single-action vice grips are suitable for tensile testing a wide range of samples. Available fitted with one of three different types of jaw face: diamond-faced, rubber-coated and wave-form, to securely grip most materials.

### Applications:

- metallic foils
- paper and card
- plastic sheet
- textiles
- woven fabrics
- tapes

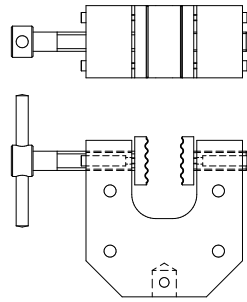
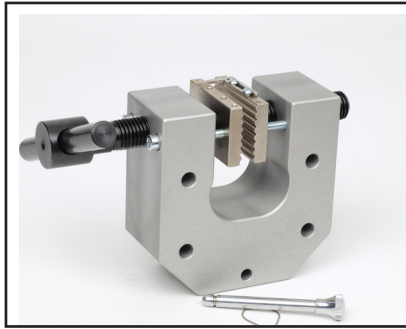


[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Jaw Type	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
	2 kN	200 kgf	450 lbf			9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267	2 kN	200 kgf	450 lbf	QC 20 mm	Diamond-faced	9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267-V01	2 kN	200 kgf	450 lbf	QC 20 mm	Rubber-coated	9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267-V02	2 kN	200 kgf	450 lbf	QC 20 mm	Wave-form	6.5 mm	0.26"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb



# Vice grips: Single-action Tension



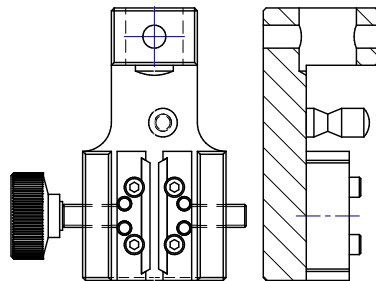
## Heavy-duty Single-action Vice Grip, QC fitting

Heavy-duty single-action vice grips are suitable for tensile testing a wide range of samples to higher loads. Available fitted with one of three different types of jaw face: diamond-faced, rubber-coated and wave-form, to securely grip most materials. Jaws may be ordered separately.

[DATASHEET](#)

[QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec154	



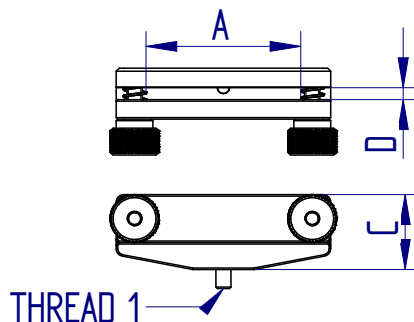
## 2.5 kN Screw-action Thin Wire Grips, pair, QC fitting

Wire grips are designed to hold fine wires, cords or ropes, between flat faces. They are double-action vice grips, with a pneumatic option, and alternative diamond or smooth jaw faces. QC fitting.

[DATASHEET](#)

[QC](#)

<b>Part No.</b>	Please see data sheet for full details
Mec9	



## Fabric Grip

Fabric grips are designed for tensile and elongation testing of fabric to a number of international strength standards. Two locking nuts at either side of the grip ensure the sample is clamped securely across its entire width during testing.

### Applications:

- fabric
- textiles

[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Clamp Capacity (D)		Max. Sample Width (A)		Max. Length (C)		Weight	
	N	kgf	lbf		mm	0.16"	mm	1.97"	mm	1.30"	g	lb
432-384	100 N	10 kgf	22 lbf	10-32 UNF	4 mm	0.16"	50 mm	1.97"	29 mm	1.14"	81 g	0.18 lb
432-386	200 N	20 kgf	45 lbf	10-32 UNF	4 mm	0.16"	100 mm	3.97"	33 mm	1.30"	—	—

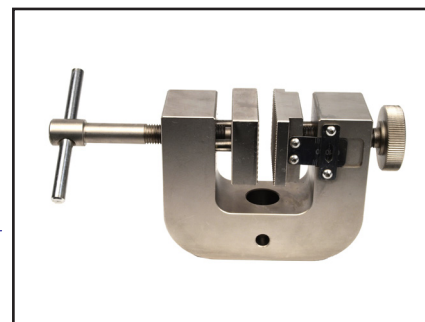
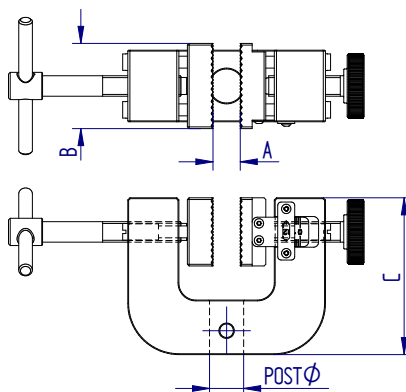
# Vice grips: Double-action Tension

## Large Double-action Vice Grip, QC fitting

The large double-action vice grip is rated to 5 kN and can grip specimens with a thickness from 0.5 mm to 25 mm. It has a tommy-bar handle on one side for rapid tightening and a fine-action thumb-screw on the other for accurate sample positioning. An engraved millimetre scale on one jaw can be used to align the sample accurately.

### Applications:

- leather
- thin metal sheets
- plastics
- textiles
- paper & card
- thin films



[QC](#) [DATASHEET](#)

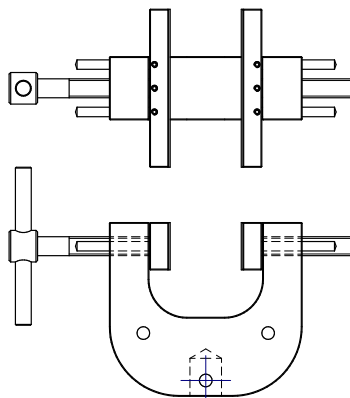
Part No.	Load Capacity			Post Ø	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
432-433	5 kN	500 kgf	1100 lbf	QC 20 mm	25 mm	0.98"	50 mm	1.97"	92 mm	3.62"	2.8 kg	6.2 lb

## U-Form Vice Grips, QC fitting

U-form vice grips have dual side-action screw grips to enable wide specimens to be clamped quickly and securely. Available fitted with one of five different types of jaw faces: smooth, rubber-coated, pyramidal-faced, wave-form and diamond-faced to securely grip most materials. Jaws may be ordered separately.

### Applications:

- thick films
- polymers
- leather
- foam
- light metal/alloys



[QC](#) [DATASHEET](#)

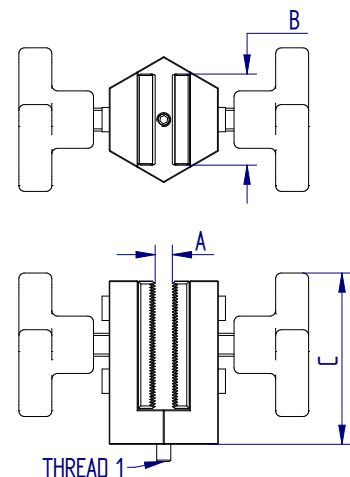
Part No.	Please see data sheet for full details	
Mec240g		

## Parallel Jaw Grips

Parallel jaw grips are fitted with individually adjustable serrated interlocking jaws.

### Applications:

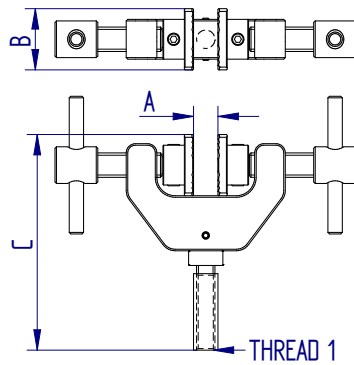
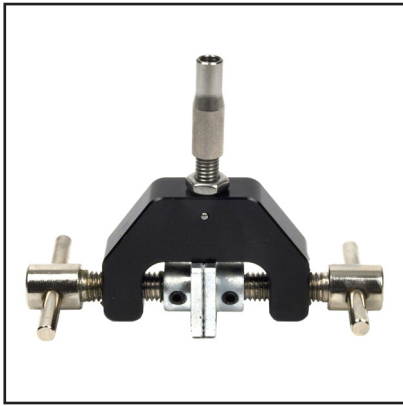
- films
- flexible sheet materials
- paper and card
- laminates
- rubber
- tape
- textiles
- woven fabrics



[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
432-396	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	32 mm	1.26"	60 mm	2.35"	300 g	0.66 lb

# Vice grips: Double-action Tension



## Small Parallel Grip

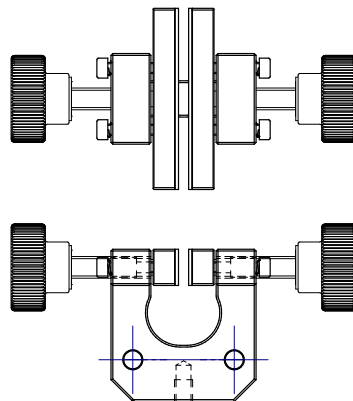
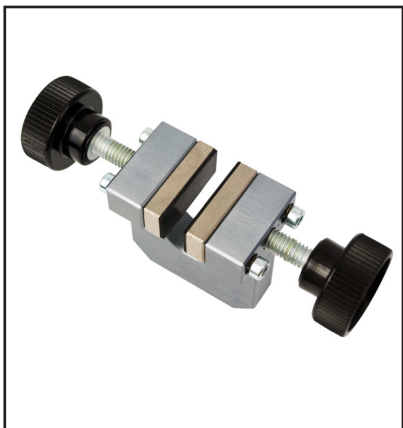
The small parallel grip has a rigid body with individually controlled serrated jaws. A floating ball screw attachment ensures central loading with correct alignment during tensile testing, and wing screws are used to easily adjust grip faces.

### Applications:

- flexible sheet materials
- tape
- paper
- textiles
- laminates

## DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
	500 N	50 kgf	110 lbf		12 mm	0.47"	20 mm	0.79"	70.5 mm	2.78"	126 g	0.28 lb
432-394	500 N	50 kgf	110 lbf	10-32 UNF	12 mm	0.47"	20 mm	0.79"	70.5 mm	2.78"	126 g	0.28 lb
432-211	500 N	50 kgf	110 lbf	M6	12 mm	0.47"	20 mm	0.79"	70.5 mm	2.78"	126 g	0.28 lb



## Lightweight Double-action Vice Grip

Lightweight double-action vice grips are suitable for holding small, delicate samples, particularly when using low capacity loadcells. Available fitted with one of two different types of jaw faces: rubber-coated or pyramidal-faced, to securely grip most materials. Often used with the chain link assembly for ease of sample loading.

### Applications:

- light fabrics
- plastic films
- packaging materials
- yarns
- foils
- card & tissue
- paper
- wire

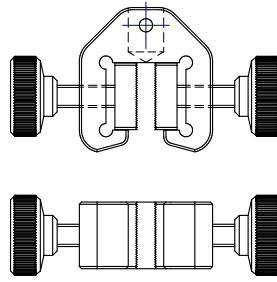
## DATASHEET

Part No.	
Mec227	Please see data sheet for full details

# Vice grips: Double-action Tension

## 100 N Small Vice Grip with pyramidal jaws, QC fitting

Small aluminium 100 N vice grips fit 8 mm QC adapters. Pneumatic versions achieve 140 N clamping force, and all take interchangeable smooth, rubber or pyramidal faced jaws, clamping surface 15 mm x 15 mm. QC fitting.

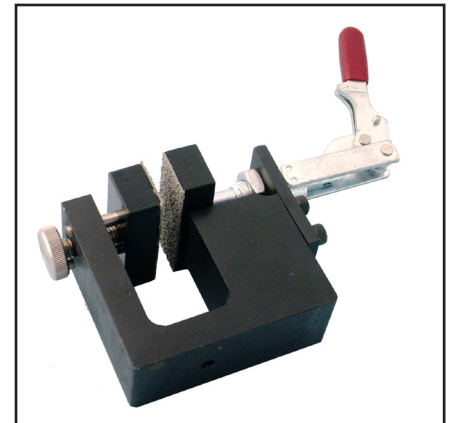
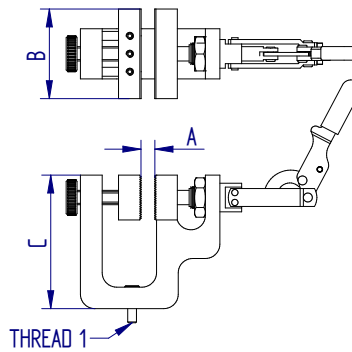


[QC](#) [DATASHEET](#)

<b>Part No.</b>	Please see data sheet for full details
Mec140	

## Toggle Clamps

Toggle clamps are fitted with a lever to allow rapid, easy loading of specimens. They are available fitted with either flat or serrated jaw faces to securely grip most materials.



[DATASHEET](#)

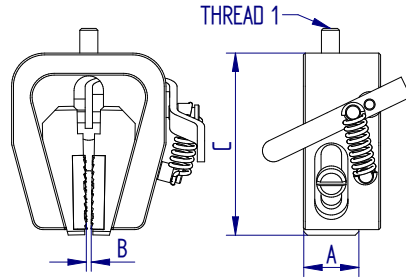
### Applications:

- fabric
- woven fabrics
- tapes
- polymers

Part No.	Load Capacity			Thread 1	Jaw Type	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
	500 N	50 kgf	110 lbf			6 mm	0.24"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb
432-177	500 N	50 kgf	110 lbf	10-32 UNF	Flat	6 mm	0.24"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb
432-176	500 N	50 kgf	110 lbf	10-32 UNF	Serrated	7 mm	0.28"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb

# Wedge grips

## Tension



### 500 N and 200 N Wedge Grips

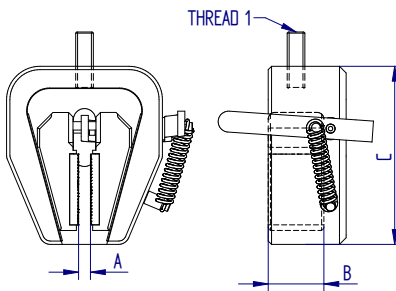
The 200 N / 500 N wedge grip is a small, lightweight grip designed for tensile testing. As load is applied, the wedge action of the jaws increases the grip on the sample. A spring-loaded lever allows the serrated jaws to open and close easily for the fast securing and release of samples. The 200 N grip includes the chain link assembly for ease of loading samples. A slot in the back accommodates samples wider than the jaws.

#### Applications:

- crimp and welded joints
- films
- flexible sheet materials
- laminates
- wires
- textiles

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Width (A)		Jaw Capacity (B)		Height (C)		Weight	
432-415	200 N	20 kgf	45 lbf	10-32 UNF	25 mm	0.98"	5 mm	0.20"	53 mm	2.09"	120 g	0.26 lb
432-385	500 N	50 kgf	110 lbf	10-32 UNF	16 mm	0.63"	5 mm	0.20"	53 mm	2.09"	132 g	0.29 lb



### 5 kN Wedge Grip

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.

#### Applications:

- adhesive joints
- cables
- composites
- crimp and welded joints
- metals
- plastics
- polymer
- rubber
- wood

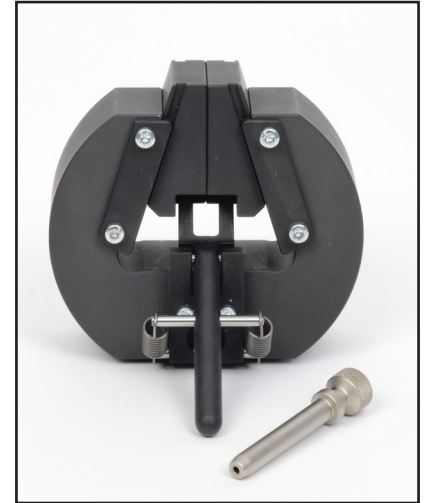
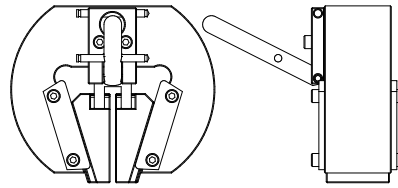
#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Width (A)		Jaw Capacity (B)		Height (C)		Weight	
432-398	5kN	500 kgf	1100 lbf	5/16 UNC	25 mm	0.98"	8 mm	0.31"	80 mm	3.15"	550 g	1.21 lb



## 10 kN Wedge Grip, QC fitting

The 10 kN wedge grip is designed for tensile testing. As load is applied, the wedge action of the jaws. The open back allows wider samples to be fitted although still held across the central 34 mm width. Supplied as body only - choose from either pyramidal-faced jaws for holding flat samples or toothed V-jaws for holding round samples.



### Applications:

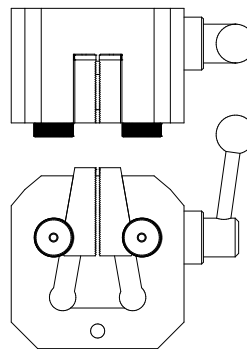
- welded joints
- leather
- cardboard
- adhesive joints
- cables
- plastics
- flat or round metals
- composites
- polymers
- wood

<b>Part No.</b>	Please see data sheet for full details
MecS622	

[QC](#) [DATASHEET](#)

## 20 kN and 50 kN Wedge Grip

The 20 kN / 50 kN wedge grip is designed for multi-purpose tensile testing of metal, plastic and other specimens. As load is applied, the wedge action of the jaws increases the grip on the sample. The grip features a lever arm for the fast securing and release of samples. Supplied as body only - choose from two sizes of pyramidal-faced jaws for holding flat samples, or two sizes of toothed V-jaws for holding round samples.



### Applications:

- rigid wire
- board

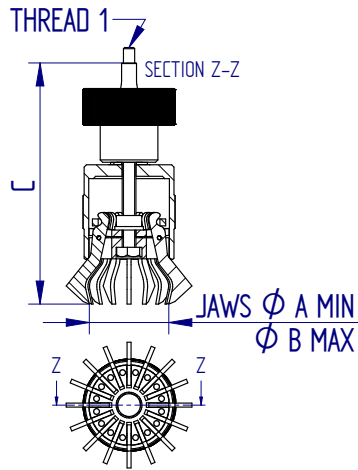
<b>Part No.</b>	Please see data sheet for full details
Mec243	

[DATASHEET](#)



# Claw type grips

## Tension



### Multi-Jaw Grip

The multi-jaw grip is for grasping round or irregularly shaped items. By rotating the sleeve of the grip, the jaws can be opened and closed to achieve a secure grasp on a sample.

#### Applications:

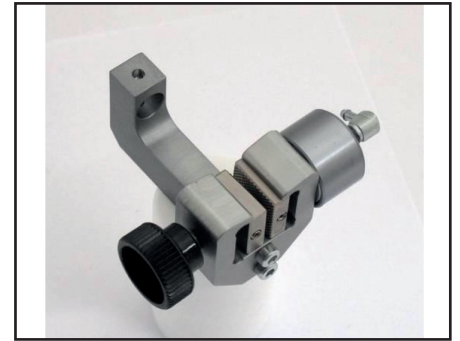
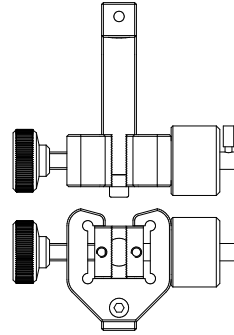
- fasteners
- small components
- textiles

### DATASHEET

Part No.	Load Capacity			Thread 1	Sample Min./Max. Ø		Length (C)		Weight	
	500 N	50 kgf	110 lbf		11 mm / 42 mm	0.43" / 1.65"	105 mm	4.12"	173 g	0.38 lb
432-215	500 N	50 kgf	110 lbf	M6	11 mm / 42 mm	0.43" / 1.65"	105 mm	4.12"	173 g	0.38 lb
432-420	500 N	50 kgf	110 lbf	10-32 UNF	11 mm / 42 mm	0.43" / 1.65"	t105 mm	4.12"	173 g	0.38 lb

## 100 N Small Vice Grip with pyramidal jaws, QC fitting

Small aluminium 100 N vice grips fit 8 mm QC adapters. Pneumatic versions achieve 140 N clamping force, and all take alternative smooth, rubber or pyramidal-faced jaws, clamping surface 15 mm x 15 mm. QC fitting.

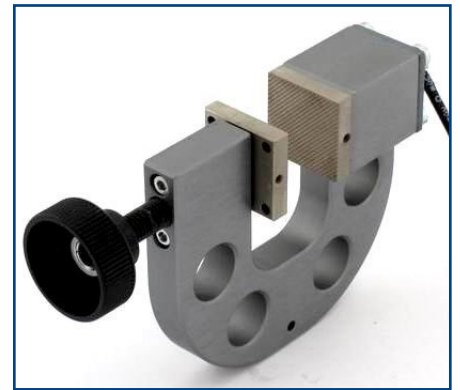
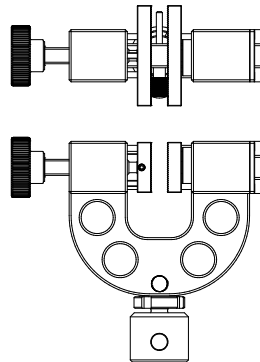


[QC](#) [DATASHEET](#)

<b>Part No.</b>	Please see data sheet for full details
Mec140k	

## Lightweight Pneumatic Plane Grip, QC fitting

Lightweight pneumatic plane grips are made from aluminium and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs, smooth pyramid, rubber, or diamond-faced jaws are ordered separately. The dual footswitch (locking or non-locking types available) including tubes and fittings, must be ordered separately.



[QC](#) [DATASHEET](#)

### Applications:

- film
- plastic sheet
- paper
- rubber
- laminates
- textiles
- woven fibre strips
- elastomers

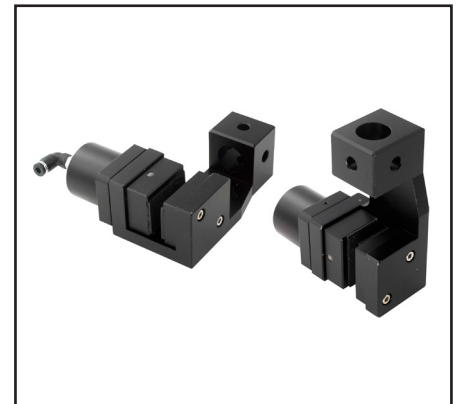
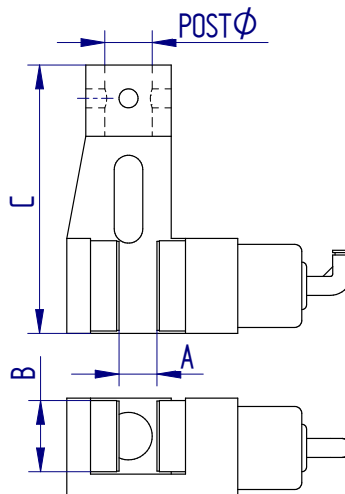
<b>Part No.</b>	Please see data sheet for full details
Mec94	

## Small Pneumatic Plane Grip, QC fitting

Small pneumatic plane grips are made from aluminium, have rubber-faced jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation.

### Applications:

- film
- plastic sheet
- paper
- rubber
- laminates
- textiles
- woven fibre strips
- elastomers



[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
432-275	200 N	20 kgf	45 lbf	QC 20 mm	11 mm	0.43"	30 mm	1.18"	113 mm	4.45"	600 g	1.3 lb

# Pneumatic grips

## Tension



See data sheet for detailed drawing

### Medium Pneumatic Plane Grip, QC fitting

Medium pneumatic plane grips use a pneumatically-operated parallel vice action to firmly hold flat samples in place with a 1.2 kN clamping force. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs with either pyramidal, rubber, or diamond-faced jaws. The dual footswitch (locking or non-locking types) including tubes and fittings, must be ordered separately.

#### Applications:

- plastics
- medium-duty film
- paper and card
- rubber
- textiles
- very light metals / alloys
- laminates
- insulating materials

DATASHEET

QC

Part No.	Please see data sheet for full details
Mec240k+2ko	



See data sheet for detailed drawing

### U-Form Pneumatic Vice Grip

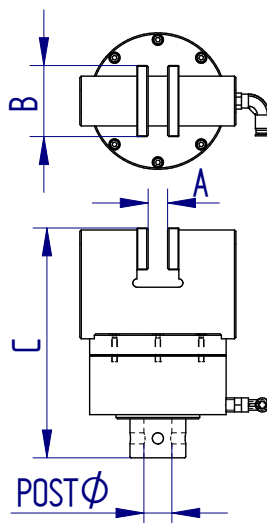
U-Form Pneumatic Vice Grips use a pneumatically operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs with either pyramid, rubber, or diamond-faced jaws. The Dual Footswitch (locking or non-locking types) including tubes and fittings, must be ordered separately.

#### Applications:

- plastics

DATASHEET

Part No.	Please see data sheet for full details
Mec240g+2ko	



### Large Pneumatic Plane Grip, QC fitting

Large pneumatic plane grips have pyramidal-faced jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation.

#### Applications:

- plastics
- heavy-duty film
- paper and card
- rubber
- textiles
- light metals / alloys
- laminates
- insulating materials

DATASHEET

QC

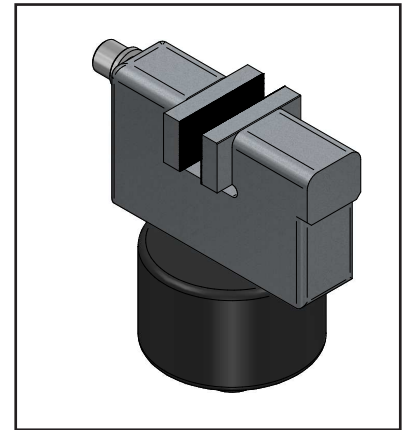
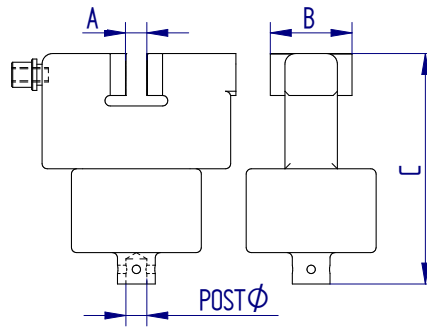
Part No.	Load Capacity			Post Ø	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
432-276	1 kN	100 kgf	225 lbf	QC 20 mm	14 mm	0.55"	51 mm	2.01"	165 mm	6.50"	4 kg	8.8 lb

# Pneumatic grips

## Tension

### Heavy-duty Pneumatic Plane Grip, QC fitting

Heavy-duty pneumatic plane grips are made from steel, have pyramidal-face jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation.



#### Applications:

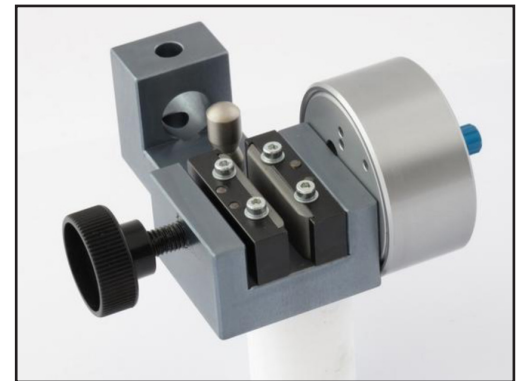
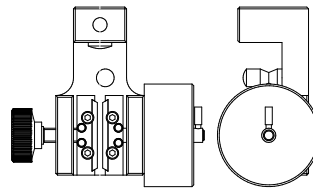
- elastomers
- tapes
- textiles
- films
- plastics
- rubber

[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post Ø	Jaw Capacity (A)		Jaw Width (B)		Height (C)	
	1 kN	100 kgf	225 lbf		20 mm	0.787"	78 mm	3.07"	220 mm	8.66"
432-374	1 kN	100 kgf	225 lbf	QC 20 mm	20 mm	0.787"	78 mm	3.07"	220 mm	8.66"

### Pneumatic thin wire grips, pair, QC fitting

Wire grips are designed to hold fine wires, cords or ropes, between flat faces. They are double action vice grips, with a pneumatic option, and alternative jaw faces. QC fitting.

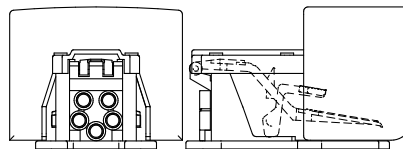


[QC](#) [DATASHEET](#)

Part No.	Please see data sheet for full details
Mec9+ok	

### Dual Footswitches

Dual footswitches are used to operate the lightweight and medium pneumatic plane grips. Available in locking or non-locking types, including tubes and fittings.

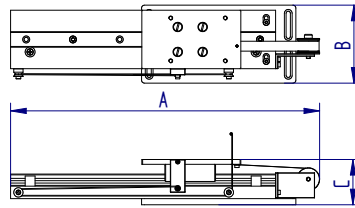
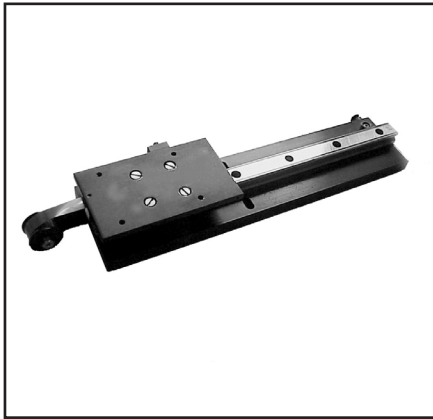


[DATASHEET](#)

Part No.	Please see data sheet for full details
Mec205	

# Peel and friction jigs

## Tension

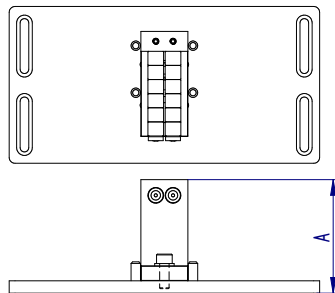


### Assisted-Pull Peel Table

The assisted-pull peel table is fixed to the anvil plate and the crosshead of a test stand. The carriage of the peel table is directly driven horizontally by the vertical movement of the test stand crosshead, maintaining a constant 90 degree peel angle for the specimen.

#### DATASHEET

Part No.	Load Capacity			Length (A)		Width (B)		Height (C)		Weight	
	500 N	50 kgf	110 lbf	397 mm	15.60"	100 mm	3.94"	58 mm	2.28"	3.5 kg	7.7 lb
ACC008-208											



### Floating Peel Jig

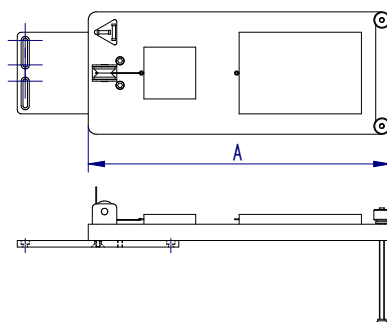
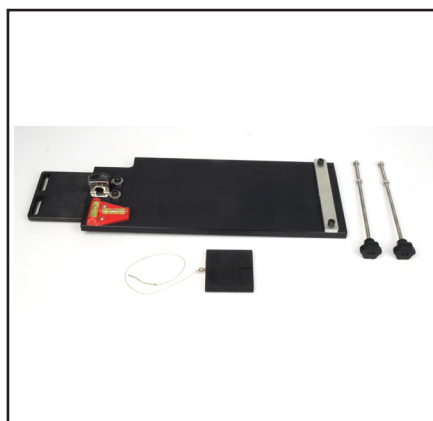
The floating peel jig is used to test flat samples with a flexible layer and a rigid or semi-rigid substrate, such as credit cards, and enables the card to move smoothly under the rollers while delamination tests are carried out. The fixture maintains a constant 90 degree peel angle for the specimen.

#### Applications:

- films
- laminates
- decals
- tapes
- labels

#### DATASHEET

Part No.	Load Capacity			Height (A)	
	500 N	50 kgf	110 lbf	72 mm	2.85"
432-413					



### Coefficient of Friction Fixture

The coefficient of friction fixture is designed to measure the coefficient of friction (COF) between two pieces of material. The COF test determines the kinetic and static resistance of one surface being dragged across another. Two versions available to test to the BS 2782 or ASTM D1894.

#### Applications:

- plastic
- film
- paper
- foil

#### DATASHEET

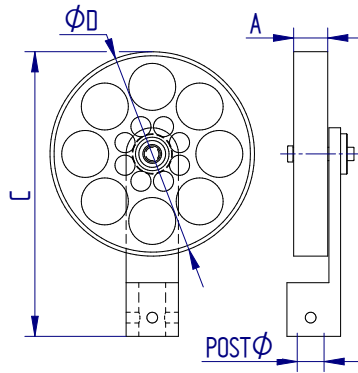
Part No.	Standard	Sled Dimensions		Length (A)	
		150 x 100 mm	5.91 x 3.94"	614 mm	24.17"
432-145	BS 2782				
432-144	ASTM D1894	63.5 x 63.5 mm	2.48 x 2.48"	370 mm	14.57"

### Pull Peel Wheel Fixture, QC fitting

The pull peel wheel fixture is designed for mounting to the base of a motorised test stand to test the peel strength of flexible adhesive-backed materials. Samples are wound around the wheel and the free end is clamped in a suitable upper grip connected to a loadcell.

#### Applications:

- adhesive-backed tape
- adhesive-backed films and foils



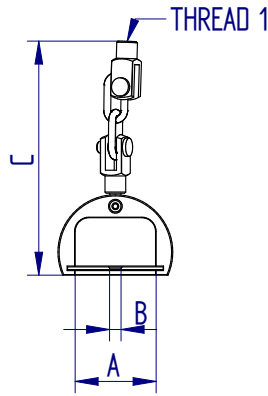
[QC](#) [DATASHEET](#)

Part No.	Load Capacity			Post $\phi$	Rim Width (A)		Wheel Diameter ( $\phi D$ )		Height (C)		Weight	
	200 N	20 kgf	44 lbf		25.4 mm	1.0"	152.4 mm	6.0"	212 mm	8.34"	246 g	0.54 lb
432-265	200 N	20 kgf	44 lbf	QC20	25.4 mm	1.0"	152.4 mm	6.0"	212 mm	8.34"	246 g	0.54 lb



# Textile attachment grips

## Tension



### Button Pull-off Fixture with 3 Plates

This fixture engages the button shank in a slot for testing the tensile strength to failure. Three slotted interchangeable plates accommodate different shank diameters. A shatter-protection guard contains broken buttons. Typically used with the 25 mm / 50 mm 'grab test' textile fixture.

#### Applications:

- buttons

#### DATASHEET

Part No.	Load Capacity			Thread 1	Slot Widths (A)			Max. Button Ø (A)		Length (C)	
	50 N	50 kgf	110 lbf		3 mm / 5 mm / 7 mm	0.12" / 0.2" / 0.28"	35 mm	1.38"	102 mm	4.01"	
432-175	50 N	50 kgf	110 lbf	10-32 UNF	3 mm / 5 mm / 7 mm	0.12" / 0.2" / 0.28"	35 mm	1.38"	102 mm	4.01"	



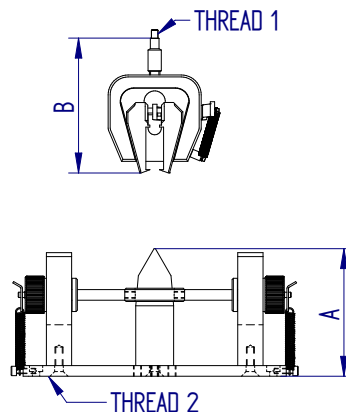
No drawing available

### Sequin Pull-off Fixture

This fixture holds the sequin in the serrated jaw of a pair of clamping forceps hooked over a stainless steel test hook. The sample fabric is held in a suitable lower fixture mounted to the anvil plate - typically the 25 mm / 50 mm "Grab Test" textile fixture.

#### DATASHEET

Part No.	Load Capacity			Thread 1	Length		Weight	
	50 N	5 kgf	11 lbf		157 mm	6.18"	20 g	0.04 lb
432-291	50 N	5 kgf	11 lbf	10-32 UNF	157 mm	6.18"	20 g	0.04 lb



### Diamante Pull-off Fixture

This fixture allows an individual diamante to be placed directly over the pointed anvil edge on the lower part of the fixture, which features a sprung lock ring to hold the fabric in place. The upper part comprises a self-closing pincer jaw which is brought down quickly over the anvil, and then retracted at a constant test speed until it engages with the diamante and pulls it away from the material.

#### Applications:

- diamante

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Grip Length (B)		Anvil Height (A)	
	100 N	10 kgf	22 lbf		6.5 mm	0.26"	108 mm	4.25"	96 mm	3.78"
432-412	100 N	10 kgf	22 lbf	10-32 UNF	6.5 mm	0.26"	108 mm	4.25"	96 mm	3.78"

# Textile attachment grips

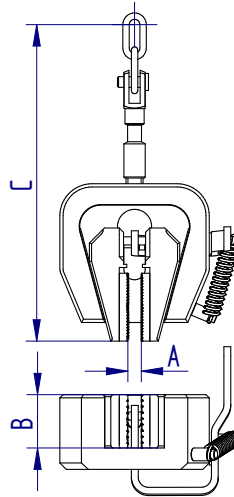
## Tension

### Modified Large Wedge Grip

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.

#### Applications:

- poppers
- press studs



[DATASHEET](#)

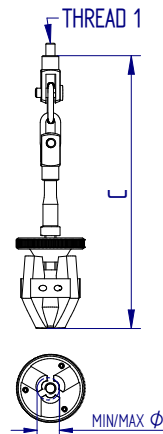
Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
	1 kN	100 kgf	225 lbf		11 mm	0.43"	25 mm	0.98"	160 mm	6.30"	166 g	0.37 lb
432-212	1 kN	100 kgf	225 lbf	10-32 UNF	11 mm	0.43"	25 mm	0.98"	160 mm	6.30"	166 g	0.37 lb

### 3-Jaw Popper Pull-off Fixture

This fixture has 3 jaws and a swivelling action to securely hold 13-15 ligne poppers for tensile test to failure.

#### Applications:

- poppers
- press studs



[DATASHEET](#)

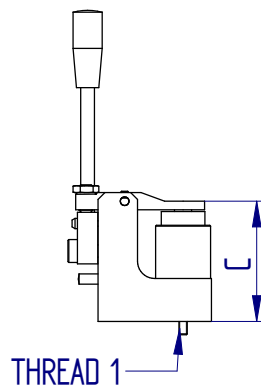
Part No.	Load Capacity			Thread 1	Sample Min./Max. Ø		Popper Size	Length (C)		Weight	
	500 N	50 kgf	110 lbf		6 mm / 13 mm	0.24" / 0.51"		149 mm	5.87"	166 g	0.37 lb
432-409	500 N	50 kgf	110 lbf	M5	6 mm / 13 mm	0.24" / 0.51"	13 - 15 ligne	149 mm	5.87"	166 g	0.37 lb

### Popper Cam Base

The popper cam base is secured to the base of a test stand to test the strength of poppers and press studs. The popper is fed through the retaining hole and positioned over the retaining post. The lever of the cam mechanism is locked down to raise the popper with the fabric so that it can easily be gripped - typically the 3-jaw popper pull-off fixture.

#### Applications:

Used by clothing manufacturers for test-to-failure testing for compliance with BS 7907:2007 on poppers and press studs

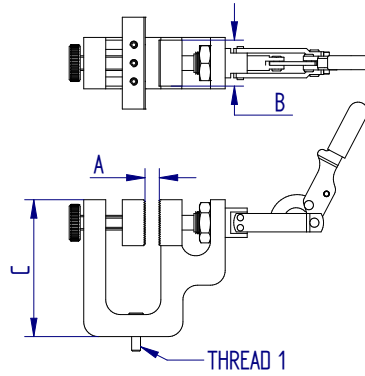
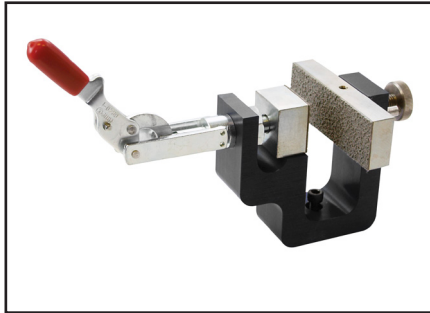


[DATASHEET](#)

Part No.	Load Capacity			Thread	Popper Size	Length (C)		Weight	
	1 kN	100 kgf	225 lbf			68 mm	2.68"	760 g	1.7 lb
432-179	1 kN	100 kgf	225 lbf	10-32 UNF	13 - 15 ligne	68 mm	2.68"	760 g	1.7 lb

# Textile attachment grips

## Tension

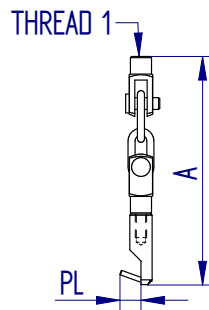
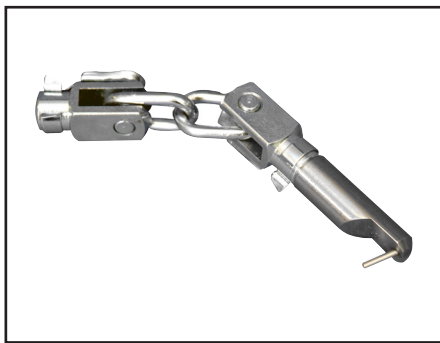


### 25 mm/50 mm "Grab Test" Textile Fixture

The 25 mm/50 mm "grab test" textile fixture has 2 different-sized jaws to comply with standard methods for textile strength and elongation.

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Height (C)		Weight	
432-323	500 N	50 kgf	110 lbf	10-32 UNF	23.5 mm	0.93"	25 mm	0.98"	74 mm	2.91"	400 g	0.88 lb



### Extended Peg Hook (Bow Pull-off Test)

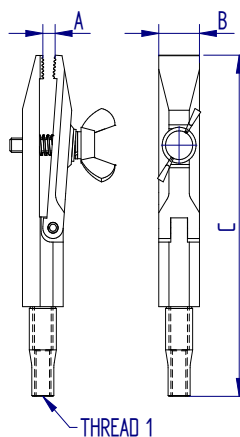
The extended peg hook is used for securely attaching samples of decorations when carrying out test-to-failure tests on textiles and clothing adornments, for example a bow. Often used with the 25 mm / 50 mm 'Grab Test' textile fixture.

#### Applications:

- bows

#### DATASHEET

Part No.	Load Capacity			Thread 1	Length (A)		Peg Length		Peg Ø		Weight	
432-181	50 N	5 kgf	11 lbf	10-32 UNF	97 mm	3.82"	9 mm	0.35"	2 mm	0.08"	42 g	0.09 lb



### Pinch Grip (for testing bows, applique, patches)

Pinch grips are lightweight miniature vice grips, which use a hinge action to grab a sample and a wing nut to tighten the jaw face. Each jaw face has a slight groove to hold the sample securely, yet avoid inducing a break within the grip.

#### Applications:

- thin film
- tissue
- woven yarn

#### DATASHEET

Part No.	Load Capacity			Thread 1	Jaw Capacity (A)		Jaw Width (B)		Length (C)		Weight	
432-280	200 N	20 kgf	44 lbf	M6	9 mm	0.35"	12 mm	0.47"	95 mm	3.744"	70 g	0.15 lb

# Specialist tension fixtures

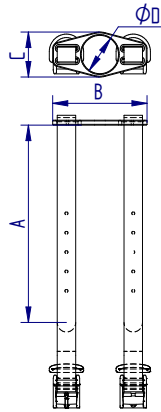
## Tension

### Teddy Bear Fixture

The teddy bear fixture is designed to comply with Toy Safety Standard BS 5665 Part 1:1989, EN 71 PART 1: 1988; testing the integrity of attachments. Base plate included for use with MultiTest-d and MDD. Typically used with the multi-jaw grip.

#### Applications:

- toys



[DATASHEET](#)

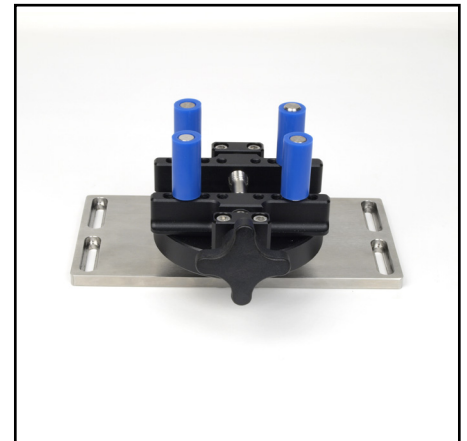
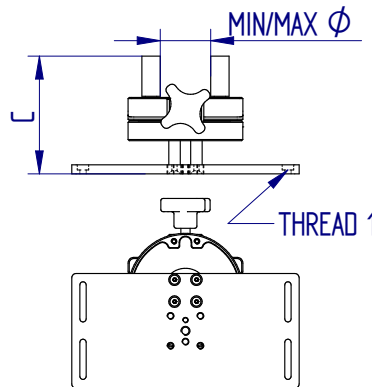
Part No.	Load Capacity			Length (A)		Width (B)		Depth (C)		Diameter (ØD)	
	500 N	50 kgf	110 lbf	270 mm	10.6"	125 mm	4.92"	58 mm	2.28"	49.5 mm	1.95"
432-393	500 N	50 kgf	110 lbf	270 mm	10.6"	125 mm	4.92"	58 mm	2.28"	49.5 mm	1.95"

### Container Holder (4-peg adjustable)

The 4-peg container holder is designed to securely hold different shapes and sizes of containers during tensile testing. Available in two ranges of adjustability.

#### Applications:

- plastic containers

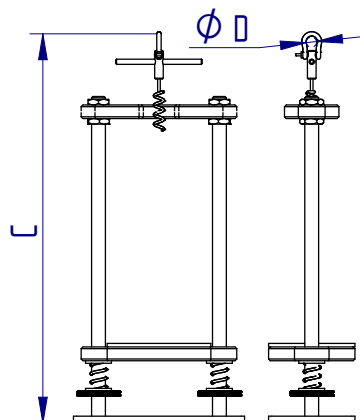


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Container Min./Max. Ø		Height	
	100 N	10 kgf	22 lbf		10 mm / 190 mm	0.39" / 7.48"	102 mm	4.00"
432-411	100 N	10 kgf	22 lbf	4 x M5	10 mm / 190 mm	0.39" / 7.48"	102 mm	4.00"
432-493	100 N	10 kgf	22 lbf	4 x M5	10 mm / 78 mm	0.39" / 3.07"	103 mm	4.04"

### Cork Extraction Test Rig

The cork extraction test rig is used to test the extraction force of bottle stoppers. It has a bottle cradle with an antislip surface and is easily adjusted to accommodate different bottle heights, e.g. 200 ml to 750 ml. It is used in conjunction with corkscrew test accessories suitable for testing natural and synthetic corks.



[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Loop Diameter (ØD)		Length (C)	
	1 kN	100 kgf	225 lbf		13 mm	0.51"	450.5 mm	17.34"
PDV11086	1 kN	100 kgf	225 lbf	4x M5	13 mm	0.51"	450.5 mm	17.34"

# Introduction

## General (tension and compression)

### General (tension and compression)

A number of fixtures can be used under compression or tension, for example a vice grip to position a switch while its button is depressed, or a pin chuck to pull a rod or push a needle.

# Chucks

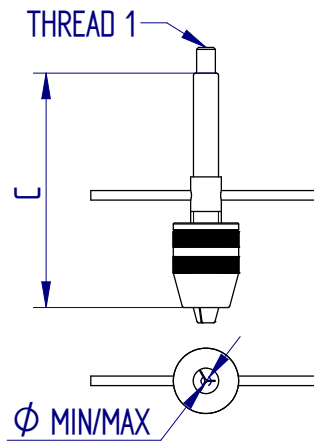
## General (tension and compression)

### Pin Chuck

Pin chucks are specifically designed for gripping circular or rod-type specimens, or needles for sharpness testing.

#### Applications:

- pin or rod components



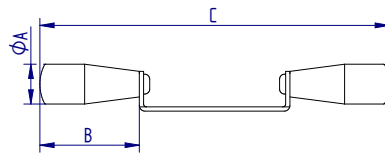
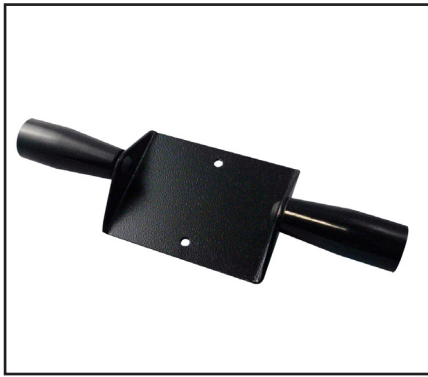
[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Capacity Min./Max. Ø		Length (C)		Weight	
	N	kgf	lbf		mm	in	mm	in	g	lb
432-382	100 N	10 kgf	22 lbf	10-32 UNF	0.5 mm - 3.5 mm	0.02" - 0.14"	61 mm	2.40"	36 g	0.08 lb
432-214	100 N	10 kgf	22 lbf	M6	0.5 mm - 3.5 mm	0.02" - 0.14"	86 mm	3.39"	36 g	0.08 lb



# Manual Handling Accessories

## General (tension and compression)



### Force Gauge Gripping Cradle

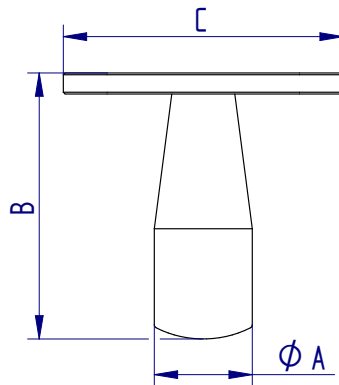
This cradle allows Mecmesin gauges to be used more easily as hand-held instruments. The dual-handle design allows the comfortable application of push/pull loads, with increased stability. Attachment screws supplied.

#### Applications:

- doors
- filing cabinets
- emergency push bars
- handles and controls

### DATASHEET

Part No.	Load Capacity			Handle Diameter (ØA)		Handle Length (B)		Width (C)	
	2.5 kN	250 kgf	550 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"
432-388	2.5 kN	250 kgf	550 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"



### Pistol Grip

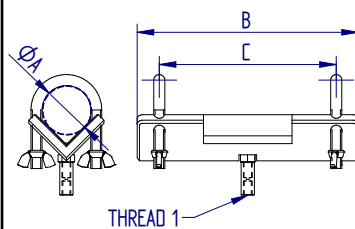
The pistol grip is attached to a Mecmesin force gauge to add comfort and stability in applications where only single-handed operation is possible.

#### Applications:

- doors
- filing cabinets
- emergency push bars
- handles and controls with restricted access

### DATASHEET

Part No.	Load Capacity			Handle Diameter (ØA)		Handle Length (B)		Width (C)	
	500 N	50 kgf	110 lbf	28 mm	1.1"	70 mm	2.76"	80 mm	3.15"
432-389	500 N	50 kgf	110 lbf	28 mm	1.1"	70 mm	2.76"	80 mm	3.15"



### Trolley-Pushing Fixture

The trolley-pushing fixture has been designed to attach to trolleys, carts and wheelie bins so that manual handling measurements can be made more easily. Typically used with a force gauge fitted to the force gauge gripping cradle or pistol grip (order separately).

#### Applications:

- trolleys
- carts
- wheelie bins

### DATASHEET

Part No.	Load Capacity			Gripping Diameter (ØA)		Width (B)		Width (C)	
	1 kN	100 kgf	225 lbf	44 mm	1.73"	200 mm	7.87"	160 mm	6.3"
432-405	1 kN	100 kgf	225 lbf	44 mm	1.73"	200 mm	7.87"	160 mm	6.3"

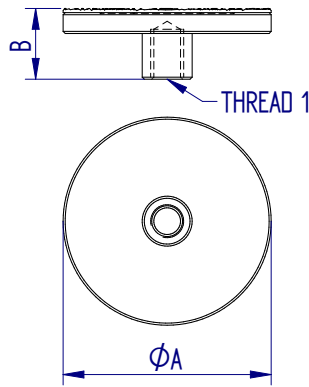
# Manual Handling Accessories General (tension and compression)

## Rubber-faced Compression Plate

This compression plate has a rubber layer which helps to prevent damage that might occur from metal contact during a push test. Also prevents slipping.

### Applications:

- handles and bars
- slippery or curved samples
- glass

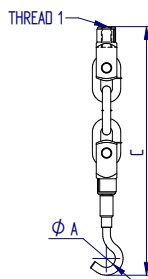


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	2.5 kN	250 kgf	550 lbf		50 mm	1.97"	17 mm	0.67"	84 g	0.19 lb
432-219	2.5 kN	250 kgf	550 lbf	5/16 UNC	50 mm	1.97"	17 mm	0.67"	84 g	0.19 lb

## Chain Link and Hook Assembly

The chain link and hook assembly is used to attach to a variety of objects, which are otherwise difficult to hold. The chain is 1 m long and is supplied with a clevis fastener at each end.

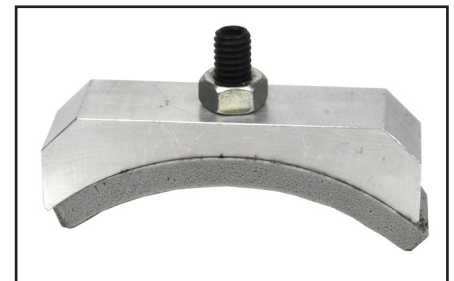
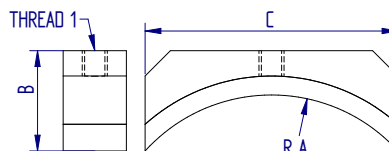


[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Max. Sample Diameter (ØA)		Length (B)	
	2.5 kN	250 kgf	550 lbf		14 mm	0.55"	187 ±25 mm	7.352" ±0.98"
432-410	2.5 kN	250 kgf	550 lbf	5/16 UNC	14 mm	0.55"	187 ±25 mm	7.352" ±0.98"

## Padded Radiused Probe

The padded radiused probe is specially designed for use against limbs for rehabilitation and physical therapy assessment. Use with a short extension rod.



[DATASHEET](#)

Part No.	Load Capacity			Thread 1	Radius (A)		Height (B)		Width (C)	
	500 N	50 kgf	110 lbf		54 mm	2.13"	32 mm	1.249"	80 mm	3.15"
432-414	500 N	50 kgf	110 lbf	5/16 UNC	54 mm	2.13"	32 mm	1.249"	80 mm	3.15"

## Transit Case for Manual Handling/ Ergonomic Kit

A foam-lined rugged metal case for the components of the advanced or basic manual handling kit. Supplied as standard with the kit, has space for: a force gauge including rechargeable batteries, mains adapter/battery charger, gripping cradle, chain link assembly, fixing strap, 50 mm rubber-faced compression plate and test hook.

No drawing available



[DATASHEET](#)

Part No.	Weight	
416-007	2.61 kg	5.76 lb

# Miscellaneous Accessories

## General (tension and compression)



No drawing available

### Adapter/Charger for use with AFG/AFTI/BFG

For use with Mecmesin AFG/BFG digital gauges and the AFTI universal display. Versions for specific geographical locations are available.

#### DATASHEET

Part No.	Region	Voltage	Pins	Type
304-004	Europe	230 V	2-pin	Round
304-005	UK	230 V	3-pin	Square
304-006	USA	110 V	2-pin	Flat



No drawing available

### Adapter/Charger for Use With CFG

For use with the Mecmesin CFG+ digital gauge. Versions for specific geographical locations are available.

#### DATASHEET

Part No.	Region	Voltage	Pins	Type
350-026	Europe	230 V	2-pin	Round
350-027	UK	230 V	3-pin	Square
350-028	USA	110 V	2-pin	Flat

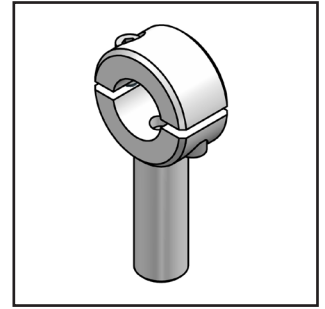
# Miscellaneous Accessories

## General (tension and compression)

### The Dial Gauge Bracket Set

The dial gauge bracket set allows an analogue gauge to be securely fitted to the MDD manual test stand.

No drawing available



Part No.
432-167

### Dust Covers

Dust covers offer protection to Mecmesin's motorised test stands in dusty and dirty environments. They are durable and easy to clean, and feature quick-acting Velcro fastening strips for simple fitting and removal.

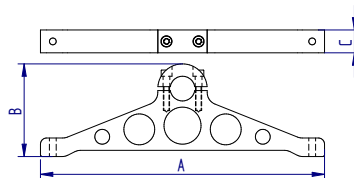
No drawing available



Part No.	System
432-481	Vortex-d, Vortex-i
432-482	Vortex-xt
432-483	Multitest 2.5-d, Multitest 2.5-i
432-484	Multitest 2.5-xt

### MDD Horizontal Feet Kit

The MDD horizontal feet kit allows for the horizontal operation of the MDD manual test stand.



[DATASHEET](#)

Part No.	Width (A)		Height (B)		Depth (C)		Length	
	mm	in	mm	in	mm	in	mm	in
432-126	230 mm	9.06"	75 mm	2.95"	18.5 mm	0.73"	187 ±25 mm	7.352" ±0.98"

# Introduction

## Adapters (tension and compression)

### Adapters

A number of fixtures under test conditions require height extension, or connector thread, gender or size conversion. We have here a selection of parts, including mounting brackets, to ensure the best fixturing for your test.



No drawing available

### Adapters

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.

### DATASHEET

Part No.	Load Capacity			Thread	Length		Weight	
432-193	1 kN	100 kgf	225 lbf	10-32 M to M6 F	25 mm	0.98"	6 g	0.01 lb
432-293	5 kN	500 kgf	1100 lbf	5/16 F to 5/16 F	35 mm	1.38"	19 g	0.04 lb
432-328	1 kN	100 kgf	225 lbf	10-32 F to 10-32 F	30 mm	1.18"	4 g	0.01 lb
432-329	1 kN	100 kgf	225 lbf	10-32 F to 5/16 F	25 mm	0.98"	8 g	0.02 lb
432-330	5 kN	500 kgf	1100 lbf	5/16 F to M6 F	25 mm	0.98"	6 g	0.01 lb
432-331	5 kN	500 kgf	1100 lbf	5/16 M to M12 M	29 mm	1.14"	21 g	0.05 lb
432-332	5 kN	500 kgf	1100 lbf	5/16 M to M12 F	34 mm	1.34"	—	—
432-333	5 kN	500 kgf	1100 lbf	5/16 M to M10 M	29 mm	1.14"	—	—
432-334	1 kN	100 kgf	225 lbf	M6 F to M6 F	25 mm	0.98"	5 g	0.01 lb
432-335	10 kN	1000 kgf	2200 lbf	M10 M to M12 M	29 mm	1.14"	—	—
432-364	1 kN	100 kgf	225 lbf	10-32 M to M10 M	29 mm	1.14"	—	—
432-417	1 kN	100 kgf	225 lbf	10-32 F to M6 F	25 mm	0.98"	5 g	0.01 lb

# Adapters

## Adapters (tension and compression)

### Extension Rods

Extension rods are used to add length between a force gauge and another fixture, e.g. compression plate or test hook.

No drawing available

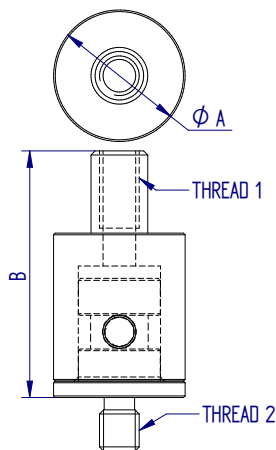


[DATASHEET](#)

Part No.	Load Capacity			Securing	Thread	Length		Weight	
	1 kN	100 kgf	225 lbf			mm	in	g	lb
432-006	1 kN	100 kgf	225 lbf	thumbwheel	10-32 M to 10-32 F	30 mm	1.18"	20 g	0.04 lb
432-007	1 kN	100 kgf	225 lbf	—	M6 M to 10-32 UNF F	30 mm	1.18"	20 g	0.04 lb
432-008	5 kN	500 kgf	1100 lbf	—	5/16 UNC - M to F	30 mm	1.18"	32 g	0.07 lb
432-116	1 kN	100 kgf	225 lbf	nut	10-32 UNF - M to F	30 mm	1.18"	7 g	0.02 lb
432-117	1 kN	100 kgf	225 lbf	—	10-32 UNF - M to F	130 mm	5.12"	28 g	0.06 lb
432-123	2.5 kN	250 kgf	550 lbf	—	5/16 UNC - M to F	130 mm	5.12"	111 g	0.24 lb
432-186	500 N	50 kgf	110 lbf	—	M6 - M to F	25 mm	0.98"	—	—
432-187	500 N	50 kgf	110 lbf	—	M6 - M to F	130 mm	5.12"	—	—

### Swivel Adapter

Swivel adapters are used for easy alignment of samples to fixtures.



[DATASHEET](#)

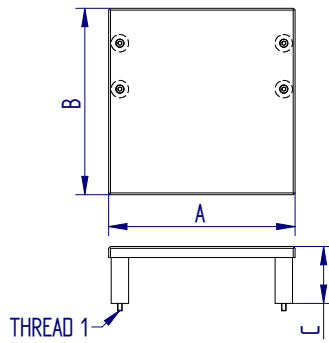
Part No.	Load Capacity			Thread 1	Thread 2	Diameter (AØ)		Length (B)		Weight	
	1 kN	100 kgf	225 lbf			mm	in	mm	in	g	lb
432-133	1 kN	100 kgf	225 lbf	10-32 UNF M	10-32 UNF F	16 mm	0.63"	32.5 mm	1.28"	31 g	0.07 lb
432-174	1 kN	100 kgf	225 lbf	M6 M	M6 F	16 mm	0.63"	32.5 mm	1.28"	33 g	0.07 lb



# Mounting brackets

## Adapters (tension and compression)

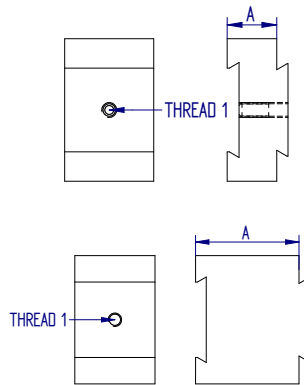
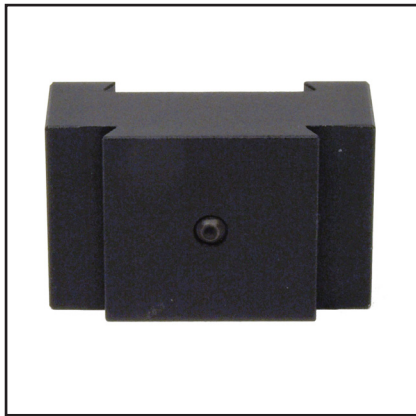
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### Crosshead Extension and Elevated Base Plate

The 38 mm crosshead extension and elevated base plate are used together for fitting larger samples up to 200 mm diameter, to a single-column MultiTest system.

Part No.	Load Capacity			Thread 1	Width (A)		Depth (B)		Height (C)	
	2.5 kN	250 kgf	550 lbf		203 mm	7.99"	203 mm	7.99"	62 mm	2.44"
432-406	2.5 kN	250 kgf	550 lbf	M5	203 mm	7.99"	203 mm	7.99"	62 mm	2.44"



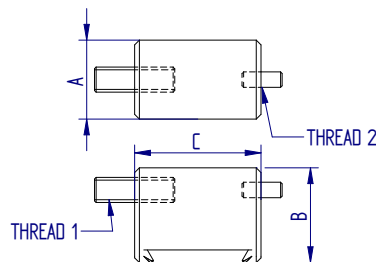
### Crosshead Extension

The crosshead extension allows the loadcell on a single-column MultiTest stand to be positioned further from the column, to accommodate larger test samples.

### DATASHEET

Part No.	Thread 1	Depth (A)	
		16 mm	0.63"
432-307	M5	16 mm	0.63"
PDV6028-01	M5	38 mm	1.50"

No image available



### Tension Block Module

The tension block module allows the LCP/S lever-operated manual test stand to apply compressive load when pulling its lever.

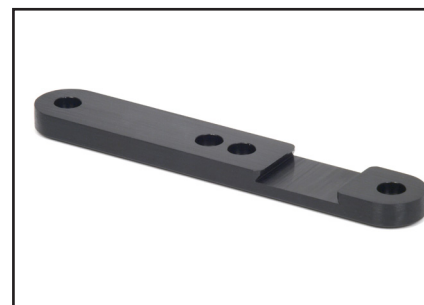
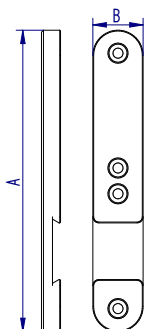
Part No.	Load Capacity			Thread 1	Thread 2	Length (C)	
	2.5 kN	250 kgf	550 lbf			40 mm	1.57"
ACC008-204	2.5 kN	250 kgf	550 lbf	5/16 UNC	10-32 UNF	40 mm	1.57"

# Mounting brackets

## Adapters (tension and compression)

### Extended Dovetail Bracket

The extended dovetail bracket is used for mounting Mecmesin Advanced Force Gauge (AFG) and Basic Force Gauge (BFG) force gauges to the crosshead of manual and motorised test stands, to allow precise lateral alignment of the gauge. The extended length provides 70 mm (2.76") of extra daylight. Supplied with socket-head fixing screws M5 x 10 mm.

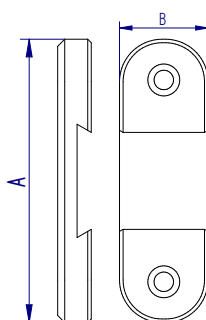


[DATASHEET](#)

Part No.	Height (A)		Width (B)	
	mm	in	mm	in
432-326	150	5.91"	25	0.98"

### Dovetail Bracket

The dovetail bracket is used for mounting Mecmesin Advanced Force Gauge (AFG) and Basic Force Gauge (BFG) force gauges to the crosshead of manual and motorised test stands, to allow precise lateral alignment of the gauge. Supplied with socket-head fixing screws M5 x 10 mm.

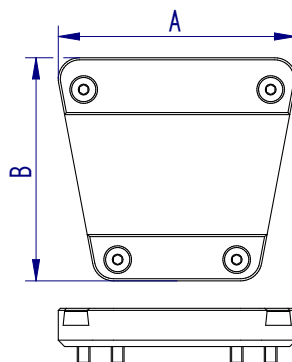


[DATASHEET](#)

Part No.	Height (A)		Width (B)	
	mm	in	mm	in
432-427	80	3.15"	25	0.98"

### CFG+ Mounting Plate

The CFG mounting plate allows a Mecmesin Compact Force Gauge+ (CFG+) to be mounted onto the crosshead of a test stand. Supplied with 4 x M3 fixing screws.



[DATASHEET](#)

Part No.	Height (B)		Width (A)	
	mm	in	mm	in
432-131	56	2.2"	9	0.36"

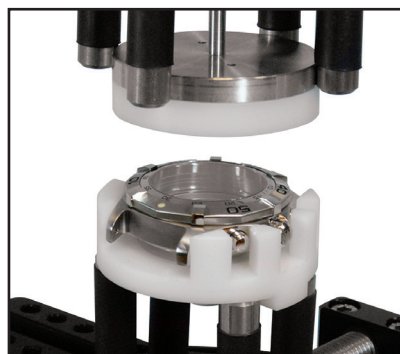
### Torque

Torque testing involves measuring what it takes to rotate one component against another. Bearings, for example, are meant to rotate very freely, and the torque testing measures unevenness in manufacture or wear, or the torque required to initiate free-running rotation. Other tests involve fastening or closure, and the torque required to secure or release a screw cap or a screw fastener. In manufactured products, tolerances in torque performance are crucial. In some cases, torque and force are combined, for example to extract a crown cork from a bottle, or release a child-resistant closure from a container. Measuring these turning forces requires test systems and fixtures that ensure precise repeatability through correct alignment and gripping.



### Types of torque test for which we can supply fixtures

- removal torque
- strip torque
- incremental torque
- bridge torque
- reverse ratchet torque
- breakaway torque
- running torque
- rotational shear
- fastening torque
- breaking torque test

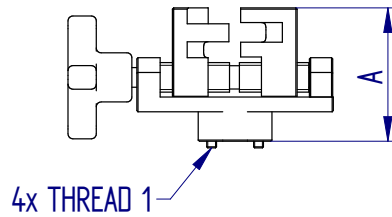


# Torque Accessories

## Torque

### Mini V-block

The mini V-block is a precision-engineered mounting block which allows smaller samples to be securely held in a centrally-aligned position, without excessive clamping force.



### V-block Fixtures to hold "irregular shaped" samples

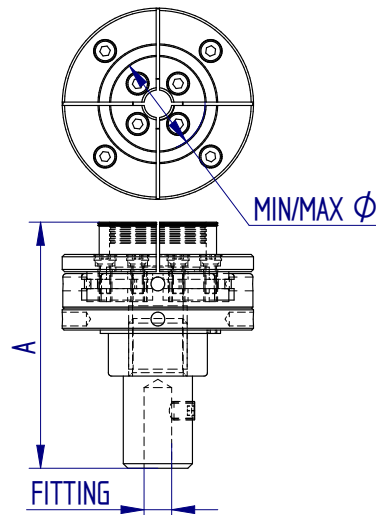
Alternative V-block fixtures can be designed and manufactured for specific requirements. Contact Mecmesin for details.

[DATASHEET](#)

Part No.	Thread 1	Jaw Capacity		Height (A)	
432-423	4 x M4	5 - 26 mm	0.2" - 1.02"	54 mm	2.13"

### Keyless Chuck, QC fitting

Keyless chucks are available as the upper and/or lower fixing. The upper keyless chuck (with square drive fitting) can only be used with the 6 N.m and 10 N.m sensors.



[QC](#) [DATASHEET](#)

Part No.	Type	Fitting	Sample Min./Max. Ø		Height (A)	
432-444	Upper Keyless Chuck	3/8" square	23 mm / 35 mm	0.91" / 1.38"	75 mm	2.95"
432-445	Lower Keyless Chuck	—	37.5 mm / 70 mm	1.48" / 2.76"	107 mm	4.21"
432-496	Lower Keyless Chuck	—	23 mm / 35 mm	0.91" / 1.38"	103 mm	4.05"

### Dedicated Mandrels

Dedicated moulded mandrels avoid distortion of the closure on gripping. Mecmesin's closure holders may be custom-moulded to suit your specific closure design.

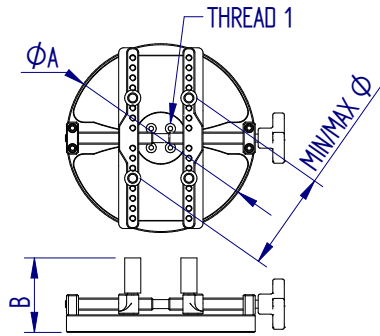
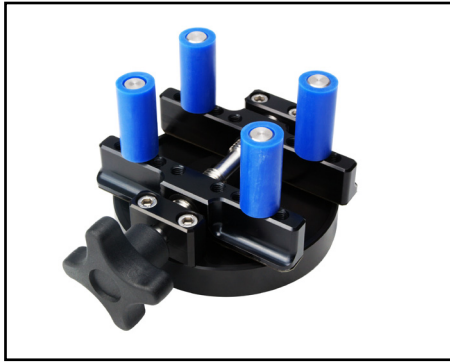
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Contact Mecmesin with your specific requirements

# Torque Accessories

## Torque

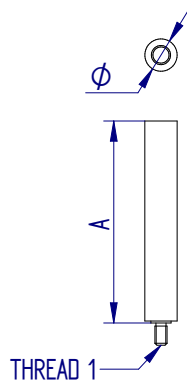


### Fixing Tables

Upper and lower fixing tables offer highly versatile sample fixturing, fully adjustable to accommodate a variety of forms. Four pegs are supplied which screw into appropriate points to suit sample dimensions. Note: the upper fixing table can only be used with the 6 N.m and 10 N.m sensors.

### DATASHEET

Part No.	Type	Thread 1	Capacity Min./Max. Ø		Diameter (ØA)		Height		Weight	
432-320	Lower Fixing Table	4 x M4	10 mm / 190 mm	0.39" / 7.48"	188 mm	7.4"	74 mm	2.92"	950 g	2.10 lb
432-321	Upper Fixing Table	4 x M4	10 mm / 78 mm	0.39" / 3.07"	100 mm	3.94"	74 mm	2.92"	475 g	1.05 lb



### Set of 4 Pegs

These pegs attach to the upper and lower fixing tables to keep samples secure during torque testing. The extended length pegs are to keep taller samples vertically aligned.

### DATASHEET

Part No.	Thread 1	Diameter Ø		Length (A)	
432-447	M6	16 mm	0.63"	35 mm	1.38"
432-250	M6	16 mm	0.63"	100 mm	3.94"



See data sheet for detailed drawing

### Saddle Plates

For 1.5 N.m and 3 N.m Tornado. Saddle plates provide a more stable base on which to mount awkwardly shaped samples. Held in place by standard or extended pegs.

Saddle plates provide a more stable base on which to mount awkwardly shaped samples. Held in place by standard or extended pegs. For Orbis, Tornado or Vortex.

### DATASHEET

Part No.	
432-407	Please see data sheet for full details
432-424	



### Calibration Check Rig

The calibration check rig is a bench-top unit which allows the on-site verification of the calibration status of Orbis MkII, Tornado MkII testers, and static torque sensors rated from 1.5 N.m to 10 N.m. Using dead-weight masses, the kit allows you to quickly decide whether or not adjustment, recalibration or repair is required. The kit does not replace the need for regular professional calibration.

See data sheet for detailed drawing



[DATASHEET](#)

Part No.	Please see data sheet for full details
432-408	

### Torque Reference Bottle

The Torque Reference Bottle (or "Gold Bottle") provides a means of quickly verifying the calibration of motorised torque measuring systems. It repeatedly slips at a specified torque value between 9-17 lbf.in (1-1.9 N.m). Use the part number to specify the torque to the nearest 1/2 lbf.in. Connects to the torque cell with a standard 1/4"-3/8" adapter or a Drive Adapter (use with 4 fixing pegs).

See data sheet for detailed drawing



[DATASHEET](#)

The Drive Adapter is fitted in the upper fixture (Mounting Table and 4 Pegs) of the torque measuring system to drive the Torque Reference Bottle.

Part No.	Please see data sheet for full details
PDV-12093-xx	
PDV 12106	

### Waterproof Carry-case for Orbis and Tornado

This waterproof, rugged plastic case provides protection and easy portability for Orbis and Tornado digital torque testing instruments.

See data sheet for detailed drawing



[DATASHEET](#)

Part No.	Please see data sheet for full details
432-422	



# DATASHEETS

## Hardened and Ground Compression Plate, QC fitting



### Description

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.

### Applications

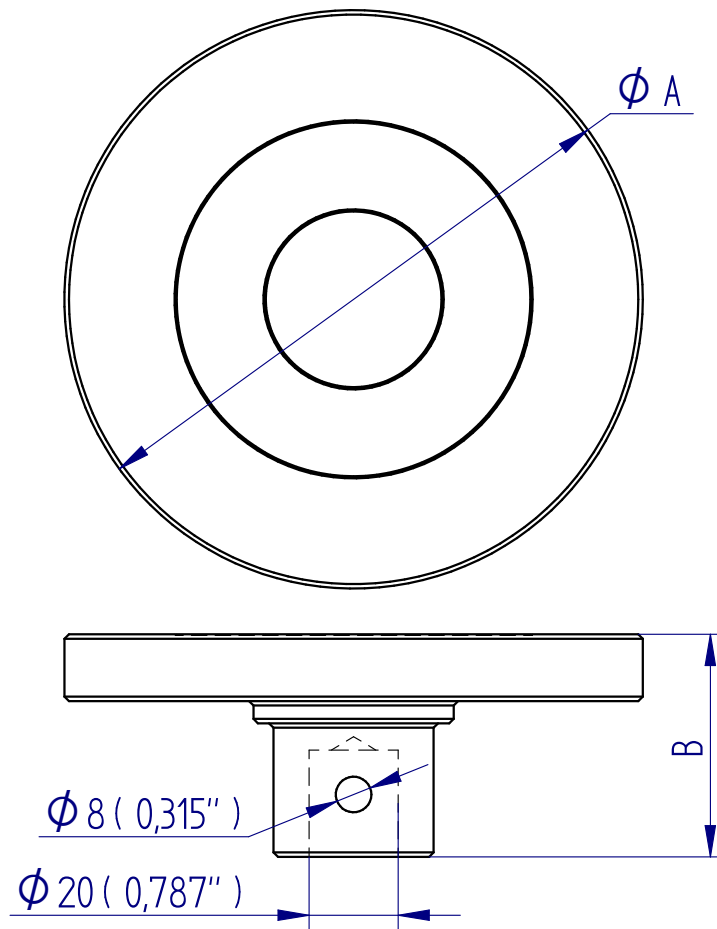
Used for compression testing of:

- springs
- bottles
- cans
- polymer foams

### Specifications

Part No.	Load Capacity			Post Ø	Diameter (ØA)		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		130 mm	5.12"	51 mm	2.01"	3.2 kg	7.05 lb
432-342	5 kN	500 kgf	1100 lbf	QC20	130 mm	5.12"	51 mm	2.01"	3.2 kg	7.05 lb
432-480	5 kN	500 kgf	1100 lbf	QC20	50 mm	1.97"	54 mm	2.13"	—	—

## Dimensions mm (inch)



DISTRIBUTOR STAMP

DS-1001-01

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FS 58553

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## Nickel Plated Compression Plates



### Description

Nickel plated compression plates are resistant to rusting.

### Applications

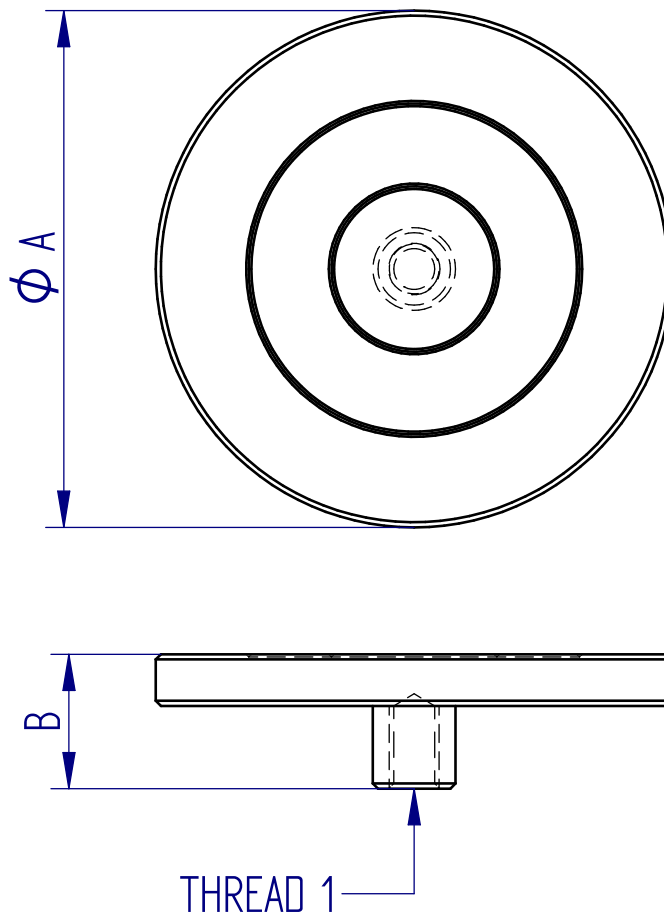
Used for compression testing of:

- metals
- mortar
- cement
- plaster

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		12 mm	0.47"	12 mm	0.47"	6 g	0.01 lb
432-119	5 kN	500 kgf	1100 lbf	10-32 UNF	12 mm	0.47"	12 mm	0.47"	6 g	0.01 lb
432-188-F95	5 kN	500 kgf	1100 lbf	M6	12 mm	0.47"	12 mm	0.47"	5 g	0.01 lb
432-121	5 kN	500 kgf	1100 lbf	10-32 UNF	19 mm	0.75"	16 mm	0.63"	12 g	0.03 lb
432-125	5 kN	500 kgf	1100 lbf	5/16 UNC	19 mm	0.75"	19 mm	0.75"	17 g	0.04 lb
432-005	5 kN	500 kgf	1100 lbf	M6	19 mm	0.75"	16 mm	0.63"	10 g	0.02 lb
432-343	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	79 g	0.17 lb
432-344	5 kN	500 kgf	1100 lbf	5/16 UNC	50mm	1.97"	16 mm	0.63"	84 g	0.19 lb

## Dimensions mm (inch)



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## Rubber-Faced Compression Plates



### Description

The rubber-faced compression plate has a rubber layer which helps to prevent damage to the sample that would occur from metal contact during a compression test. Also increases grip at the point of force application on low friction or curved specimens.

### Applications

Used for compression testing of components:

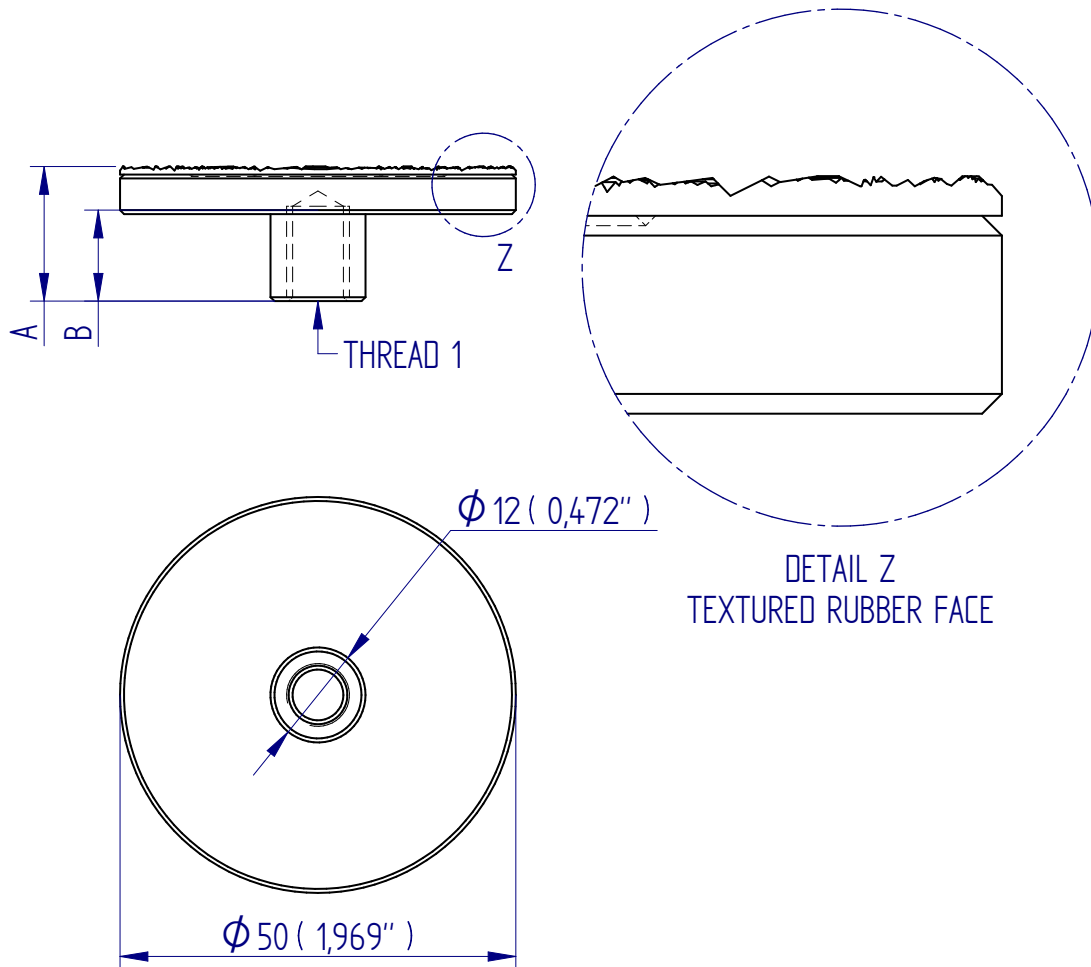
- metals
- glass
- slippery or curved samples

### Specifications

Part No.	Load Capacity			Thread 1	Diameter Ø		Height (A)		Height (B)		Weight	
	kN	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-219	2.5	250	550	5/16 UNC	50	1.97"	17	0.67"	17	0.67"	84	0.19
432-220	5	500	1100	10-32 UNF	50	1.97"	13	0.52"	13	0.51"	—	—



## Dimensions mm (inch)



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## Hardened and Ground Compression Plate



### Description

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.

### Applications

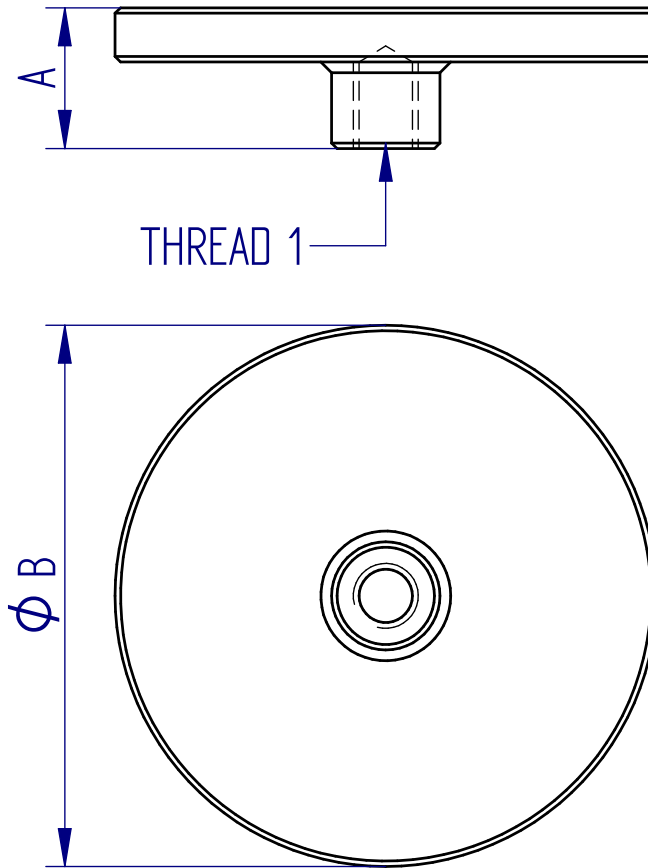
Used for compression testing of:

- springs
- bottles
- cans
- polymer foams

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		50 mm	1.97"	13 mm	0.51"	—	—
432-197	5 kN	500 kgf	1100 lbf	M6	50 mm	1.97"	13 mm	0.51"	—	—
432-336	5 kN	500 kgf	1100 lbf	10-32 UNF	12 mm	0.47"	12 mm	0.47"	6 g	0.01 lb
432-337	5 kN	500 kgf	1100 lbf	10-32 UNF	19 mm	0.75"	12 mm	0.47"	12 g	0.03 lb
432-338	5 kN	500 kgf	1100 lbf	5/16 UNC	70 mm	2.76"	20 mm	0.79"	301 g	0.66 lb
432-341	5 kN	500 kgf	1100 lbf	5/16 UNC	100 mm	3.94"	20 mm	0.79"	624 g	1.37 lb
432-446	5 kN	500 kgf	1100 lbf	5/16 UNC	175 mm	6.89"	20 mm	0.79"	2 kg	4.41 lb
432-172-F95	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	—	—

## Dimensions



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## Compression Plates, QC fitting

### Mec23-AL Aluminium platen

- For soft samples, cardboards, plastics etc.
- Aluminium anodized
- Temperature range: -70°C - +180°C
- Max capacity depends on the size of coupling

#### Ordering information

Scope of delivery: 1 pair

Item number	Diameter	Coupling	Weight / each platen
Mec23-56-B-AL	56 mm	B*	~0.1kg
Mec23-96-B-AL	96 mm	B*	~0.3kg
Mec23-116-B-AL	116 mm	B*	~0.4kg
Mec23-156-B-AL	156 mm	B*	~0.6kg
Mec23-196-B-AL	196 mm	B*	~1.2kg
Mec23-246-B-AL	246 mm	B*	~1.5kg
Mec23-296-B-AL	296 mm	B*	~3.3kg

Platens with other dimensions and surfaces on request



### Mec23-St Steel platen

- For hard materials, steel, plastics, stone etc.
- Hardened steel 58 HRC, manganese phosphated
- Temperature range: 0°C - +350°C
- Nickel plated: -70°C - +350°C (on request)
- Max capacity depends on the size of coupling

#### Ordering information

Scope of delivery: 1 pair

Item number	Diameter	Coupling	Weight / each platen
Mec23-56-B-St	56 mm	B*	~0.3kg
Mec23-96-B-St	96 mm	B*	~0.7kg
Mec23-116-B-St	116 mm	B*	~1.1kg
Mec23-156-B-St	156 mm	B*	~1.6kg
Mec23-196-B-St	196 mm	B*	~4.0kg
Mec23-246-B-St	246 mm	B*	~4.3kg
Mec23-296-B-St	296 mm	B*	~9.0kg
Mec23-346-B-St	346 mm	B*	-

Platens with other dimensions and surfaces on request

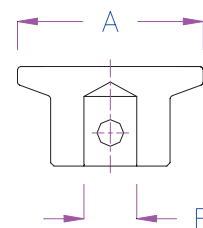


#### Description of Item number: Mec23-A-B-C

**A** Diameter of platen [mm] 56, 96, 116, 156, 196...etc

**B\*** Quick change fitting, QC-20 mm and 32 mm

**C** Material: AL = Aluminium St = Steel



**Mec23 Platens are rigid platens. For self adjusting platens see**

Mec23 and MecS223 platens can be combined.

Ordering Information for combination rigid + self adjusting platen: 0.5 pair Mec23 + 1x MecS223

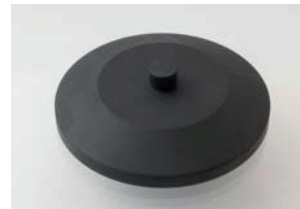
Examples for other versions and special solutions



Mec23-116-159-AL with additional adapter  
MecS626-158-158



Mec23-156-38-Ni: Nickel plated steel platen  
Temperature range -70°C - +350°C



Mec23-156-Am20-St



Mec23-196-30-St-M8  
Steel platen with M8 thread

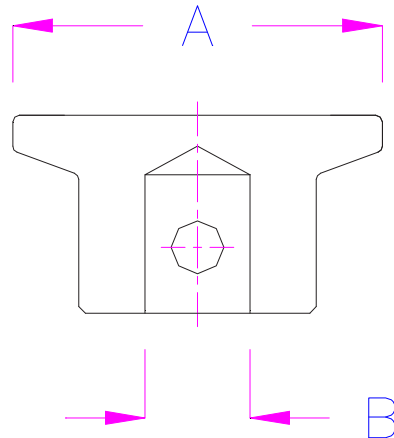


Mec23-20-Am12-St



Mec23-56-Af159-V2A

## Dimensions mm (inch)



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## Compression Plates, QC fitting

### Mec36 Aluminum Compression platen

- Soft samples, cardboards, plastics, etc.
- Aluminum anodized
- Temperature range: -70°C - +180°C
- Max capacity depends on the size of coupling
- Scope of supply 1 pair

Item number	Dimensions	Weight/each platen
Mec36-50	50 x 50mm	0.20 kg
Mec36-100	100 x 100mm	0.52 kg
Mec36-120	120 x 120mm	0.78 kg
Mec36-120x180	120 x 180mm	1.14 kg
Mec36-125x250	125 x 250mm	1.73 kg
Mec36-150	150 x 150mm	1.23 kg
Mec36-150x300	150 x 300mm	2.35 kg
Mec36-200	200 x 200mm	2.10 kg
Mec36-250	250 x 250mm	3.40 kg
Mec36-300	300 x 300mm	4.35 kg
Mec36-350	350 x 350mm	6.60 kg
Mec36-400	400 x 400mm	8.70 kg
Mec36-400x600	400 x 600mm	13.40 kg
Mec36-500	500 x 500mm	14.00 kg

Further dimensions and versions on request



### Mec36-St Steel Compression platen

- Hard materials, steel, plastics, stone etc.
- Hardened steel 58HRC
- Temperature range: 0°C - +350°C
- Nickel plated: -70°C - +350°C (on request)
- Max capacity depends on the size of coupling
- Scope of supply 1 plate

Item number	Dimensions	Weight
Mec36-100-St	100 x 100mm	1.54 kg
Mec36-196-St	196 x 196mm	6.60 kg
Mec36-246-St	246 x 246mm	10.40 kg
Mec36-296-St	296 x 296mm	13.60 kg
Mec36-396-St	396 x 396mm	33.00 kg
Mec36-396x496-St	396 x 496mm	41.00 kg
Mec36-396x596-St	396 x 596mm	50.00 kg

Further dimensions and versions on request

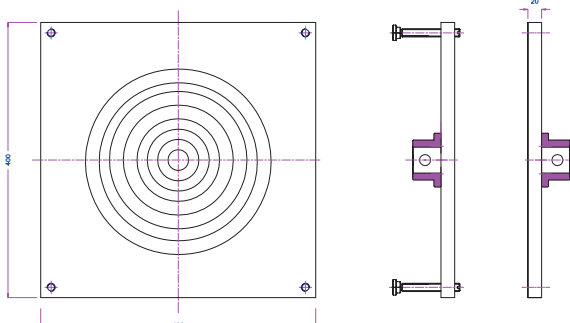


### Mec36-L Aluminum plate

- Perforated platen suitable for foam testing.
- Aluminum anodized
- Diameter of holes: 6 mm spaced 20 mm
- Temperature range : 0°C - +180°C
- Max capacity depends on the size of coupling
- Scope of supply 1 plate

Item number	Dimensions	Weight
Mec36-120-L6x20	120 x 120mm	0.74kg
Mec36-150-L6x20	150 x 150mm	1.10kg
Mec36-150x220-L6x20	150 x 220mm	1.68kg
Mec36-400-L6x20	400 x 400mm	8.20 kg

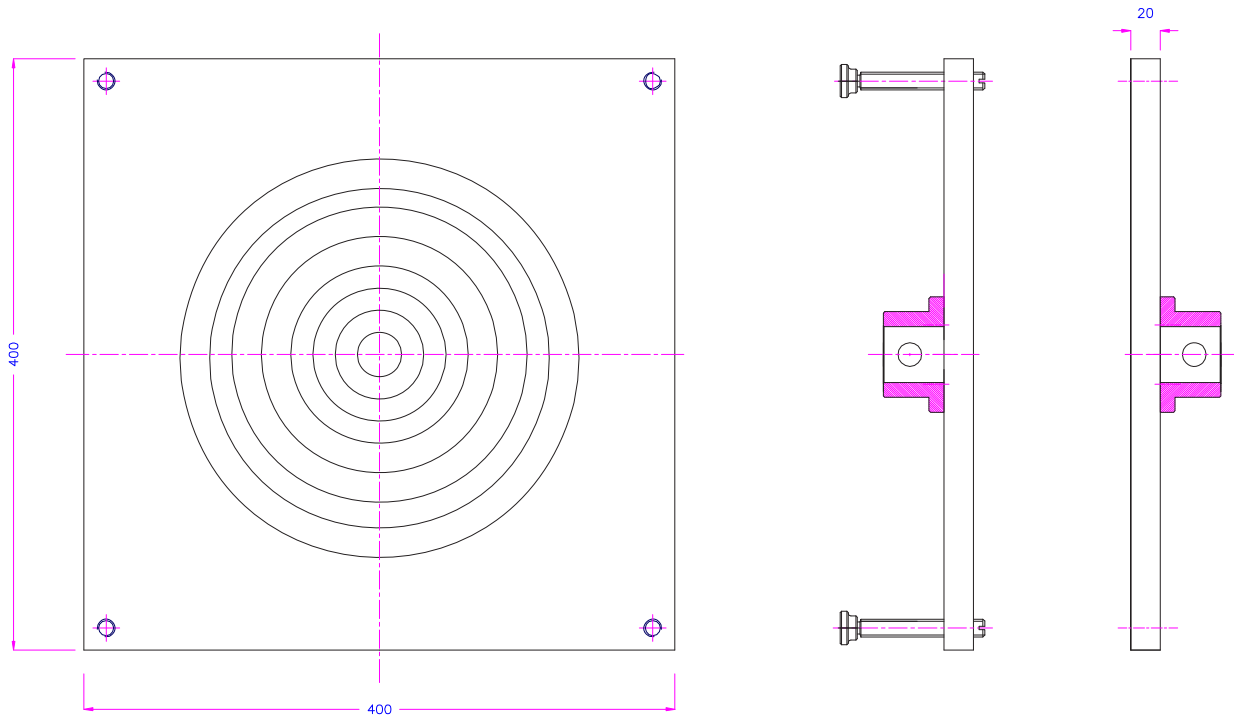
Further dimensions and versions on request



Mec36-D296-Am318  
Special design



## Dimensions mm (inch)



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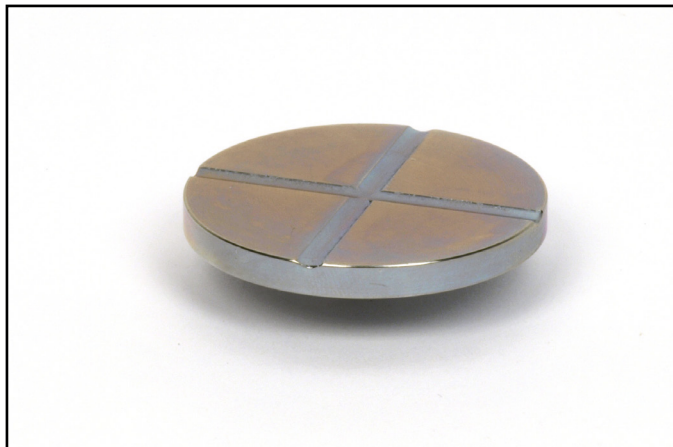
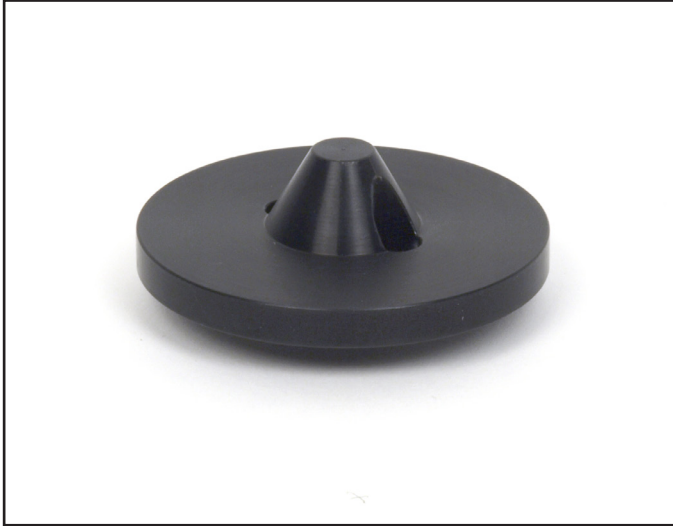
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## Vented Compression Plates



### Description

Vented compression plates are ideal for top-load/crush testing of containers such as PET bottles. Two circular vents allow air to escape from the container during compression and an integrated nose cone helps to position containers centrally, minimising bottle slippage during testing. These compression plates are suitable for bottles with necks up to 50 mm (1.97") in diameter.

### Applications

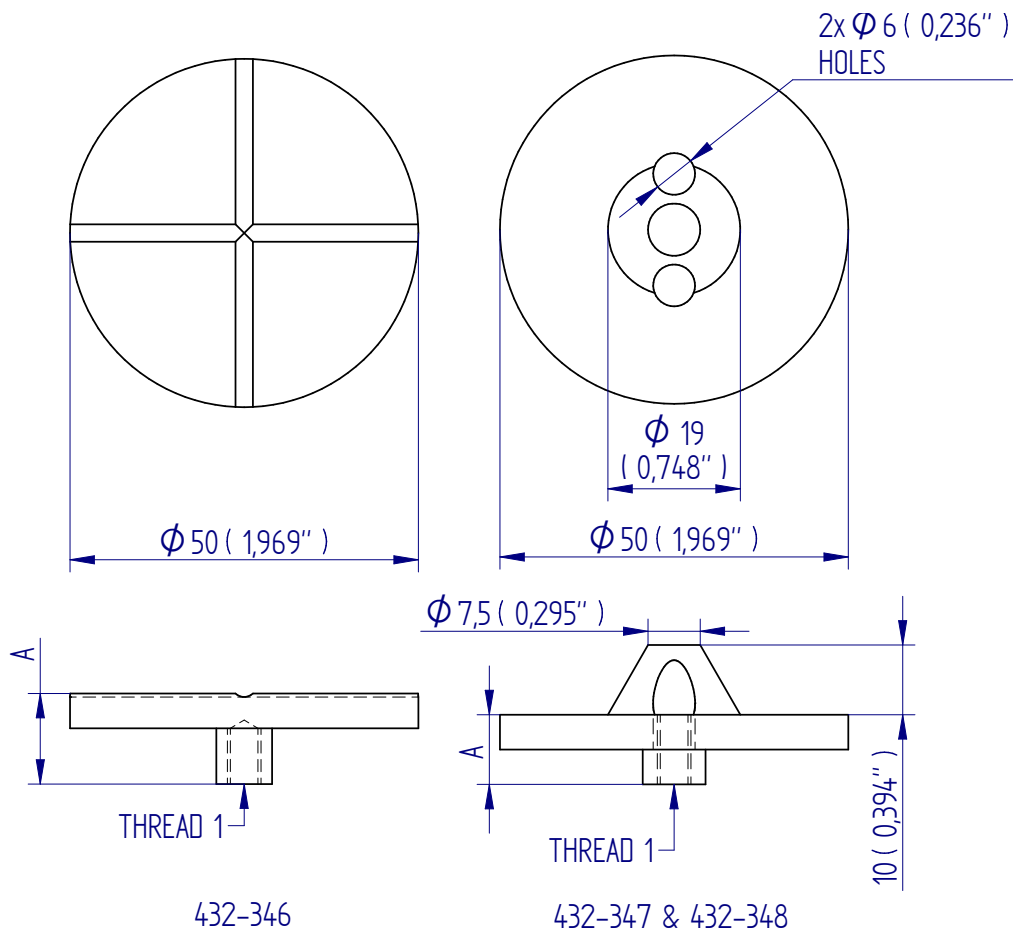
Used for compression testing of:

- plastic bottles
- PET containers

### Specifications

Part No.	Load Capacity			Thread 1	Diameter Ø		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb
432-346	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	13 mm	0.51"	50 g	0.11 lb
432-347	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	20 mm	0.79"	50 g	0.11 lb
432-348	5 kN	500 kgf	1100 lbf	5/16 UNC	50 mm	1.97"	22 mm	0.87"	50 g	0.11 lb

## Dimensions mm (inch)



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## Self-levelling Compression Plates, QC fitting

Self-aligning and fixable platen.  
Spherically seating - the platen adjusts to the specimen.  
It is also possible to fix the platen at the required position.

MecS223k: for couplings  $\varnothing$  12 - 25 mm  
MecS223g: for couplings  $\varnothing$  30 - 40 mm

- Applicable for metal specimens, concrete etc
- Hardened steel 58 HRC, phosphate coating
- Temperature range: 0°C - +280°C  
Nickel plated: -70°C - +280 °C (on request)

MecS223i: for couplings up to  $\varnothing$  8 mm

- For low weight specimens (packaging material etc)
- Aluminum, anodized
- Temperature range: -70°C - +180°C

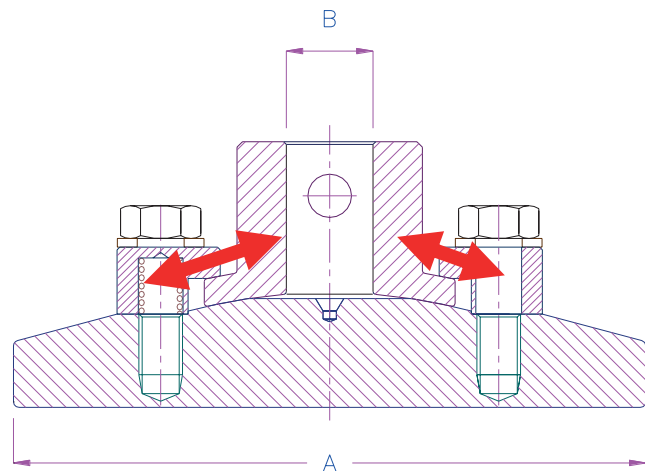
Ordering Information  
Scope of delivery: 1 platen



MecS223

MecS223i for couplings up to 8 mm $\varnothing$		
Item number	Diameter	Weight
MecS223i-56	56 mm	~ 60 gram
MecS223k for couplings 12 - 25 mm $\varnothing$		
Item number	Diameter	Weight
MecS223k-56	56 mm	~1.27kg
MecS223k-96	96 mm	~1.4kg
MecS223k-116	116 mm	~1.7kg
MecS223k-156	246 mm	~2.7kg
MecS223g for couplings 30 - 40 mm $\varnothing$		
Item number	Diameter	Weight
MecS223g-056	56 mm	~5.2k g
MecS223g-156	156 mm	~5.1kg
MecS223g-196	196 mm	~6.4kg
MecS223g for couplings 30 - 40 mm $\varnothing$		
Item number	Diameter	Weight
MecS223g-056	56 mm	~5.2kg
MecS223g-156	156 mm	~5.1kg
MecS223g-196	196 mm	~6.4kg

Other dimensions on request  
The max. capacity depends on the size of coupling (B).



Description of Item Number MecS223 - A - B	
A	Diameter of platen [mm] 56, 96, 116, 156, 196
B	Adapter/ Coupling e.g. MecS223i: [mm] 8 etc MecS223k: [mm] 15.9, 20 - male [mm] 20, 22 etc MecS223g: [mm] 30, 31.8, 36, 40 - male [mm] 31.7 etc
C	Quick change fitting, QC-20mm and 32 mm

The rigid platen Mec23 can be combined with MecS223 platens.  
Ordering Information for the combination rigid + self adjusting platen: 0.5 pair Mec23 + 1x MecS223



MecS223i56



MecS223k116



MecS223g56





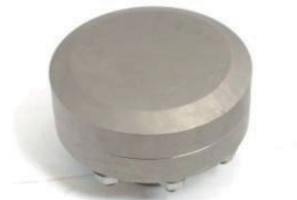
MecS223g-156-Am317



MecS223k-116-NI  
Temperature range -70°C-280°C



MecS223k-296



MecS223w-196-60-Ni  
Adapter size 60 Surface Nickel



MecS223g-156-Am317  
Adapter male 31.7mm diameter



MesS23-196-Af60 MecS223w196-Af60



MecS223g-396x596

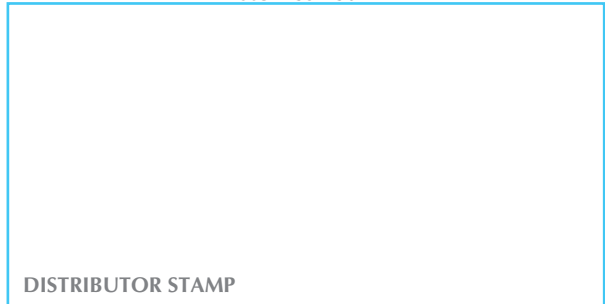
Examples of MecS223 Self-leveling compression plates



MecS223k-D200-L6-20-AL



MecS223s-136



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## Self-levelling Compression Plates



### Description

Self-levelling compression plates are ideal for general compression testing on a range of materials and finished products. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample, or where the sample has faces that are not exactly parallel and conventional plates would put an undue load on a very small area, causing a premature failure.

### Applications

Used for compression testing of:

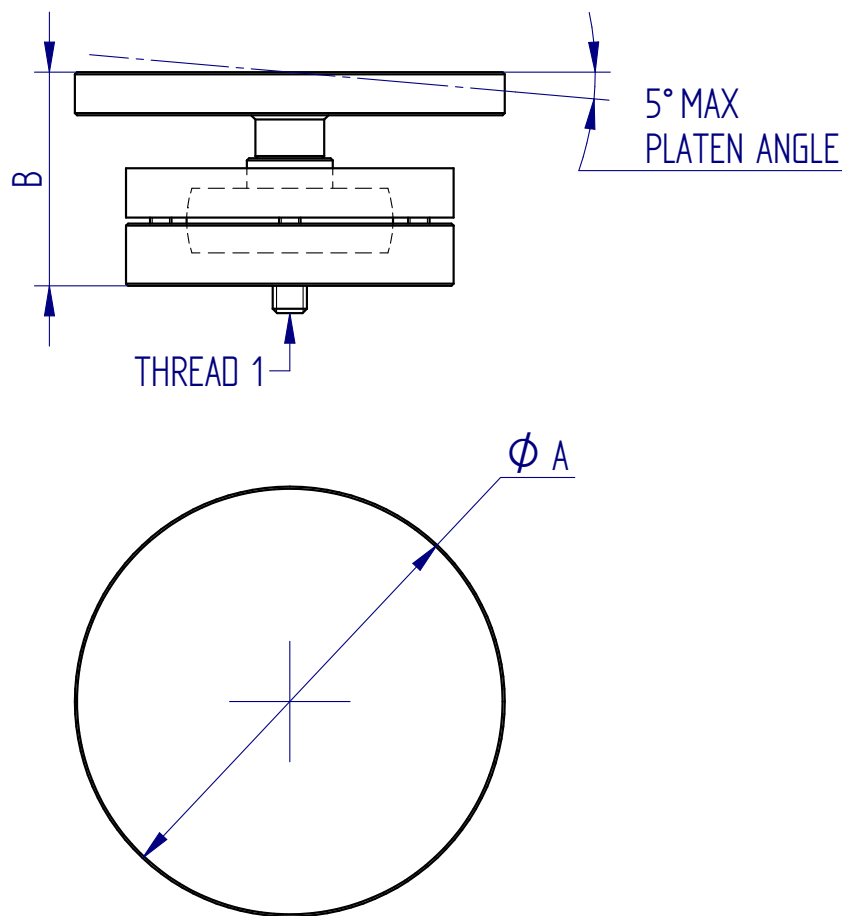
- metals
- cylinders
- springs
- cans
- polymer foams
- curve-faced samples

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		50 mm	1.97"	38 mm	1.50"	450 g	0.99 lb
432-349	5 kN	500 kgf	1100 lbf	10-32 UNF	50 mm	1.97"	38 mm	1.50"	450 g	0.99 lb
432-350	5 kN	500 kgf	1100 lbf	5/16 UNC	70 mm	2.76"	50 mm	1.97"	—	—
432-351	5 kN	500 kgf	1100 lbf	5/16 UNC	100 mm	3.94"	50 mm	1.97"	—	—
432-352	5 kN	500 kgf	1100 lbf	5/16 UNC	175 mm	6.89"	50 mm	1.97"	2.2 kg	4.9 lb



## Dimensions



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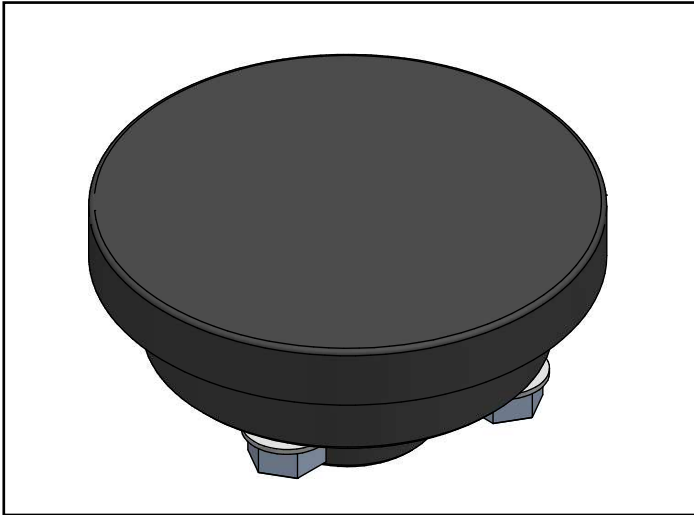
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## Self-levelling Compression Plates, QC fitting



### Description

Hardened steel compression plates have a smooth, scratch-proof surface ideal for compression testing on samples that could damage a standard compression plate. Self-levelling allows parallelism to be set for those applications where it is critical to accurately measure the deformation of a sample, or where the sample has faces that are not exactly parallel and conventional plates would put an undue load on a very small area, causing a premature failure.

### Applications

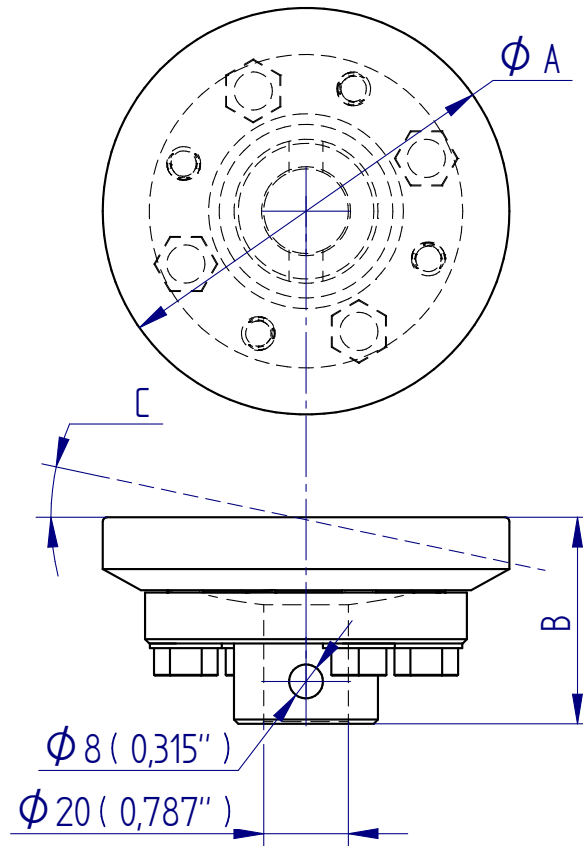
Used for compression testing of:

- springs
- cans
- polymer foams
- curved-face samples

### Specifications

Part No.	Load Capacity			Post Ø	Diameter (ØA)		Height (B)		Weight	
	5 kN	500 kgf	1100 lbf		100 mm	3.94"	82 mm	3.22"	3.3 kg	7.3 lb
432-353	5 kN	500 kgf	1100 lbf	QC20	100 mm	3.94"	82 mm	3.22"	3.3 kg	7.3 lb

## Dimensions mm (inch)



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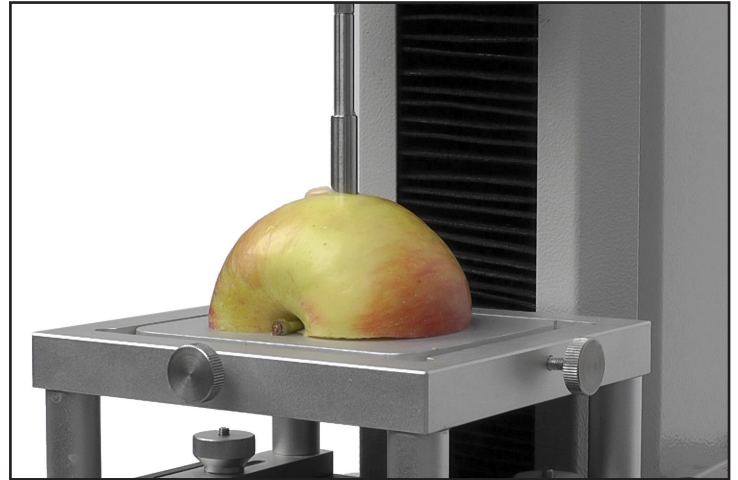
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## Radiused Probes



### Description

Radiused probes are used to perform penetration or puncture tests on a wide range for texture products. Aspects measured include firmness and ripeness of foods. Also used for cosmetics and similar products with measured texture attributes.

### Applications

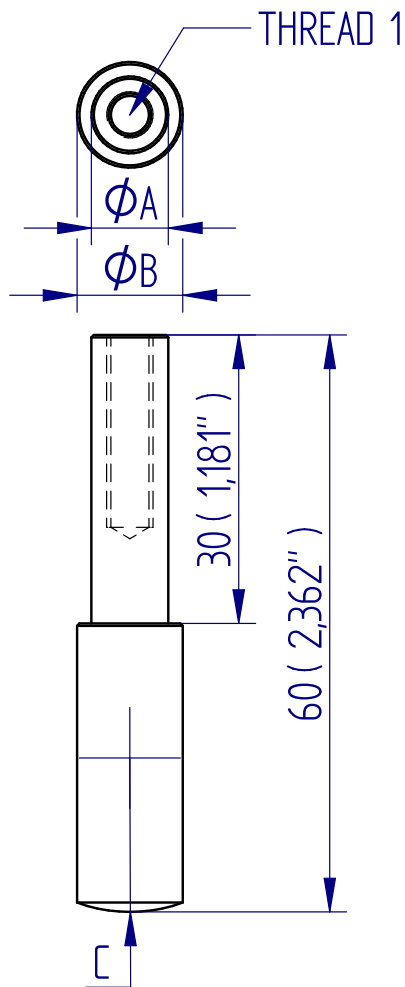
Used for penetration and puncture testing of:

- Baked goods
- Dairy products
- Fruit and vegetables
- Confectionery
- Cosmetics

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Diameter (ØB)		Length	
	500 N	50 kgf	110 lbf		6 mm	0.24"	8 mm	0.31"	60 mm	2.36"
432-354	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	8 mm	0.31"	60 mm	2.36"
432-355	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	11 mm	0.43"	60 mm	2.36"

## Dimensions mm (inch)



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## Cone Probes



### Description

Cone points are designed for puncturing, spreading and compressing samples.

### Applications

Used for compression testing of:

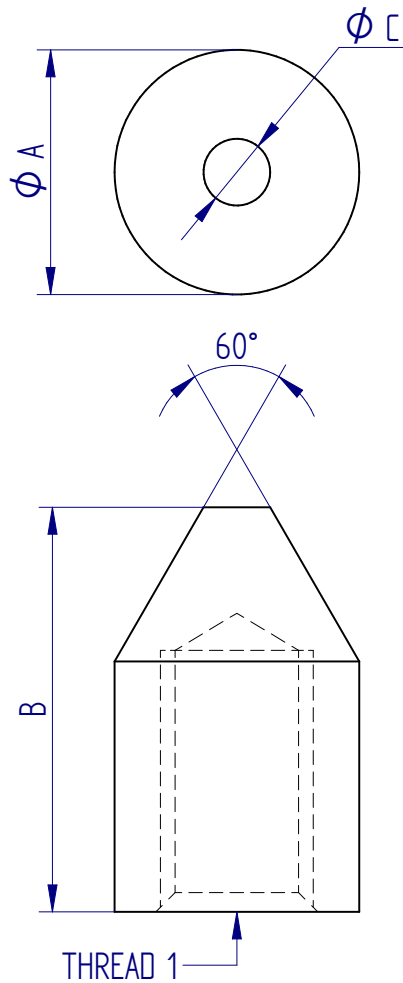
- Packaging
- Food products
- Cosmetics

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Diameter (ØC)		Weight	
	500 N	50 kgf	110 lbf		8 mm	0.31"	14 mm	0.55"	0.5 mm	0.02"	2 g	0.004 lb
432-358	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14 mm	0.55"	0.5 mm	0.02"	2 g	0.004 lb
432-359	2.5 kN	250 kgf	550 lbf	5/16 UNC	12 mm	0.47"	21mm	0.83"	3.5 mm	0.14"	12 g	0.020 lb



## Dimensions



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## Chisel Point Probes



### Description

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

### Applications

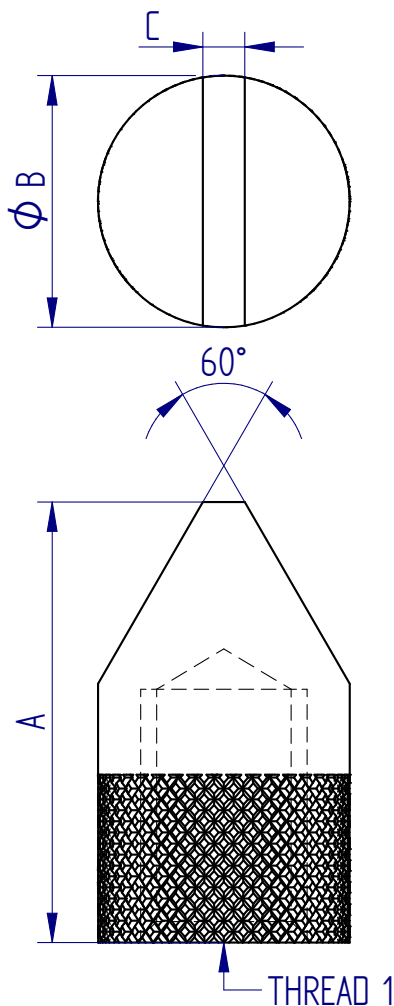
Used for compression testing of:

- Packaging
- Food products
- Cosmetics

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØB)		Length (A)		Tip Width (C)		Weight	
	500 N	50 kgf	110 lbf		8 mm	0.31"	14mm	0.55"	0.5 mm	0.02"	3 g	0.006 lb
432-360	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14mm	0.55"	0.5 mm	0.02"	3 g	0.006 lb
432-361	2.5 kN	250 kgf	550 lbf	5/16 UNC	12 mm	0.47"	21mm	0.83"	2 mm	0.08"	12 g	0.020 lb

## Dimensions mm (inch)



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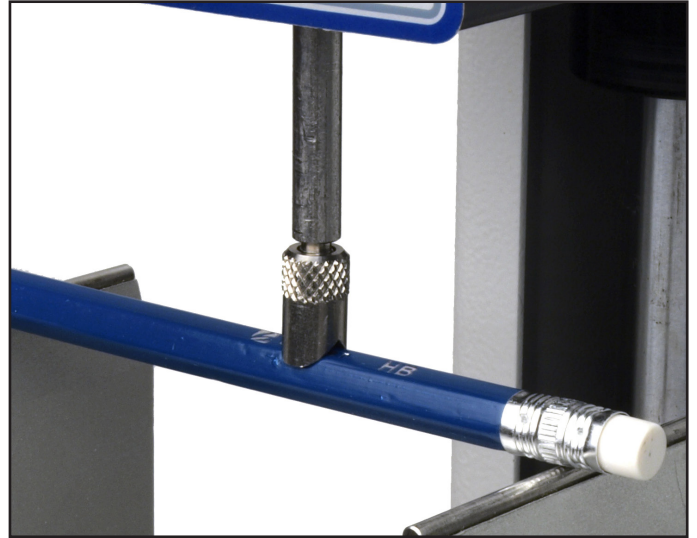
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## Inverted Chisel Probes



### Description

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

### Applications

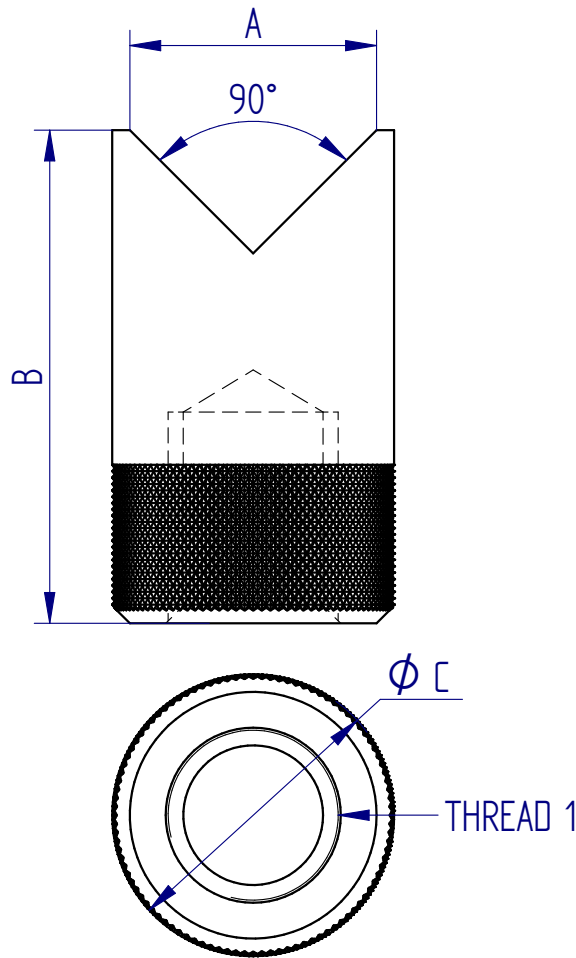
Used for compression testing of:

- Pipes
- Tubes

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØC)		Length (B)		Width (A)		Weight	
	500 N	50 kgf	110 lbf		8 mm	0.31"	14 mm	0.55"	7 mm	0.28"	3 g	0.006 lb
432-356	500 N	50 kgf	110 lbf	10-32 UNF	8 mm	0.31"	14 mm	0.55"	7 mm	0.28"	3 g	0.006 lb
432-357	2.5 kN	250 kgf	550 lbf	5/16 UNC	11 mm	0.43"	21 mm	0.83"	10 mm	0.39"	13 g	0.030 lb

## Dimensions mm (inch)



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## Adaptor and Needle Set



### Description

For use with the Mecmesin shotcrete penetrometer to test sprayed or poured concrete during the first few hours of development as a reliable indication of compressive strength.

### Applications

Used to determine the compressive strength of:

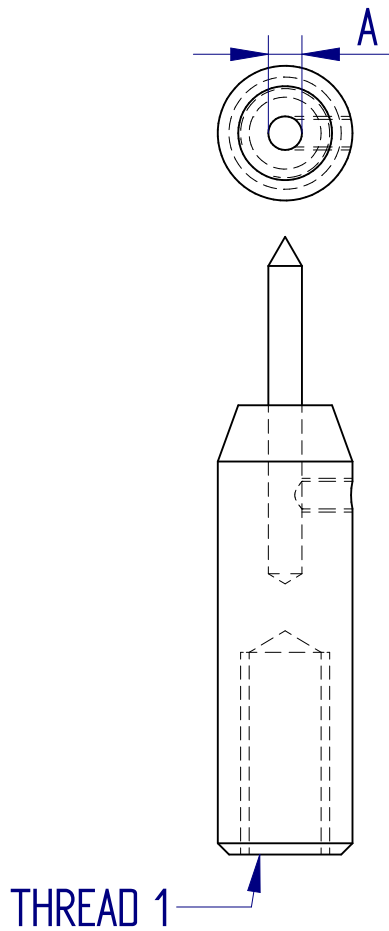
- sprayed concrete

### Specifications

Part No.	Thread 1	Needle Diameter	
432-504	5/16 UNC	3 mm	0.118"



## Dimensions mm (inch)



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## Load Button



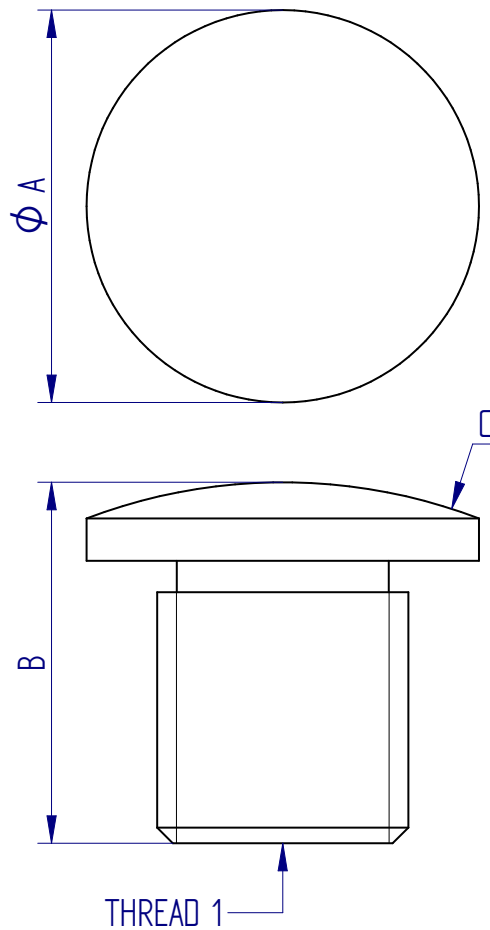
### Description

Mecmesin load buttons come in a range of sizes and are used for compression testing applications where limited space restricts access to the loadcell.

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØA)		Length (B)		Radius (C)		Weight	
	N	kgf	lbf		mm	"	mm	"	mm	"	g	lb
432-075	500 N	50 kgf	110 lbf	M6	14 mm	0.55"	14 mm	0.55"	20 mm	0.79"	6 g	0.01 lb
432-064	1 kN	100 kgf	225 lbf	M10	16 mm	0.63"	13 mm	0.51"	18 mm	0.71"	11 g	0.02 lb
432-065	10 kN	1000 kgf	2200 lbf	M12	16 mm	0.63"	12 mm	0.47"	18 mm	0.71"	10 g	0.02 lb
432-110	50 kN	5000 kgf	11000 lbf	M24	32 mm	1.26"	27 mm	1.06"	52 mm	2.05"	104 g	0.22 lb
432-114	50 kN	5000 kgf	11000 lbf	M36	75 mm	2.95"	35 mm	1.38"	90 mm	3.54"	663 g	1.46 lb
432-115	25 kN	2500 kgf	5500 lbf	M16	25 mm	0.98"	23 mm	0.91"	35 mm	1.38"	38 g	0.08 lb

## Dimensions



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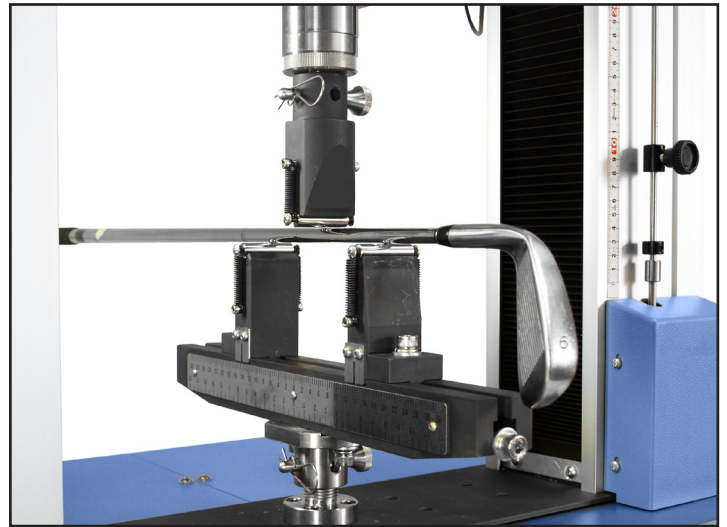
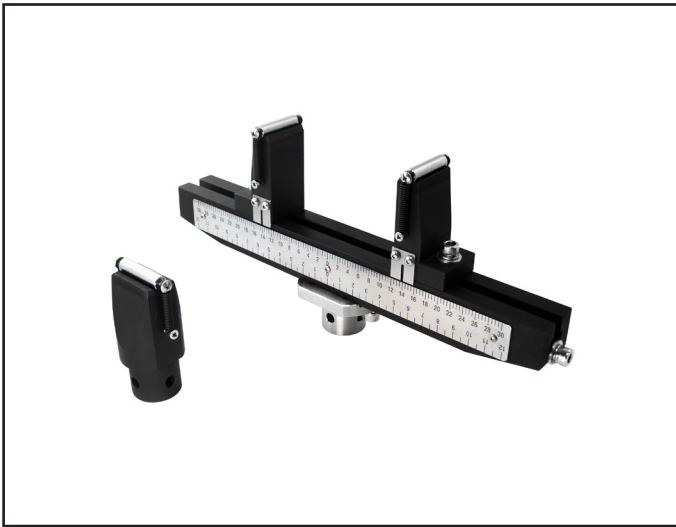
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## 10 kN 3-Point Bend Jig, QC fitting



### Description

The 10 kN 3-point bend jig is ideal for performing a variety of flexure tests on medium-stiffness samples. It includes two lower support-anvils, which are adjustable and one upper anvil to apply load to the sample. The support beam is graduated lengthways in metric and imperial units for accurate positioning of the anvils.

### Applications

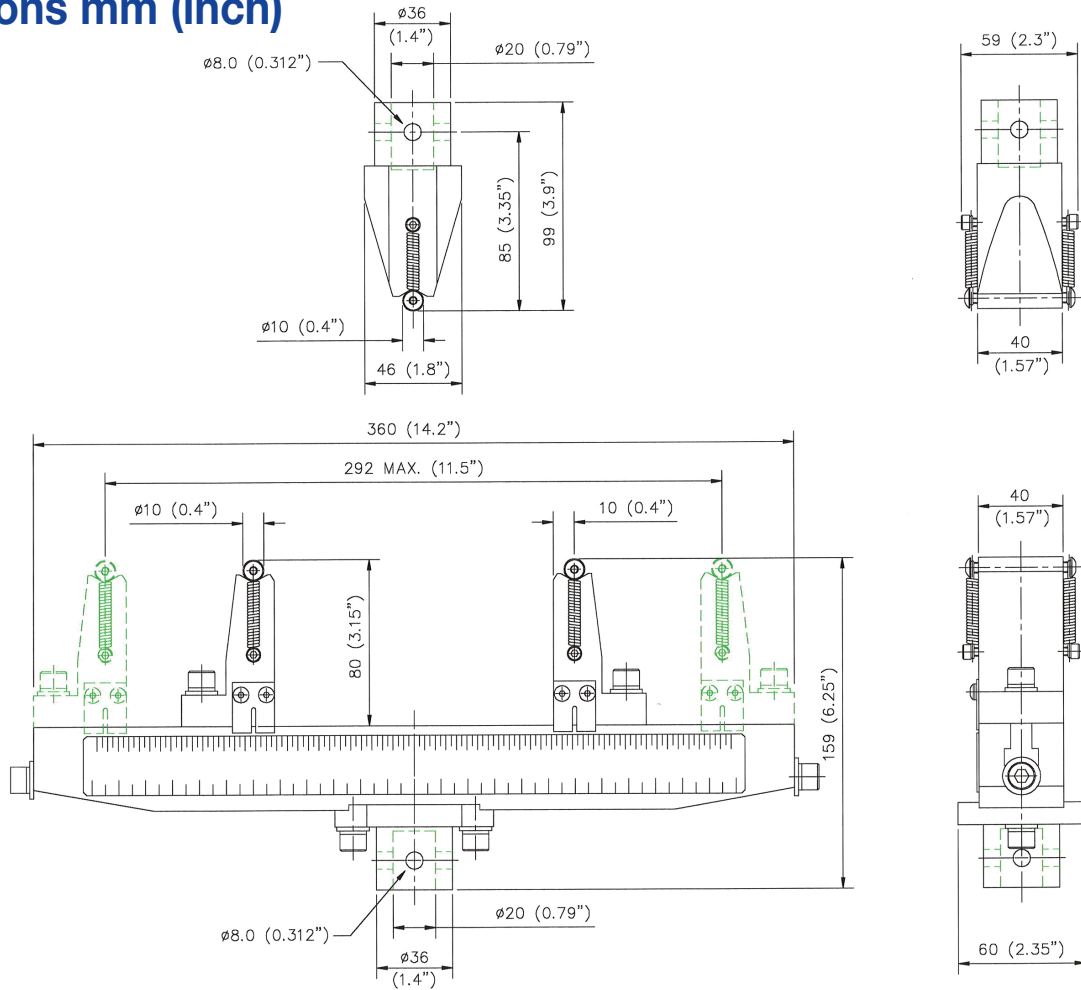
Used to determine the flexural properties of rigid and semi-rigid materials:

- ceramics
- glass
- composites
- plastics
- flexible sheet materials
- wood
- films

### Specifications

Part No.	Load Capacity			Post Ø	Anvil Width		Anvil Radius		Bending Span		Length		Weight	
	10 kN	1000 kgf	2200 lbf		50 mm	2.28"	10 mm	0.4"	24 mm - 300 mm	0.94" - 11.81"	380 mm	14.96"	12.4 kg	29.46 lb
432-266	10 kN	1000 kgf	2200 lbf	QC 20 mm	50 mm	2.28"	10 mm	0.4"	24 mm - 300 mm	0.94" - 11.81"	380 mm	14.96"	12.4 kg	29.46 lb

## Dimensions mm (inch)



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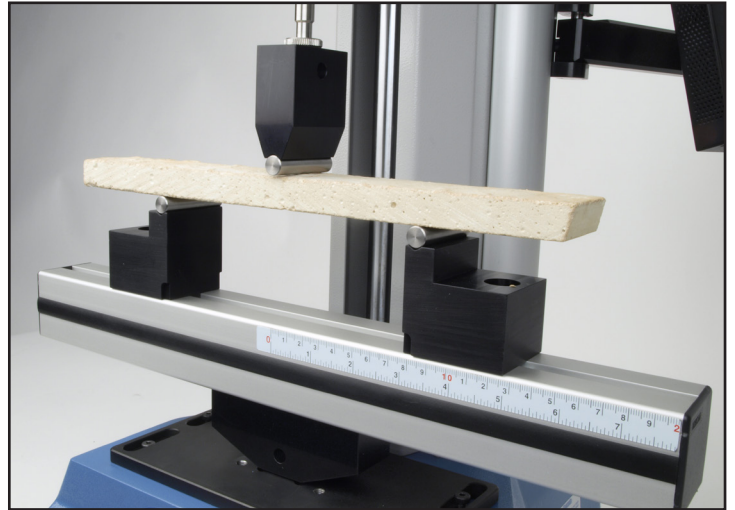
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## 2.5 kN 3-Point Bend Jig



### Description

The 2.5 kN 3-point bend jig is an easy-to-use fixture that relies on the test machine to maintain alignment between the top and bottom parts.

### Applications

Used to determine the flexural properties of rigid and semi-rigid materials:

- ceramics
- glass
- composites
- plastics
- flexible sheet materials
- wood
- films

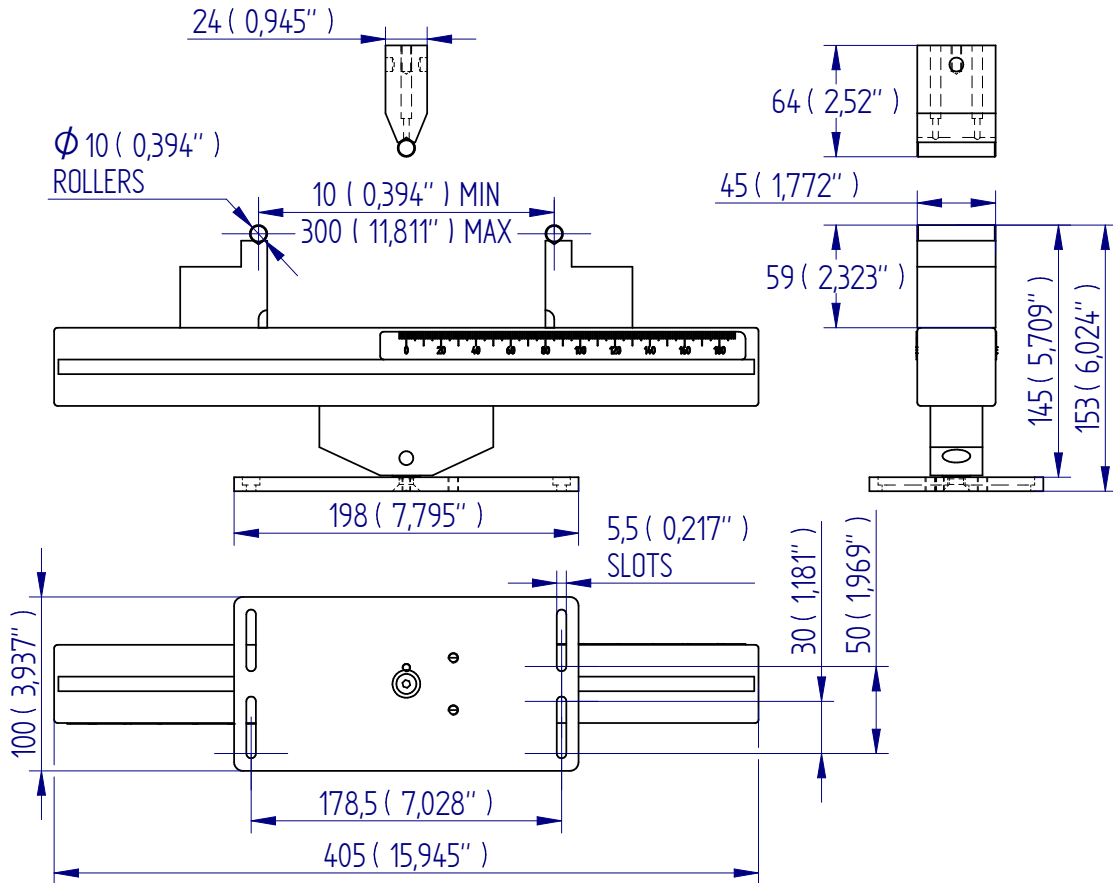
### Specifications

Part No.	Load Capacity			Thread 1	Anvil Width		Anvil Radius		Bending Span		Length		Weight	
	2.5 kN	250 kgf	550 lbf		10-32 UNF	45 mm	1.77"	10 mm	0.4"	10 mm - 300 mm	0.39" - 11.81"	405 mm	15.9"	--
432-151	2.5 kN	250 kgf	550 lbf	10-32 UNF	45 mm	1.77"	10 mm	0.4"	10 mm - 300 mm	0.39" - 11.81"	405 mm	15.9"	--	--



## Dimensions mm (inch)

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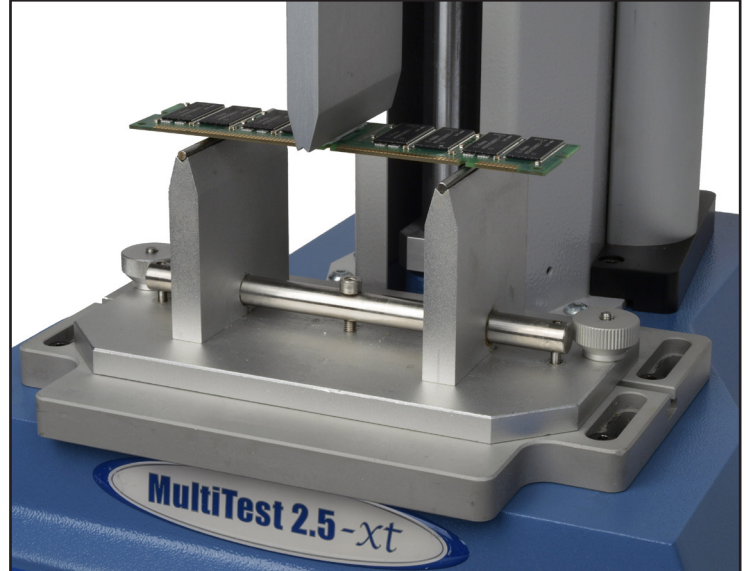
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## 1 kN 3-Point Bend Jig



### Description

The 1 kN 3-point bend jig is a lightweight three-point bend assembly with 60 mm high arms and 120 mm support span. Ideal for most snapping applications including food texture applications. Recommended for use with 'S' Beam type load cells where forces are below 1 kN.

### Applications

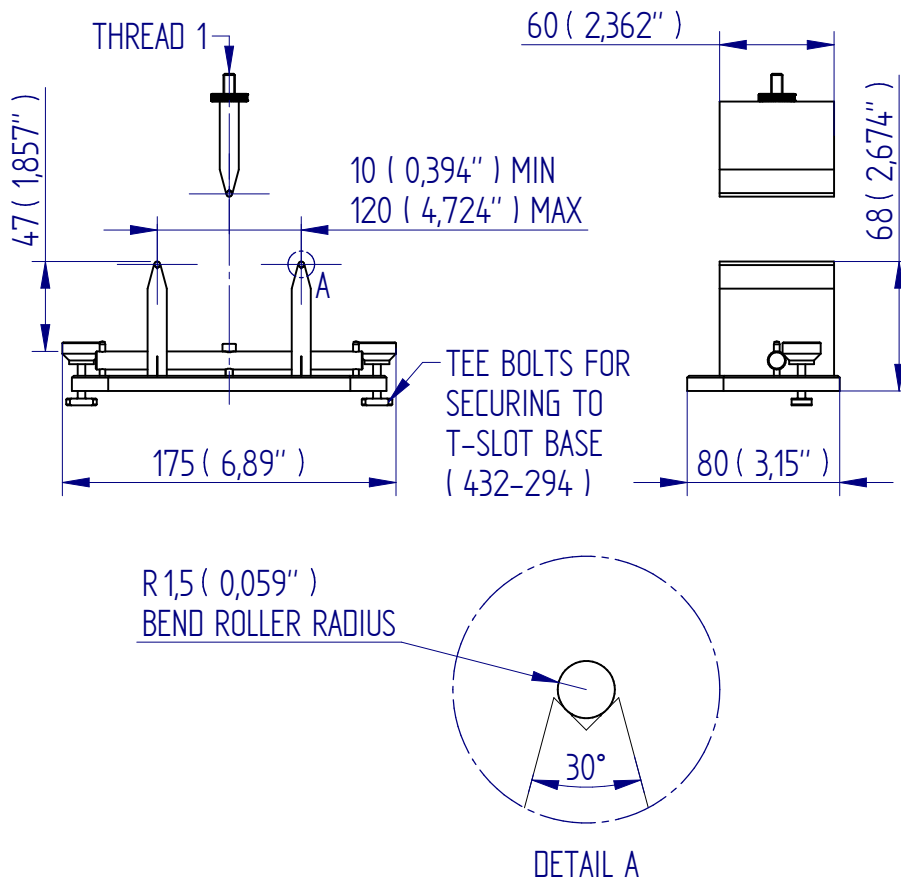
Used to determine the flexural and snap properties of:

- food products
- flexible materials

### Specifications

Part No.	Load Capacity			Anvil Radius		Anvil Width		Weight	
	1 kN	100 kgf	225 lbf	1.5 mm	0.059"	120 mm	4.7 mm	653 g	1.43 lb
432-248									
432-294	Base plate to attach bend jig to test stand					792 g	1.75 lb		

## Dimensions mm (inch)



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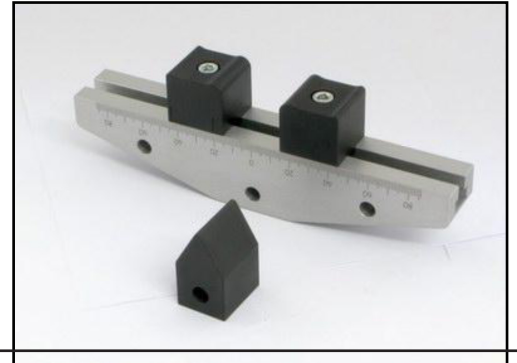
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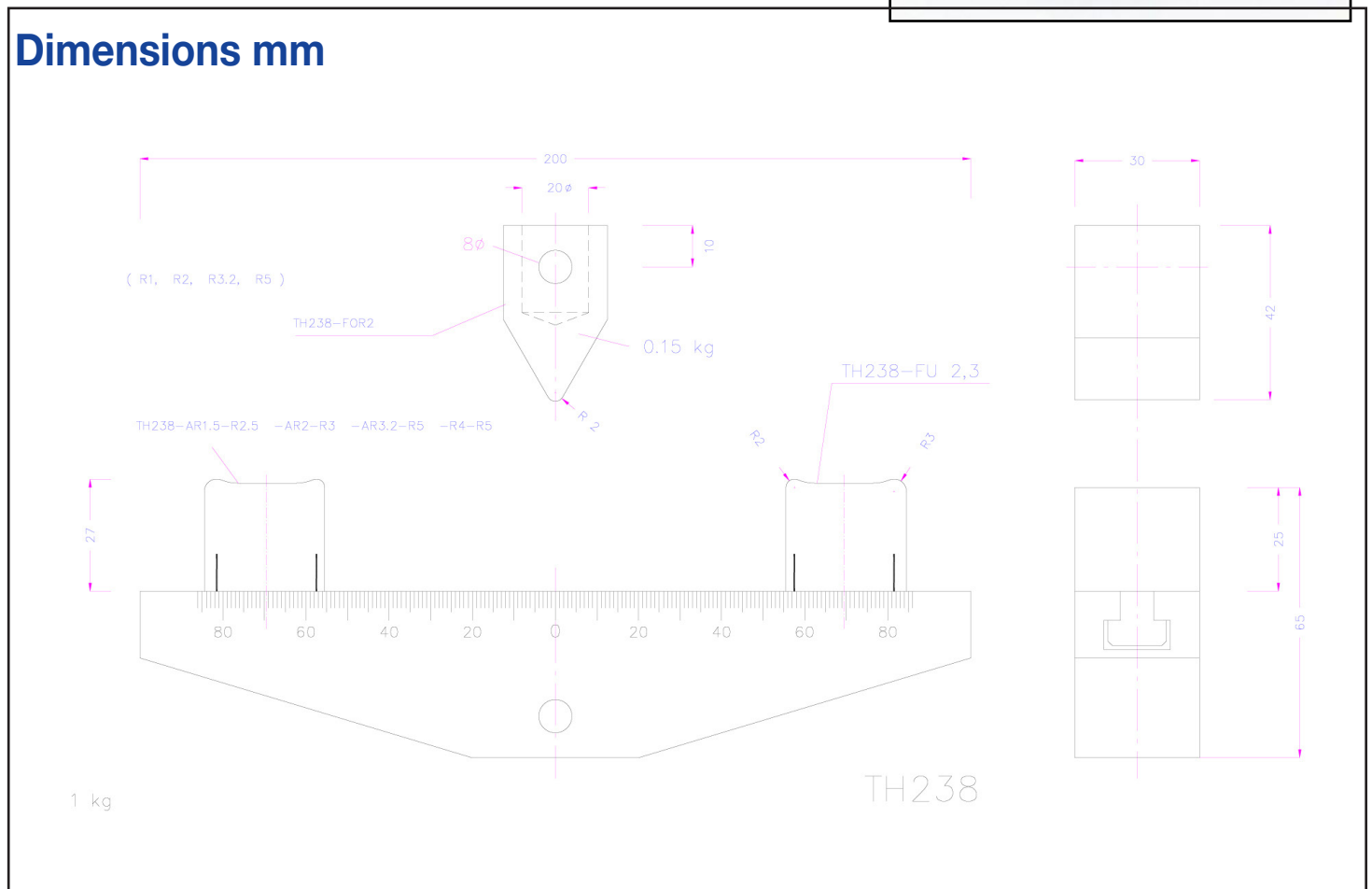
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## Mec238 2.5 kN Bend Jig, QC fitting

A 2.5 kN small bending system in aluminium, with a bending span of 4 mm – 150 mm and a beam width of 30 mm. Supplied with Type A anvils with a radius pair of 2 mm and 3 mm, and an upper anvil of radius 2 mm. The addition of an upper anvil support converts this to a 4-point bend jig. Fits QC 15.9 mm adapters.



### Dimensions mm



This is the standard bending system. A range of Mec238 components can, however, be assembled into a system to meet your test specification.

The following illustrations are selected examples of the various kinds of component parts and assemblies, to build precisely the bending jig you require. You choose beam length, an upper support for 4-point bending, anvil types, roller or edge dimensions, and special factors, such as requirements for folding, or for wide samples. Movement in the anvils can also be specified for the most accurate testing and measurement.

Please refer to the outline at the back of this datasheet for how to identify and specify the components you require.

## Bend jig configurations

Simple 3-point bending system

Lower radii 1, 2, 3, 4, 5, 8, 10  
Upper radius 0.5, 1, 2, 3, 4, 5, 8, 10



4-point bending jig with interchangeable rollers on CX anvils



4-point bending jig with interchangeable rollers  
Lower AX supports  
Upper CX supports  
Width 30 mm



Interchangeable rollers  
diameter 6 mm, width 100 mm



300 mm beam with supports  
for interchangeable rollers



## Anvils

Anvil with 2 milled radii, 2 mm and 5 mm

Available radius pairs (mm): ×2  
1.5+2.5; 2+3; 2+5; 3.2+5;  
4+5



Anvils with 1 milled radius ×2  
edge

Available radius: 0.5; 1; 1.5;  
2; 2.5; 3.2; 5 mm



Special anvils with 1 milled ×2  
edge

CR1H130 = radius 1 mm,  
height 130 mm



Anvil for interchangeable ×2  
rollers

Diameters 1 to 12.7 mm



Anvil for single ×2  
interchangeable roller



Flat simple anvil, ×2  
interchangeable roller, for  
glass

no image available

Roller, hardened, width ×3  
30 mm

Diameters: 1; 2; 2.5; 3;  
3.175; 4; 4.5; 5; 6; 6.35; 8;  
9; 10; 12; 12.7 mm



Roller with special length + ×3  
2 O-Rings + 2 extra pins to  
fix or magnets to fix  
3x56; 3x105; 6x105; 10x105



## Beams



200 mm lower beam,  
anodised aluminium ×1

200 mm lower beam,  
chromed steel ×1

300 mm lower beam,  
chromed steel ×1

350 mm lower beam,  
chromed steel ×1

400 mm lower beam,  
chromed steel ×1



## Removable insert anvils

Articulated lower carrier ×2  
for removeable inserts;  
can be fixed at an angle



Removable insert for  
interchangeable roller  
retained by O-rings ×3



Articulated carrier for  
removable insert with  
interchangeable roller  
retained by O-rings ×2



Flat removable insert  
for glass ×2 no image available

Removable insert for  
interchangeable roller  
retained by O-rings ×2  
Roller diameter 5 mm  
on a flat plane area,  
height 3 mm

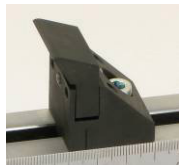


Wide fin removable  
insert for articulated  
carrier ×3

Radius 2 mm, width  
120 mm



Zero-span removable  
insert ×2



## Upper anvils

Upper anvil with milled radius 1;  
1.5; 2; 3; 4; 5; or 12.5 mm

×1



Upper v-notch anvil to carry  
different diameters ×1  
OX2 holds 1–3.2 mm Ø  
OX8 holds 4–12.7 mm Ø



Articulated upper carrier for  
removable anvil inserts; can be  
fixed at an angle ×1  
For inserts see Mec238-W



Articulated upper carrier with  
insert for interchangeable rollers ×1  
retained by O-rings



## Special anvils

Anvil with removable needle-  
bearing insert ×2



Support with integral roller,  
centerline radius 5 mm ×2 no image available

Support with diameter 10 mm  
tube, width 100 mm ×2 no image available

Support with non-  
interchangeable 60 mm wide  
anvil, radius 1.5 mm, for 4-point  
bend system ×4 no image available

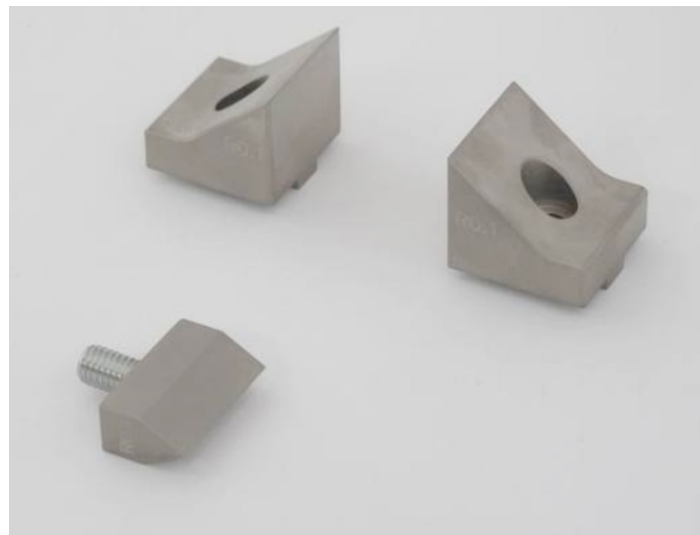




4-point bend jig with extended-width fins



4-point bend jig with large diameter wide anvils



Fine-edge milled anvils, radius 0.1 mm

## Bend jigs to your own specification

Bend jigs can be assembled to user specification to achieve these requirements:

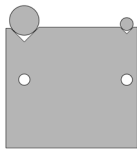
- load rating
- anvil edge type
- anvil height
- individual positioning of anvils, or by centric gearing
- bending span width
- anvil movement type
- 3, 4 or 5-point bend capability
- anvil mount type
- anvil width

Certain anvil types allow a rocking movement, adjustable angle (articulated), or flat sideways movement. For sharp angle bending (e.g. to 160°) long-fin anvils are available, along with other specialised anvils. Standard anvil types are shown below. (Roller size is denoted by diameter, milled edges by radius.)

### Type A: dual-radius



A: milled edge

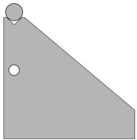


AX: v-notch roller bearings

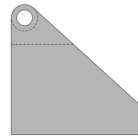
### Type C: single radius



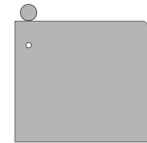
C: milled edge



CX: v-notch roller

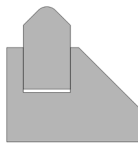


CL: captive roller

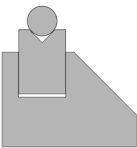


CM: roller free to traverse

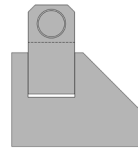
### Type CW, carrier style



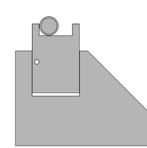
CW: milled edge



CWX: v-notch roller

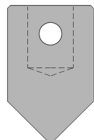


CWL: captive roller

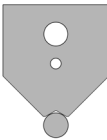


CWN: roller traverses to stop

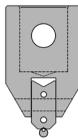
### Type O, upper anvil



O: milled edge



OX: v-notch roller bearing



OWX: carrier-style v-notch

## How to specify your specific bend jig requirement

Let us know your requirement by:

- beam model: Mec238, Mec103, Mec22
- aluminium or steel, and finish (where available)
- the beam length (longer beam lengths are available for certain jigs)
- anvil mount type as above (A, C, CW, O, OW and X, L, M, N)
- the upper and lower anvil radii (milled) or diameters (rollers)
- any special requirements such as anvil height or width, or movement
- if you require centric gearing (Mec103 only)
- if you require an upper support for two anvils for 4-point or 5-point testing
- the QC coupling size (15.9 mm, 20 mm or 32 mm)

For full details and examples, refer to the datasheets for the three base models: Mec238, Mec103 and Mec22.



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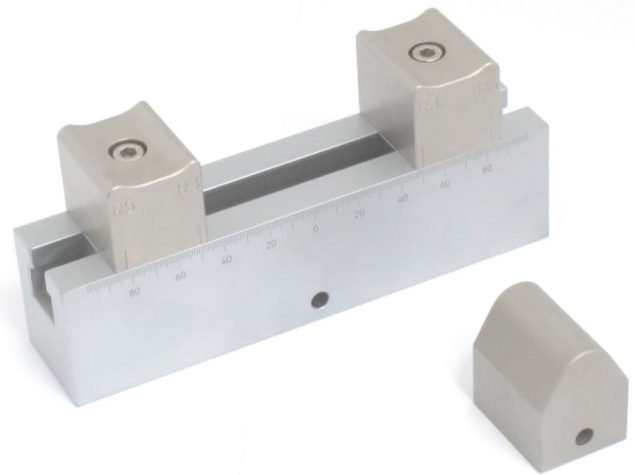
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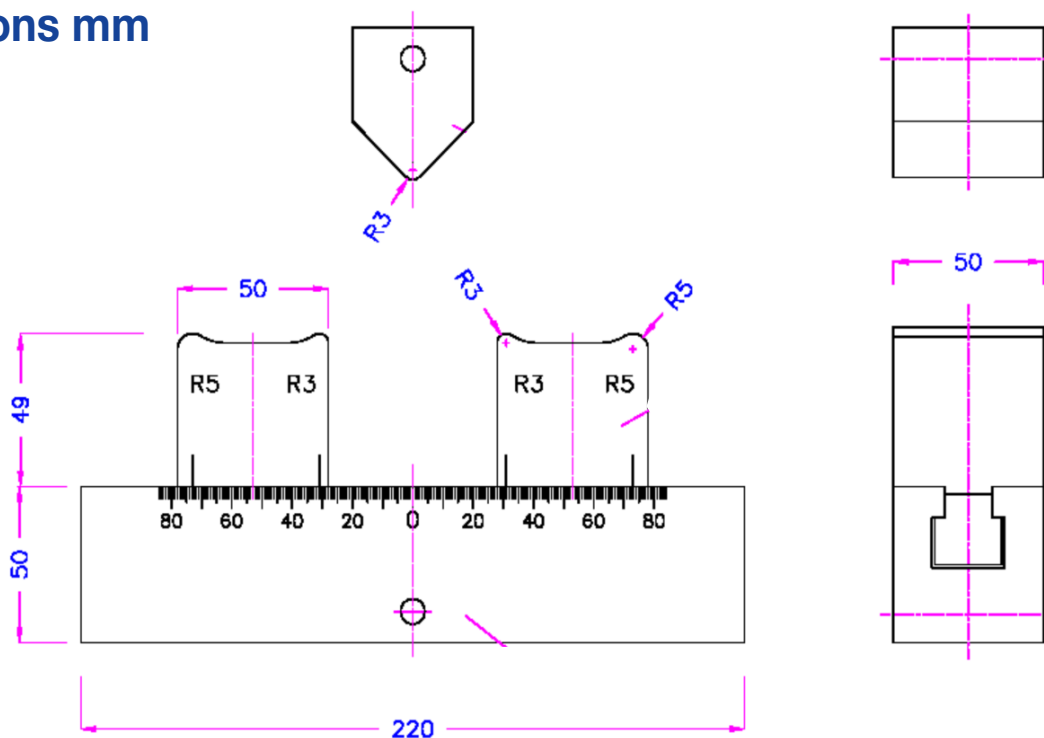
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## Mec103 50 kN Bend Jig, QC fitting

A 50 kN bending fixture in steel, with a bending span of 120 mm and beam width of 50 mm. The main support bears two Type A nickel-plated steel anvils, each with two milled radii of 3 mm and 5 mm. The upper anvil is radius 10 mm. The addition of an upper anvil support converts this to a 4-point bend jig. The jig fits 20 mm QC adapters.



### Dimensions mm



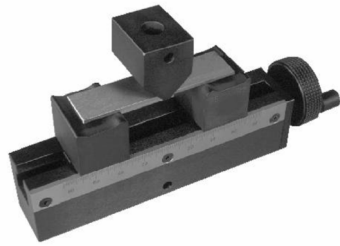
This is the standard bending system. A range of Mec103 components can, however, be assembled into a system to meet your test specification.

The following illustrations are selected examples of the various kinds of component parts and assemblies, to build precisely the bending jig you require. You choose beam length, an upper support for 4-point bending, anvil types, roller or edge dimensions, and special factors, such as requirements for folding, or for wide samples. Movement in the anvils can also be specified for the most accurate testing and measurement.

Please refer to the outline at the back of this datasheet for how to identify and specify the components you require.

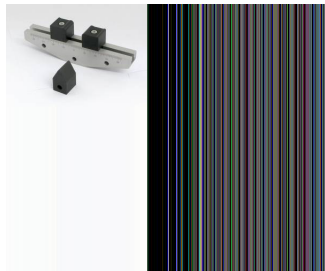
## Mec103-cgr

Phosphate coated steel with centric gearing



### Example configurations

3-point bend jig, 220 mm beam with centric gear, lower anvils with dual interchangeable O-ring retained rollers, diameters 3 mm and 5 mm; upper anvils of diameter 2 mm and 3 mm. Black (phosphate coated).



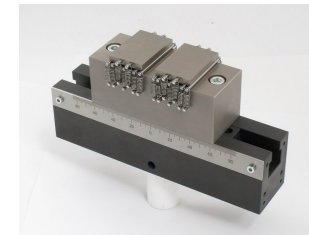
Rollers diameter 50 mm with retaining sidebars for 180° folding



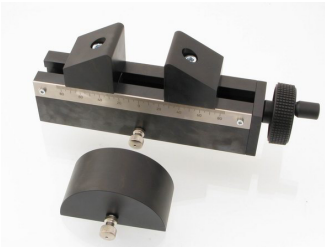
300 mm beam, with height 80 mm anvils, diameter 50 mm rollers, and long upper fins for 160° folding



Rolling table



220 mm beam, black finish with centric gearing, 5 mm milled anvils and upper anvil radius 30 mm



200 mm upper beam to convert to 4-point bend jig, anvils milled radius 5 mm



Folding jig, diameter 20 mm, width 50 mm rollers and fins radius 2 mm and 5 mm, height 80 mm



200 mm upper beam to convert to 4-point bend jig, anvils with articulated inserts and interchangeable rollers, diameter 8 mm for ceramics. Addition of articulated QC adapter.



## Component parts

220 mm bending beam, QC adapter 15.9 mm



300 mm bending beam, black, with centric gearing, 15.9 mm QC female fitting



220 mm bending beam, black, with centric gearing, 15.9 mm QC female fitting



220 mm upper bending beam for 4-point bending conversion, female 15.9 mm QC fitting



## Lower anvils (pair)

Radii 2 mm and 4 mm, milled hardened steel, black finish



Single milled radius 5 mm



V-notch to receive diameter 3 mm to 15 mm interchangeable rollers, retained with O-rings, height 51.5 mm to 62.9 mm



Roller sidebars for folding tests



Interchangeable rollers, diameter 10 mm, 6 mm and 4 mm



Rotating roller, diameter 10 mm, nickel-plated



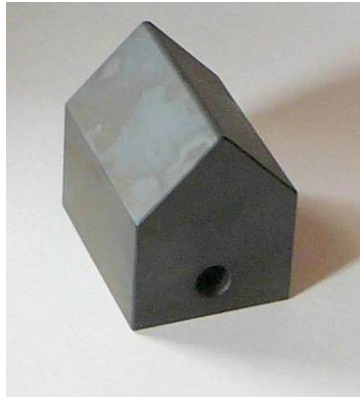
Articulated carrier with insert for interchangeable roller, diameter 8 mm on flat-bed with end-stop





## Upper anvils

Radius 2 mm, milled hardened steel



V-notch to receive interchangeable roller, retained by O-rings



Radius 10 mm, milled hardened steel, height 80 mm



Radius 0.2 mm, milled hardened steel fin for folding tests



Radius 50 mm, milled hardened steel



## Bend jigs to your own specification

Bend jigs can be assembled to user specification to achieve these requirements:

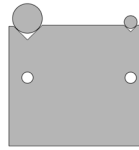
- load rating
- anvil edge type
- anvil height
- individual positioning of anvils, or by centric gearing
- bending span width
- anvil movement type
- 3, 4 or 5-point bend capability
- anvil mount type
- anvil width

Certain anvil types allow a rocking movement, adjustable angle (articulated), or flat sideways movement. For sharp angle bending (e.g. to 160°) long-fin anvils are available, along with other specialised anvils. Standard anvil types are shown below. (Roller size is denoted by diameter, milled edges by radius.)

### Type A: dual-radius



A: milled edge

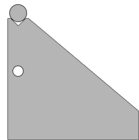


AX: v-notch roller bearings

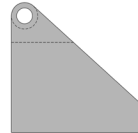
### Type C: single radius



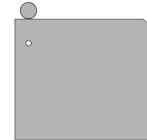
C: milled edge



CX: v-notch roller

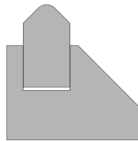


CL: captive roller

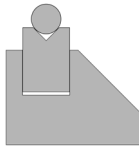


CM: roller free to traverse

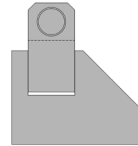
### Type CW, carrier style



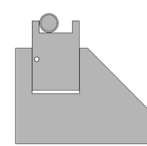
CW: milled edge



CWX: v-notch roller

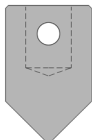


CWL: captive roller

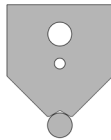


CWN: roller traverses to stop

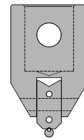
### Type O, upper anvil



O: milled edge



OX: v-notch roller bearing



OWX: carrier-style v-notch

## How to specify your specific bend jig requirement

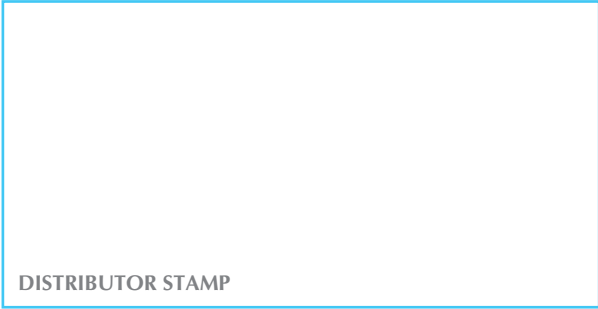
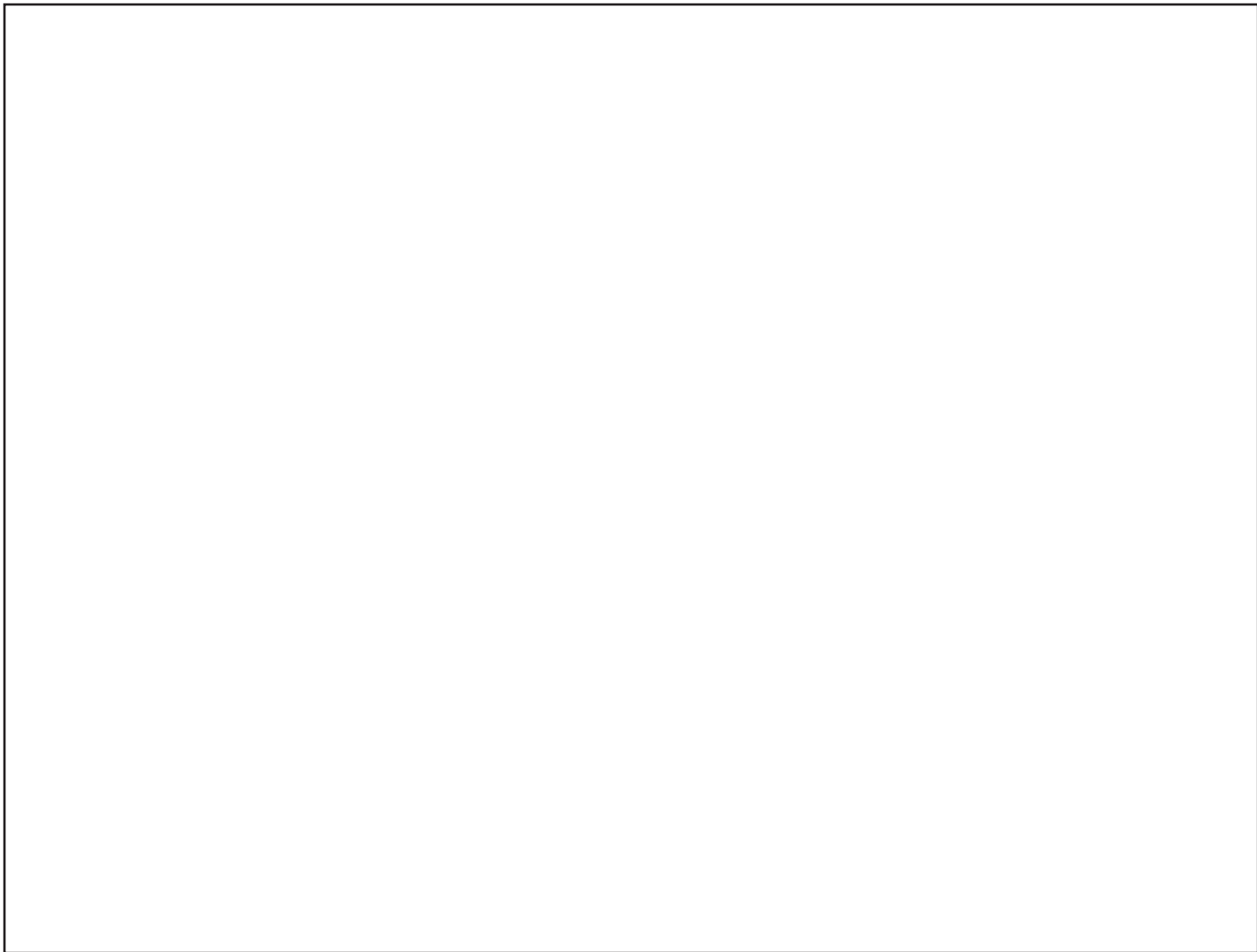
Let us know your requirement by:

- beam model: Mec238, Mec103, Mec22
- aluminium or steel, and finish (where available)
- the beam length (longer beam lengths are available for certain jigs)
- anvil mount type as above (A, C, CW, O, OW and X, L, M, N)
- the upper and lower anvil radii (milled) or diameters (rollers)
- any special requirements such as anvil height or width, or movement
- if you require centric gearing (Mec103 only)
- if you require an upper support for two anvils for 4-point or 5-point testing
- the QC coupling size (15.9 mm, 20 mm or 32 mm)

For full details and examples, refer to the datasheets for the three base models: Mec238, Mec103 and Mec22.

# Mecmesin

testing to perfection



DS-1021-01

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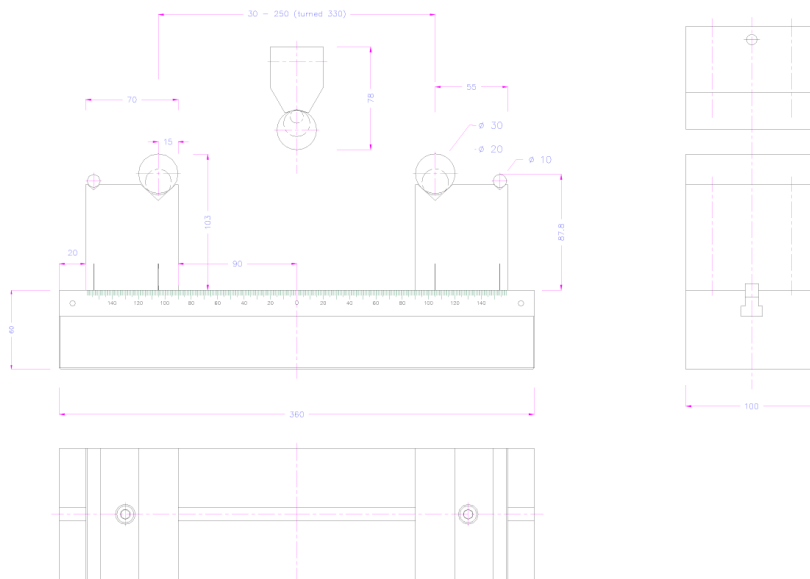
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## Mec22 50 kN Bend Jig, QC fitting

A 50 kN bending fixture in aluminium, with a bending span of 330 mm and a beam width of 100 mm. The main support bears two Type AX anvils, and an upper OX anvil, with 10 mm, 20 mm and 30 mm diameter rollers as standard. The addition of an upper anvil support converts this to a 4-point or 5-point bend jig. Attaches to QC adapter mounts



### Dimensions mm



This is the standard bending system. A range of Mec22 components can, however, be assembled into a system to meet your test specification.

The following illustrations are selected examples of the various kinds of component parts and assemblies, to build precisely the bending jig you require. You choose beam length, upper supports for 4- or 5-point bending, anvil types, roller or edge dimensions, and special factors, such as requirements for folding, or for wide samples. Movement in the anvils can also be specified for the most accurate testing and measurement.

Please refer to the outline at the back of this datasheet for how to identify and specify the components you require.

## Example configurations

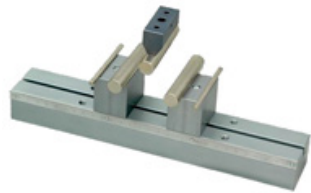
5-point bending fixture,  
nickel-plated steel beam  
100 mm × 275 mm, lower  
anvil radius 2 mm, upper  
anvil radius 5 mm



1000 mm aluminium 4-point  
bend jig, anvil height  
200 mm, available roller  
diameters: 10 mm, 20 mm,  
30 mm

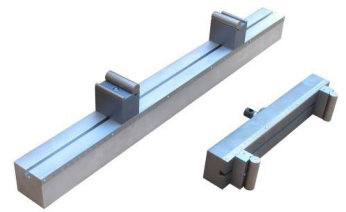


600 mm aluminium 3-point  
bend jig, large roller  
diameter 30 mm, width  
160 mm



Set of rollers, diameter  
10 mm, 20 mm, 30 mm

1200 mm aluminium  
4-point bend jig, available  
roller diameters: 10 mm,  
20 mm, 30 mm



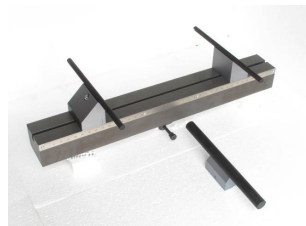
360 mm beam jig showing  
articulated anvils



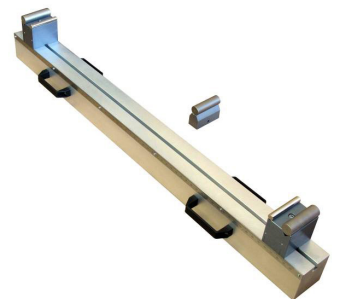
1200 mm aluminium  
4-point bend jig,  
illustrating articulated  
roller anvils on half-  
bearings to allow  
sideways movement



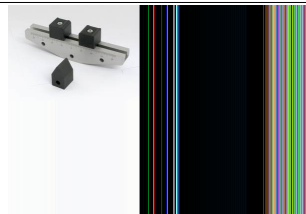
800 mm aluminium 3-point  
bend jig, lower roller  
diameter 15 mm, width  
350 mm, upper roller  
diameter 30 mm



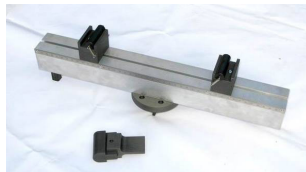
1310 mm aluminium  
3-point bend jig with  
handles, available roller  
diameters: 10 mm,  
20 mm, 30 mm



500 mm aluminium 3-point  
bend jig, lower and upper  
milled edge radius 5 mm,  
width 420 mm



900 mm 3-point bend jig,  
anvils rolling to end-stop,  
diameter 30 mm spring-  
retained rollers; articulated  
upper anvil



## Anvils

Nickel-plated hardened steel,  
milled radius 2 mm



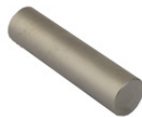
Nickel-plated hardened steel,  
milled radius 5 mm for 4-point  
bend jig upper beam



Aluminium or steel v-notch  
lower anvil for interchangeable  
rollers diameter 8 mm to 35 mm



Nickel-plated hardened steel  
diameter 30 mm rollers for  
v-notch anvils



Lower aluminium anvils with  
rollers diameter 10 mm, 20 mm,  
and 30 mm



Lower anvil, roller diameter  
10 mm, height 150 mm



V-notch anvil with roller diameter  
50 mm

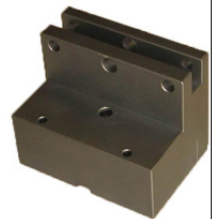


Lower anvil, roller diameter  
10 mm, height 200 mm



## Articulated carrier anvils

Articulated carrier for removable  
inserts, aluminium to 50 kN



Upper articulated carrier for  
removable inserts, 15.9 mm QC  
fitting



Insert for articulated carrier, width  
100 mm, available radii: 2; 5; 10;  
15 and 20 mm



Articulated carrier with radius  
5 mm insert





Rubber-faced sprung roller insert for articulated carrier, roller radius 30 mm, width 100 mm



V-notch upper anvil for interchangeable rollers, available in various QC fittings, in aluminium or steel



Spring-retained roller on flat bed with end-stops



## 4-point bend fixtures

Upper beam to convert Mec22 3-point bend jig to 4-point bend



Support with integral roller, diameter 50 mm, width 50 mm



Upper v-notch carrier for interchangeable rollers for 4-point bending



Upper anvil, nickel-plated hardened steel, milled radius 5 mm, 15.9 mm QC fitting



Upper beam hardened steel roller, radius 30 mm, width 100 mm, spring-retained on flat bed, for glass testing



Upper anvil, milled radius 25 mm, 32 mm QC fitting



Upper beam articulated anvil support.



## Special accessories

For holder with large adapter size



V-notch adapters for smallest or largest-radius rollers



V-notch diameter reducer



V-notch upper anvil for interchangeable rollers, diameters: 31; 8; 32; 36; 40; 50; 60 mm, 32 mm QC fitting



T-nut for mounting anvils on beams, 10 mm x 40 mm



## Bend jigs to your own specification

Bend jigs can be assembled to user specification to achieve these requirements:

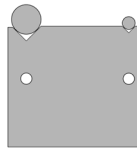
- load rating
- anvil edge type
- anvil height
- individual positioning of anvils, or by centric gearing
- bending span width
- anvil movement type
- 3, 4 or 5-point bend capability
- anvil mount type
- anvil width

Certain anvil types allow a rocking movement, adjustable angle (articulated), or flat sideways movement. For sharp angle bending (e.g. to 160°) long-fin anvils are available, along with other specialised anvils. Standard anvil types are shown below. (Roller size is denoted by diameter, milled edges by radius.)

### Type A: dual-radius

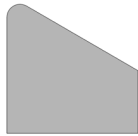


A: milled edge

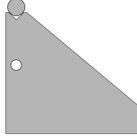


AX: v-notch roller bearings

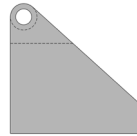
### Type C: single radius



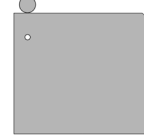
C: milled edge



CX: v-notch roller

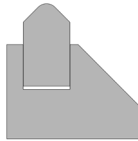


CL: captive roller

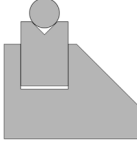


CM: roller free to traverse

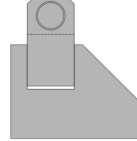
### Type CW, carrier style



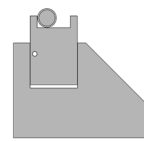
CW: milled edge



CWX: v-notch roller

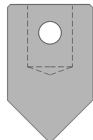


CWL: captive roller

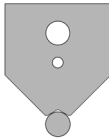


CWN: roller traverses to stop

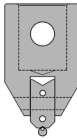
### Type O, upper anvil



O: milled edge



OX: v-notch roller bearing



OWX: carrier-style v-notch

## How to specify your specific bend jig requirement

Let us know your requirement by:

- beam model: Mec238, Mec103, Mec22
- aluminium or steel, and finish (where available)
- the beam length (longer beam lengths are available for certain jigs)
- anvil mount type as above (A, C, CW, O, OW and X, L, M, N)
- the upper and lower anvil radii (milled) or diameters (rollers)
- any special requirements such as anvil height or width, or movement
- if you require centric gearing (Mec103 only)
- if you require an upper support for two anvils for 4-point or 5-point testing
- the QC coupling size (15.9 mm, 20 mm or 32 mm)

For full details and examples, refer to the datasheets for the three base models: Mec238, Mec103 and Mec22.



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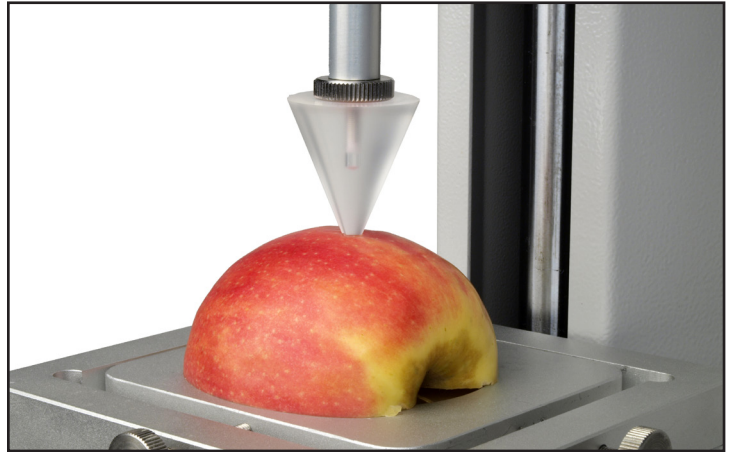
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DS-1022-01

## Perpex 45° Cone Probe with Extension Rod



### Description

The perspex cone probe has a 45° angle, and is used for texture testing to assess characteristics such as hardness and spreadability.

### Applications

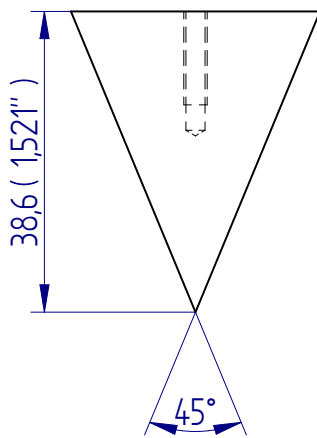
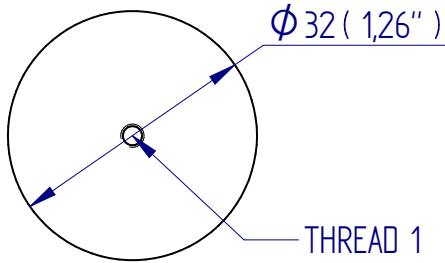
Used to determine the firmness and spreadability properties of:

- food products
- cosmetics

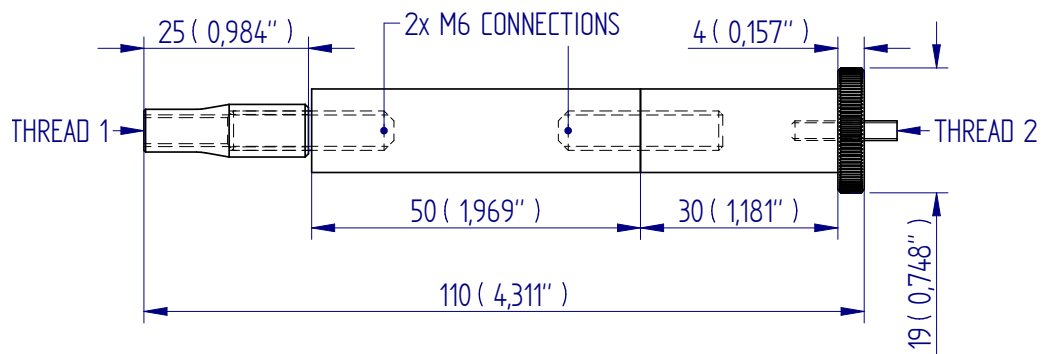
### Specifications

Part No.	Load Capacity			Thread 1	Thread 2	Length		Weight	
	200 N	20 kgf	45 lbf			38.6 mm	1.52"	12 g	0.03 lb
432-081	200 N	20 kgf	45 lbf	10-32 UNF	—	38.6 mm	1.52"	12 g	0.03 lb
432-100	200 N	20 kgf	45 lbf	M3	10-32 UNF	110 mm	4.33"	40 g	0.09 lb

## Dimensions mm (inch)



432-081



432-100

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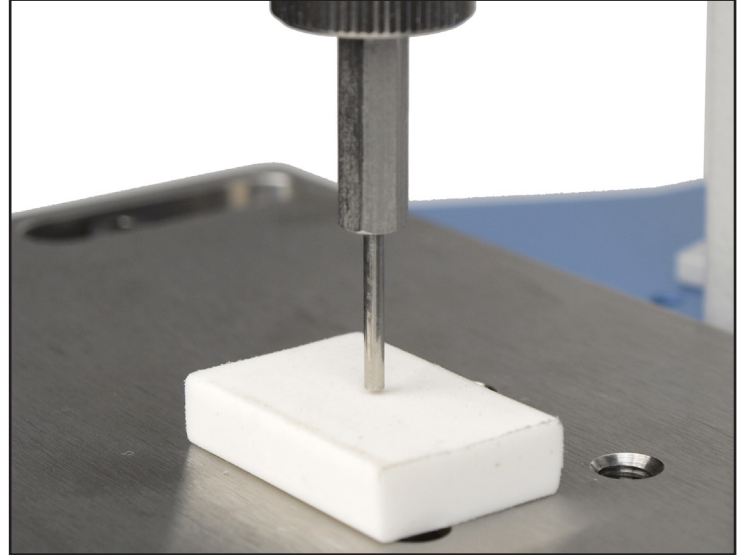
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## 2 mm Needle Probe



### Description

The needle probe is made from stainless steel and is designed for surface puncture and penetration tests.

### Applications

Used to determine the firmness and spreadability properties of:

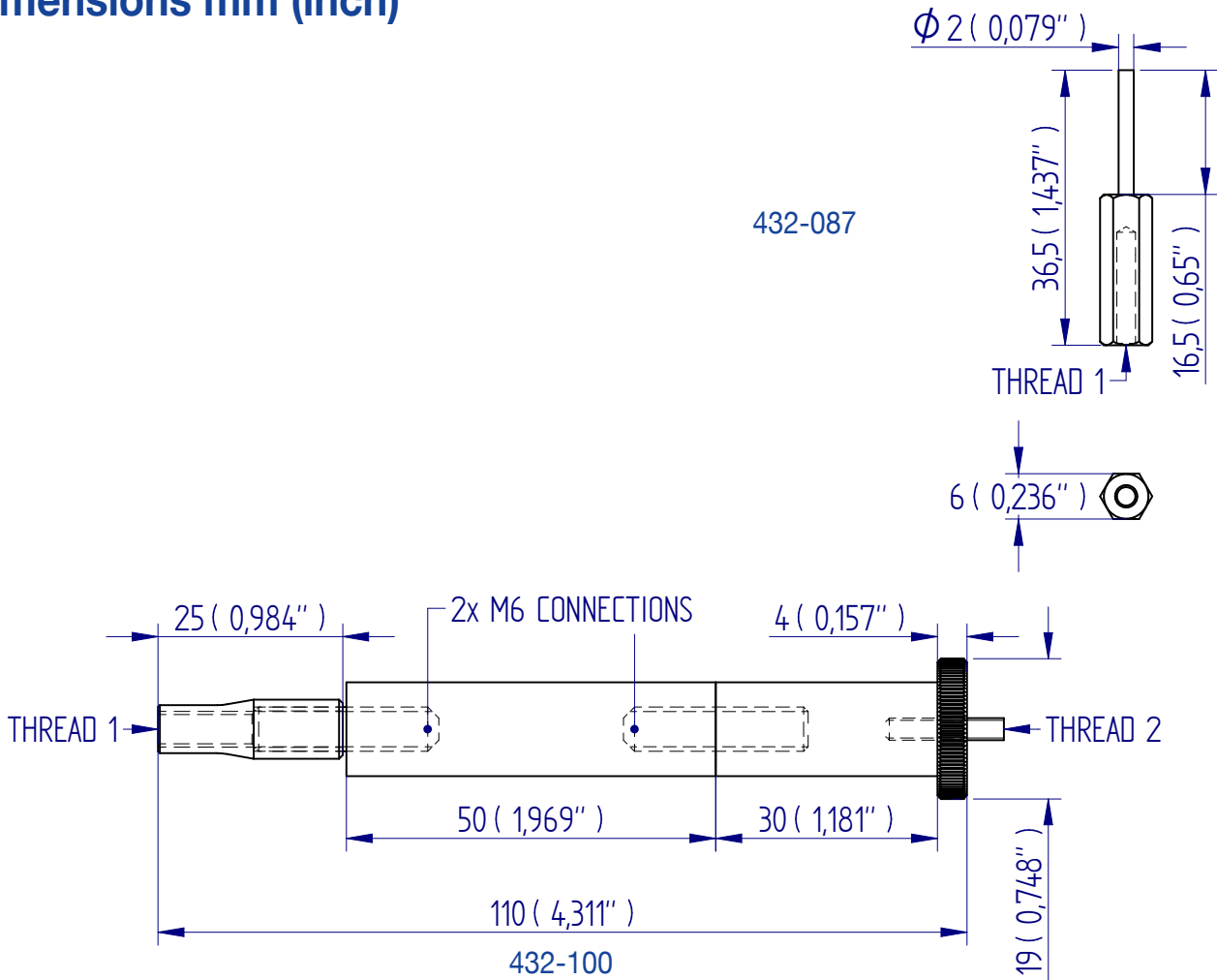
- food products

### Specifications

Part No.	Load Capacity			Thread 1	Thead 2	Weight	
	N	kgf	lbf			g	lb
432-087	100 N	10 kgf	22 lbf	M3	N/A	9 g	0.02 lb
432-100	100 N	10 kgf	22 lbf	10-32 UNF	M3	40 g	0.09 lb



## Dimensions mm (inch)



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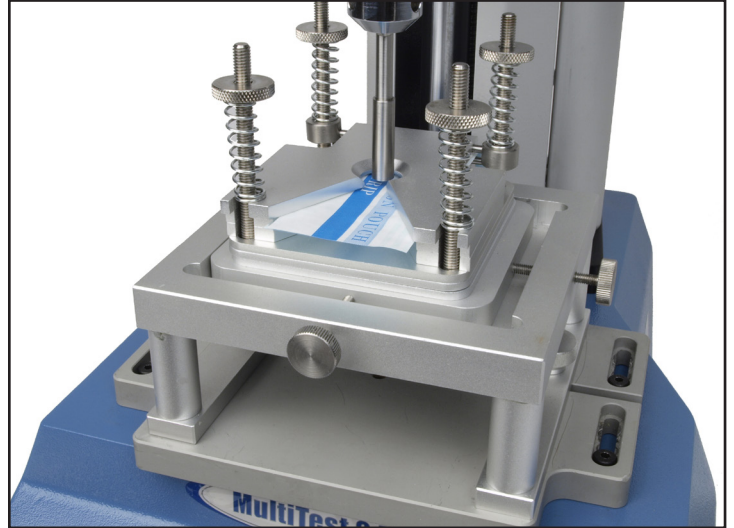
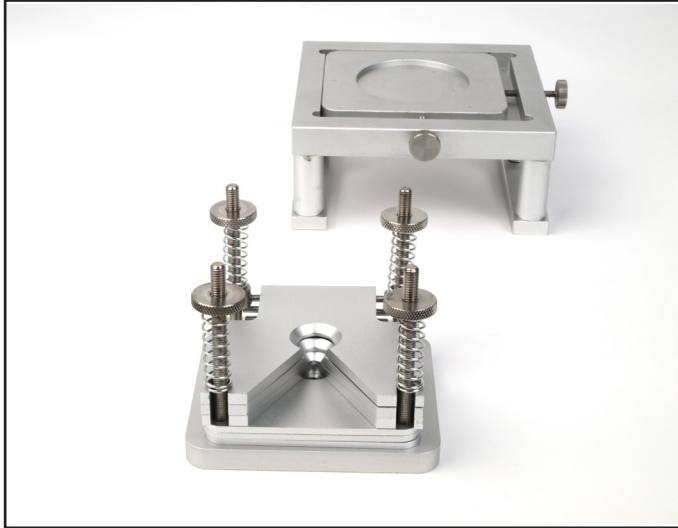
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## Puncture Test Jig



### Description

This jig is designed also to accommodate spherical or irregular samples. Three sizes of holding plate are supplied.

### Applications

Used to determine the puncture resistance properties of:

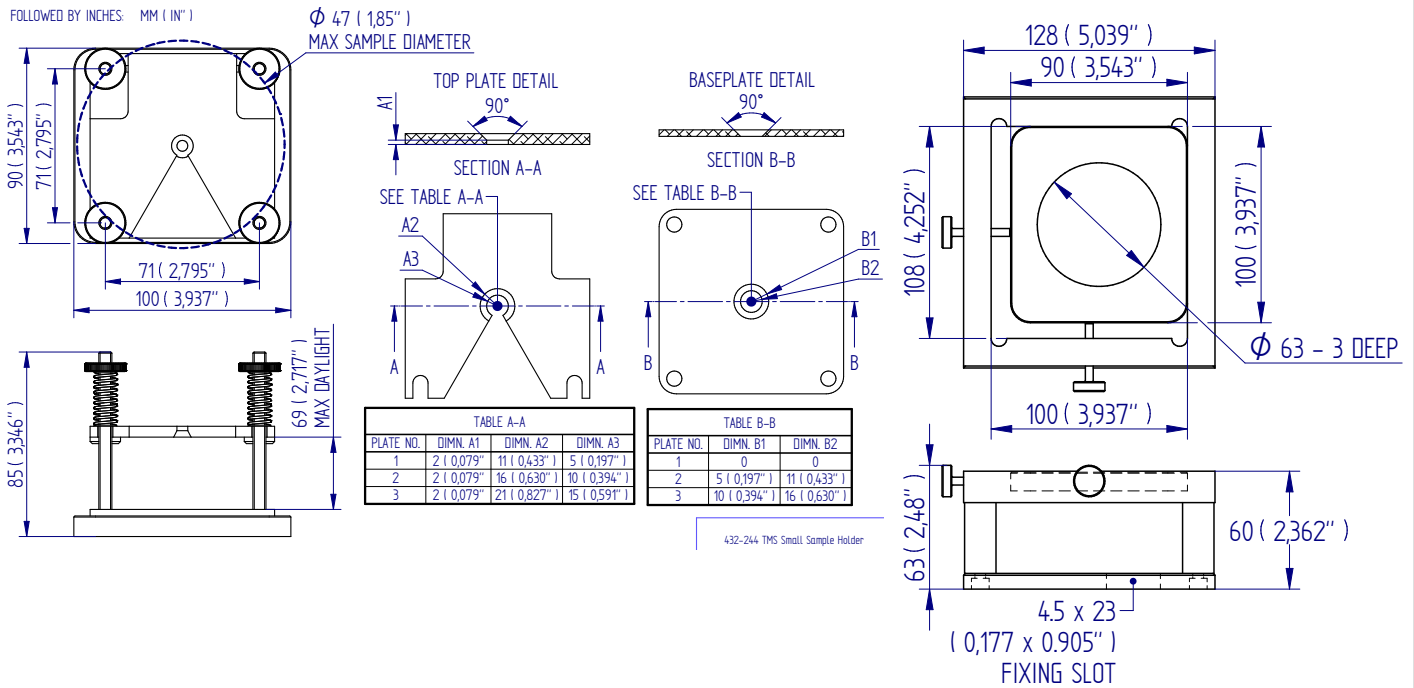
- films
- food products

### Specifications

Part No.	Load Capacity			Max. Sample Diameter Ø		Weight	
	200 N	20 kgf	45 lbf	—	—	757 g	1.66 lb
432-243	200 N	20 kgf	45 lbf	—	—	757 g	1.66 lb
432-244	200 N	20 kgf	45 lbf	47 mm	1.85"	693 g	1.52 lb

## Dimensions mm (inch)

FOLLOWED BY INCHES: MM ( IN" )



432-244

432-243

432-244 TMS Small Sample Holder

TABLE A-A			
PLATE NO.	DIMN. A1	DIMN. A2	DIMN. A3
1	2 ( 0,079" )	11 ( 0,433" )	5 ( 0,197" )
2	2 ( 0,079" )	16 ( 0,630" )	10 ( 0,394" )
3	2 ( 0,079" )	21 ( 0,827" )	15 ( 0,591" )

TABLE B-B		
PLATE NO.	DIMN. B1	DIMN. B2
1	0	0
2	5 ( 0,197" )	11 ( 0,433" )
3	10 ( 0,394" )	16 ( 0,630" )

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## Simulated Child Jaws



### Description

Simulated child jaws comply with BS5239:1998 to imitate compressive force within a child's mouth. Grips are supplied in pairs.

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØB)	
432-020	500 N	50 kgf	110 lbf	10-32 UNF	38 mm	1.50"

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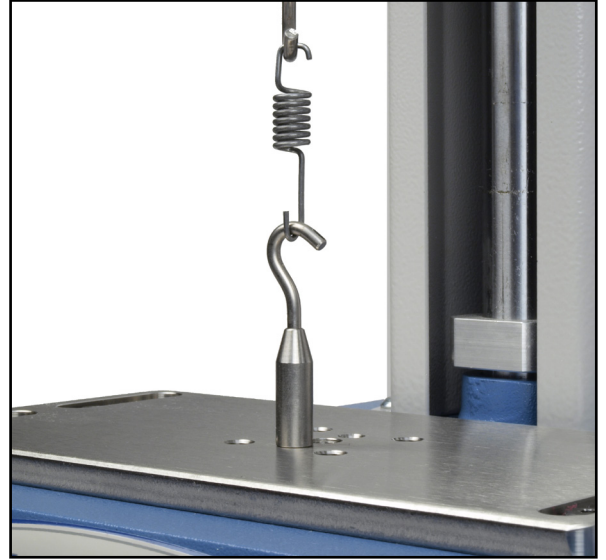
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## Round Hooks



### Description

Round hooks are general purpose, suitable for any sample with a loop, eyelet or similar feature. Often used with a digital force gauge to perform tensile tests on tension springs.

### Applications

Used for general purpose tensile testing of:

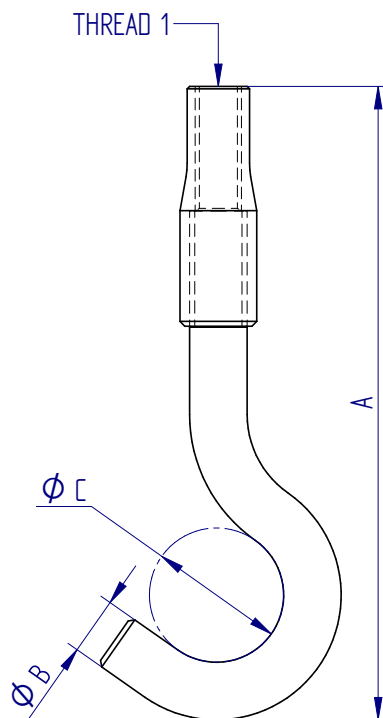
- tension springs
- any sample with a loop or eyelet

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØB)		Max. Specimen Diameter (ØC)		Length (A)		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-118	50 N	5 kgf	11 lbf	10-32 UNF	3 mm	0.12"	8 mm	0.32"	39 mm	1.54"	20 g	0.04 lb
432-120	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	30 g	0.07 lb
432-122	2.5 kN	250 kgf	550 lbf	5/16 UNC	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	30 g	0.07 lb
432-169	500 N	50 kgf	110 lbf	M6	6 mm	0.24"	14 mm	0.55"	66 mm	2.60"	20 g	0.04 lb
432-171	50 N	5 kgf	11 lbf	M6	3 mm	0.12"	8 mm	0.32"	38 mm	1.50"	8 g	0.02 lb



## Dimensions mm (inch)



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## Swivel Test Hooks



### Description

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

### Applications

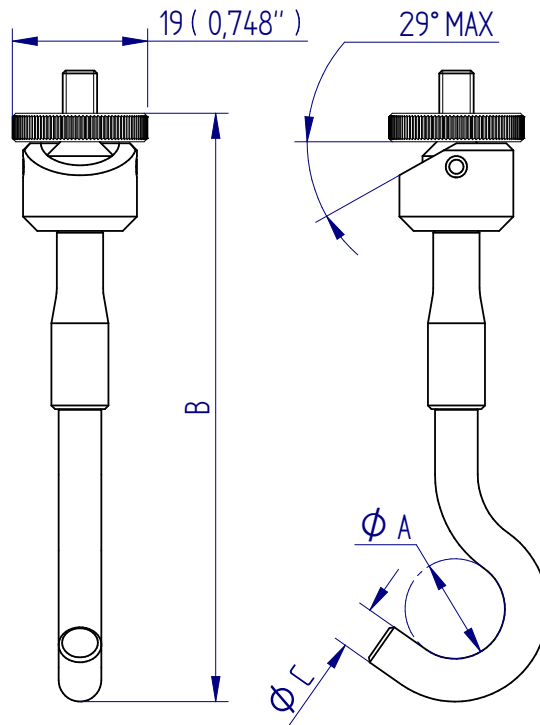
Used for general purpose tensile testing of:

- tension springs

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØC)		Diameter (ØA)		Length (B)		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-391	500 N	50 kgf	110 lbf	10-32 UNF	6 mm	0.24"	14 mm	0.55"	83 mm	3.28"	50 g	0.11 lb
432-392	50 N	5 kgf	11 lbf	10-32 UNF	3 mm	0.12"	8 mm	0.32"	50 mm	1.97"	28 g	0.06 lb

## Dimensions mm (inch)



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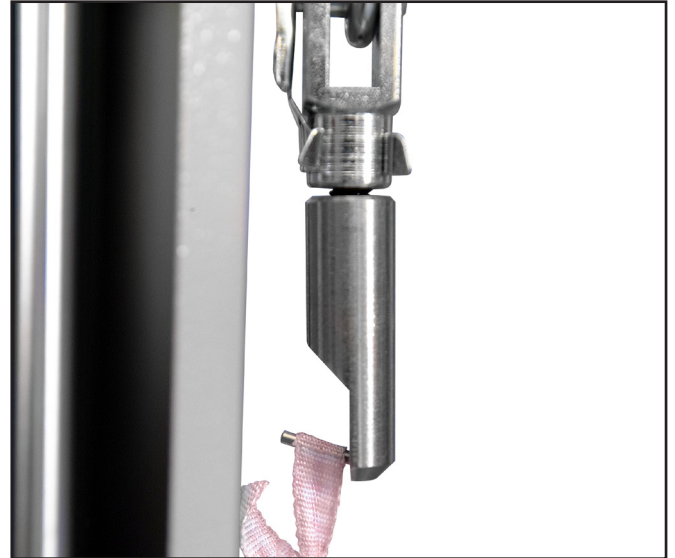
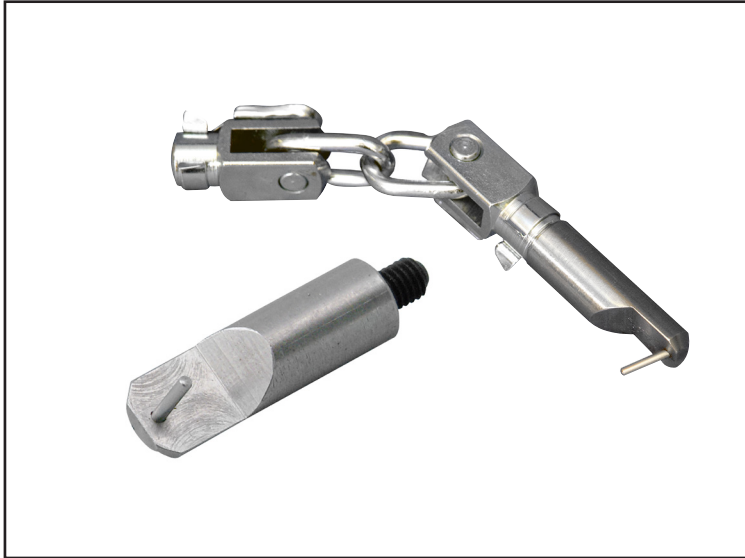
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## Peg Hooks



### Description

Peg hooks are designed for easy mounting of small and miniature tension springs. The extended peg hook is supplied with a flexible link.

Used for securely attaching samples of decorations when carrying out test-to-failure tests on textiles and clothing.

### Applications

Used for general purpose tensile testing of:

- tension springs

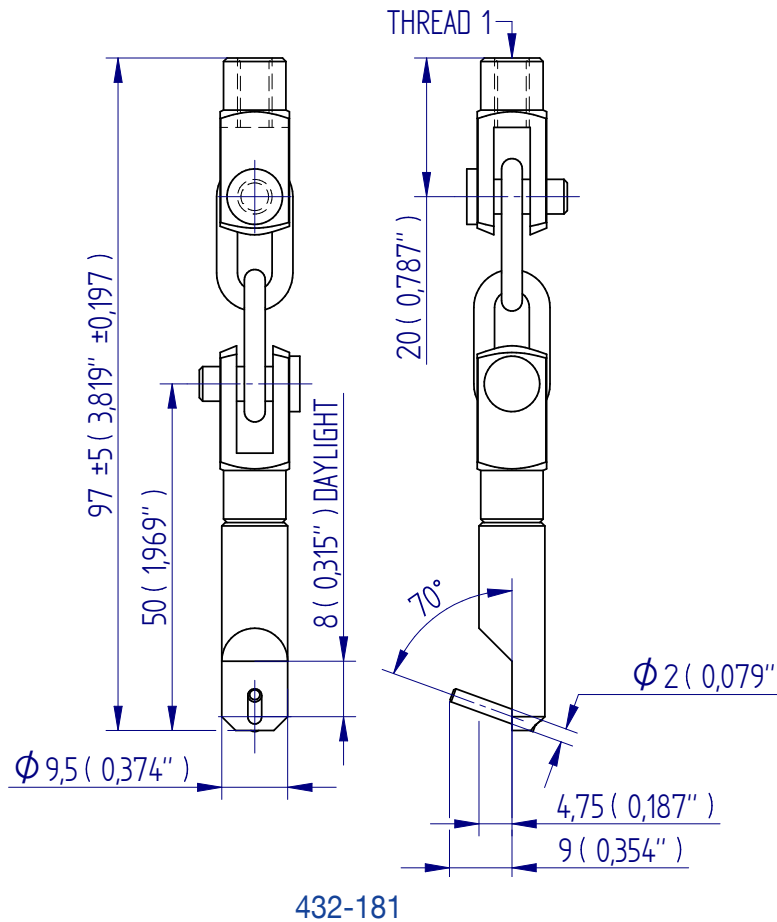
(Extended) Used for general purpose tensile testing of:

- clothing
- textiles

### Specifications

Part No.	Load Capacity			Thread 1	Length (A)		Peg Length		Peg Ø		Weight	
	50 N	5 kgf	11 lbf		30 mm	1.18"	6 mm	0.24"	1.5 mm	0.06"	30 g	0.07 lb
432-399	50 N	5 kgf	11 lbf	10-32 UNF	30 mm	1.18"	6 mm	0.24"	1.5 mm	0.06"	30 g	0.07 lb
432-181	50 N	5 kgf	11 lbf	10-32 UNF	97 mm	3.82"	9 mm	0.35"	2 mm	0.08"	42 g	0.09 lb

## Dimensions mm (inch)



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## Adjustable Test Hook



### Description

Used for securely holding smaller crimp terminals for tests to BSI spec. BS5G178 PART 1 and equivalent international standards.

### Applications

Used for general purpose tensile testing of:

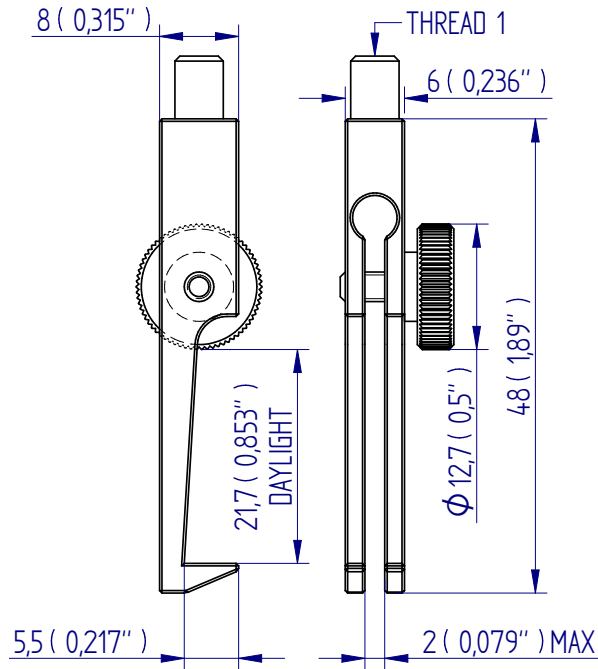
- crimp terminals

### Specifications

Part No.	Load Capacity			Thread 1	Hook Depth		Jaw Capacity		Length		Weight	
	50 N	5 kgf	11 lbf		5.5 mm	0.217"	2 mm	0.08"	56 mm	2.21"	13 g	0.02 lb
432-380	50 N	5 kgf	11 lbf	10-32 UNF	5.5 mm	0.217"	2 mm	0.08"	56 mm	2.21"	13 g	0.02 lb



## Dimensions mm (inch)



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## Flip Cap Accessory



### Description

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

### Applications

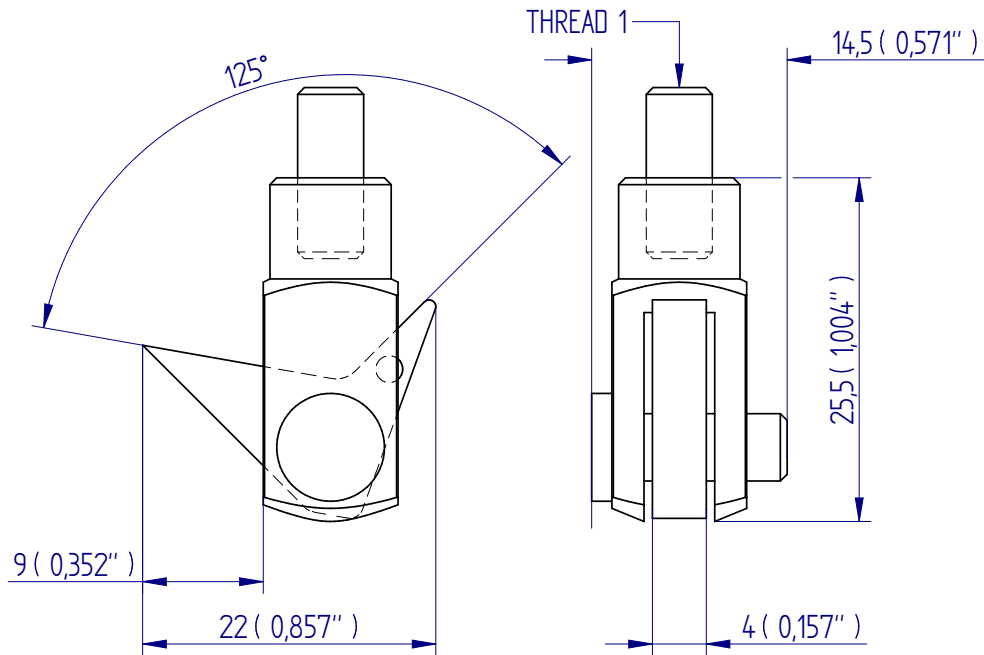
Used for general purpose tensile testing of:

- flip caps used in packaging

### Specifications

Part No.	Load Capacity			Thread 1	Hook Depth		Hook Width		Length		Weight	
	100 N	10 kgf	22 lbf		22 mm	0.857"	4 mm	0.16"	25.5 mm	1.00"	17 g	0.04 lb
432-419				10-32 UNF								

## Dimensions mm (inch)



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## Clevis Fastener



### Description

Used for testing heavy duty tension springs or for securing odd-shaped parts.

### Applications

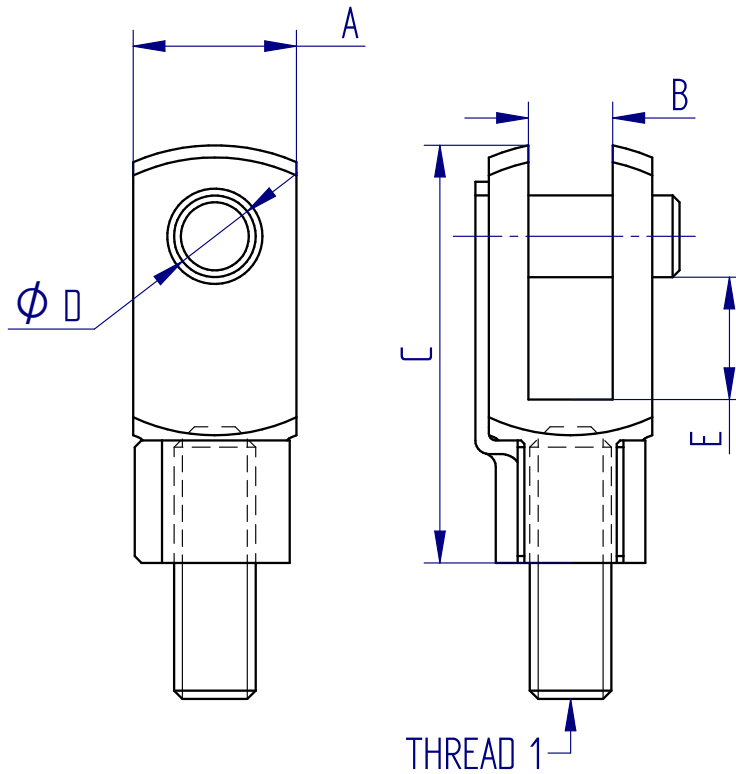
Used for general purpose tensile testing of:

- tension springs

### Specifications

Part No.	Load Capacity			Thread 1	Width (B)		Pin Diameter (ØD)		Length (C)		Weight	
	N	kgf	lbf		mm	"	mm	"	mm	"	g	lb
432-216	500 N	50 kgf	110 lbf	M6	6 mm	0.20"	5 mm	0.20"	31 mm	1.22"	—	—
432-400	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
432-403	500 N	50 kgf	110 lbf	10-32 UNF	5 mm	0.20"	5 mm	0.20"	26 mm	1.02"	13 g	0.02 lb
432-443	5 kN	500 kgf	1100 lbf	M12	12 mm	0.47"	12 mm	0.47"	62 mm	2.44"	250 g	0.55 lb

## Dimensions mm (inch)



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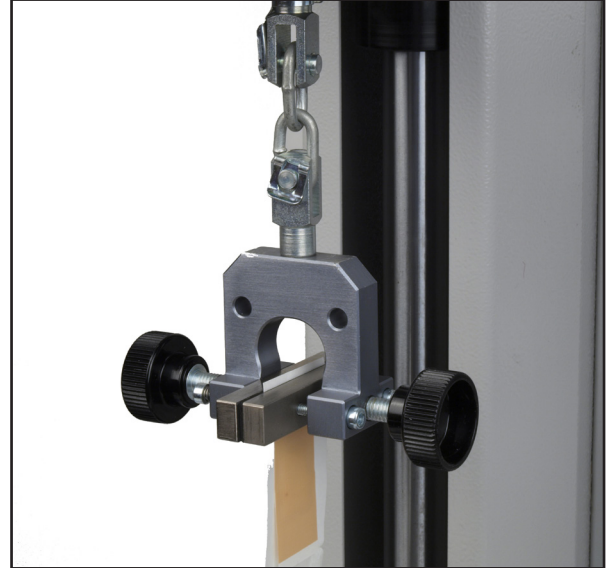
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## Chain Link Assembly



### Description

The chain link assembly is used for flexible alignment and connection of other accessories, in particular manual handling test applications. The 500 N capacity version is often used for ease of sample loading with lightweight vice grips, vice clamps and wedge grips.

### Applications

Used for general purpose tensile testing of:

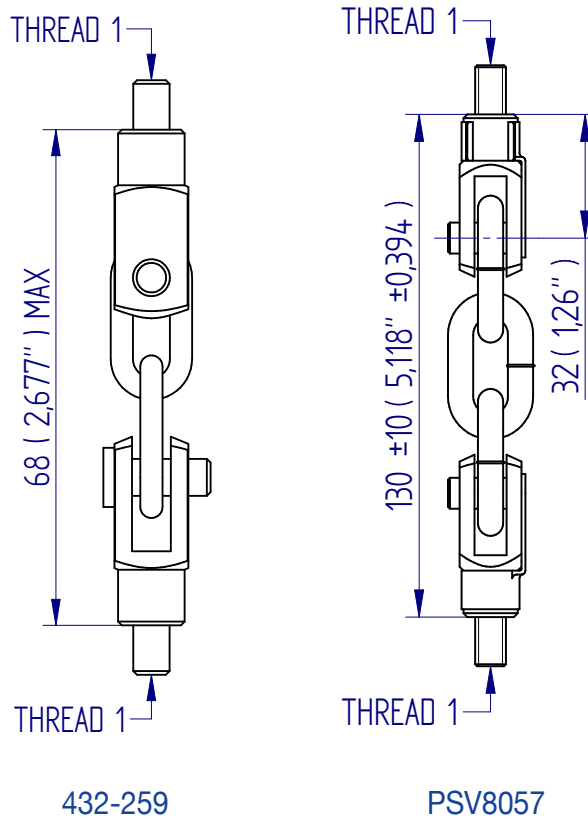
- manual handling

### Specifications

Part No.	Load Capacity			Thread 1	Length		Weight	
	N	kgf	lbf		mm	"	g	lb
432-259	500 N	50 kgf	110 lbf	10-32 UNF	68 mm	2.68"	32 g	0.07 lb
PSV8057	2.5 kN	250 kgf	550 lbf	5/16 UNC	130 mm	2.68"	158 g	0.35 lb



## Dimensions mm (inch)



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## Rod End Bearings



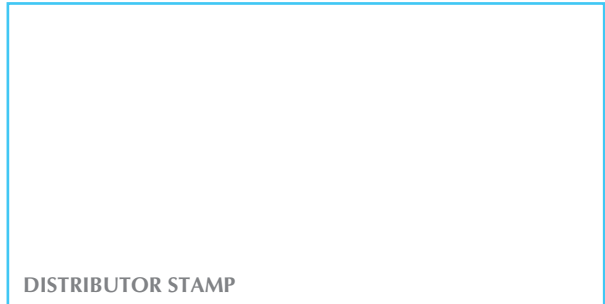
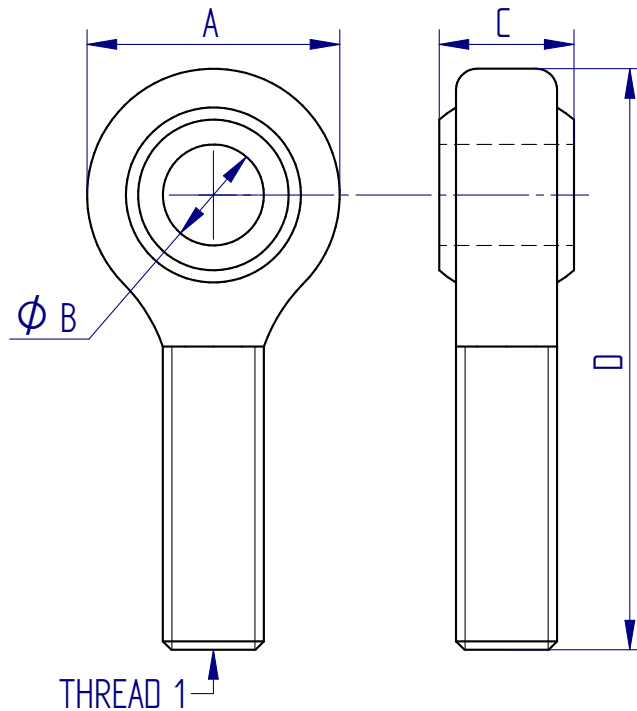
### Description

Rod end bearings are used to align heavy samples so they remain stable during loading.

### Specifications

Part No.	Load Capacity			Thread 1	Diameter (ØB)		Length (D)	
	kN	kgf	lbf		mm	in	mm	in
432-365	25	2500	5500	M16	16	0.63	85	3.35
432-366	10	1000	2200	M12	12	0.47	69	2.72
432-367	5	500	1100	M10	10	0.39	62	2.44
432-368	50	5	11	M24	24	0.94	126	4.96
432-369	1	100	225	M6	6	0.27	46	1.81
432-370	100	10000	22000	M36	36	1.42	181	7.13

## Dimensions mm (inch)



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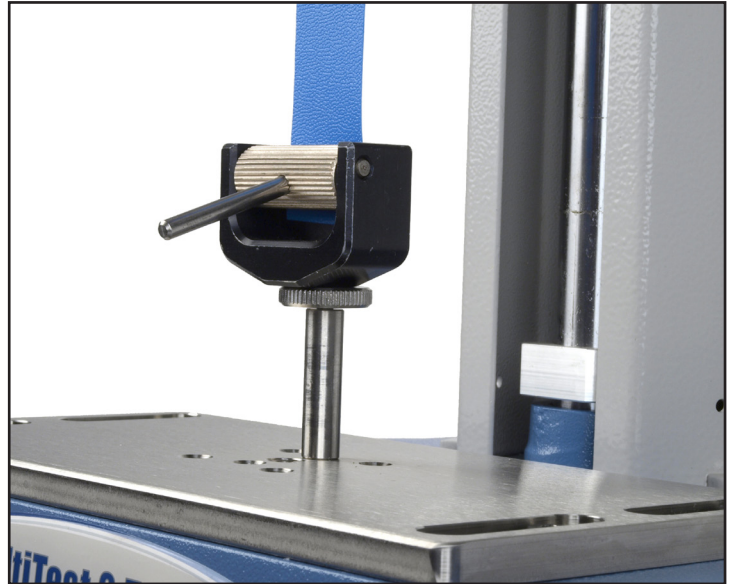
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## Lever-operated Cam Grips



### Description

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

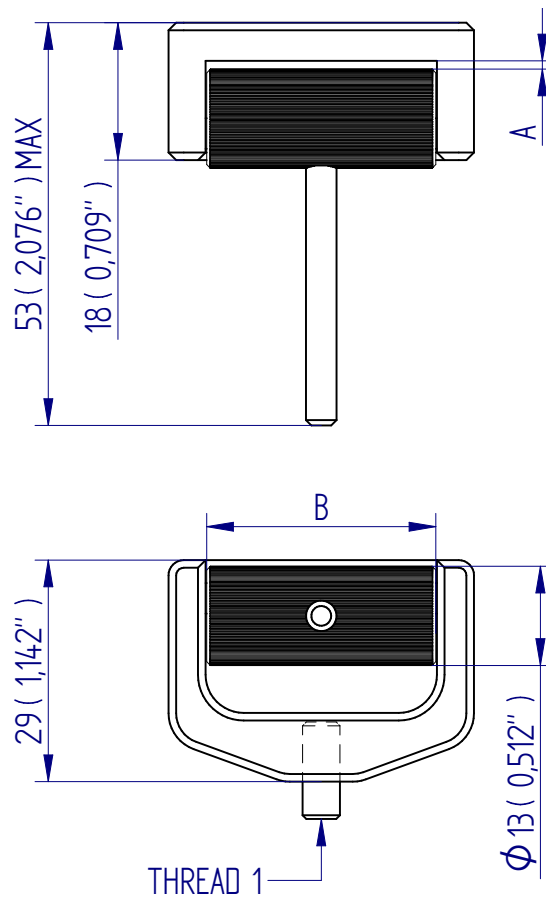
### Applications

- dumbbells
- elastomers

### Specifications

Part No.	Load Capacity			Thread 1	Maximum Sample Size (Width x Thickness)		Height		Weight	
	500 N	50 kgf	110 lbf		30 mm x 5 mm	1.18" x 0.20"	29 mm	1.14"	100 g	0.22 lb
432-383	500 N	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
432-047	500 N	50 kgf	110 lbf	10-32 UNF	70 mm x 5 mm	2.76" x 0.20"	29 mm	1,14"	100 g	0.22 lb

## Dimensions mm (inch)



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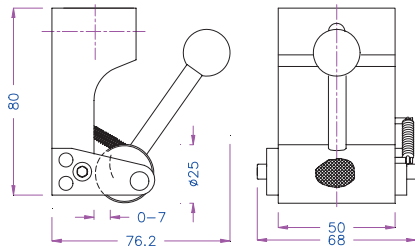
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## Lever-operated Cam Grip, QC fitting

Eccentric roller grips – easy to use and self-tightening  
Applicable for soft and flexible samples, foils, plastics, rubber etc.

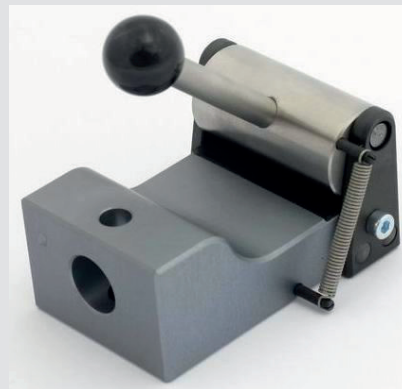
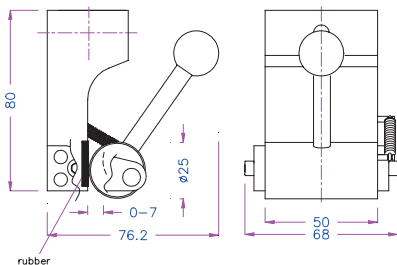
### Mec7-1 Eccentric roller grip

- Tensile force: 1 kN
- Pyramid (serrated) faced roller, 25mm Ø
- Clamping width 50mm, specimen thickness 0 – 7 mm
- Temperature range: 0 – 130°C  
Other temperature ranges possible on request
- Body: aluminum anodized
- Weight: 509 gram each grip
- Scope of delivery: 1 pair



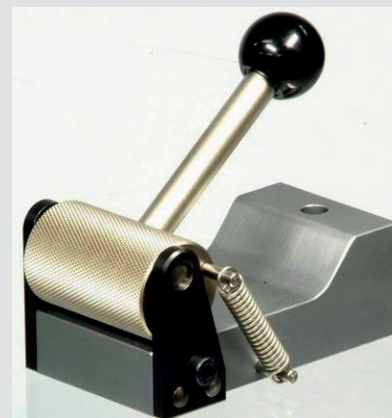
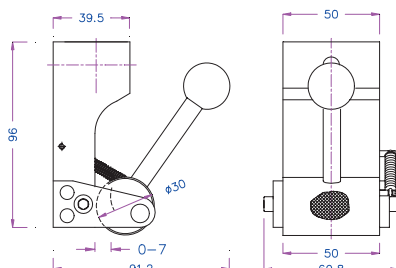
### Mec7-1-SR Eccentric roller grip

- Tensile force: 1 kN
- Smooth roller, 25mm Ø, rubber base plate
- Clamping width 50mm, specimen thickness 0 – 7mm
- Temperature range: 0 – 70°C  
Other temperature ranges possible on request
- Body: aluminum anodized
- Weight: 509 gram each grip
- Scope of delivery: 1 pair



### Mec7-5 Eccentric roller grip

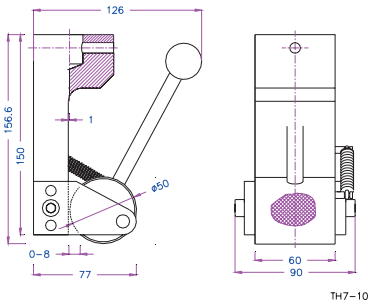
- Tensile force: 5 kN
- Pyramid (serrated) faced roller, 30mm Ø
- Clamping width 50mm, specimen thickness 0 – 7mm
- Temperature range: 0 – 130°C  
Other temperature ranges possible on request
- Body: aluminum anodized
- Weight: 667 gram each grip
- Scope of delivery: 1 pair





## Mec7-10 Eccentric roller grip

- Tensile force: 10 kN
- Pyramid (serrated) faced roller, 50mm Ø
- Clamping width 60mm, specimen thickness 0 – 8mm
- Temperature range: 0 – 130°C
- Other temperature ranges possible on request
- Body: steel, manganese phosphate coating
- Weight: 3.35 kg each grip
- Scope of delivery: 1 pair



### Examples of other versions



Mec-5-Ni • Nickel plated



Mec766-5 • Symmetric tightening



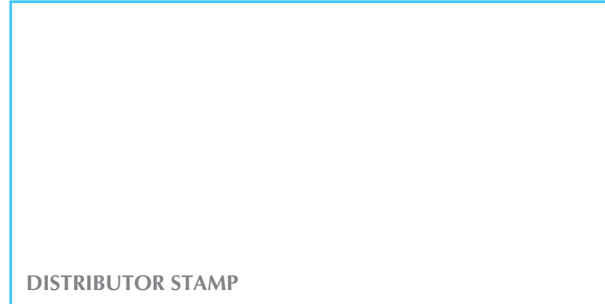
Mec7-5-100 • Roller width 100 mm



Mec7-5-H80 • Body height 80mm



Mec7-5-SBP • Pyramid faced base plate



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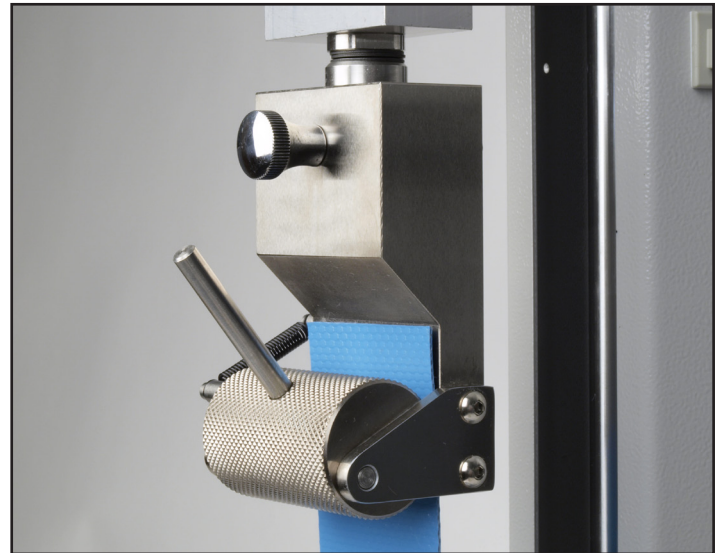
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## Spring-loaded Eccentric Grip, QC Fitting



### Description

The spring-loaded eccentric grip is a self-tightening cam grip with a knurled roller design, ideal for flat and dumbbell shaped samples. The eccentric knurled roller and serrated back plate provide excellent gripping on smooth surfaces for tension tests up to 2 kN.

### Applications

Used for tensile testing of:

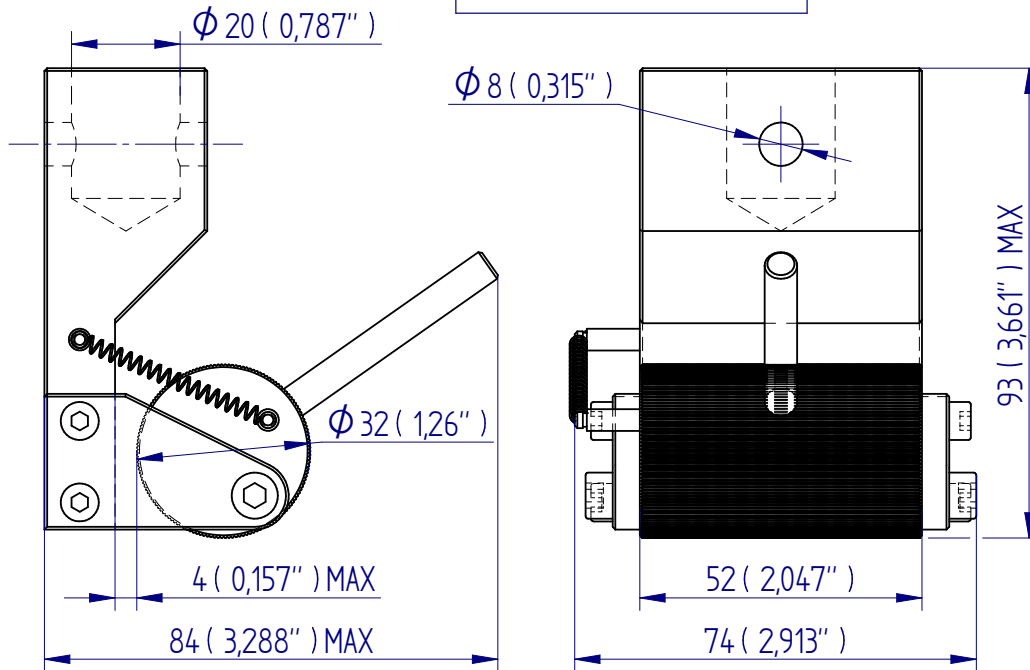
- flexible sheet materials
- polymers
- rubber
- plastics

### Specifications

Part No.	Load Capacity			Post Ø	Max. Sample Thickness		Max. Sample Width		Height		Weight	
	2 kN	200 kgf	440 lbf		4 mm	0.16"	52 mm	2.05"	93 mm	3.66"	540 g	1.19 lb
432-263	2 kN	200 kgf	440 lbf	QC20	4 mm	0.16"	52 mm	2.05"	93 mm	3.66"	540 g	1.19 lb

## Dimensions mm (inch)

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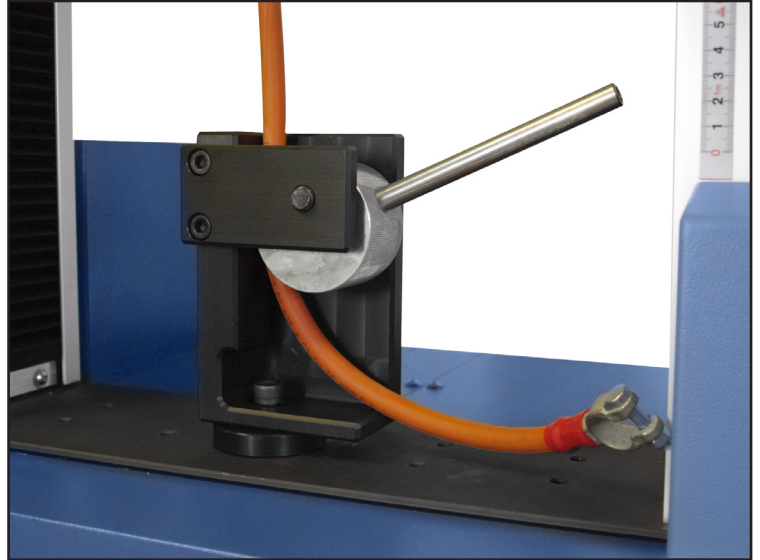
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## Cable Cam Grips



### Description

Cable cam grips are designed for holding insulated cables and wire. 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.

### Applications

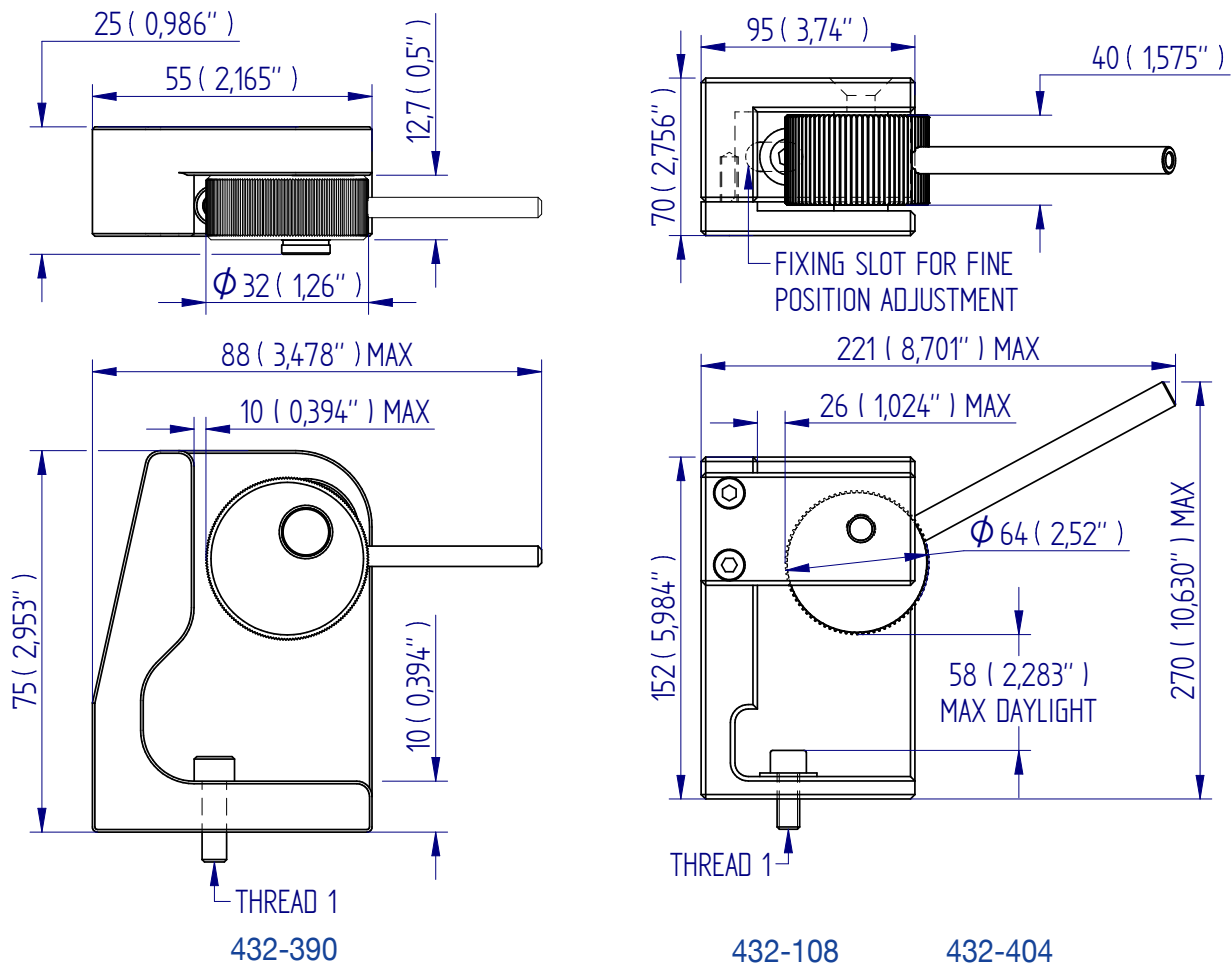
Used for general purpose tensile testing of:

- crimped terminals
- tapes
- foils
- wires

### Specifications

Part No.	Load Capacity			Thread 1	Type	Max. Sample Width		Max. Sample Thickness		Length		Weight	
	1 kN	100 kgf	225 lbf			13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-390	1 kN	100 kgf	225 lbf	10-32 UNF	Serrated	13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-404	1 kN	100 kgf	225 lbf	10-32 UNF	Smooth	13 mm	0.51"	10 mm	0.39"	75 mm	2.95"	230 g	0.51 lb
432-108	5 kN	500 kgf	1100 lbf	M10	Serrated	40 mm	1.57"	26 mm	1.02"	152 mm	5.98"	2.3 kg	5.10 lb

## Dimensions mm (inch)



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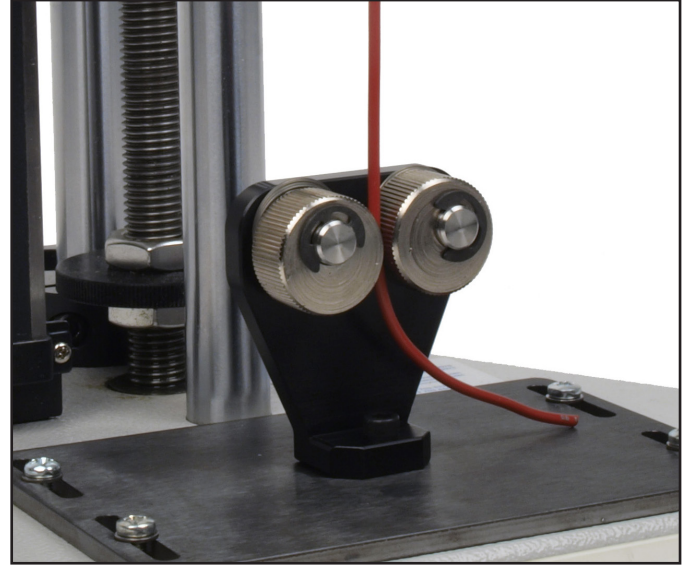
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## Double Cam Grip



### Description

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.

### Applications

Used for tensile testing of:

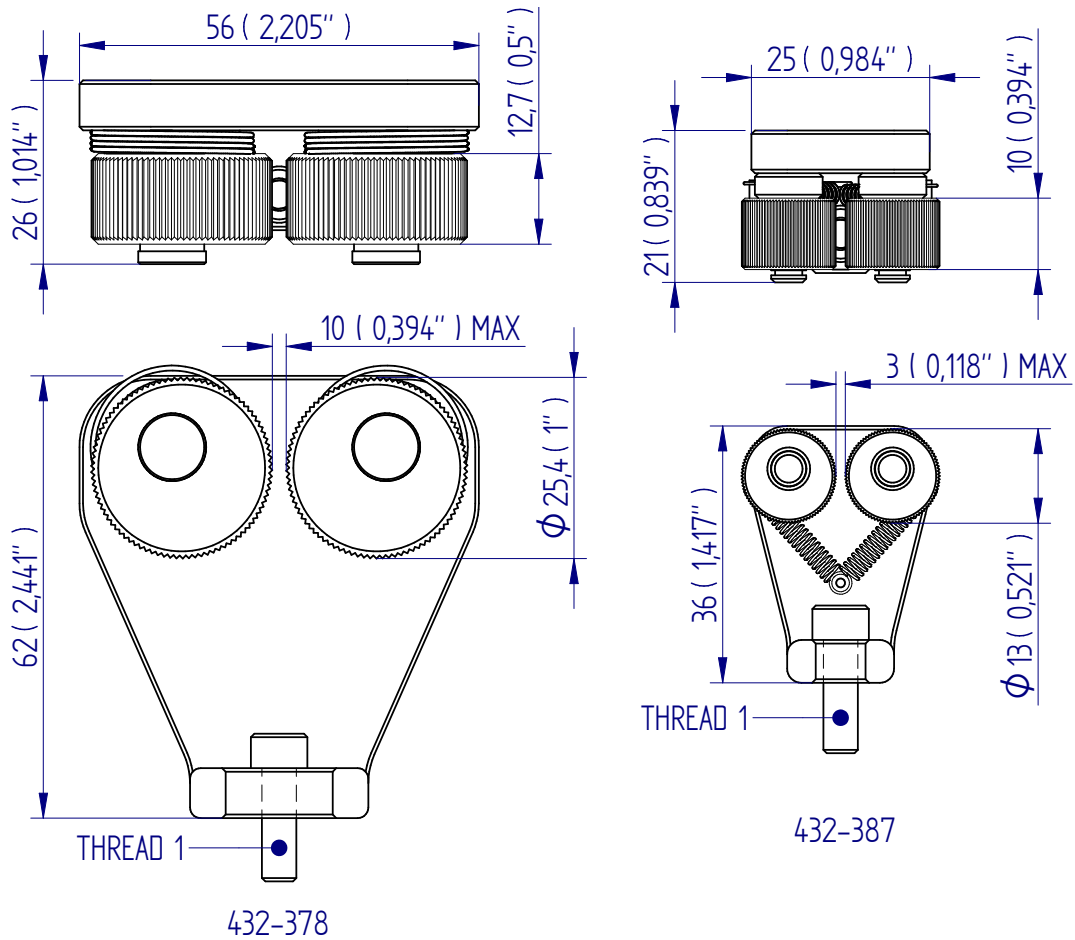
- crimp terminals
- wires

### Specifications

Part No.	Load Capacity			Thread 1	Max. Sample Thickness		Max. Sample Width		Length	
	500 N	50 kgf	110 lbf		2 mm	0.08"	10 mm	0.40"	36 mm	1.42"
432-387	500 N	50 kgf	110 lbf	10-32 UNF	2 mm	0.08"	10 mm	0.40"	36 mm	1.42"
432-378	500 N	50 kgf	110 lbf	10-32 UNF	5 mm	0.20"	15 mm	0.59"	62 mm	2.44"



## Dimensions mm (inch)



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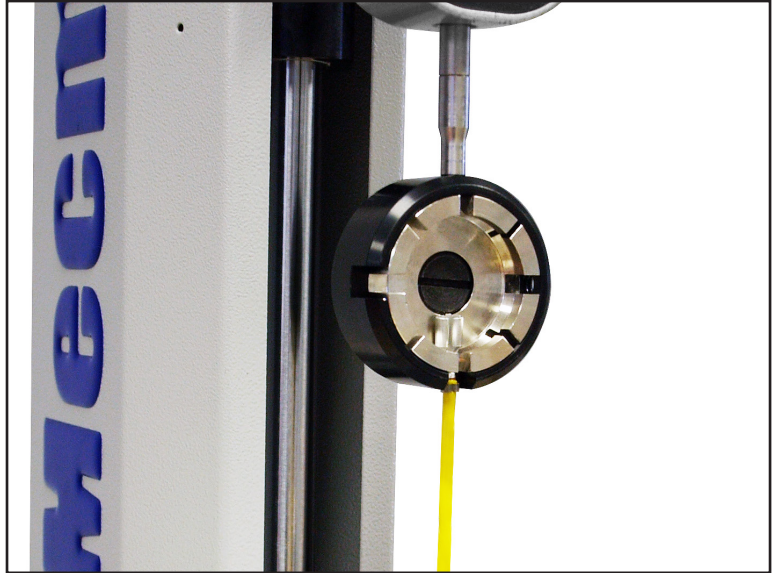
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## Rotating Crimp Receptacle



### Description

The rotating crimp receptacle is a versatile crimp 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

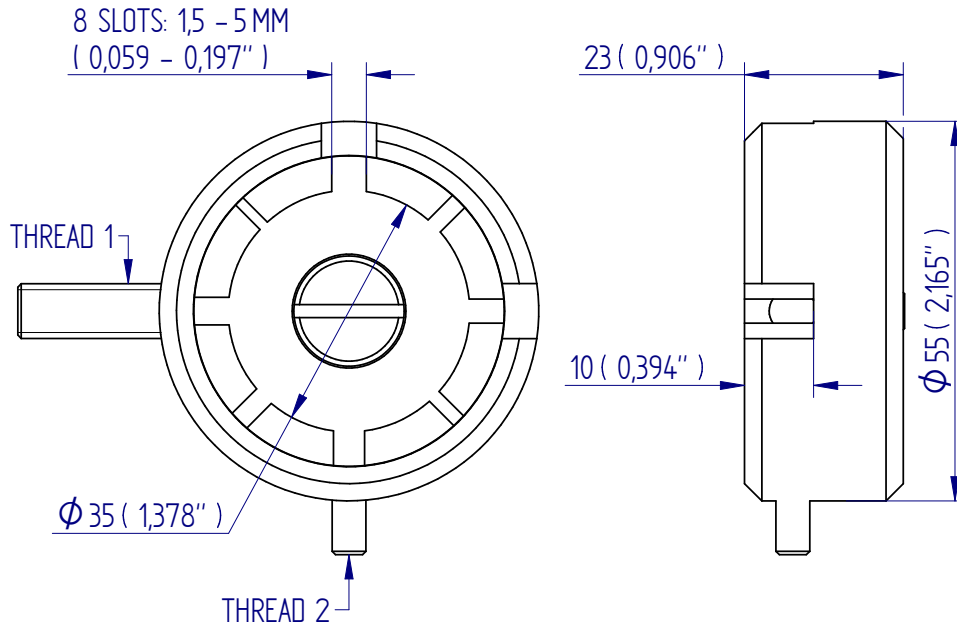
Used for general purpose tensile testing of:

- crimp terminals
- welded or bonded connectors

### Specifications

Part No.	Load Capacity			Thread 1	Thread 2	Diameter Ø		Sample Diameter Range		Weight	
	1 kN	100 kgf	225 lbf			55 mm	2.16"	1.5 mm - 5 mm	0.06" - 0.20"	200 g	0.44 lb
432-379	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

## Dimensions mm (inch)



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## Wire/Filament Grips



### Description

The wire/filament grip is equipped with a grooved capstan and precision-machined swivel plate, which are designed to ensure centre break within the sample and specimen alignment when force is applied.

### Applications

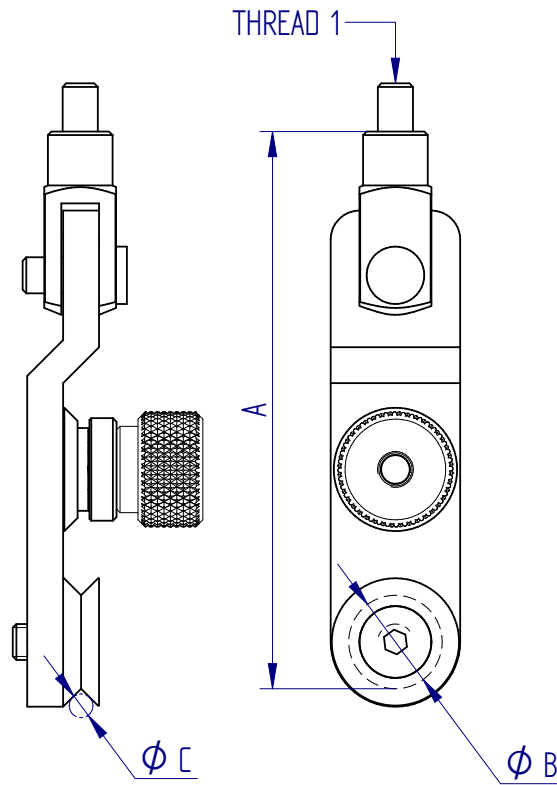
Used for tensile testing of:

- thin wires
- cords
- filaments
- yarns

### Specifications

Part No.	Load Capacity			Thread 1	Pulley Diameter (ØB)		Max wire Diameter (ØC)		Length (A)		Weight	
	250 N	25kgf	55 lbf		13 mm	0.50"	0.8 mm	0.03"	78 mm	3.07"	-	-
432-363	250 N	25kgf	55 lbf	10-32 UNF	13 mm	0.50"	0.8 mm	0.03"	78 mm	3.07"	-	-
432-397	500 N	50 kgf	110 lbf	10-32 UNF	19 mm	0.75"	1.5 mm	0.06"	97 mm	3.82"	117 g	0.26 lb

## Dimensions



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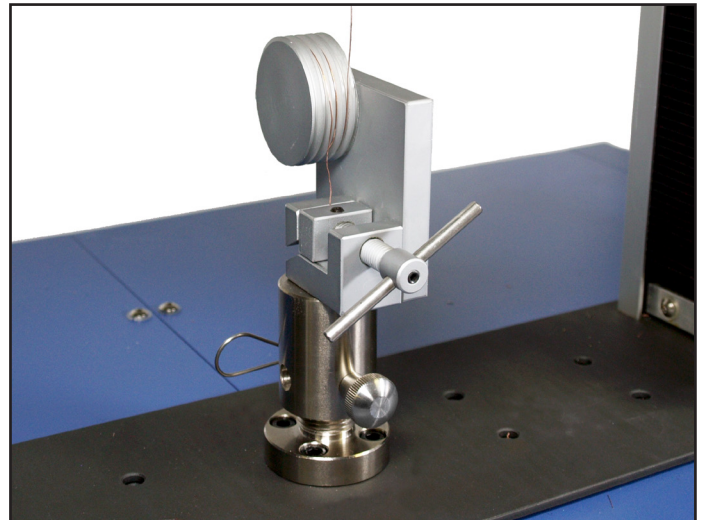
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## Large Circular Bollard Grip, QC fitting



### Description

Large circular bollard grips are designed for testing flexible wire-type samples up to a maximum load of 2 kN. The sample is wrapped around the bollard and the free end is clamped tightly in place.

### Applications

Used for tensile testing of:

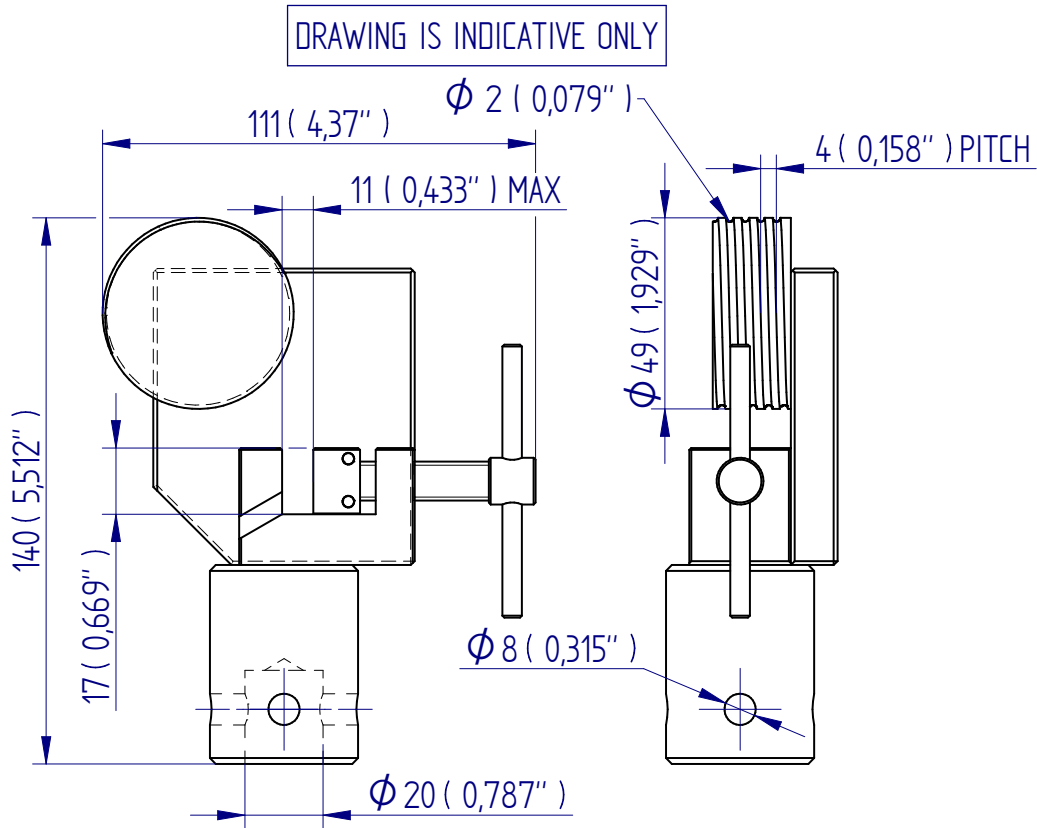
- cord
- filaments
- wire
- yarn

### Specifications

Part No.	Load Capacity			Post Ø	Max. Specimen Thickness		Length		Weight	
	2 kN	200 kgf	440 lbf		2 mm	0.08"	140 mm	5.51"	1.3 kg	2.9 lb
432-271	2 kN	200 kgf	440 lbf	QC20	2 mm	0.08"	140 mm	5.51"	1.3 kg	2.9 lb



## Dimensions mm (inch)



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## Film Grips



### Description

These grips are used for flexible samples such as films, where conventional grips create stress points so reducing tensile strength. Samples are wrapped around the drum, spreading the load and avoiding breakage. Grips are supplied in pairs.

### Applications

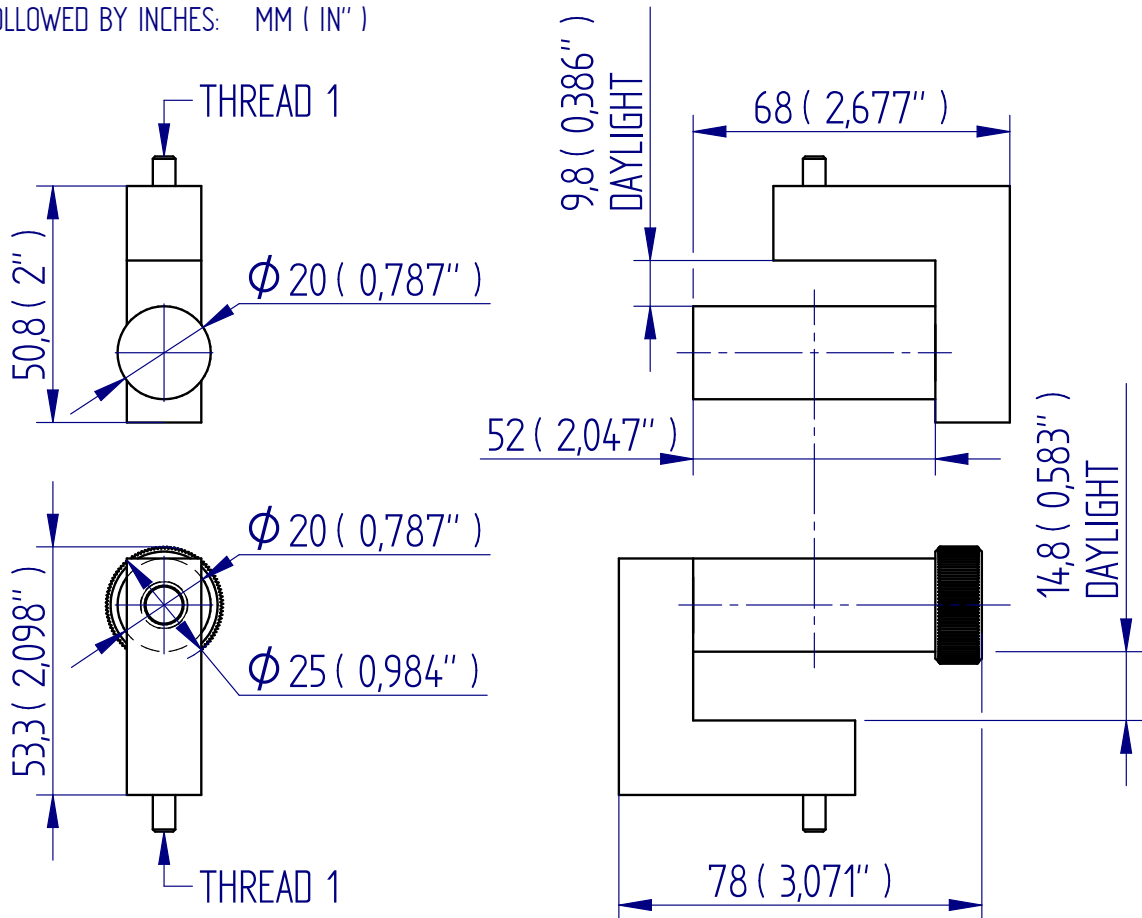
- thin films
- polymers
- elastomers

### Specifications

Part No.	Load Capacity			Thread 1	Sample Width		Diameter Ø		Length	
	500 N	50 kgf	110 lbf		50 mm	1.97"	20 mm	0.79"	58.8 mm	2.00"
432-157	500 N	50 kgf	110 lbf	10-32 UNF	50 mm	1.97"	20 mm	0.79"	58.8 mm	2.00"

## Dimensions mm (inch)

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## Spring-Loaded Fold Grip, QC fitting



### Description

The spring-loaded fold grip is a self-tightening grip with a spring-loaded roller for holding flexible samples firmly as load is applied. Sample material is wound around the cross hatch knurl of the 10 mm (0.39") diameter roller and held in contact with the serrated rear body, preventing slippage within the grip.

### Applications

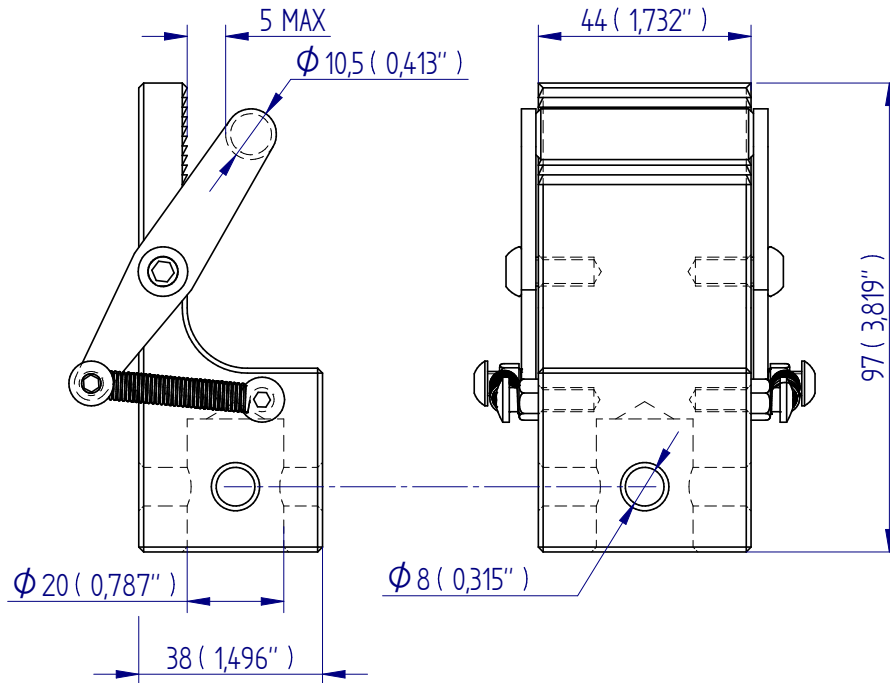
Used for tensile testing of flexible materials:

- elastomers
- rubber
- films
- fabrics
- polymers
- leather

### Specifications

Part No.	Load Capacity			Post Ø	Max. Sample Thickness		Max. Specimen Width		Length		Weight	
	2 kN	200 kgf	450 lbf		5 mm	0.20"	45 mm	1.75"	97 mm	3.81"	680 g	1.5 lb
432-262	2 kN	200 kgf	450 lbf	QC20	5 mm	0.20"	45 mm	1.75"	97 mm	3.81"	680 g	1.5 lb

## Dimensions mm (inch)



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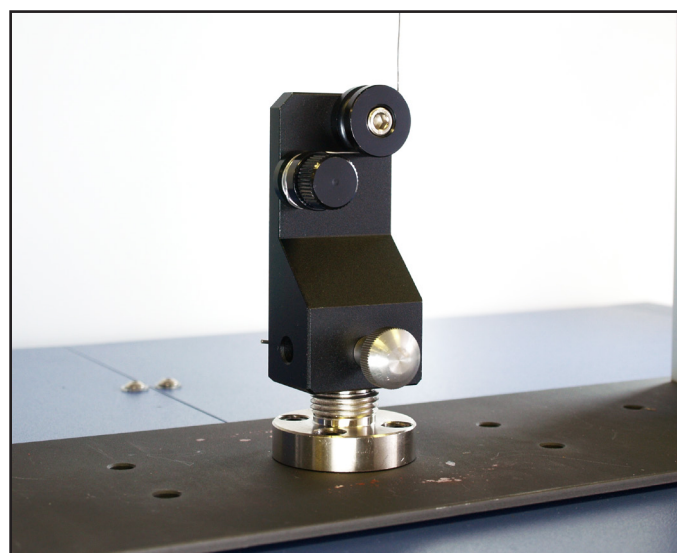
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## Small Circular Bollard Grip, QC fitting



### Description

Small circular bollard grips are made from aluminium and are designed for testing delicate, flexible samples such as fine threads, wires and yarns, which may break easily when clamped. The maximum capacity is 100 N. The sample is wrapped around the bollard and the free end is held tightly in place using a pair of friction washers and a thumbscrew. The bollard has a single 5 mm (0.197") wide smooth groove to align the sample centrally and has a diameter of 20 mm (0.79") around which it can be wound.

### Applications

Used for tensile testing of:

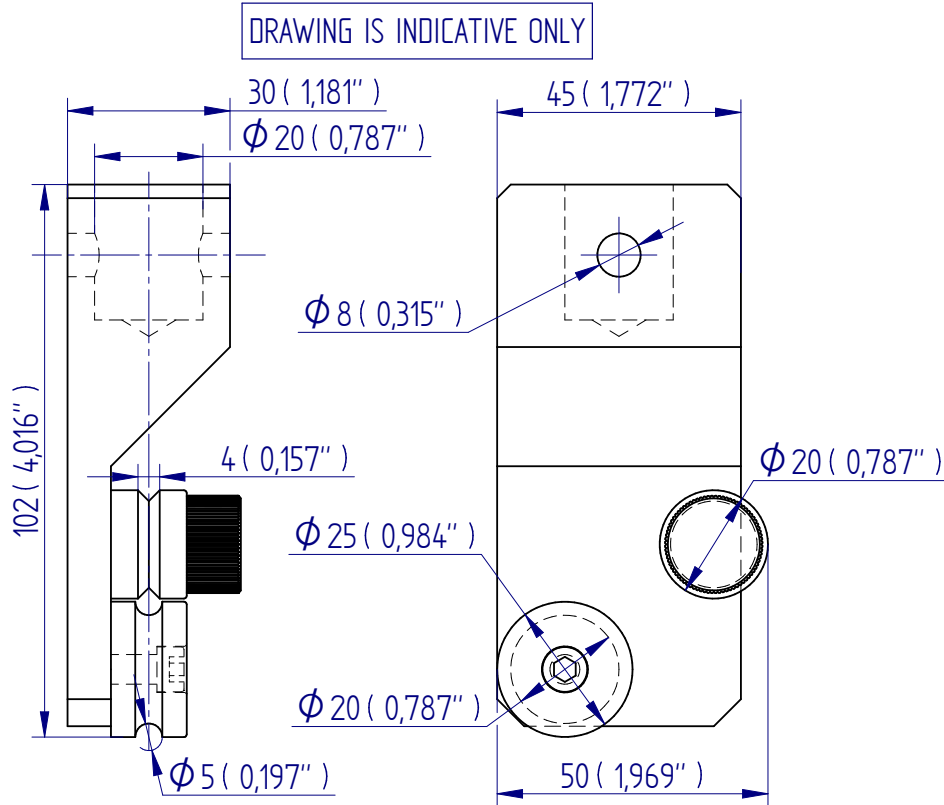
- fibres
- yarns
- filaments
- twines
- threads
- fine wires

### Specifications

Part No.	Load Capacity			Post Ø	Max. Load (to maintain tension)	Max. Diameter		Length		Weight	
	100 N	10 kgf	22 lbf			5 mm	0.20"	102 mm	4.02"	210 g	0.46 lb
432-270	100 N	10 kgf	22 lbf	QC20	0.5 N	5 mm	0.20"	102 mm	4.02"	210 g	0.46 lb



## Dimensions mm (inch)



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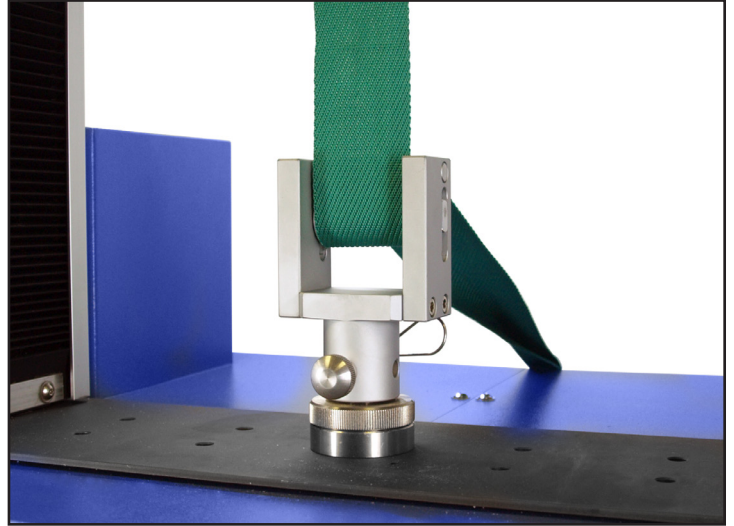
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## Webbing Grip, QC fitting



### Description

Webbing grips are easy to use and designed for rapid testing of high-strength belts and tapes. The sample is wound around the knurled roller and then around the smooth roller. As load is applied, the smooth roller moves in the slot to secure tightly against the knurled surface ensuring maximum gripping strength.

### Applications

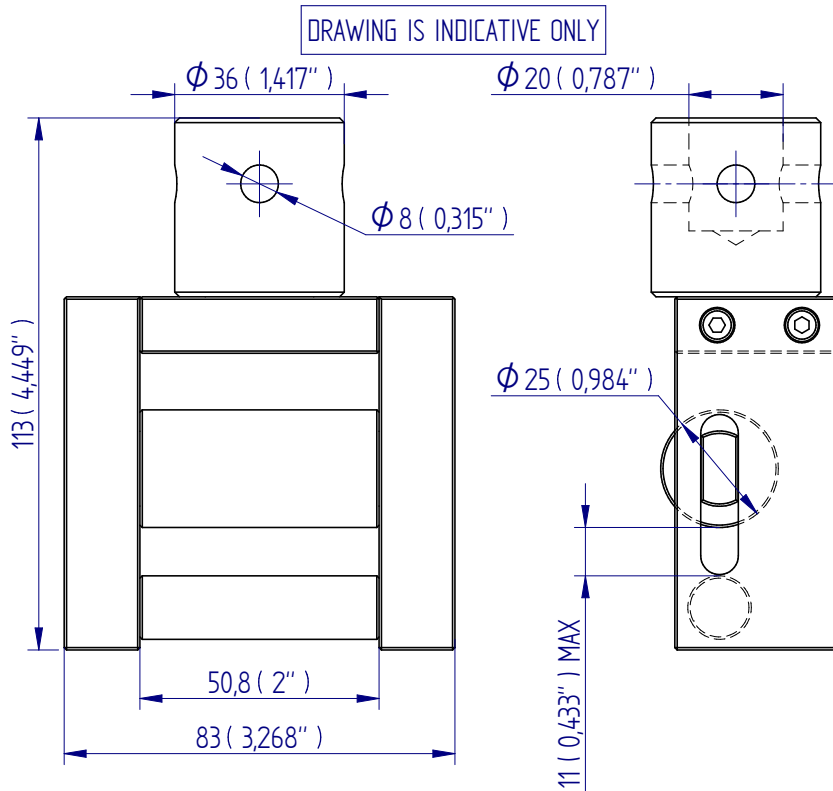
Used for tensile testing of:

- fabrics
- webbing
- textiles

### Specifications

Part No.	Load Capacity			Post Ø	Max. Sample Thickness		Max. Specimen Width		Length		Weight	
	2 kN	200 kgf	440 lbf		11 mm	0.43"	50 mm	1.97"	113 mm	4.45"	1.1 kg	2.4 lb
432-269				QC20								

## Dimensions mm (inch)



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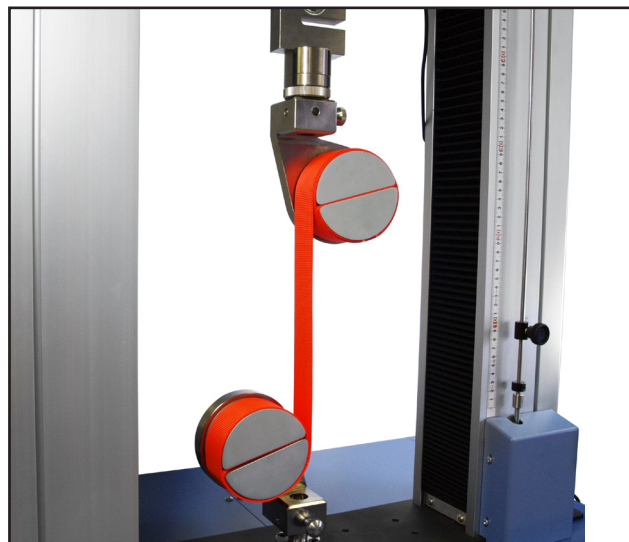
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## Heavy-duty Belt Grips, QC fitting



### Description

Heavy-duty belt grips are designed for testing high-strength belts and straps such as conveyor belts, which require specialised grips to prevent sample slippage. By winding the sample around the split bodies the stresses in the specimen are distributed. Self-tightening for effective tensile testing up to 10 kN. Grips are supplied in pairs.

### Applications

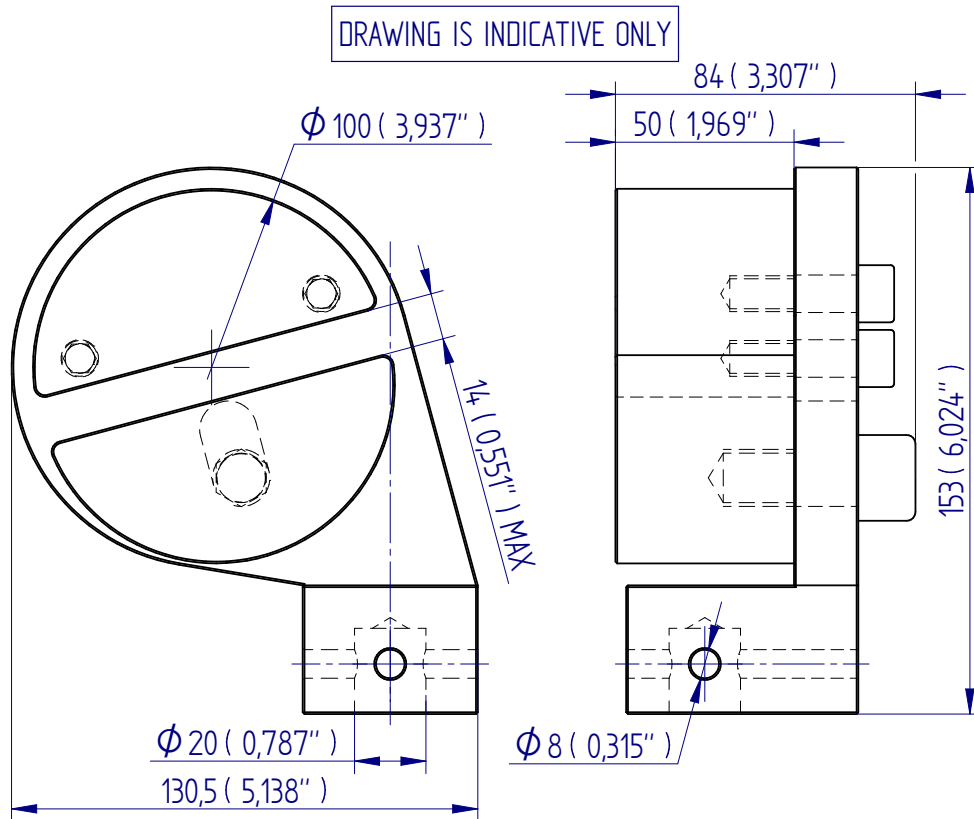
Used for tensile testing of:

- conveyor belts
- plastic and metal strapping
- safety harnesses
- seat belts
- tapes

### Specifications

Part No.	Load Capacity			Post Ø	Max. Sample Thickness		Max. Specimen Width		Length		Weight	
	10 kN	1000 kgf	2200 lbf		14 mm	0.55"	50 mm	1.97"	152 mm	5.98"	5 kg	11 lb
432-277	10 kN	1000 kgf	2200 lbf	QC20	14 mm	0.55"	50 mm	1.97"	152 mm	5.98"	5 kg	11 lb

## Dimensions mm (inch)



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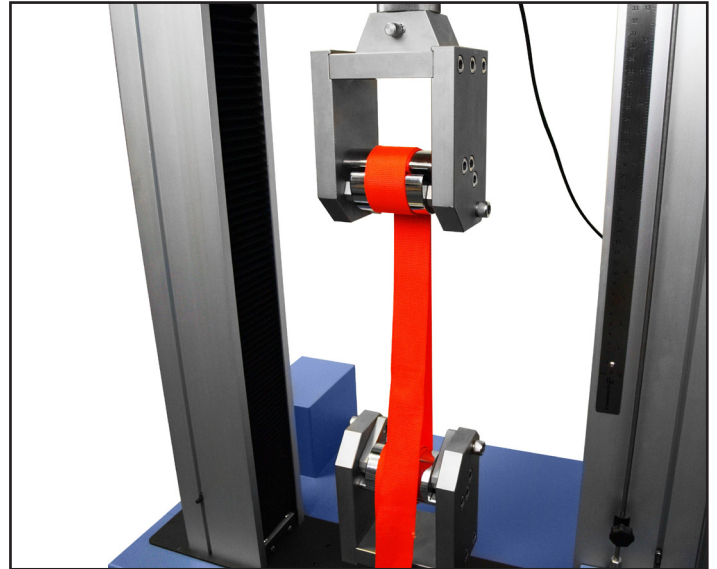
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## Heavy-duty Textile Grip, QC fitting



### Description

Heavy-duty textile grips are ideally suited to tension testing of fabrics, textiles and webbing. The grips are very easy to load, and the self-tightening action ensures that the sample does not slip. Grips are supplied in pairs.

### Applications

Used for tensile testing of:

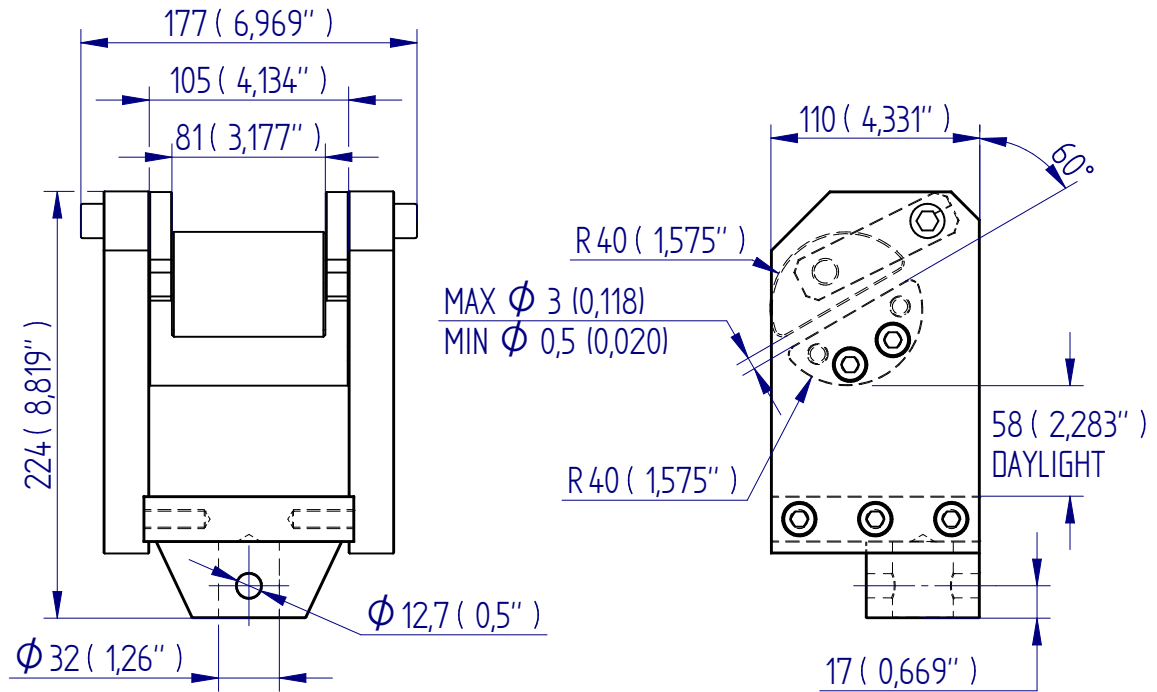
- fabrics
- webbing
- textiles

### Specifications

Part No.	Load Capacity			Post Ø	Sample Thickness Min./Max. (A)		Max. Specimen Width		Length	
	50 kN	5 kgf	11 lbf		0.5 mm / 3 mm	0.02" / 0.118"	81 mm	3.18"	224 mm	8.82"
432-434	50 kN	5 kgf	11 lbf	QC32	0.5 mm / 3 mm	0.02" / 0.118"	81 mm	3.18"	224 mm	8.82"



## Dimensions mm (inch)



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## Scissor Grips, QC fitting

### Scissor grips 2, 5, 20 and 50 kN

Self-tightening and self-aligning grips

The initial grip is provided by spring tension. The ratio of clamping force to tensile force changes according to the opening width. The larger the opening width the stronger the grips tightens the specimen. The jaws tighten themselves during force application.

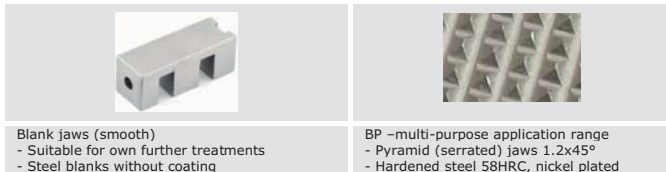
#### Mec11-5 Scissor grips

• Item No.	Mec11-5
• Tensile force	5 kN
• Opening	0 – 19 mm
• Sample width	50 mm
• Body	Stainless steel
• Temperature range	-70 up to +130°C Other temperature ranges on request
• Weight	980 gram each grip (without jaws)

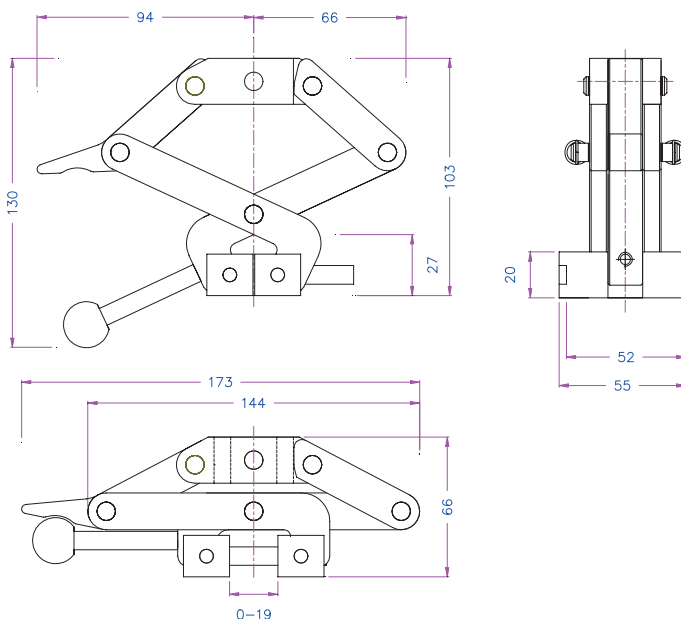
#### Jaws for Mec11-5

Item number	Surface	Clamping surface H x W	Weight per pair
Mec11-5-B	Blank (smooth) jaws	20x50 mm	240 gram
Mec11-5-BP	Pyramid (serrated) jaws	20x50 mm	240 gram

Other surfaces on request



Mec11-5 with Mec11-5-B jaws



#### Ordering information

Mec11-5 grips are supplied as a pair, but can also be ordered separately (0.5 pair). Grips and jaws need to be ordered separately.

## Mec11-20 Scissor grips

With locking function (snap in): the grip locks in the opened position.  
(Not by use of round jaws)

• Item No.	Mec11-20
• Tensile force	20 kN
• Opening	Flat jaws 0 – 25 mm Round jaws 0 – 20 mm V-jaws for round specimen: 4 – 16 mm Ø
• Sample width	50 mm and 100 mm
• Body	Stainless steel
• Temperature range	-70 up to +130°C Other temperature ranges on request
• Weight	2 kg each grip (without jaws)



Mec11-20 with Mec11-20-BW100 jaws

### Jaws for Mec11-20

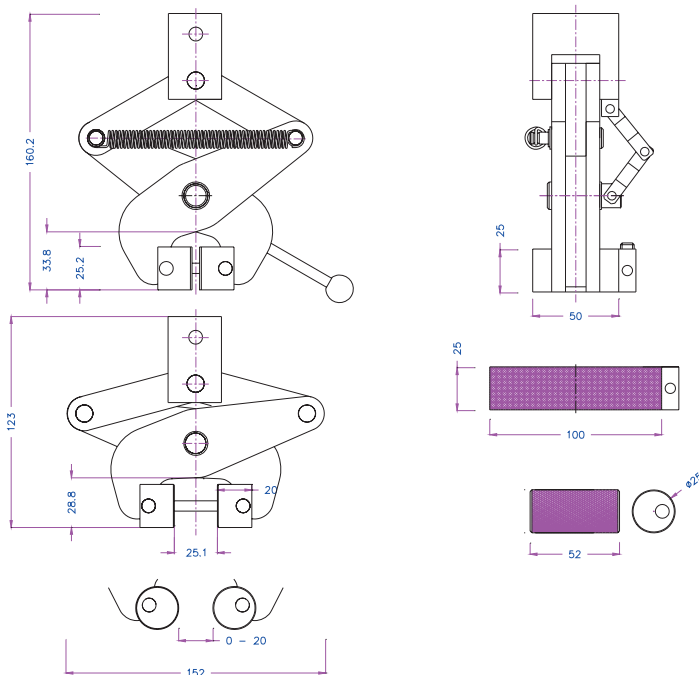
Item number	Surface	Clamping surface H x W	Weight per pair
Mec11-20-B	Blank (smooth) jaws	25x50 mm	0.34 kg
Mec11-20-BP	Pyramid (serrated) flat jaws	25x50 mm	0.33 kg
Mec11-20-BPR*	Pyramid (serrated) round jaws	Ø 25 mm x 52 mm	0.31 kg
Mec11-20-BV4	V-jaws for round specimen	Samples 4-15 mm Ø	0.45 kg
Mec11-20-BW	Wave jaws	25x50 mm	0.32 kg
Mec11-20-B100**	Blank (smooth) jaws	25x 100 mm	0.74 kg
Mec11-20-BP100**	Pyramid (serrated) flat jaws	25x100 mm	0.72 kg
Mec11-20-BW100**	Wave jaws	25x100 mm	0.69 kg

Other surfaces on request

\* Round jaws are applicable for dumbbell-shaped specimen (bone shaped samples).

\*\*By use of 100 mm width jaws tensile force is reduced to 10kN.

			
<b>B - Blank (smooth) jaws</b> - Suitable for own further treatments - Steel blanks without coating	<b>BP - Multi purpose application range</b> - Pyramid (serrated) jaws 1.2x45° - Hardened steel 58HRC, nickel plated	<b>BV-jaws- for all kinds of round samples</b> - Tooth pitch 1.2 mm - Hardened steel 58 HRC, nickel plated	<b>BW Wave jaws - For textile specimen</b> - Wave 5mm - Hardened steel 58 HRC, nickel plated



Mec11-20 with Mec11-20-BB jaws

### Ordering information

Mec11-20 grips are supplied as a pair, but can also be ordered separately (0.5 pair).  
Grips and jaws need to be ordered separately.

## Mec11-50 Scissor grips

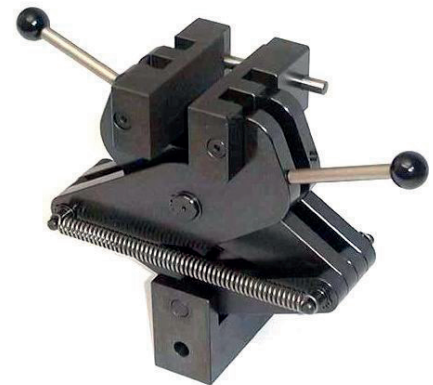
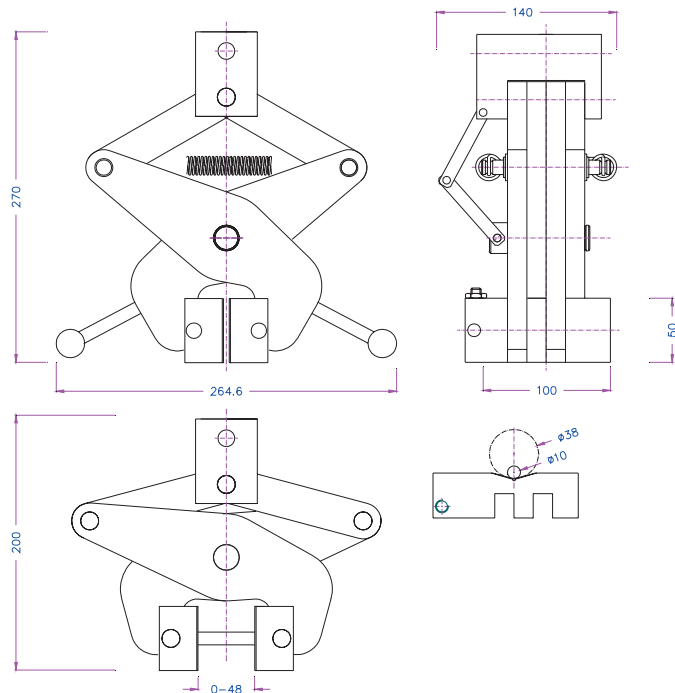
With locking function (snap in): the grip locks in the opened position.

• Item No.:	Mec11-50
• Tensile force:	50 kN
• Opening	Flat jaws 0 – 48 mm V-jaws for round specimen: 10 - 48 mm Ø
• Sample width	100 mm
• Body	Steel, manganese phosphate coating
• Temperature range	0 up to +130°C Other temperature ranges on request
• Weight	9.1 kg each grip (without jaws)

### Jaws for Mec11-50

Item number	Surface	Clamping surface H x B	Weight per pair
Mec11-50-BP	Pyramid (serrated) jaws	50x100 mm	1.9 kg
Mec11-50-BV10	V-jaws	Samples 10-48 mm Ø	2.0 kg

Other surfaces on request



Mec11-50 with Mec11-50-BP jaws

### Ordering information

Mec11-50 grips are supplied as a pairs but can also be ordered separately (0.5 pair).  
Grips and jaws need to be ordered separately.

### Further scissor grips



## Mec230 Scissor grip

Tensile force 2 kN



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DS-1057-01



## Small Pinch Grip



### Description

Pinch grips are lightweight miniature vice grips, which use a hinge action to initially grab a sample, with a wing nut to tighten the jaw faces.

Each 10 mm x 10 mm (0.39" x 0.39") jaw face has a slight groove to hold the sample securely, yet avoid inducing a break within the grip. Pinch grips are particularly well suited for peel testing of thin plastic films.

### Applications

Used for peel and tensile testing of:

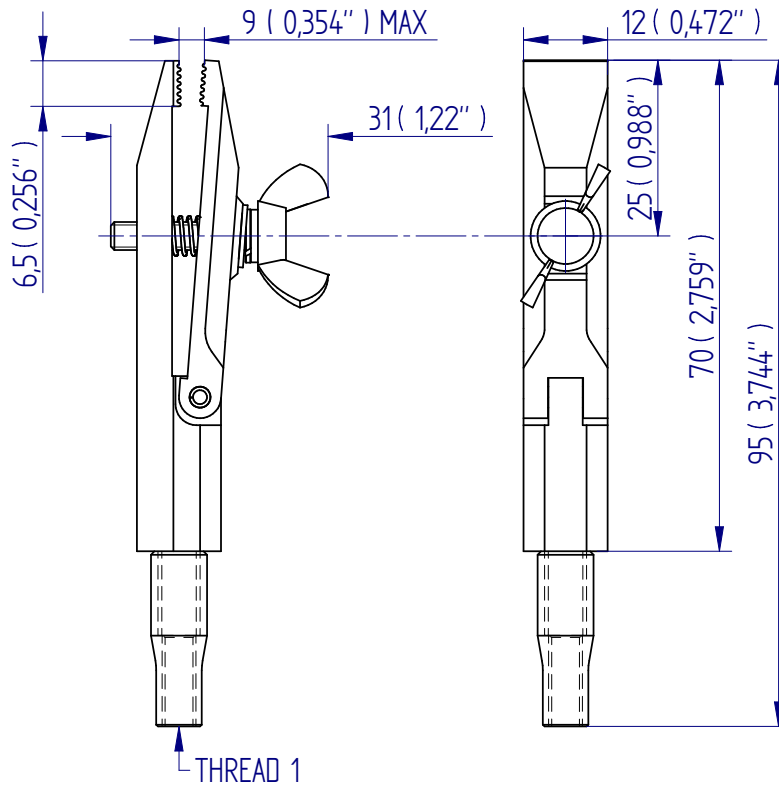
- thin film
- tissue
- woven yarn

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	200 N	20 kgf	44 lbf		9 mm	0.35"	12 mm	0.47"	95 mm	3.74"	70 g	0.15 lb
432-280				M6								



## Dimensions mm (inch)



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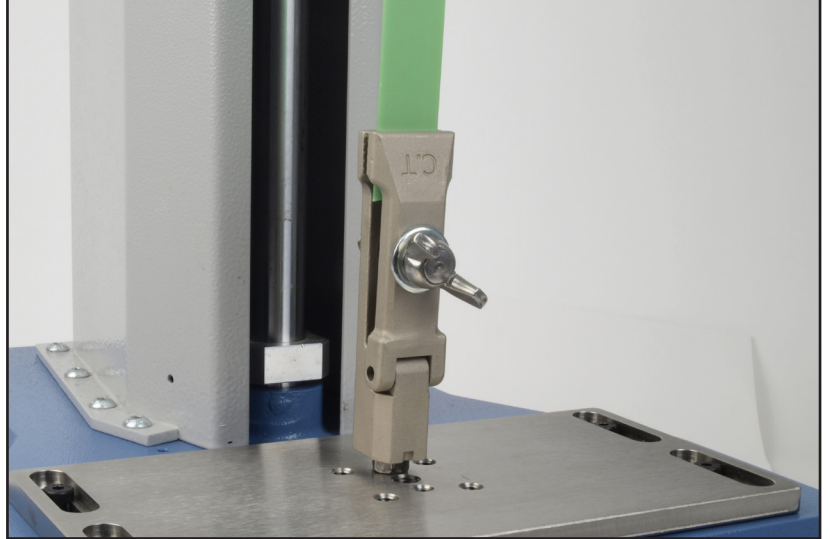
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## Large Pinch Grip



### Description

The large pinch grip has cross-hatched jaw faces to ensure samples are held securely for tensile tests. Fast installation and release of samples is achieved by initially grabbing by hinge action, and manually tightening the wing nut.

### Applications

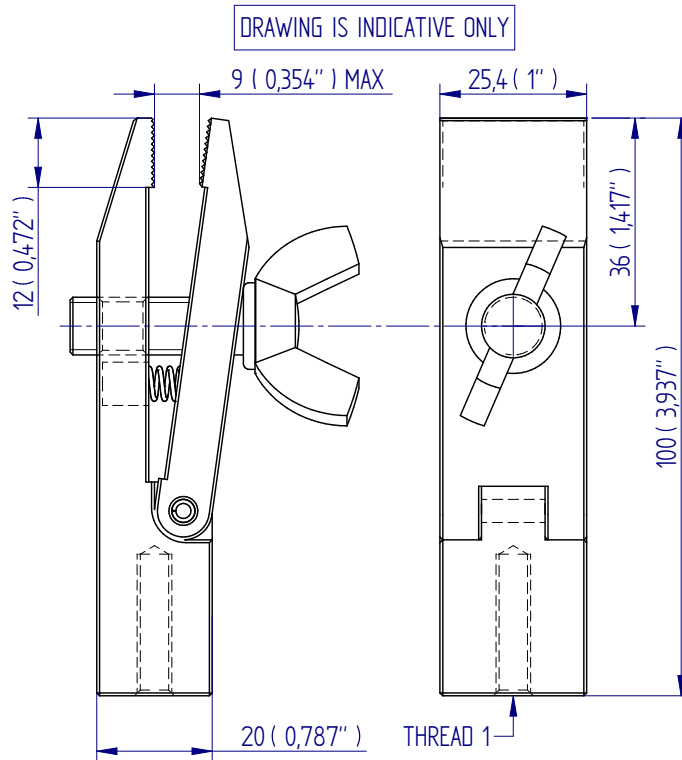
Used for tensile and heavy duty peel testing of:

- small components
- textile attachments
- welded tags
- paper and tissue strips

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	500 N	50 kgf	110 lbf		9 mm	0.35"	25 mm	0.98"	100 mm	3.94"	300 g	0.66 lb
432-278				M6								

## Dimensions mm (inch)



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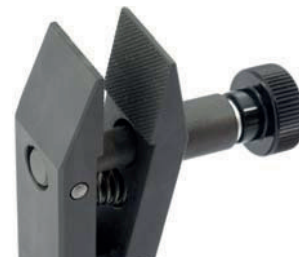
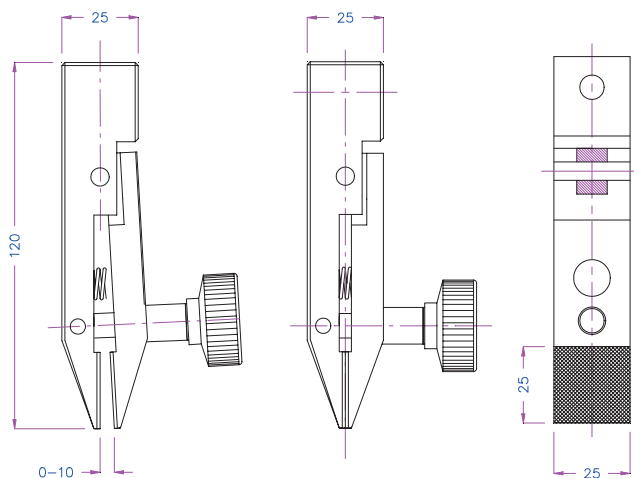
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## 2 kN pinch grip, QC fitting

Versatile, easy to use. Applicable for small components, for example electronic components.

Clamping surfaces serrated on both sides (pyramids).

• Item No	MecS470
• Tensile force	2 kN
• Opening	0 – 10 mm
• Jaws	Pyramid jaws, 1.2 x 45°
• Clamping surface HxW	25 x 25 mm
• Body	Hardened steel, phosphate coated
• Temperature range	0 to +130°C -70 to +280°C (MecS470-Ni)
• Weight	452 gram
• Scope of delivery	1 piece



### Similar grips



MecS341



MecS205k



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DS-1061-01

## 20 N Spring-loaded Pinch Grip with chain link, QC fitting

### Pincer grip with spring

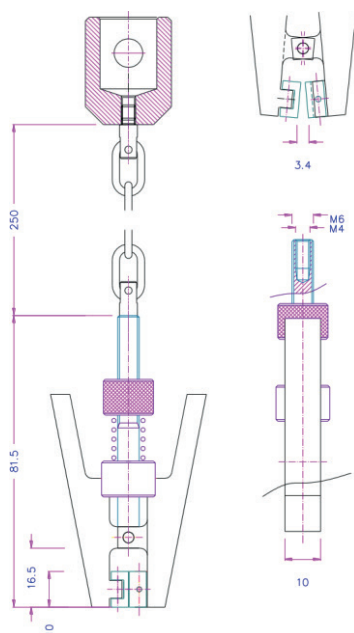
Small pincer grips spring forced

Versatile, easy to use. Suitable for small forces, pull of tests, tear test of components, adhesive bonds, plastic weldings (paper, plastics, rubber) etc. Chain mounting for flexible positioning.

MecS205k: Standard with chain

MecS205k-F: Without chain (adapter is mounted directly on the pincer grip).

• Item No.	MecS205k
• Tensile force	20 N
• Opening	0 – 3.4 mm
• Jaws	Smooth (blank) jaws
• Clamping surface H x W	10 x 10 mm
• Body	Aluminium, anodized
• Temperature range	0 up to +180°C
• Weight	98 gram
• Scope of delivery	MecS205k: 1 pincer grip incl. chain MecS205k-F: 1 pincer grip without chain



#### Similar grips



MecS341



MecS205k



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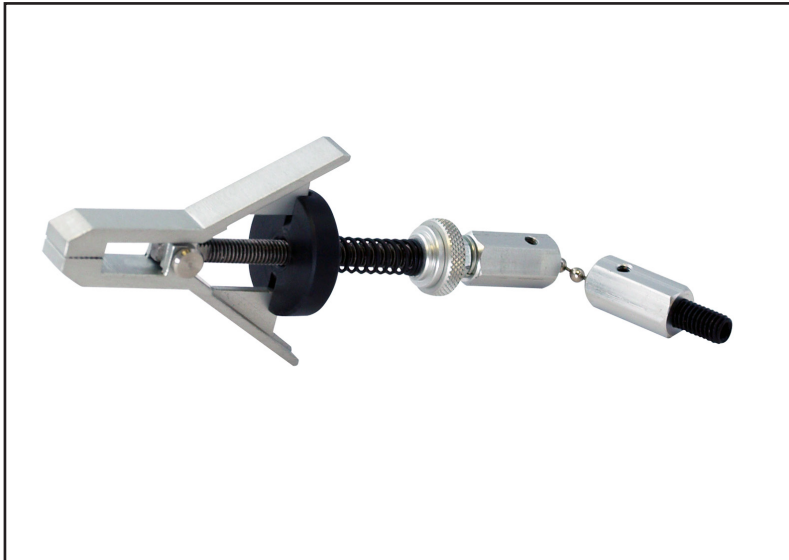
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DS-1060-01

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## Lightweight Mini Vice Grip



### Description

Lightweight mini vice grips are ideal for testing extremely low forces by virtue of their spring-loaded clamping action. Samples are held without the need to tighten a thread which may damage very light loadcells or the sample itself. Supplied with a chain link for ease of alignment.

### Applications

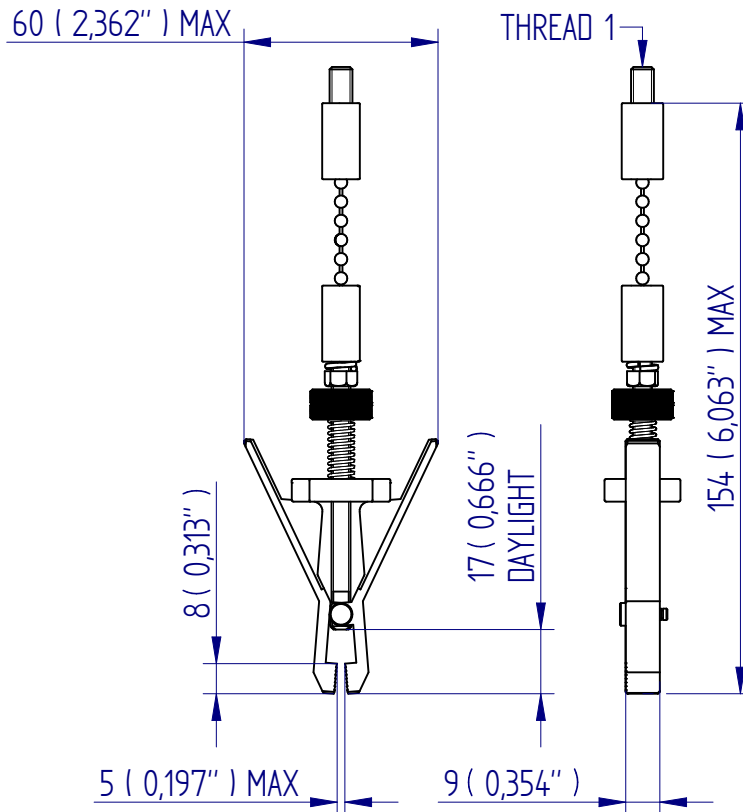
Used for tensile and low-force peel testing of:

- thin films
- delicate fine wire
- sub-miniature components
- tissue and cotton yarns

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	5N	0.5kgf	1 lbf		5 mm	0.197"	9 mm	0.35"	154 mm	6.06"	30 g	0.07 lb
432-281	5N	0.5kgf	1 lbf	M6	5 mm	0.197"	9 mm	0.35"	154 mm	6.06"	30 g	0.07 lb

## Dimensions mm (inch)



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## 100 N Miniature Vice-Grip with integral pyramid jaws, QC fitting

### Small pincer grip 100 N

Versatile, easy to use. Applicable for small components, for example electronic components etc. The chain mounting enables flexible positioning. MecS341 Type -F: T<sub>B</sub> coupling is directly mounted on the grip (without chain).

Clamping surfaces serrated on both sides (pyramids).

• Item No.	MecS 341
• Tensile force	100 N
• Opening	0 – 4 mm
• Jaws	Pyramid jaws (serrated), 0.6x45°
• Clamping surface HxW	5 x 6 mm
• Body	Hardened steel, phosphate coated
• Temperature range	0 to +130°C -70 to +280°C (MecS341-Ni)
• Weight	95 gram
• Scope of delivery	1 piece



#### Similar grips

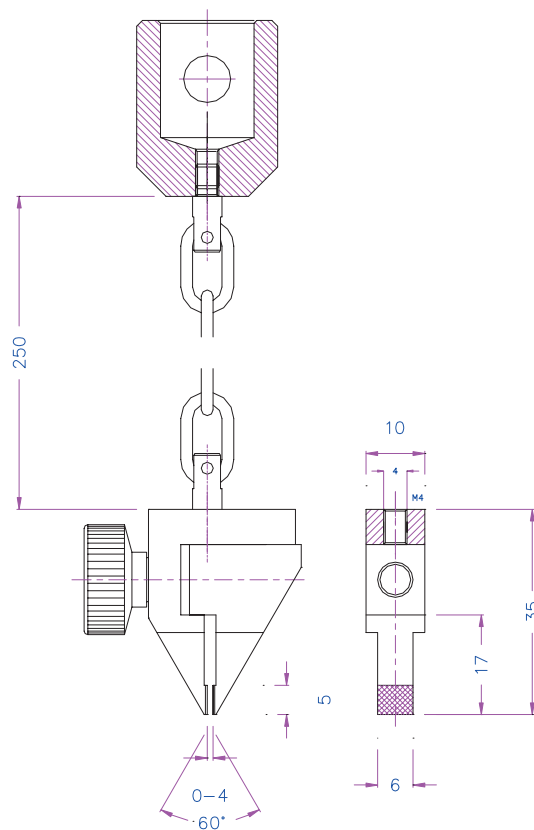


MecS341



MecS205k

## Dimensions mm



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## Spring-action Vice Clamp



### Description

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:

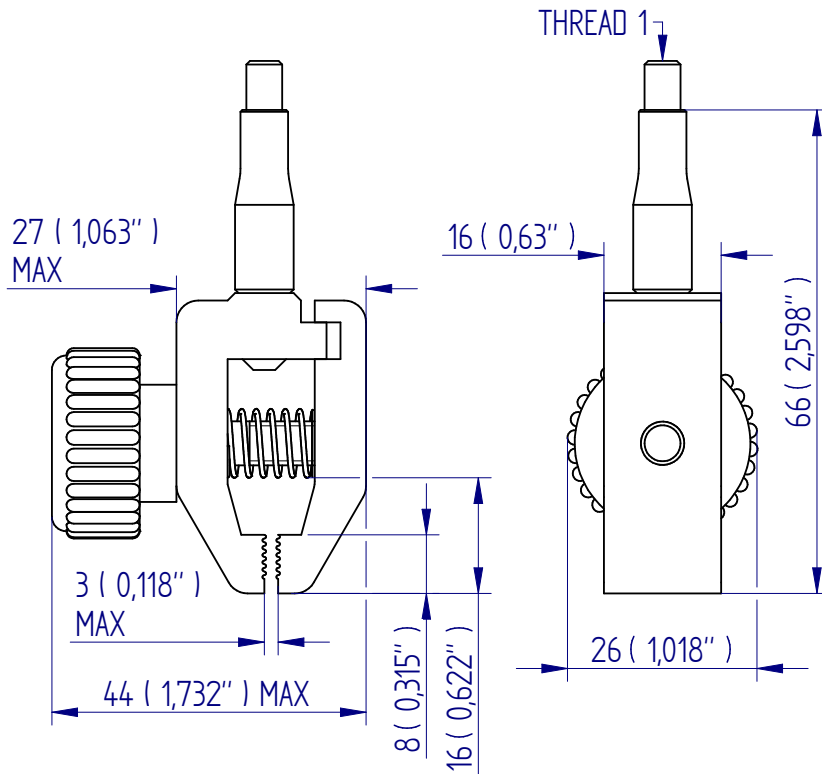
- films
- rubber
- flexible sheet materials
- woven fabrics
- paper
- tissue
- laminates
- tape
- textiles

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length	
	N	kgf	lbf		mm	"	mm	"	mm	"
432-381	200	20	45	10-32 UNF	3	0.12	16	0.63	66	2.60



## Dimensions mm (inch)



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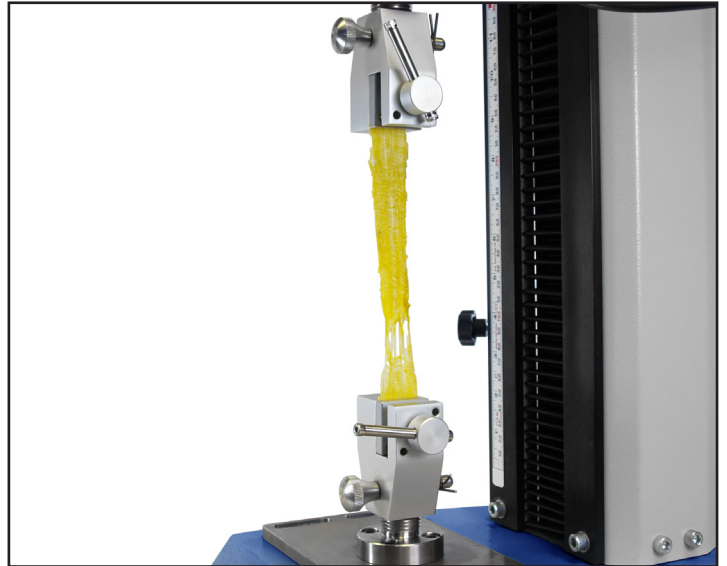
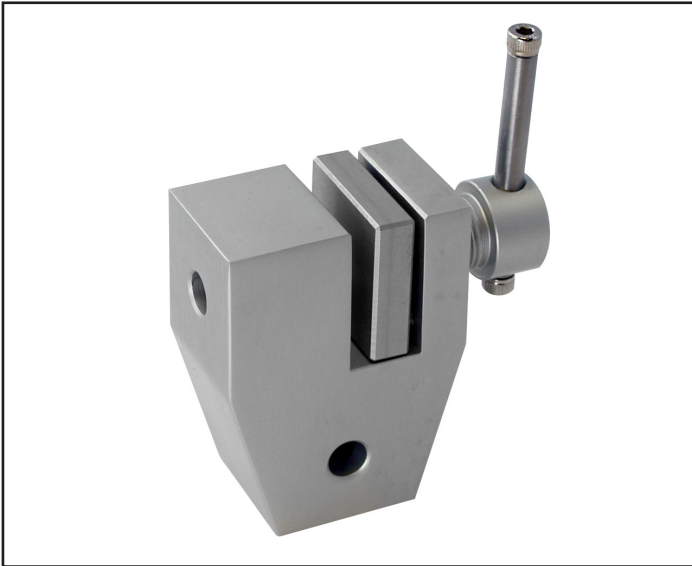
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## Small Single-action Vice Grip, QC fitting



### Description

Small single-action vice grips are ideal for testing low force applications on flat samples. These general purpose side loading vice grips are fitted with 30 mm x 30 mm (1.2" x 1.2") flat faced jaws.

### Applications

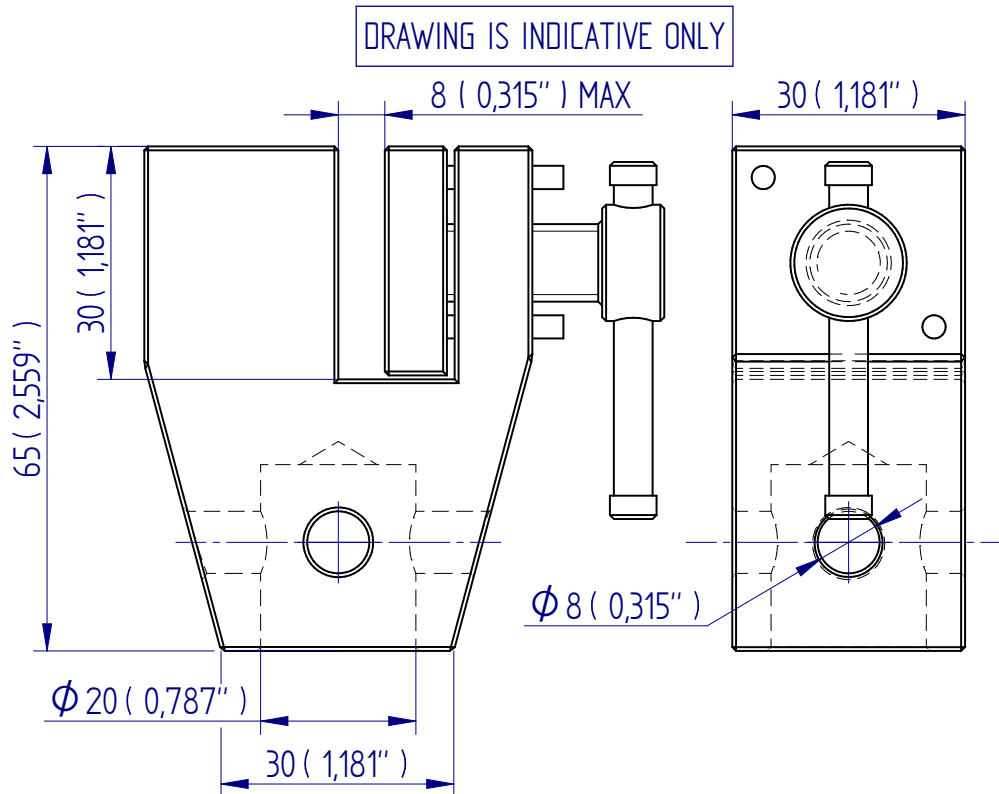
Used for tensile and peel testing of:

- films
- rubber
- flexible sheet materials
- woven fabrics
- tape
- paper
- tissue
- laminates
- textiles

### Specifications

Part No.	Load Capacity			Post Ø	Jaw Capacity		Jaw Width		Height		Weight	
	200 N	20 kgf	45 lbf		8 mm	0.32"	30 mm	1.18"	65 mm	2.56"	215 g	0.47 lb
432-264	200 N	20 kgf	45 lbf	QC20	8 mm	0.32"	30 mm	1.18"	65 mm	2.56"	215 g	0.47 lb

## Dimensions mm (inch)



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## Medium Single-action Vice Grip

### Medium Single-action Vice Grip

Supplied as individual grips. To receive a pair of grips please order 2 pieces.

#### Mec240k Vice grip

- Tensile force: 2.5 kN
- Opening: 0 – 10 mm (with rubber jaws 0-8 mm)
- Weight: 0.29 kg each grip (without jaws)

#### Mec240k-S20 Vice grip

- Tensile force: 1 kN
- Opening: 0 – 20 mm
- Weight: 0.33 kg each grip (without jaws)

#### Mec240k-S30 Vice grip

- Tensile force: 1 kN
- Opening: 0 – 30 mm
- Weight: 0.32 kg each grip (without jaws)

#### Mec240k-S50 Vice grip

- Tensile force: 1 kN
- Opening: 0 – 50 mm
- Weight: 0.57 kg each grip (without jaws)

- Temperature range: 0°C - +180°C (depending on jaws)
- Other temperature ranges possible on request
- Body: aluminium
- Scope of delivery: 1 piece (without jaws)
- Also as pneumatic version available

Jaws for Mec240 must be ordered separately.



#### Jaws for Mec240k: Scope of delivery 0.5 Set = 2 jaws

Item number	Surface	Clamping surface H x W	Weight/ pair
Mec240k-B	Blank jaws	30 x 30 mm	0.13 kg
Mec240k-BG	Rubber jaws	30 x 30 mm	0.13 kg
Mec240k-BP	Pyramid jaws	30 x 30 mm	0.12 kg
Mec240k-BV2	V-jaws	30 x 30 mm	0.12 kg
Mec240k-BV3	V-jaws	30 x 30 mm	0.13 kg
Mec240k-BW	Wave jaws	30 x 30 mm	0.12 kg
Mec240k-BD	Diamond jaws	30 x 30 mm	0.13 kg
Mec240k-B50	Blank jaws	30 x 50 mm	0.22 kg
Mec240k-BG50	Rubber jaws	30 x 50 mm	0.23 kg
Mec240k-BP50	Pyramid jaws	30 x 50 mm	0.21 kg
Mec240k-BW50	Wave jaws	30 x 50 mm	0.20 kg
Mec240k-BD50	Diamond jaws	30 x 50 mm	0.22 kg
Mec240k-B80	Blank jaws	30 x 80 mm	0.36 kg
Mec240k-BG80	Rubber jaws	30 x 80 mm	0.37 kg
Mec240k-BP80	Pyramid jaws	30 x 80 mm	0.35 kg
Mec240k-BW80	Wave jaws	30 x 80 mm	0.32 kg
Mec240k-BD80	Diamond jaws	30 x 80 mm	0.36 kg
Mec240k-B100	Blank jaws	30 x 100 mm	0.45 kg
Mec240k-BG100	Rubber jaws	30 x 100 mm	0.46 kg
Mec240k-BP100	Pyramid jaws	30 x 100 mm	0.45 kg
Mec240k-BW100*	Wave jaws	30 x 100 mm	0.51 kg
Mec240k-BD100	Diamond jaws	30 x 100 mm	0.45 kg

\*\* Opening is reduced by 4 mm

Jaws with other dimensions and surface coatings on request

Specimen for V-jaws

BV3 jaws are preferable for samples with a larger diameter, clamping height 30 mm

	Mec240k	Mec240k-S20	Mec240k-S30	Mec240k-S50
Mec240k-BV2	Ø 2 – 9 mm	Ø 2- 20 mm	Ø 2- 30 mm	Ø 2 – 50 mm
Mec240k-BV3	Ø 3 – 9 mm	Ø 3 – 20 mm	Ø 3 - 30 mm	Ø 3 – 50 mm

#### Inset jaws for Mec240k: Scope of delivery 0.5 Set = 2 jaws

For a quick change of jaws, inset jaws require carriers (Mec240k-GT)

The specified openings are reduced by 6mm

Item number	Surface	Clamping surface H x W	Weight Per pair
Mec240k-GT	Carrier	-	0.12 kg
Mec240k-EB	Blank Inset jaws	30 x 36 mm	0.05 kg
Mec240k-EBG	Rubber Inset jaws	30 x 36 mm	0.06 kg
Mec240k-EBP	Pyramid Inset jaws	30 x 36 mm	0.05 kg
Mec240k-EBD	Diamond Inset jaws	30 x 36 mm	0.05 kg

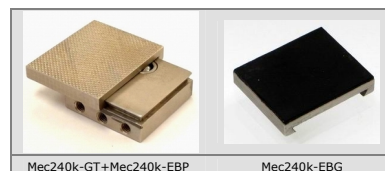
Inset jaws with other dimensions and surface coatings on request

	<b>Blank jaws</b> - Applicable for own further treatments - Steel-blanks without coating
	<b>Rubber jaws</b> - 1mm rubber coating (NBR) - Nickel plated
	<b>Pyramid jaws</b> - Pyramids 1.2x45° - Hardened steel 58 HRC - Nickel plated
	<b>V-jaws</b> - For all kinds of round samples - Tooth pitch 1.2 mm - Hardened steel 58HRC - Nickel plated
	<b>Wavejaws</b> - For flexible materials - Wave 5 mm - Hardened steel 58HRC - Nickel plated
	<b>Diamondjaws</b> - Clamping surface coated with synthetic diamonds D91 (170/200 mesh) - Nickel plated



Mec240k-BV2

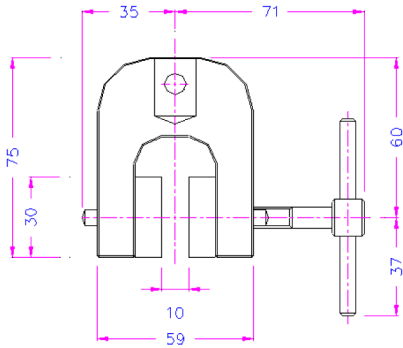
Mec240k-BV3



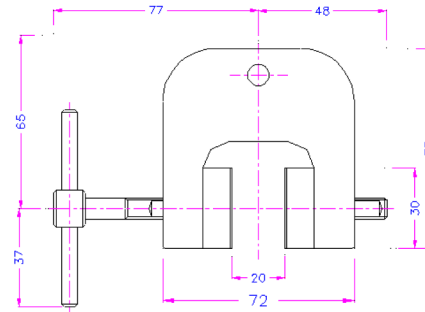
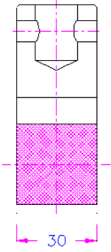
Mec240k-GT+Mec240k-EBP

Mec240k-EBG

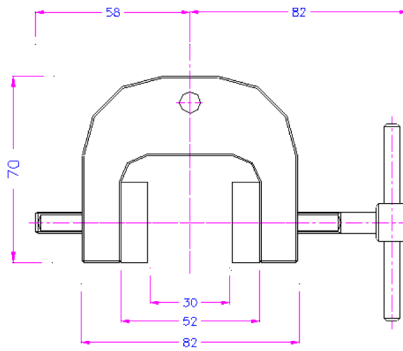
## Dimensions mm



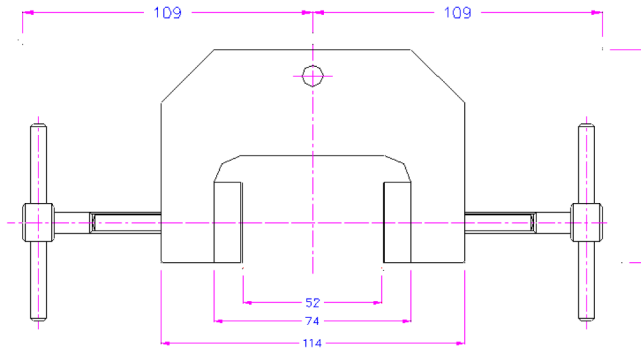
**Mec240k**



**Mec240k-S20**



**Mec240k-S30**



**Mec240k-S50**

\*Q = Quick-interchange via 8 mm Ø pin

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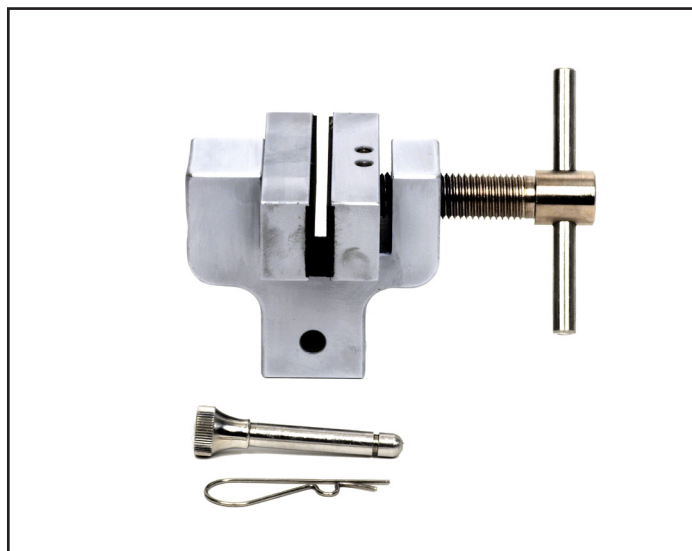
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## Large Single-action Vice Grips, QC fitting



### Description

Large single-action vice grips are suitable for tensile testing a wide range of samples. Available fitted with one of three different types of jaw face: diamond-faced, rubber-coated and wave-form, to securely grip most materials.

### Applications

Used for tensile testing of:

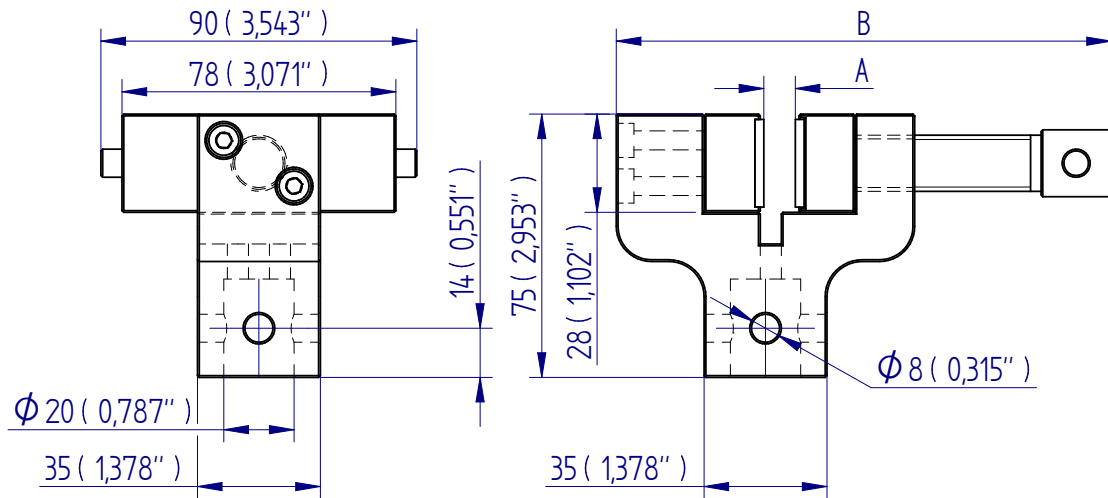
- metallic foils
- textiles
- paper and card
- woven fabrics
- plastic sheet
- tapes

### Specifications

Part No.	Load Capacity			Post Ø	Jaw Type	Jaw Capacity (A)		Jaw Width		Height		Weight	
	2 kN	200 kgf	450 lbf			9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267	2 kN	200 kgf	450 lbf	QC20	Diamond-faced	9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267-V01	2 kN	200 kgf	450 lbf	QC20	Rubber-coated	9.0 mm	0.35"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb
432-267-V02	2 kN	200 kgf	450 lbf	QC20	Wave-form	6.5 mm	0.26"	78 mm	3.07"	75 mm	2.95"	1.5 kg	3.3 lb



## Dimensions mm (inch)



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## 10 kN/20 kN Heavy-duty Single-action Vice Grip, QC fitting

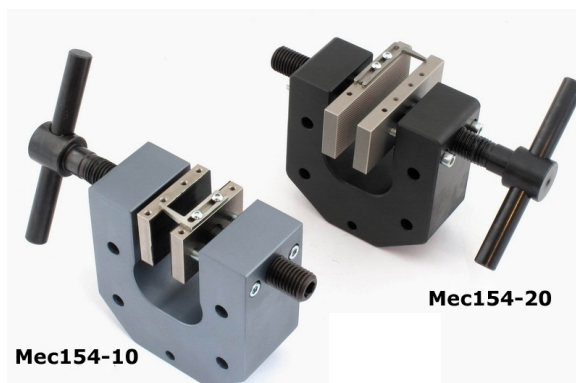
### Heavy Duty Single-action Vice Grip 10kN and 20kN

#### Ordering information

Mec154 are supplied as individual grips. To receive a pair of grips please order 2 pieces.

Grips and jaws need to be ordered separately.

Jaws with other dimensions and surface coatings on request.



Item No.	Mec154-10	Mec154-20
Tensile force	10 kN	20 kN
Temperature range	0°C - +180°C	0°C - +350°C -70°C - +350°C (Mec154-20-NI)
Body	Aluminum, anodized	Steel, manganese phosphated
Weight	2.36 kg each grip (without jaws)	5 kg each grip (without jaws)
Scope of delivery	1 piece	1 piece

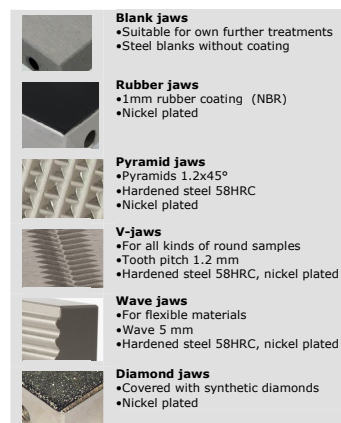


Mec154-20-Ni – nickel plated  
Temperature range -70 to +350°C

#### Jaws for Mec154: Scope of delivery: 0.5 set = 2 jaws

Item No.	Surface	Clamping surface H x W	Opening	Weight per pair
Mec154-B	Blank jaws	40 x 60 mm	0 – 34 mm	0.35 kg
Mec154-BG	Rubber jaws	40 x 60 mm	0 – 32 mm	0.36 kg
Mec154-BP	Pyramid jaws	40 x 60 mm	0 – 34 mm	0.33 kg
Mec154-BV4*	V-jaws	Clamping height 40 mm	4 – 30 mm Ø	0.35 kg
Mec154-BV8*	V-jaws	Clamping height 40 mm	8 – 34 mm Ø	0.32 kg
Mec154-BW	Wave jaws	40 x 60 mm	0 – 34 mm	0.32 kg
Mec154-BD	Diamond jaws	40 x 60 mm	0 – 34 mm	0.35 kg
Mec154-BWC	Jaws for bitumen	40 x 60 mm	0 – 14 mm	0.63 kg
Mec154-B100	Blank jaws	40 x 100 mm	0 – 30 mm	0.72 kg
Mec154-BG100	Rubber jaws	40 x 100 mm	0 – 28 mm	0.74 kg
Mec154-BP100	Pyramid jaws	40 x 100 mm	0 – 30 mm	0.69 kg
Mec154-BW100	Wave jaws	40 x 100 mm	0 – 30 mm	0.66 kg
Mec154-BD100	Diamond jaws	40 x 100 mm	0 – 30 mm	0.72 kg
Mec154-BW200	Wave jaws*	60 x 200 mm	0 – 22 mm	3.00 kg

\*We recommend BV8 jaws for samples with a larger diameter



#### Blank jaws

- Suitable for own further treatments
- Steel blanks without coating

#### Rubber jaws

- 1mm rubber coating (NBR)
- Nickel plated

#### Pyramid jaws

- Pyramids 1.2x45°
- Hardened steel 58HRC
- Nickel plated

#### V-jaws

- For all kinds of round samples
- Tooth pitch 1.2 mm
- Hardened steel 58HRC, nickel plated

#### Wave jaws

- For flexible materials
- Wave 5 mm
- Hardened steel 58HRC, nickel plated

#### Diamond jaws

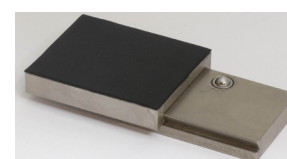
- Covered with synthetic diamonds
- Nickel plated

#### Inset jaws for Mec154

Quick change system of jaw surfaces without any additional tools.

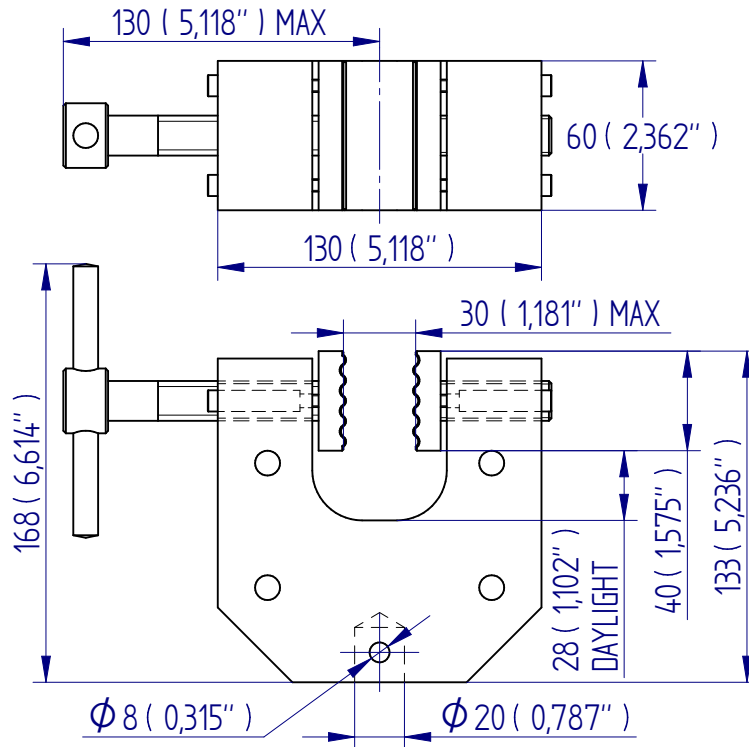
Inset jaws require carriers (Mec154-GT.) Scope of delivery: 0.5 set = 2 jaws

Item No.	Surface	Clamping surface H x W	Opening	Weight per pair
Mec154-GT	Carrier	-	-	0.33 kg
Mec154-EB	Blank inset jaws	50 x 60 mm	0 – 22 mm	0.29 kg
Mec154-EBG	Rubber inset jaws	50 x 60 mm	0 – 22 mm	0.30 kg
Mec154-EBP	Pyramid inset jaws	50 x 60 mm	0 – 24 mm	0.28 kg
Mec154-EBV4	V- inset jaws	Clamping height 50 mm	4 – 24 mm Ø	0.29 kg
Mec154-EBW	Wave inset jaws	50 x 60 mm	0 – 24 mm	0.26 kg
Mec154-EBD	Diamond inset jaws	50 x 60 mm	0 – 24 mm	0.29 kg
Mec154-GT100	Carrier	-	-	0.69 kg
Mec154-EB100	Blank inset jaws	50 x 100 mm	0 – 16 mm	0.63 kg
Mec154-EBG100	Rubber inset jaws	50 x 100 mm	0 – 14 mm	0.65 kg
Mec154-EBP100	Pyramid inset jaws	50 x 100 mm	0 – 16 mm	0.60 kg
Mec154-EBW100	Wave inset jaws	50 x 100 mm	0 – 16 mm	0.57 kg
Mec154-EBD100	Diamond inset jaws	50 x 100 mm	0 – 16 mm	0.63 kg



Mec154-GT with Mec154-EBG

## Dimensions mm (inch)



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## 2.5 kN Screw-action Thin Wire Grips, pair, QC fitting

This grip is used for fine wires, thin ropes and narrow bands.

Small vice action grip	2.5kN
Opening	0 - 6 mm
Body	Aluminum, anodized
Weight per grip with jaws	380 g
Temperature range*:	- 70°C ... +270°

Scope of delivery 1 Pair incl. Carriers for jaws

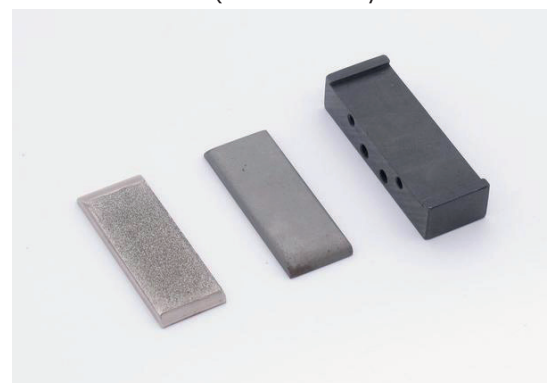
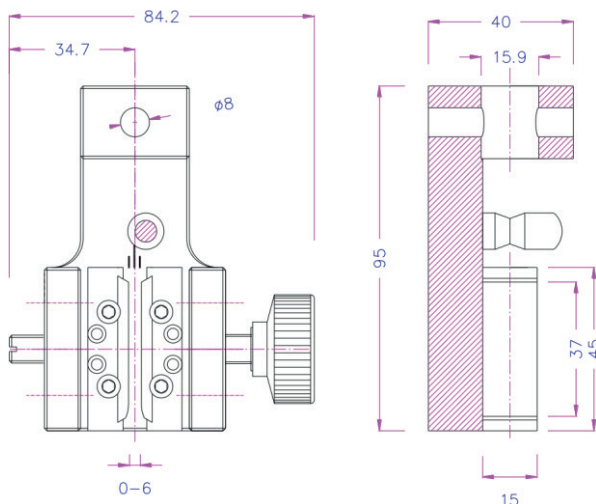
Jaws must be ordered separately  
1 Set = 4 jaws



Mec9

Available jaw surfaces:

- BB - Blank Jaws (Steel blank smooth jaws without coating)
- BD - Diamond Jaws (coated with syntetic diamonds)



Diamond Jaws    Blank Jaws    Carrier

\* Description for temperature range:

Standard	- 70°C to +70°	
T180°	- 70°C to +180°	(Viton + Teflon tube)
T240°	70°C to +240°	(Silikon + Teflon tube)
T270°	- 70°C to +270°	(PTFE + Teflon tube)

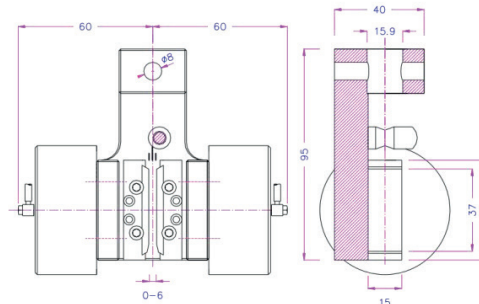
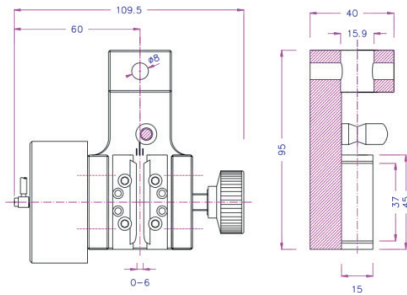
Mec9+Ko

Weight: 545 g



Mec9+2Ko

Weight: 730 g



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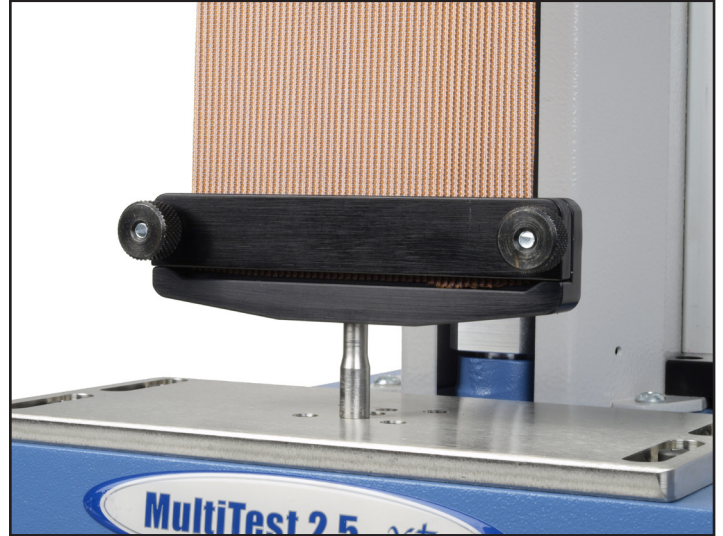
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## Fabric Grips



### Description

Fabric grips are designed for tensile and elongation testing of fabric to a number of international strength standards. Two locking nuts at either side of the grip ensure the sample is clamped securely across its entire width during testing.

### Applications

Used for tensile testing of:

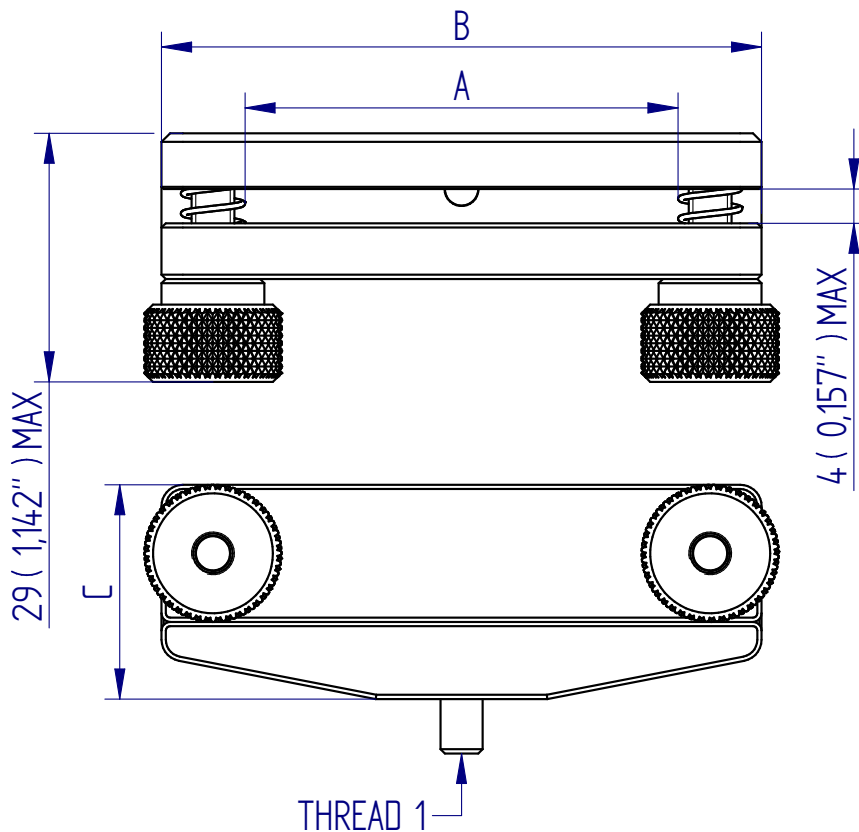
- fabric
- textiles

### Specifications

Part No.	Load Capacity			Thread 1	Clamp Capacity		Max. Sample Width		Length (C)		Weight	
	N	kgf	lbf		mm	"	mm	"	mm	"	g	lb
432-384	100 N	10 kgf	22 lbf	10-32 UNF	4 mm	0.16"	50 mm	1.97"	25 mm	0.98"	81 g	0.17 lb
432-386	200 N	20 kgf	45 lbf	10-32 UNF	4 mm	0.16"	100 mm	3.97"	33 mm	1.30"	—	—



## Dimensions mm (inch)



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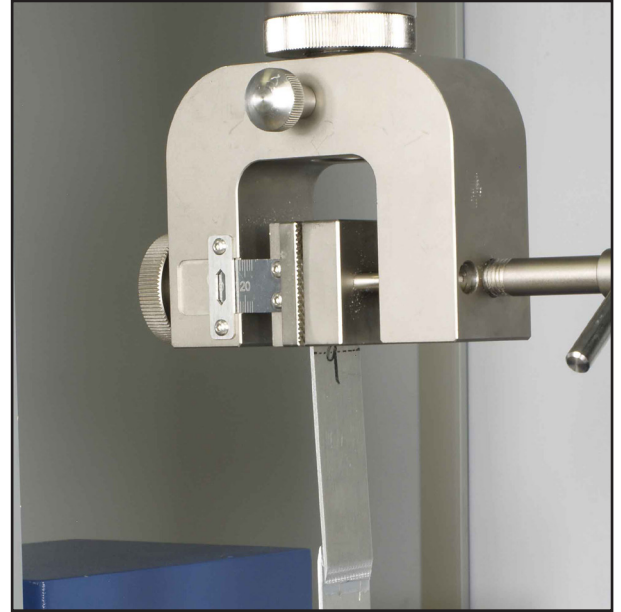
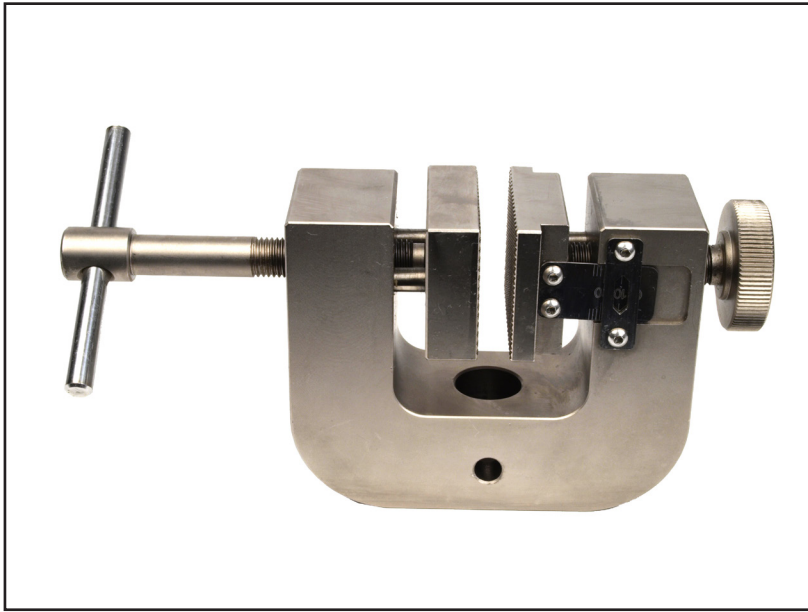
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## Large Double-action Vice Grip, QC fitting



### Description

The large double-action vice grip is rated to 5 kN and can grip specimens with a thickness from 0.5 mm to 25 mm. It has a tommy-bar handle on one side for rapid tightening and a fine-action thumb-screw on the other for accurate sample positioning. An engraved millimetre scale on one jaw can be used to align the sample accurately.

### Applications

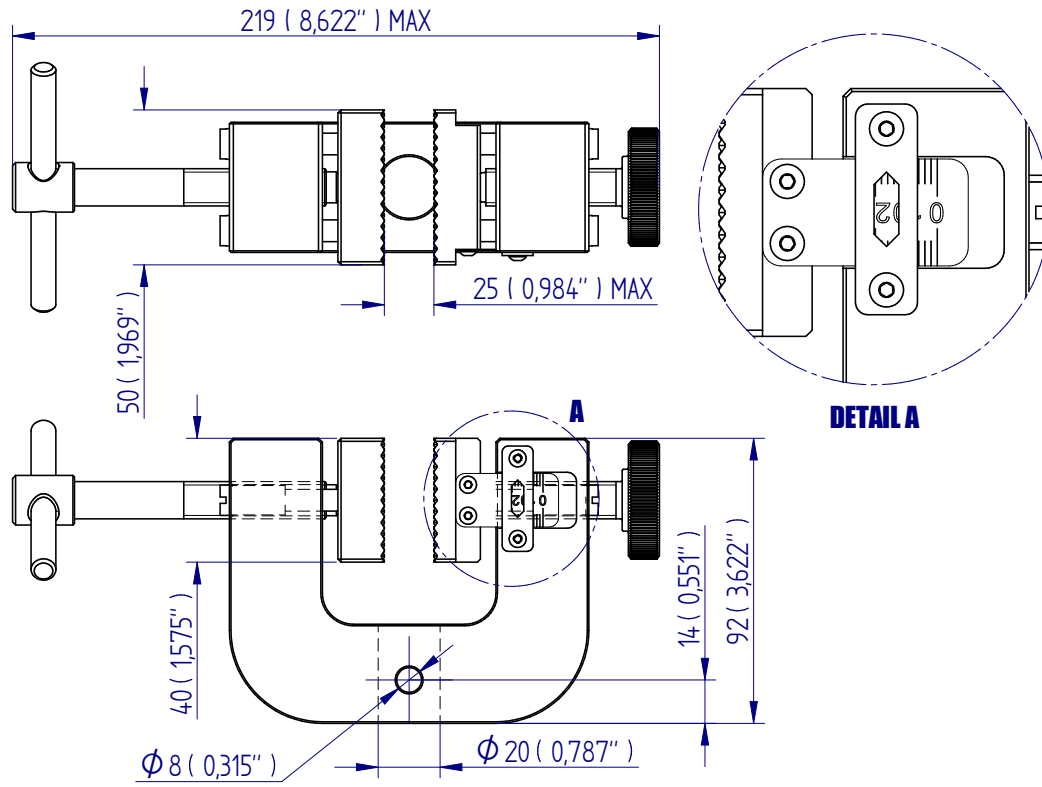
Used for testing of:

- textiles
- leather
- plastics
- thin metal sheets
- paper and cards
- thick films

### Specifications

Part No.	Load Capacity			Post Ø	Jaw Capacity		Jaw Width		Height		Weight	
	5 kN	500 kgf	1100 lbf		25 mm	0.98"	50 mm	1.97"	92 mm	3.62"	2.8 kg	6.2 lb
432-433	5 kN	500 kgf	1100 lbf	QC20	25 mm	0.98"	50 mm	1.97"	92 mm	3.62"	2.8 kg	6.2 lb

## Dimensions mm (inch)



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## U-Form Vice Grips, QC fitting

### MecS 240g Vice grip

Opening: 0 - 24mm (depending on jaws)  
Weight: 1.30 kg each grip (without jaws)

### MecS 240g -S50 Vice grip

Opening: 0 - 50mm (depending on jaws)  
Weight: 1.30 kg each grip (without jaws)

### MecS 240g -S100 Vice grip

• Opening: 10 - 100mm (depending on jaws)  
• Weight: 2.22kg each grip (without jaws)

- Tensile force: 5 kN
- Temperature range: 0°C - +180°C  
Other temperature ranges possible on request
- Body: Aluminum, anodized
- Scope of delivery: 1 pair (without jaws)
- Also as pneumatic grip available  
(see data sheet MecS240g+Ko)



Jaws for MecS 240g: Scope of delivery 1 set = 4 jaws

Item No.	Surface	Clamping surface H x W	Opening MecS240g	Opening MecS240g-S50	Opening MecS240g-S100	Weight per pair
MecS240g-B	Blank jaws	30x50mm	0-30mm	0-50mm	-	0.22kg
MecS240g-BG	Rubber jaws	30x50mm	0-28mm	0-50mm	-	0.22kg
MecS240g-BP	Pyramid jaws	30x50mm	0-30mm	0-50mm	-	0.21kg
MecS240g-BV2	V-jaws	30x50mm	Ø 2-30mm	Ø 2-50mm	-	0.22kg
MecS240g-BV5	V-jaws	30x50mm	Ø 5-30mm	Ø 5-50mm	-	0.25kg
MecS240g-BW	Wave jaws	30x50mm	0-30mm	0-50mm	-	0.20kg
MecS240g-BD	Diamond jaws	30x50mm	0-30mm	0-50mm	-	0.22kg
MecS240g-B80	Blank jaws	30x80mm	0-26mm	0-48mm	10-100mm	0.43kg
MecS240g-BG80	Rubber jaws	30x80mm	0-24mm	0-46mm	8-98mm	0.44kg
MecS240g-BP80	Pyramid jaws	30x80mm	0-26mm	0-48mm	10-100mm	0.42kg
MecS240g-BW80	Wave jaws	30x80mm	0-26mm	0-48mm	10-100mm	0.39kg
MecS240g-BD80	Diamond jaws	30x80mm	0-26mm	0-48mm	10-100mm	0.43kg
MecS240g-B100	Blank jaws	30x100mm	0-26mm	0-48mm	10-100mm	0.54kg
MecS240g-BG100	Rubber jaws	30x100mm	0-24mm	0-46mm	8-98mm	0.55kg
MecS240g-BP100	Pyramid jaws	30x100mm	0-26mm	0-48mm	10-100mm	0.53kg
MecS240g-BW100	Wave jaws	30x100mm	0-26mm	0-48mm	10-100mm	0.51kg
MecS240g-BD100	Diamond jaws	30x100mm	0-26mm	0-48mm	10-100mm	0.54kg

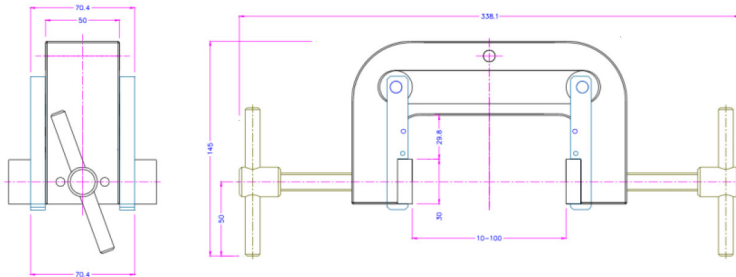
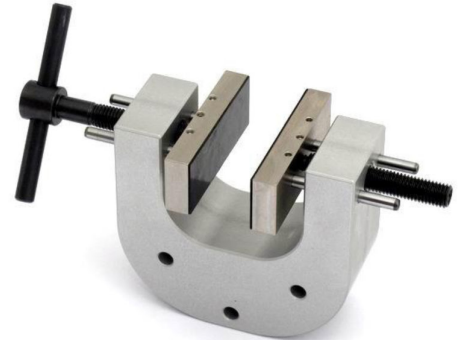
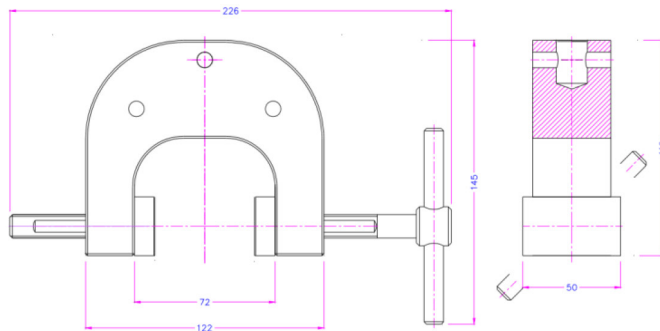


Inset jaws for MecS 240g: Scope of delivery 1 set = 4 jaws  
Quick change system - inset jaws require carriers (MecS240g-GT)

Item No.	Surface	Clamping surface H x W	Opening MecS240g	Opening MecS240g-S50	Weight per pair
MecS240g-GT	Carrier	-	-	-	0.18kg
MecS240g-EB	Blank inset jaws	30 x 50mm	0 - 20mm	0 - 30mm	0.14kg
MecS240g-EBG	Rubber inset jaws	30 x 50mm	0 - 18mm	0 - 30mm	0.14kg
MecS240g-EBP	Pyramid inset jaws	30 x 50mm	0 - 20mm	0 - 30mm	0.13kg
MecS240g-EBD	Diamond inset jaws	30 x 50mm	0 - 20mm	0 - 30mm	0.14kg



## Dimensions mm



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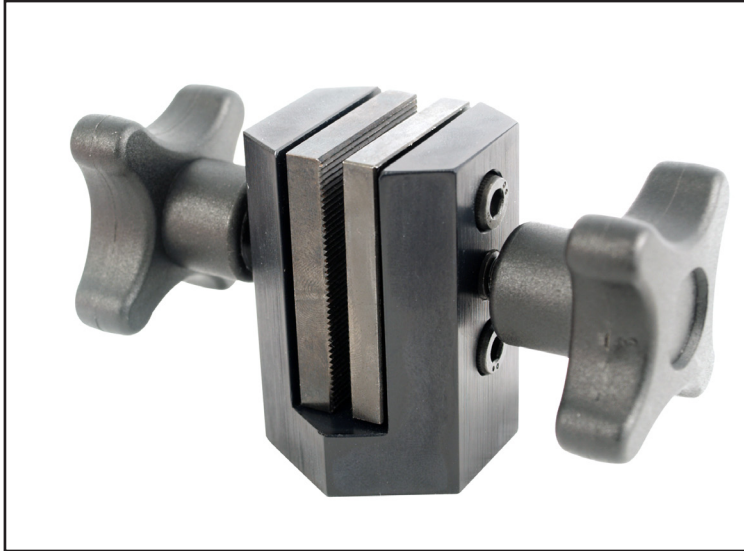
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## Parallel Jaw Grips



### Description

Parallel jaw grips are designed for gripping film, rubber, tape and other materials for general tensile and peel testing up to 500 N. Fitted with individually adjustable serrated interlocking jaws, they grip samples effectively, up to 5 mm (1.95") thick.

### Applications

Used for tensile and peel testing of:

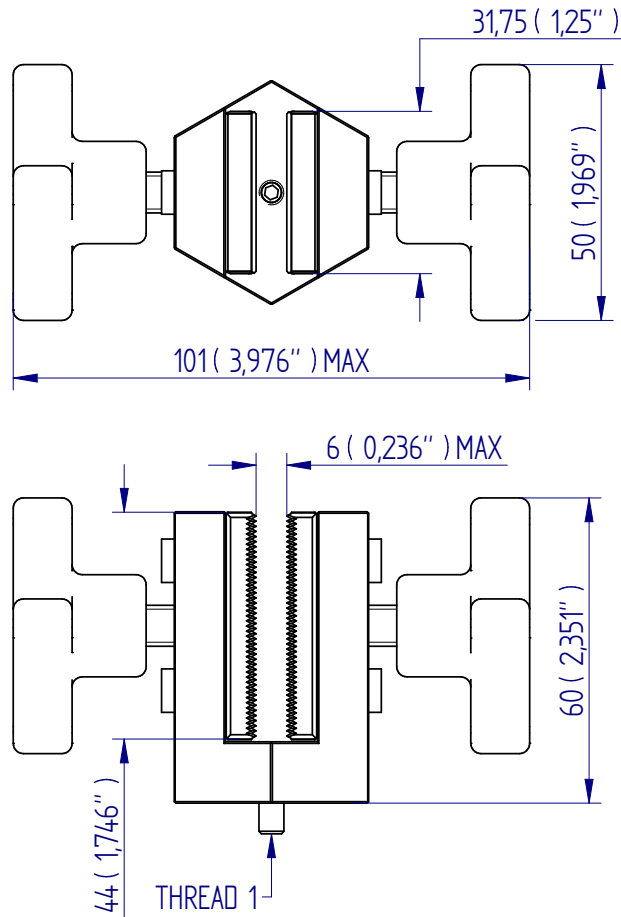
- films
- rubber
- flexible sheet materials
- tape
- paper and card
- textiles
- laminates
- woven fabrics

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Height		Weight	
	500 N	50 kgf	110 lbf		6 mm	0.24"	32 mm	1.26"	60 mm	2.35"	300 g	0.66 lb
432-396	500 N	50 kgf	110 lbf	10/32 UNF	6 mm	0.24"	32 mm	1.26"	60 mm	2.35"	300 g	0.66 lb



## Dimensions mm (inch)



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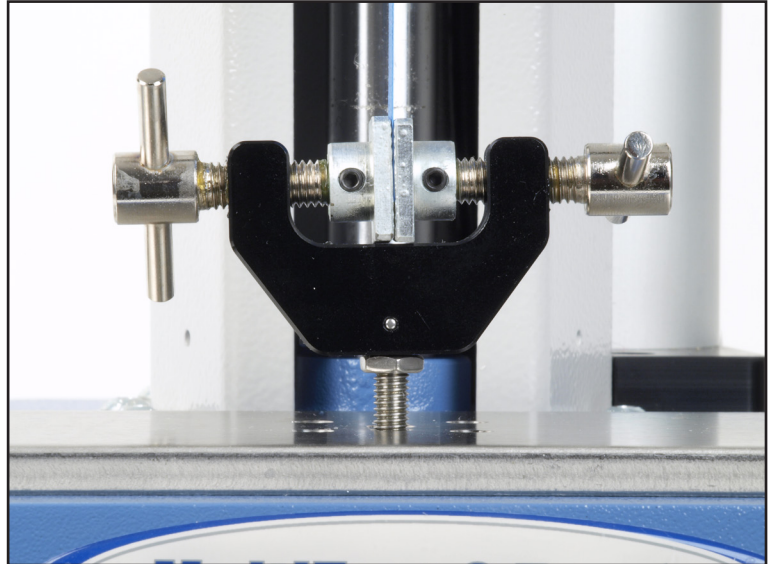
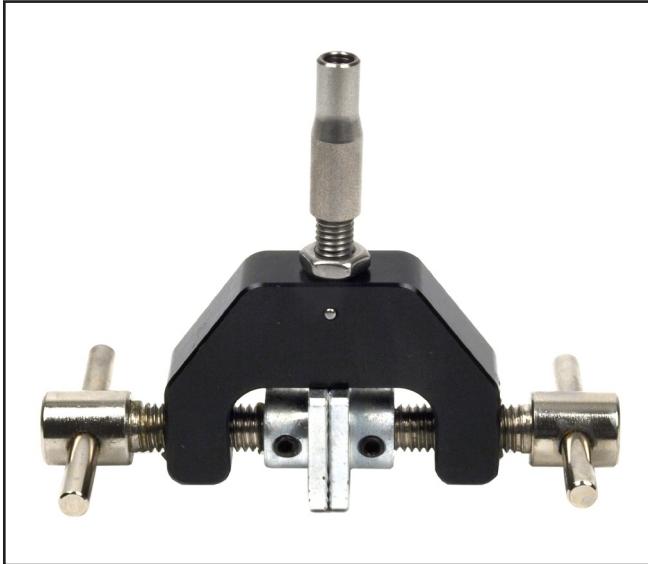
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## Small Parallel Grips



### Description

The small parallel grip has a rigid body with individually controlled serrated jaws. A floating ball screw attachment ensures central loading with correct alignment during tensile testing, and wing screws are used to easily adjust grip faces.

### Applications

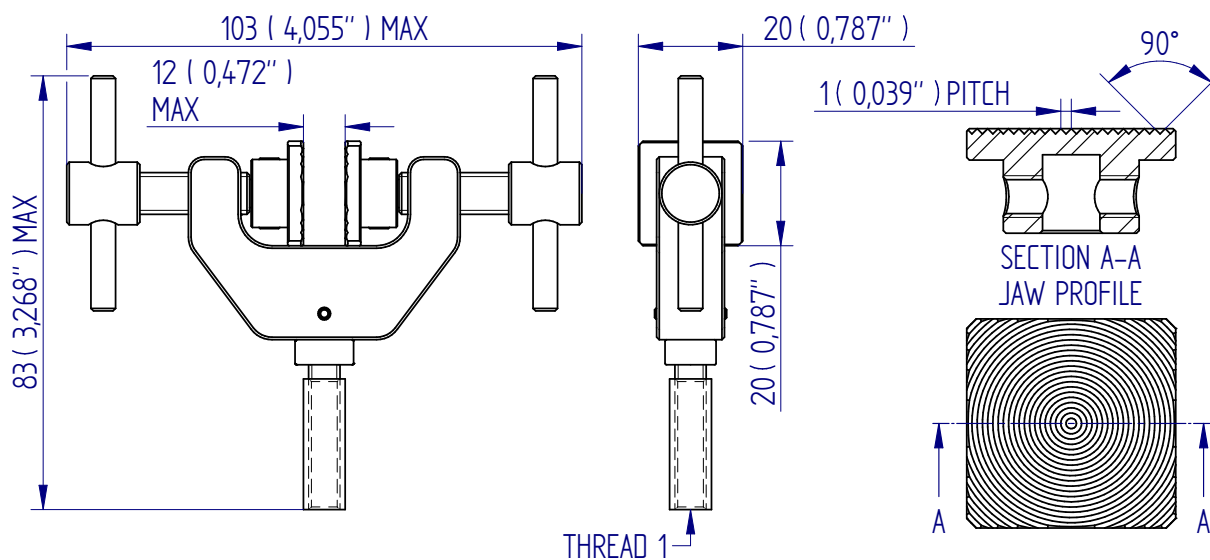
Used for tensile and peel testing of:

- flexible sheet materials
- textiles
- tape
- laminates
- paper

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	N	kgf	lbf		mm	"	mm	"	mm	"	g	lb
432-394	500 N	50 kgf	110 lbf	10/32 UNF	20 mm	0.79"	12 mm	0.47"	70.5 mm	2.78"	126 g	0.28 lb
432-211	500 N	50 kgf	110 lbf	M6	20 mm	0.79"	12 mm	0.47"	70.5 mm	2.78"	126 g	0.28 lb

## Dimensions mm (inch)



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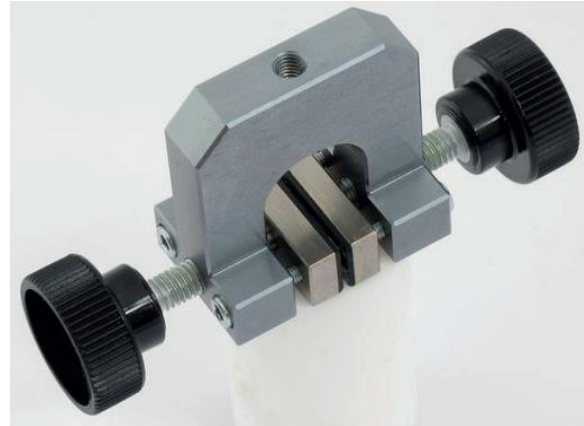
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## Lightweight Double-action Vice Grip

### Mec227 Small vice grip

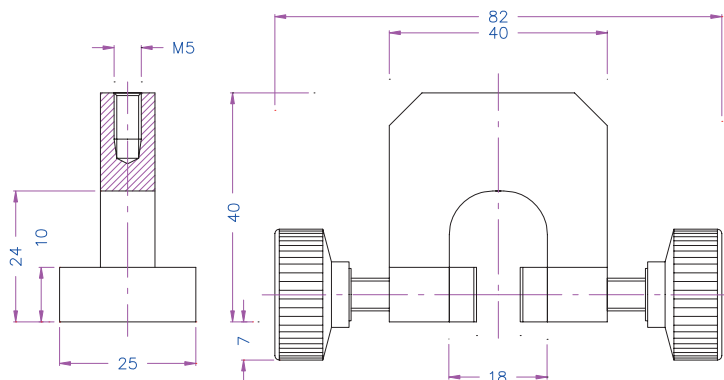
- Applicable for packaging materials, paper, plastic foils, wires, yarns etc
- Tensile force: 100N
- Opening: 0-8 mm (depending on jaws)
- Temperature range 0°C – 130°C (depending on jaw type)  
Other temperature ranges on request
- Adapter/Coupling: M5 internal thread  
Other couplings possible with additional adapters
- Body: anodized aluminum
- Weight 60 gram per item (without jaws)
- Scope of delivery: 1 pair (without jaws)



**Jaws for Mec227:** Scope of delivery 1 Set = 4 jaws

Item number	Surface	Clamping surface H x W	Opening	Weight / per pair
Mec227-B25	Blank jaws	10 x 25mm	0 – 8mm	18 gram
Mec227-BG25	Rubber jaws	10 x 25mm	0 – 6mm	19 gram
Mec227-BP25	Pyramid jaws	10 x 25mm	0 – 8mm	17 gram
Mec227-BD25	Diamond jaws	10 x 25mm	0 – 8mm	18 gram
Mec227-B50	Blank jaws	10 x 50mm	0 – 6mm	46 gram
Mec227-BG50	Rubber jaws	10 x 50mm	0 – 4mm	48 gram
Mec227-BP50	Pyramid jaws	10 x 50mm	0 – 6mm	43 gram
Mec227-BD50	Diamond jaws	10 x 50mm	0 – 6mm	46 gram
Mec227-B100	Blank jaws	10 x 100mm	0 – 6mm	92 gram
Mec227-BG100	Rubber jaws	10 x 100mm	0 – 4mm	95 gram
Mec227-BP100	Pyramid jaws	10 x 100mm	0 – 6mm	86 gram
Mec227-BD100	Diamond jaws	10 x 100mm	0 – 6mm	92 gram

Jaws with other dimensions and surfaces on request



#### Blank jaws

- Suitable for own further treatment
- Steel-blanks without coating



#### Rubber jaws

- 1mm rubber coating (NBR)
- Nickel plated



#### Pyramid jaws

- Pyramids 0.8x45°
- Hardened steel 58HRC
- Nickel plated



#### Diamond jaws

- Clamping surface coated with synthetic diamonds
- Nickel plated



Examples for other versions and custom built solutions



Mec227-A4+BP-6K - Made of A4



Mec227-S46+BP (opening 46 mm)



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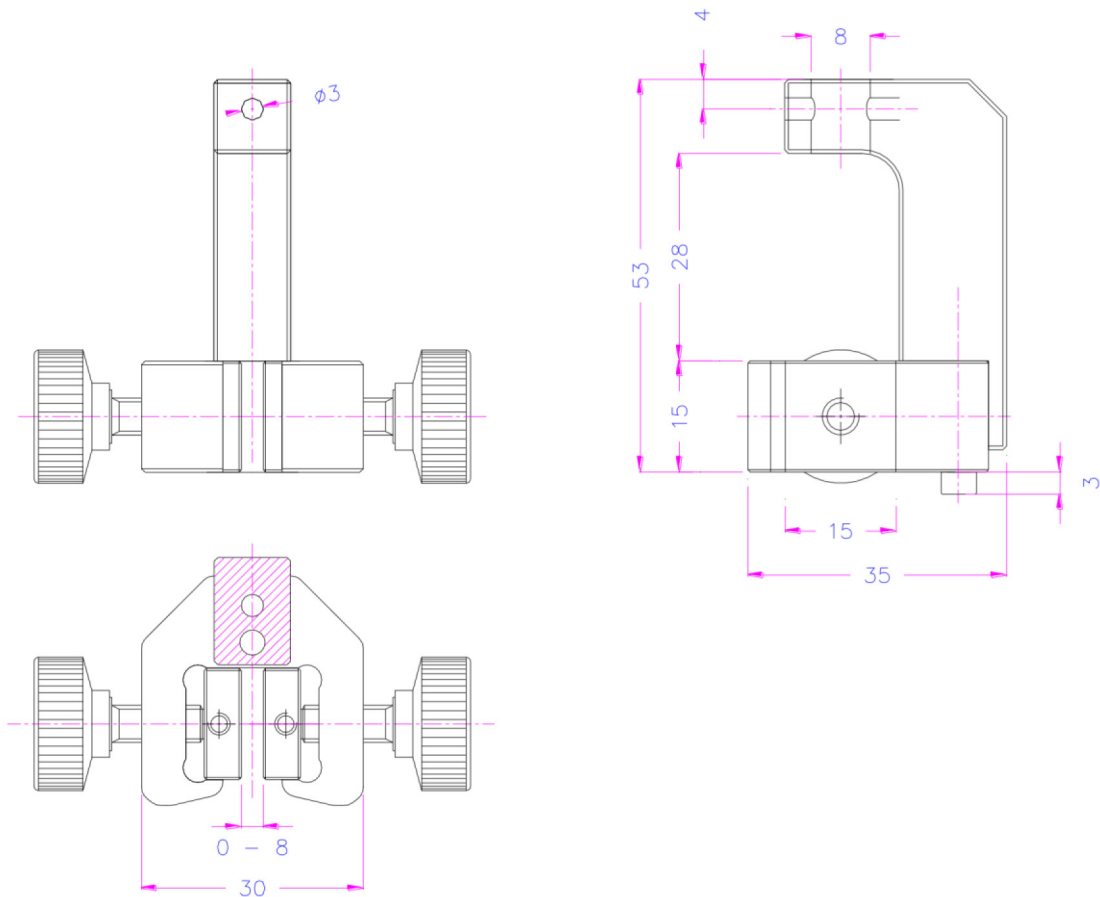
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## 100 N Small Vice Grip with pyramidal jaws, QC fitting



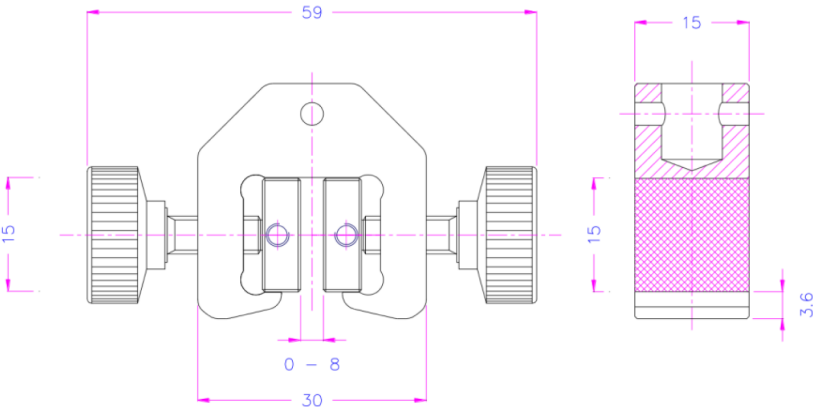


Small aluminium 100 N vice grips fit 8 mm QC adapters. Pneumatic versions achieve 140 N clamping force, and all take interchangeable smooth, rubber or pyramidal faced jaws, clamping surface 15 mm x 15 mm. QC fitting.



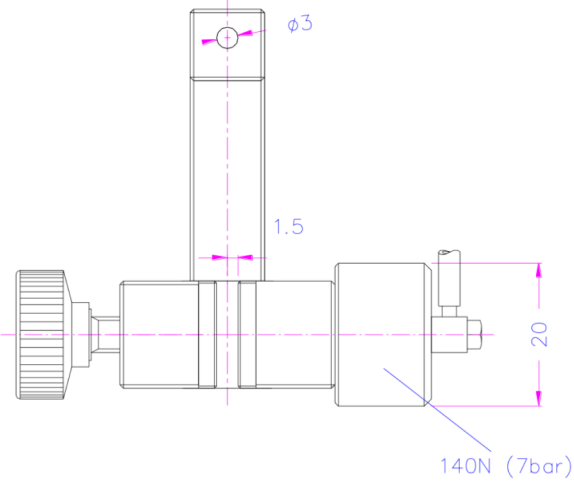
Mec140K+BP

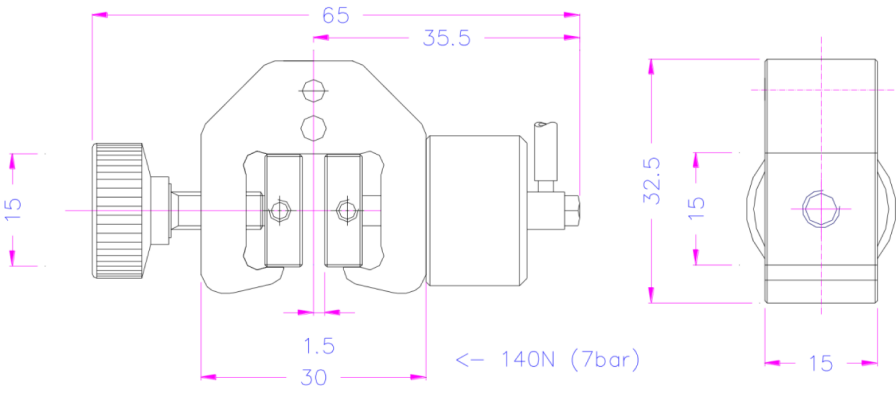





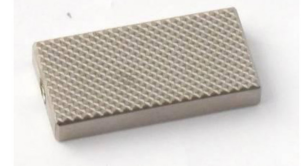
	<p>Mec140k + Mec187-8-159</p> <p>Mec187-8-159 Adapter male 8mm female 15.9mm (5/8")</p>
	<p>Mec140s + Mec187-8-159</p>
	<p>Mec140s</p>
	<p>Mec140-B Smooth</p>
	<p>Mec140-BP Piramidal jaws</p>

	<p>Mec140k+Ko</p> <p>Pneumatic version</p>
	<p>Mec140k+2Ko</p>

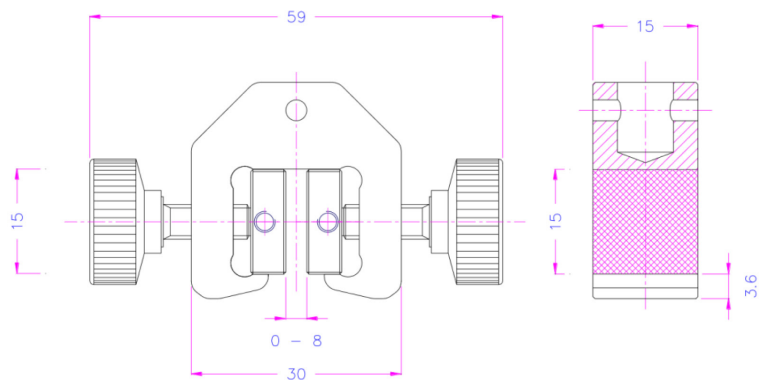
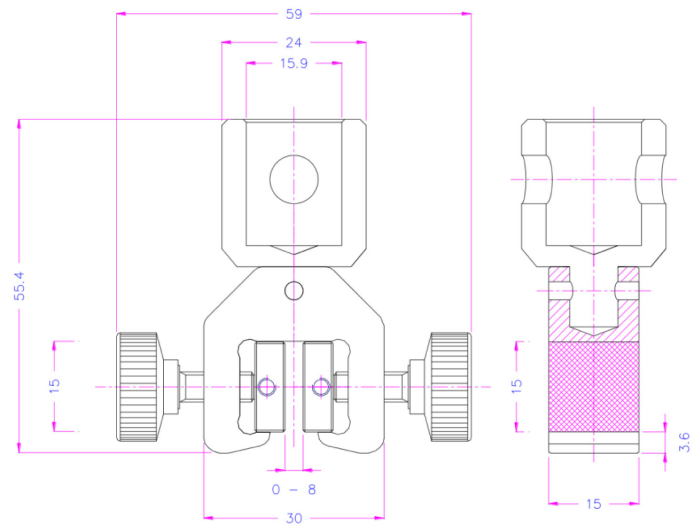
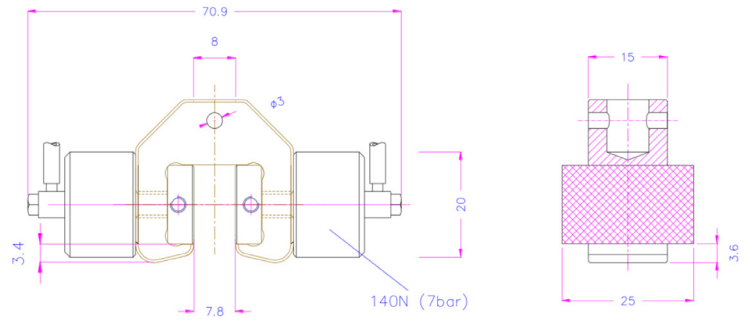
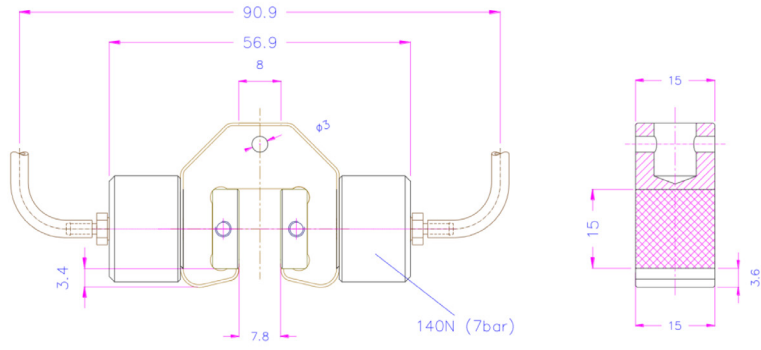
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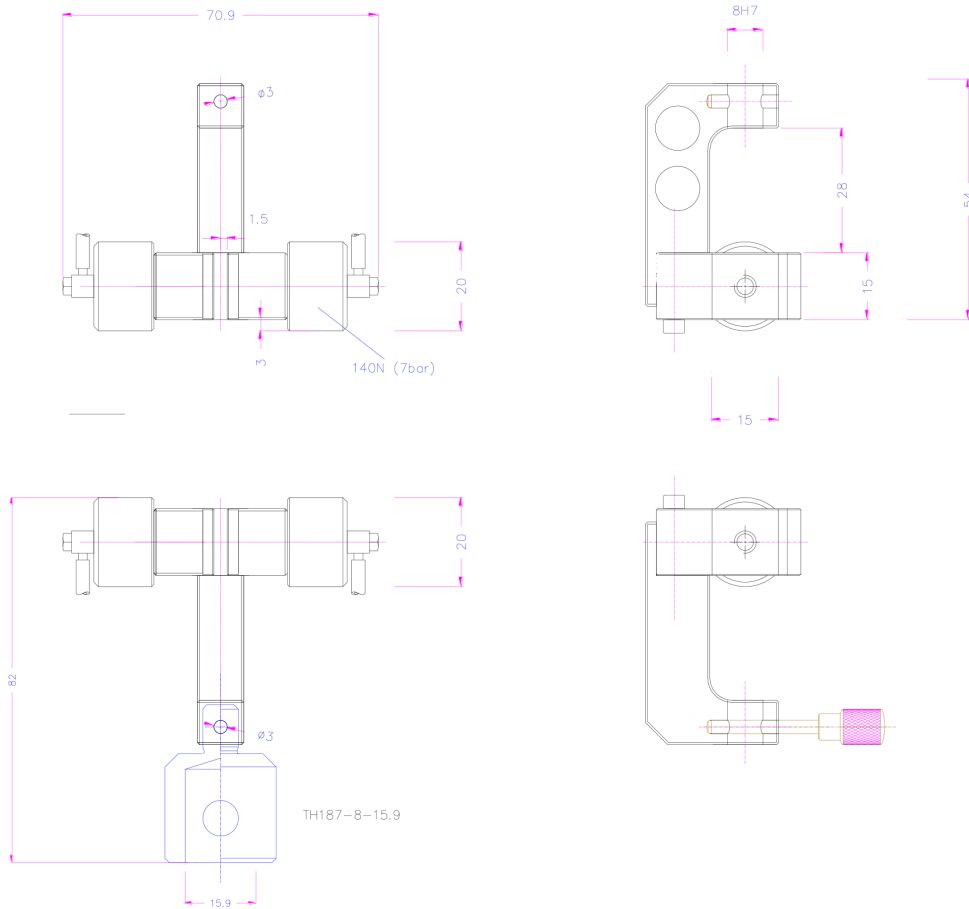
## Special solutions

		<p>Mec140s-A4</p> <p>Stainless Steel Made of high chrome steel for salt water usage</p>
		<p>Mec140-BP10x25</p> <p>Pyramidal jaws 10x25mm</p>

<p><b>Mec140k</b></p>	<p>Small vice grip, 100N including pyramid jaws, clamping surface 15x15mm Opening 0-8 mm, weight per grip ~ 63 gr. Price includes: 1 pair incl. pyramid jaws</p>
<p><b>Mec140k+Ko</b></p>	<p>Pneumatic Version of Mec140k like Mec140k including pyramid jaws with 1 rod clamping force 140 N Price includes: 1 pair incl. pyramid jaws</p>
<p><b>Mec140k+2Ko</b></p>	<p>Pneumatic Version of Mec140k like Mec140k including pyramid jaws with 2 rods Clamping force 140 N Price includes: 1 pair incl. pyramid jaws</p>
<p><b>Mec140s</b></p>	<p>Special design of Mec140k including pyramid jaws, clamping surface 15x15mm Opening 0-8 mm, weight per grip ~ 43 gr. Price includes: 1 pair incl. pyramid jaws</p>
	<p><b>Additional jaw faces for Mec140</b> Price includes 1 set = 4 jaw faces</p>
<p>Mec140-B</p>	<p>Blank (smooth jaws), 15x15 mm, 1 set</p>
<p>Mec140-BG</p>	<p>Rubber jaws, 15x15 mm, 1 set</p>
<p>Mec140-BP</p>	<p>Pyramid jaws, 15x15 mm, 1 set (Standard jaws)</p>



## Dimensions mm



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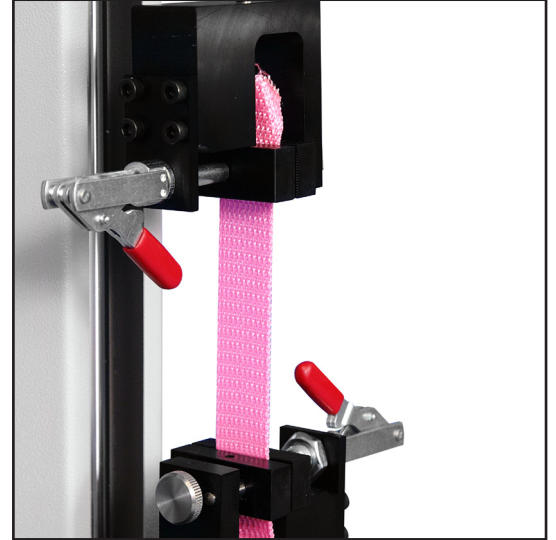
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## Toggle Clamps



### Description

Toggle clamps are fitted with a lever to allow rapid, easy loading of specimens. They are available fitted with either flat or serrated jaw faces to securely grip most materials.

### Applications

Used for testing of:

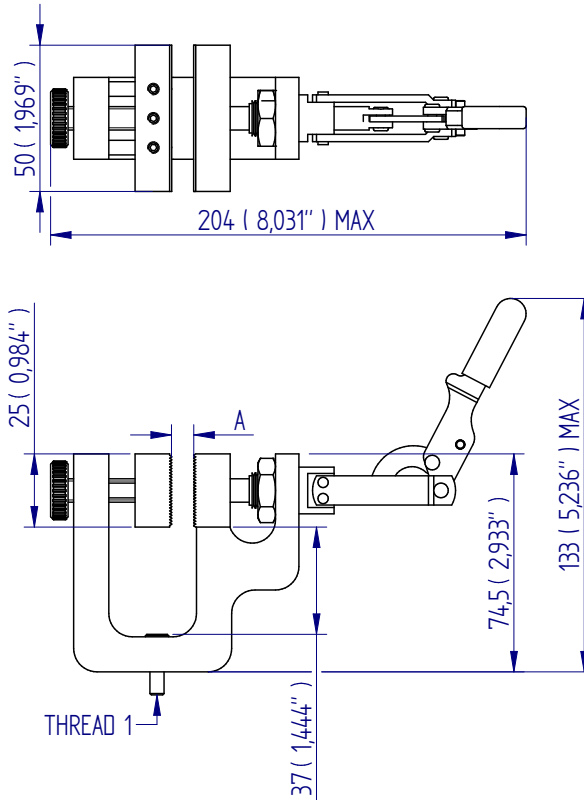
- fabric
- woven fabrics
- tapes
- polymers

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Type	Jaw Capacity		Jaw Width		Height		Weight	
	500 N	50 kgf	110 lbf			6 mm	0.24"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb
432-177	500 N	50 kgf	110 lbf	10/32 UNF	Flat	6 mm	0.24"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb
432-176	500 N	50 kgf	110 lbf	10/32 UNF	Serrated	7 mm	0.28"	50 mm	1.97"	74 mm	2.19"	400 g	0.88 lb



## Dimensions mm (inch)



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## 500 N and 200 N Wedge Grips



### Description

The 200 N / 500 N wedge grip is a small, lightweight grip designed for tensile testing. 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. The 200 N grip includes the chain link assembly for ease of loading samples. A slot in the back accommodates samples wider than the jaws.

### Applications

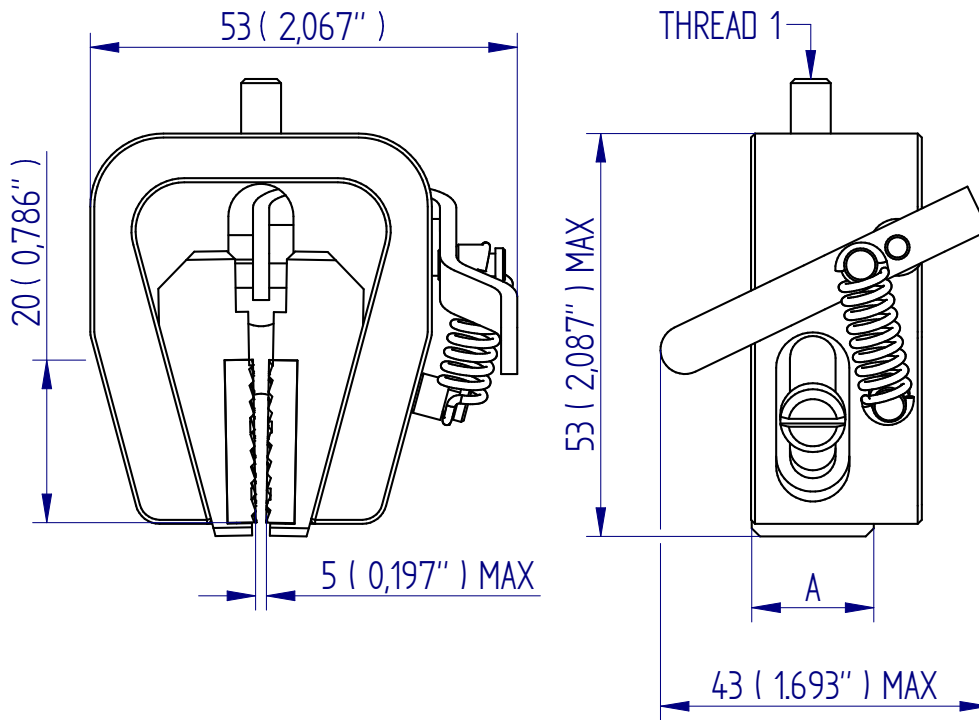
Used for general purpose tensile testing of:

- crimp and welded joints
- laminates
- films
- wires
- flexible sheet materials
- textiles
- many other materials

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Width (A)		Jaw Capacity		Height		Weight	
	N	kgf	lbf		mm	in	mm	in	mm	in	g	lb
432-415	200 N	20 kgf	45 lbf	10/32 UNF	25 mm	0.98"	5 mm	0.20"	50 mm	1.97"	120 g	0.26 lb
432-385	500 N	50 kgf	110 lbf	10/32 UNF	16 mm	0.63"	5 mm	0.20"	50 mm	1.97"	132 g	0.29 lb

## Dimensions mm (inch)



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## 5 kN Wedge Grip



### Description

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.

### Applications

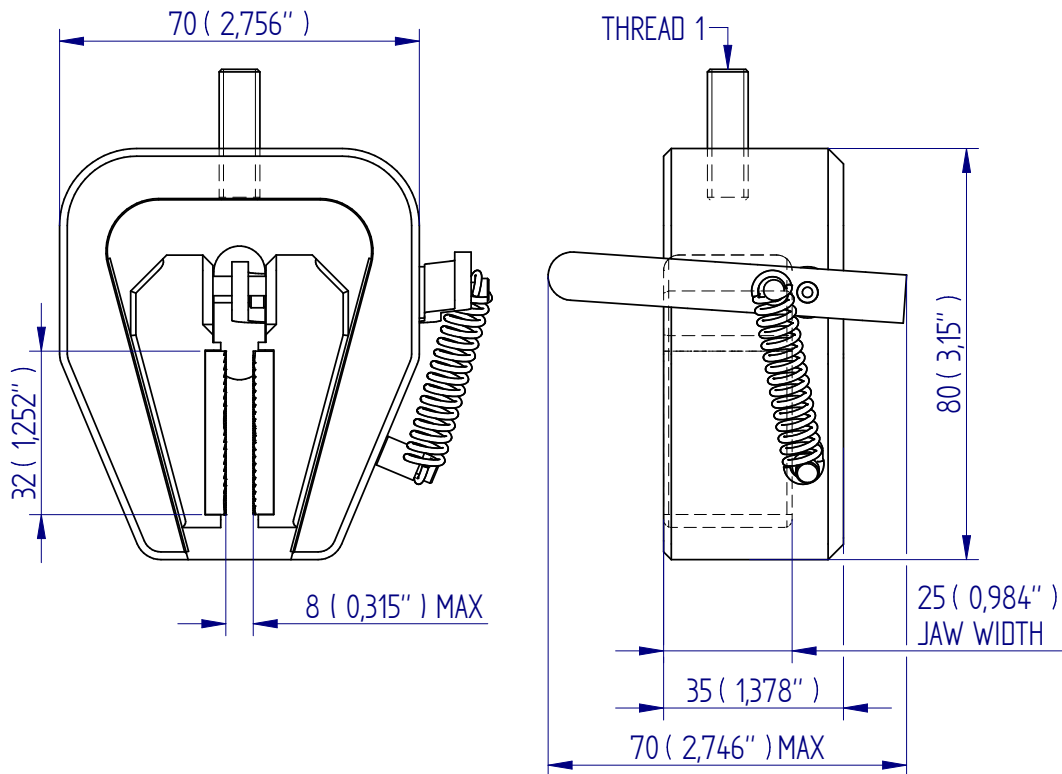
Used for general-purpose tensile testing of:

- adhesive joints
- plastics
- cables
- polymer
- composites
- crimp and welded joints
- wood
- metals
- rubber

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Width (A)		Jaw Capacity (B)		Height (C)		Weight	
	5kN	500 kgf	1100 lbf		25 mm	.98"	8 mm	0.31"	80 mm	3.15"	550 g	1.21 lb
432-398	5kN	500 kgf	1100 lbf	5/16 UNC	25 mm	.98"	8 mm	0.31"	80 mm	3.15"	550 g	1.21 lb

## Dimensions mm (inch)



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## 10 kN Wedge Grip

MecS622 grips are supplied in pairs, but can also be ordered as single grip.

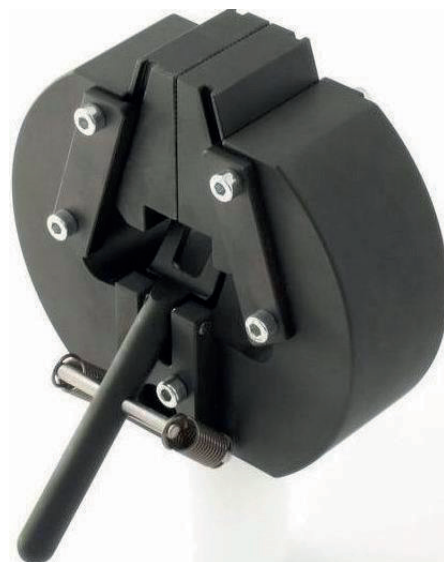
Grips and jaws need to be ordered separately.

Item No.	Mec S622
Tensile force	10 kN
Temperature range	0°C - + 130°C -70°C - + 280°C (MecS622-Ni)
Body	Steel, phosphated
Weight per grip	1.83kg each grip (without jaws)

Jaws for Mec S622

Scope of delivery 1 Set = 4 jaws

Item No.	Jaw surface	Clamping surface H x W	Opening	Weight / pair
MecS622-BP	Pyramid jaws	34x40mm	0-9 mm	0.42kg
MecS622-BV	V-jaws	Clamping height 40 mm	3-9 mm Ø	0.43kg



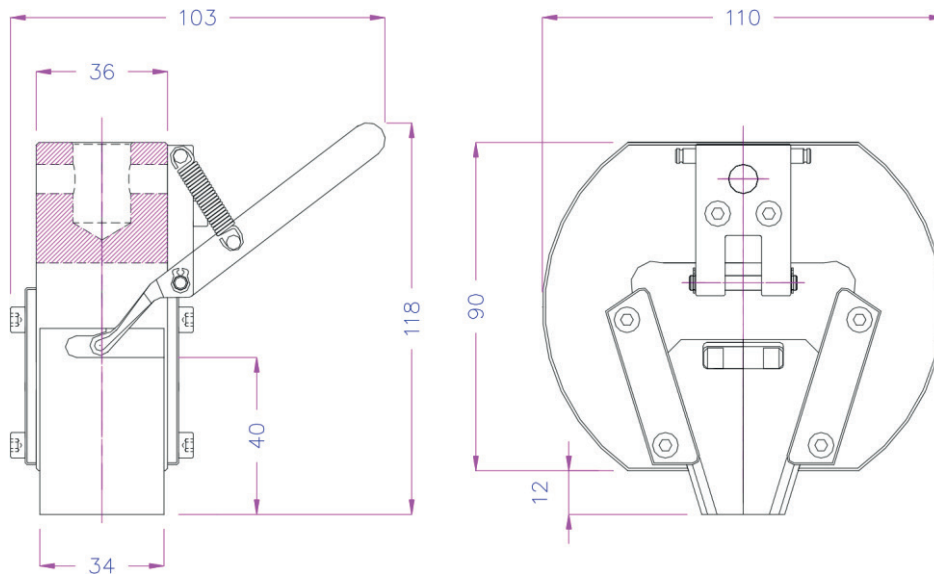
Mec S622 -BP:  
Pyramids 1x45°,  
hardened steel

Mec S622 -BV:  
Tooth pitch 1.2 mm,  
hardened steel

Jaw faces with differing dimensions and surfaces available on request.



## Dimensions mm



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## 20 kN and 50 kN Wedge Grip

Multi purpose, self-tightening grips.

Suitable for metal or plastic specimens (with medium strength) etc.

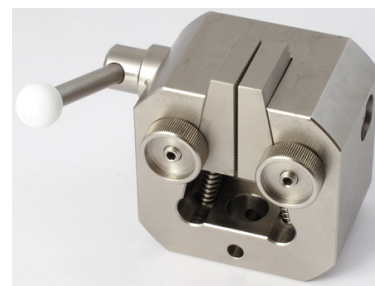
Easy to use: The grips feature a lever arm for quick loading and releasing of the samples.

The wedge-shaped design of the jaws causes the clamping force to increase, as tension is applied during the test.

Supplied as individual grips. To receive a pair of grips please order 2 pieces.



Item No.	Mec243-20	Mec243-50
Tensile force	20 kN	50 kN
Temperature range	0°C - +130°C (Mec243-20) -70°C - +280°C (Mec243-20-Ni) -70°C - +280°C (Mec243-20+TK Option)	0°C - +130°C (Mec243-50) -70°C - +280°C (Mec243-50-Ni) -70°C - +280°C (Mec243-50+TK Option)
Body	Steel, phosphate coated (Mec243-20) Steel, nickel plated (Mec243-20-Ni)	Steel, phosphate coated (Mec243-50) Steel, nickel plated (Mec243-50-Ni)
Weight	3.8 kg each grip (without jaws)	6.75 kg each grip (without jaws)



Mec243-20-Ni

Wedge jaws for Mec243 grips: scope of delivery 0.5 set = 2 jaws

Item No.	Surface	Clamping surface H x W	Opening	Weight per pair
Mec243-BP	Pyramid (serrated) jaws	50 x 35 mm	0 - 13 mm	0.48 kg
Mec243-BP16	Pyramid (serrated) jaws	50 x 35 mm	4 - 16 mm	0.41 kg
Mec243-BV	V-jaws	Clamping height 50mm	3 - 13 mm Ø	0.46 kg
Mec243-BV16	V-jaws	Clamping height 50mm	4 - 16 mm Ø	0.41 kg

Jaws with other dimensions and surface coatings on request



Mec243-BP Pyramid jaws

- Hardened steel 58 HRC
- Pyramids 1.2 x 45°



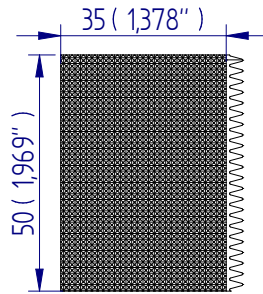
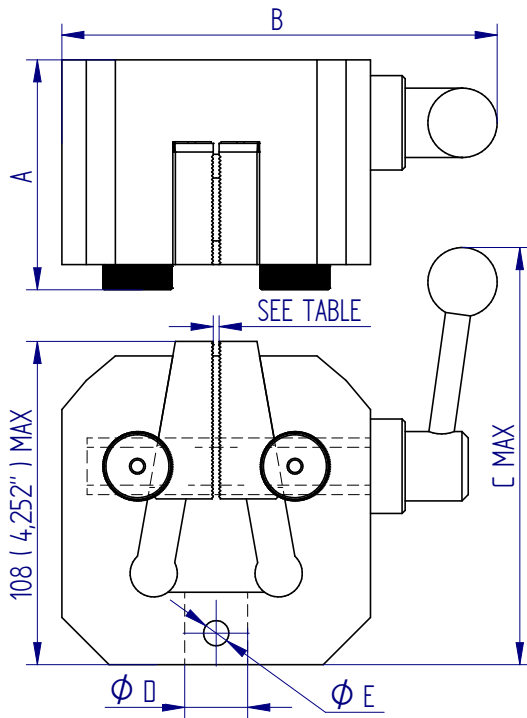
Mec243-BV -V-jaws

- For all kinds of round samples
- Hardened steel 58 HRC
- Tooth pitch 1.2 mm

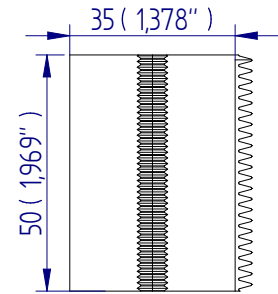


Mec243-20+TK Option  
(for Mec243-20 and Mec243-50)

## Dimensions mm (inch)



PYRAMID JAWS	
PART NO.	SAMPLE SIZE
432-455	0-13 MM
432-456	4-16 MM



'V' JAWS	
PART NO.	SAMPLE SIZE
432-457	3-13 MM Ø
432-462	4-16 MM Ø

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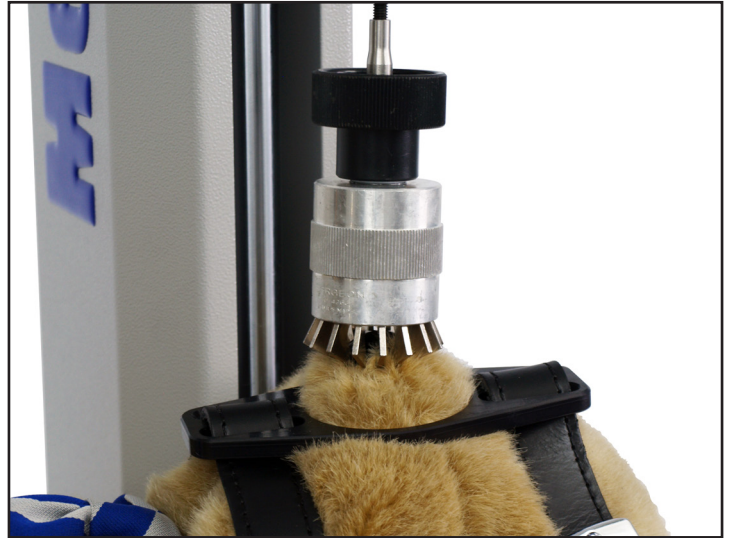
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## Multi-Jaw Grip



### Description

The multi-jaw grip is for grasping round or irregularly shaped items. By rotating the sleeve of the grip, the jaws can be opened and closed to achieve a secure grasp on a sample.

### Applications

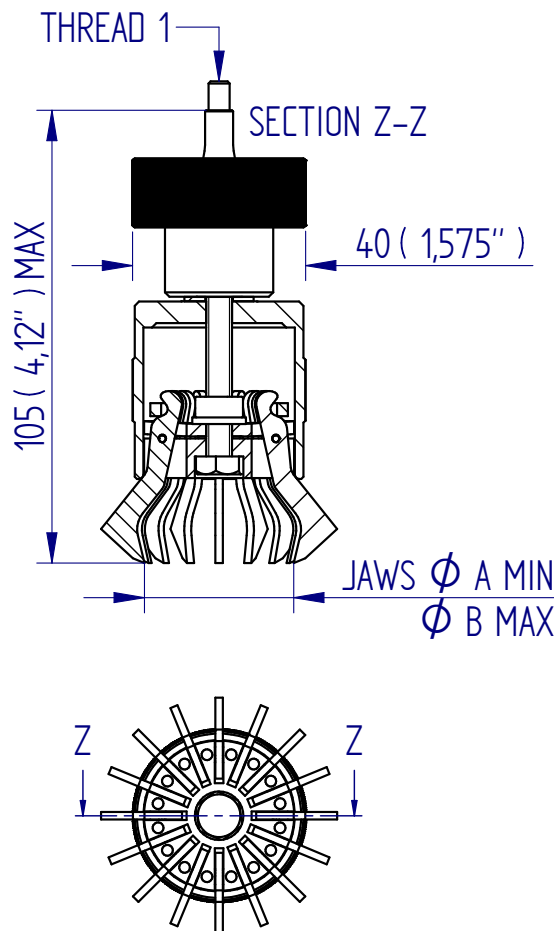
Used for tensile testing of:

- fasteners
- small components
- textiles

### Specifications

Part No.	Load Capacity			Thread 1	Sample Min./Max. Ø		Length		Weight	
	N	kgf	lbf		mm	"	mm	"	g	lb
432-215	500 N	50 kgf	110 lbf	M6	10 mm - 45 mm	0.39" - 1.77"	105 mm	4.12"	173 g	0.38 lb
432-420	500 N	50 kgf	110 lbf	10/32 UNF	10 mm - 45 mm	0.39" - 1.77"	105 mm	4.12"	173 g	0.38 lb

## Dimensions mm (inch)



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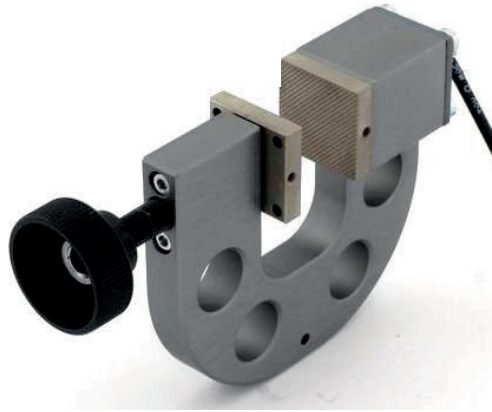
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## Lightweight Pneumatic Plane Grip, QC fitting

Supplied as a pair. To operate these grips please chose appropriate foot pedal or hand-switch from overleaf.

- Clamping force: 200 N / 7 bar
- Opening: 0-20 mm (depending on jaws)
- Temperature range: 0°C - +70°C (depending on jaws)  
Other temperature ranges possible on request
- Body: Aluminum, anodized
- Pneumatic connection: M3 for Micro fittings or with additional Adapter (Mec205-PK23) for 1/8" pneumatic connection
- Weight: 214 gram each grip (without jaws)



**Mec94**

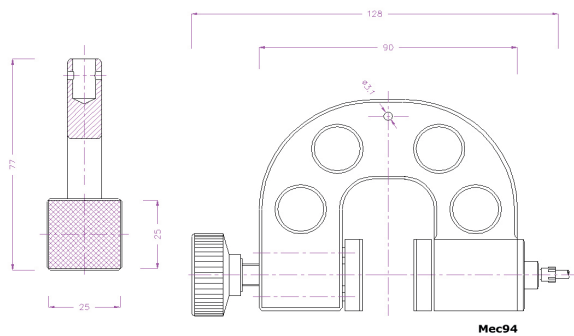
**Ordering information** Item No.: Mec94

Scope of delivery: 1 pair of grips, tubes and two additional adapters Mec205-PK23. Jaws for Mec94 must be ordered separately.

**Jaws for Mec94:** Scope of delivery 1 set = 4 jaws

Item No.	Surface	Clamping surface H x W	Opening	Weight per pair
Mec94-B	Blank jaws	25 x 25 mm	0 - 20 mm	53 gram
Mec94-BG	Rubber jaws	25 x 25 mm	0 - 18 mm	56 gram
Mec94-BP	Pyramid jaws	25 x 25 mm	0 - 20 mm	49 gram
Mec94-BD	Diamond jaws	25 x 25 mm	0 - 20 mm	54 gram
Mec94-B50	Blank jaws	25 x 50 mm	0 - 20 mm	111 gram
Mec94-BG50	Rubber jaws	25 x 50 mm	0 - 18 mm	114 gram
Mec94-BP50	Pyramid jaws	25 x 50 mm	0 - 20 mm	104 gram
Mec94-BW50	Wave jaws	25 x 50 mm	0 - 16 mm	128 gram
Mec94-BD50	Diamond jaws	25 x 50 mm	0 - 20 mm	112 gram

Jaws with other dimensions and surface coatings on request

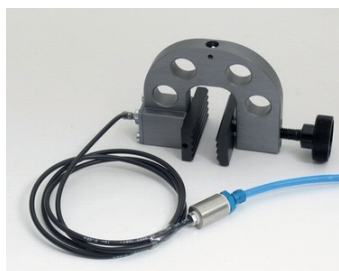


**Mec94**

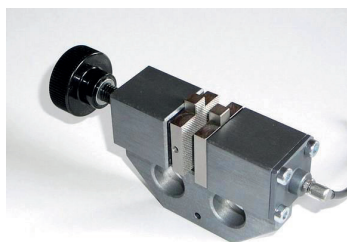
\*Q = Quick-interchange via 3 mm Ø pin

<p><b>Blank jaws</b></p> <ul style="list-style-type: none"> <li>- Applicable for own further treatments</li> <li>- Steel blanks without coating</li> </ul> <p><b>Rubber jaws</b></p> <ul style="list-style-type: none"> <li>- 1mm rubber coating (NBR)</li> <li>- Nickel plated</li> </ul> <p><b>Pyramid jaws</b></p> <ul style="list-style-type: none"> <li>- Pyramids 1x45°</li> <li>- Hardened steel 58 HRC</li> <li>- Nickel plated</li> </ul> <p><b>Wave jaws</b></p> <ul style="list-style-type: none"> <li>- Wave 5 mm</li> <li>- Hardened steel 58 HRC</li> </ul> <p><b>Diamond jaws</b></p> <ul style="list-style-type: none"> <li>- Clamping surface coated with synthetic diamonds</li> <li>- Nickel plated</li> </ul>	
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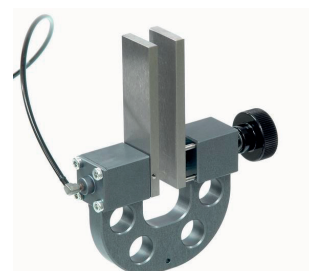
**Examples for additional special solutions:**



Mec94 with Mec94-BW50 jaws + Mec205-PK23 adapter



Mec94-S2+BP-S21  
Reduced height



Mec94 with Mec94-B100x25 special jaws  
Blank jaws: height 100 mm x width 25 mm



## Dimensions mm (inch)

Accessories:



### Mec205-1 Foot pedals

Non-locking: The jaws of the grip open by pressing the foot pedal and close after removing the foot from the pedal.

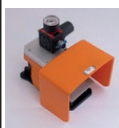
Scope of delivery: 1 pair of foot switches including tubes and fittings



### Mec205-2 Foot pedals

With locking function: The jaws of the grip open by pressing the foot pedal and remain opened after removing the foot from the pedal. The jaws close by pressing the pedal one more time.

Scope of delivery: 1 pair of foot switches including tubes and fittings



### Mec205-.+PR Pressure regulator

Optional for TH205-1 or TH205-2

To adjust air pressure: 1-10 bar



### Mec205-3 Hand switches

With locking function: The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.

Scope of delivery: 1 unit of hand switches including tubes and fittings



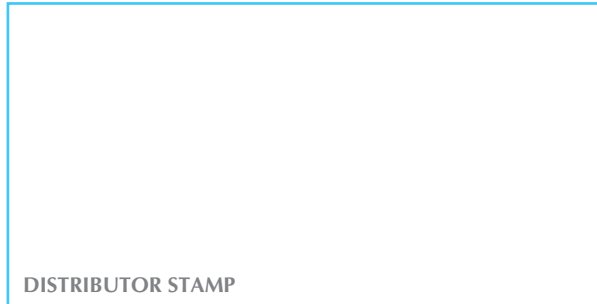
### Mec216 Compressor for laboratories, oil-lubricated

Max pressure 16 bar, 230V, noise level: 38dB(A)/1m

Displacement 5 l/min, tank size 3.1 litre (0.82 gallon)

Dimensions: 340x290x340 mm (L x W x H); weight 16 kg

Different voltages available on request



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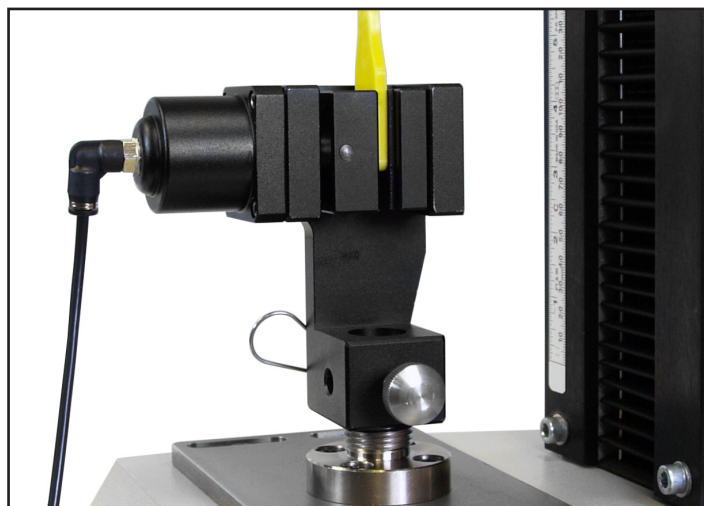
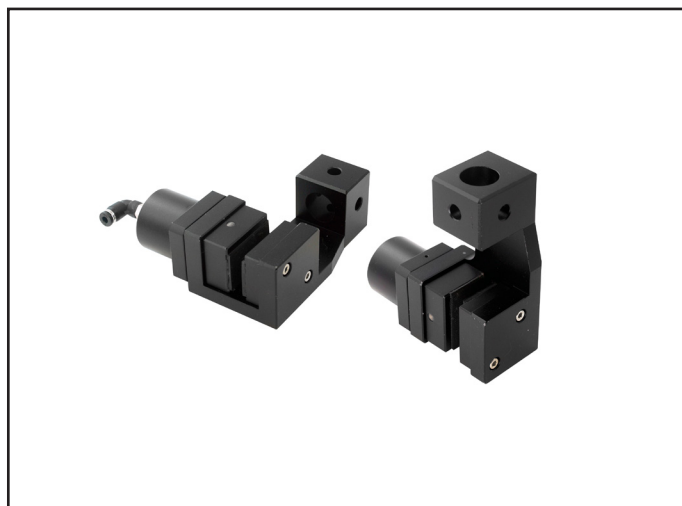
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## Small Pneumatic Plane Grip, QC fitting



### Description

Small pneumatic plane grips are made from aluminium, have rubber-faced jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation. Recommended air pressure 6 bar (maximum 8 bar).

### Applications

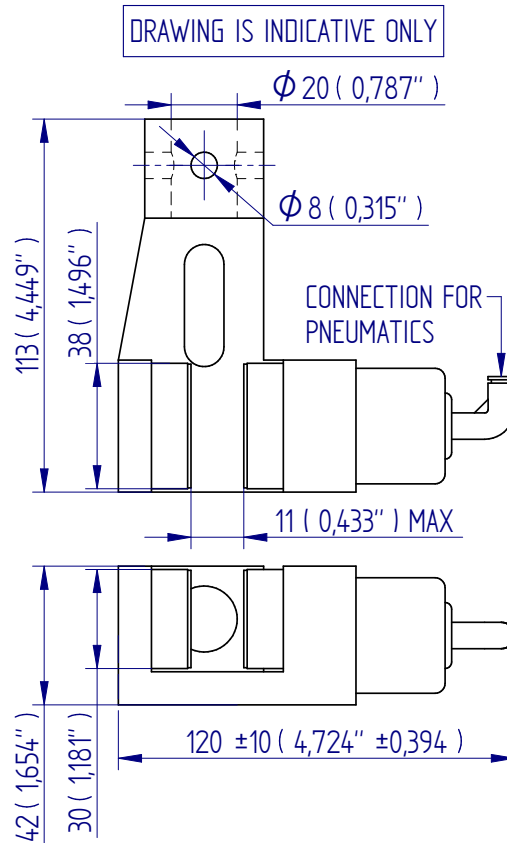
Used for tensile testing of:

- film
- laminates
- plastic sheet
- textiles
- woven fibre strips
- rubber
- elastomers
- paper

### Specifications

Part No.	Load Capacity			Post Ø	Jaw Capacity		Jaw Width		Height		Weight	
	200 N	20 kgf	45 lbf		8 mm	0.31"	25 mm	0.98"	114 mm	4.49"	600 g	1.3 lb
432-275	200 N	20 kgf	45 lbf	QC20	8 mm	0.31"	25 mm	0.98"	114 mm	4.49"	600 g	1.3 lb

## Dimensions mm (inch)



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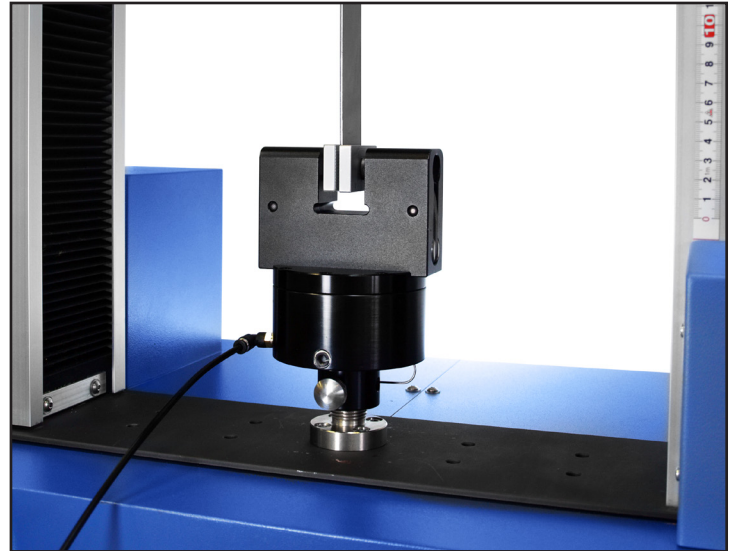
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## Large Pneumatic Plane Grip, QC fitting



### Description

Large pneumatic plane grips have pyramidal-faced jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation. Recommended air pressure 6 bar (maximum 8 bar)

### Applications

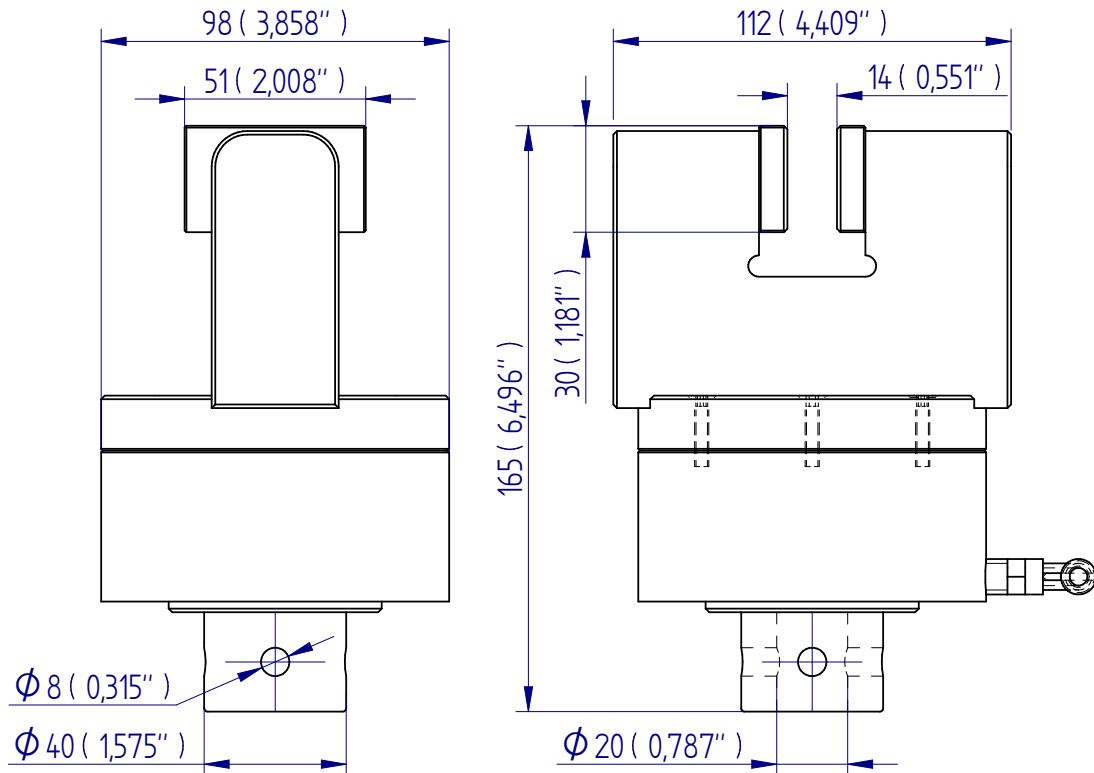
Used for tensile testing of:

- plastics
- textiles
- heavy-duty film
- light metals / alloys
- laminates
- paper and card
- rubber
- insulating materials

### Specifications

Part No.	Load Capacity			Post Ø	Jaw Capacity		Jaw Width		Height		Weight	
	1 kN	100 kgf	225 lbf		14 mm	0.55"	51 mm	2.01"	165 mm	6.50"	4 kg	8.8 lb
432-276	1 kN	100 kgf	225 lbf	QC20	14 mm	0.55"	51 mm	2.01"	165 mm	6.50"	4 kg	8.8 lb

## Dimensions mm (inch)



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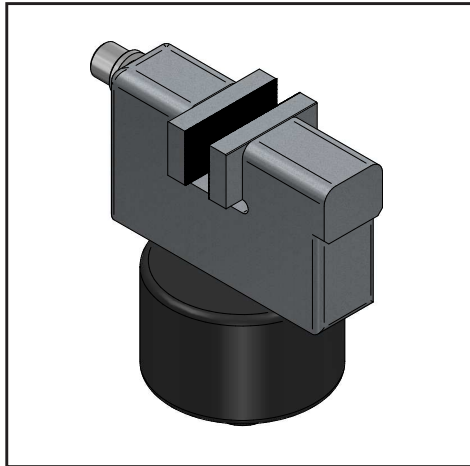
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## Heavy-duty Pneumatic Plane Grip, QC fitting



### Description

Heavy-duty pneumatic plane grips are made from steel, have pyramidal-face jaws and use a pneumatically-operated parallel vice action to firmly hold flat samples in place. Designed for fast loading and rapid testing of a large number of specimens. Supplied in pairs complete with 3 m long tube and footswitch for convenient operation.

### Applications

Used for tensile testing of:

- elastomers
- tapes
- textiles
- films
- plastics
- rubber

### Specifications

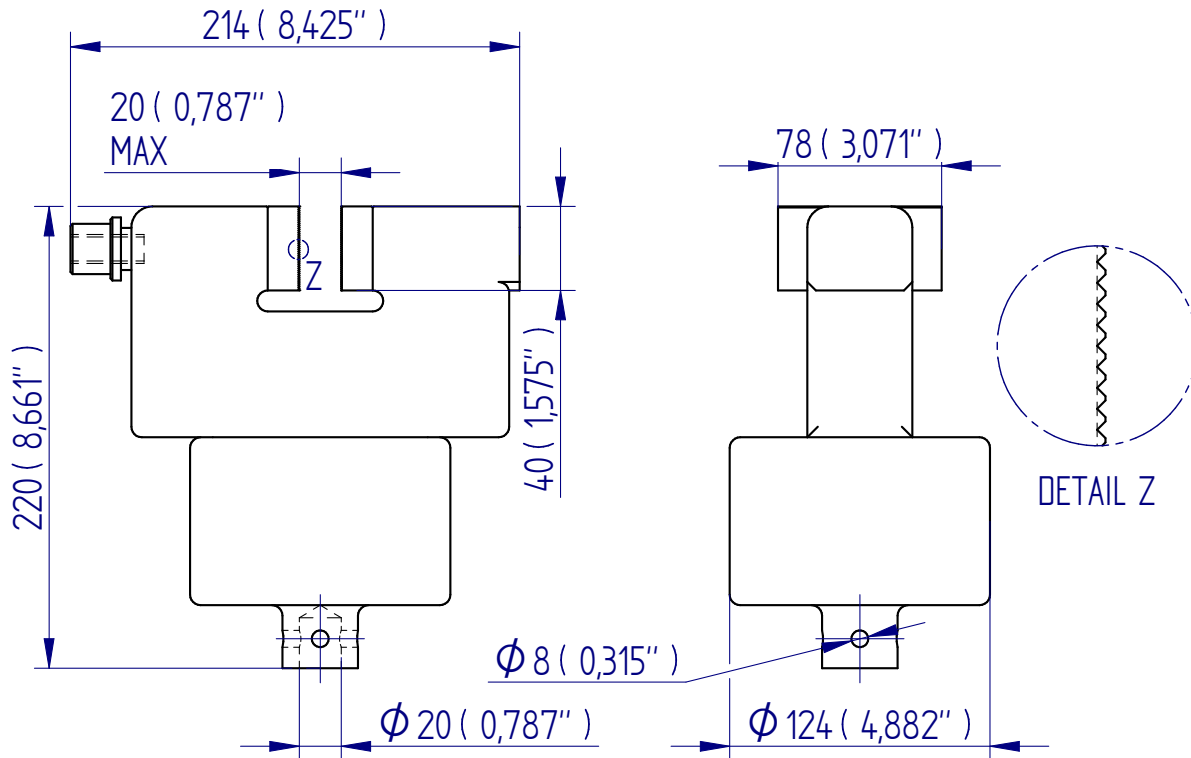
Part No.	Load Capacity			Post Ø	Jaw Capacity		Jaw Width		Height	
	1 kN	100 kgf	225 lbf		20 mm	0.787"	78 mm	3.07"	220 mm	8.66"
432-374	1 kN	100 kgf	225 lbf	QC20	20 mm	0.787"	78 mm	3.07"	220 mm	8.66"



## Dimensions mm (inch)

ALL DIMENSIONS ARE IN MILLIMETRES  
FOLLOWED BY INCHES: MM ( IN" )

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## Dual Footswitches

### Mec 205 Pneumatic Switch



#### Accessories:



#### Mec 205 - 1

2 pneumatic foot switches, tubes and fittings

Non-locking: The jaws of the grip open by pressing the foot pedal and close after removing the foot from the pedal. Only for single action rods with spring inside.

Scope of delivery: 1 pair of foot switches including tubes and fittings



#### Mec 205 - 2

2 pneumatic foot switches, tubes and fittings

With locking function: The jaws of the grip open by pressing the foot pedal and remain opened after removing the foot from the pedal. The jaws close by pressing the pedal one more time.

Only for single action rods with spring inside.

Scope of delivery: 1 pair of foot switches including tubes and fittings



#### Mec 205 - ...+P R

Optional for Mec205-1 or Mec205-2

Pressure regulator

To adjust air pressure: 1-10 bar



#### Mec 205 - 3

1 unit of pneumatic hand switches, tubes and fittings

With locking function: Handle with 2 positions. The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.

Only for single action rods with spring inside.

Scope of delivery: 1 unit of hand switches including tubes and fittings



#### Mec 205 - 4

Pneumatic micro – hand switches, tubes and fittings

With locking function: The hand switches are directly installed at the grips (only for 1/8" couplings), 3/2 directional valve. Only for single action rods with spring inside. Scope of supply: 2 hand switches including tubes and fittings



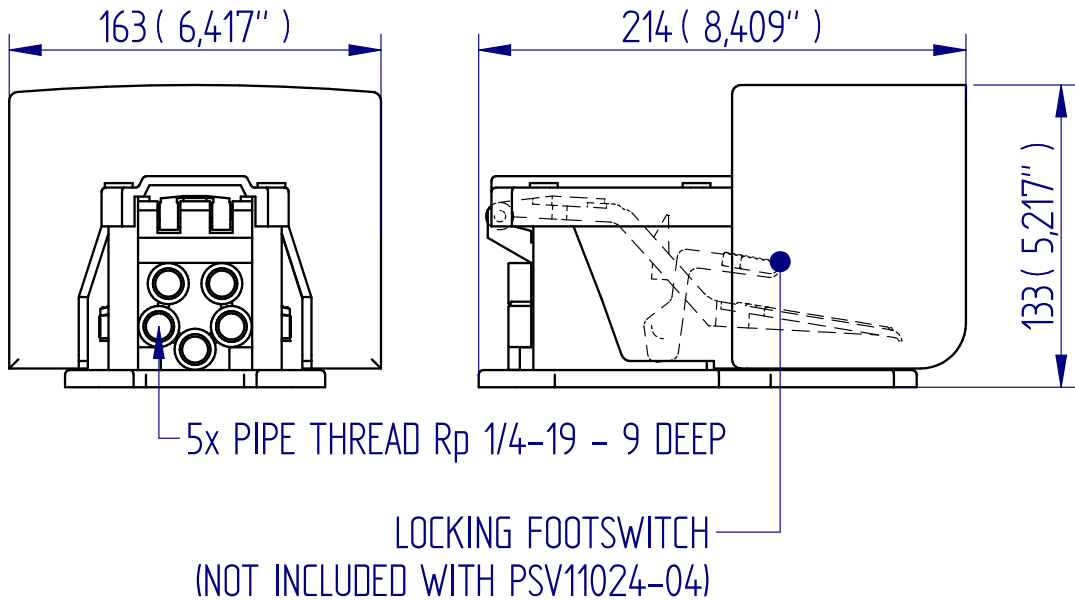
#### Mec 205 - 8

2 pneumatic foot switches, tubes and fittings

For double action rods. Grips like MecS321 or Mec109+Ko

Scope of delivery: 1 pair of foot switches including tubes and fittings

## Dimensions mm (inch)



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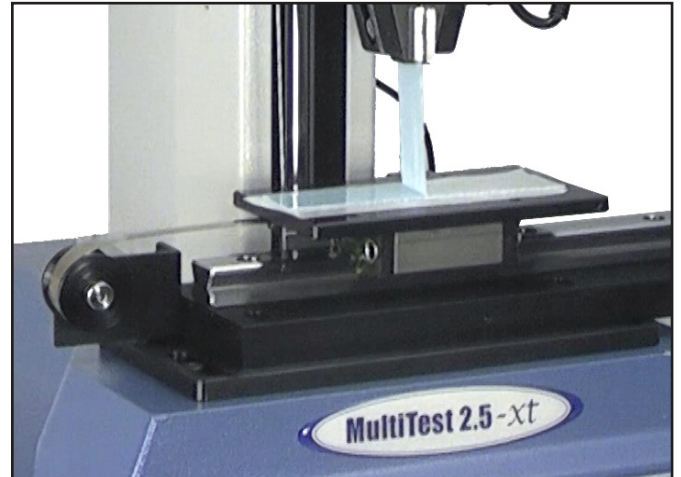
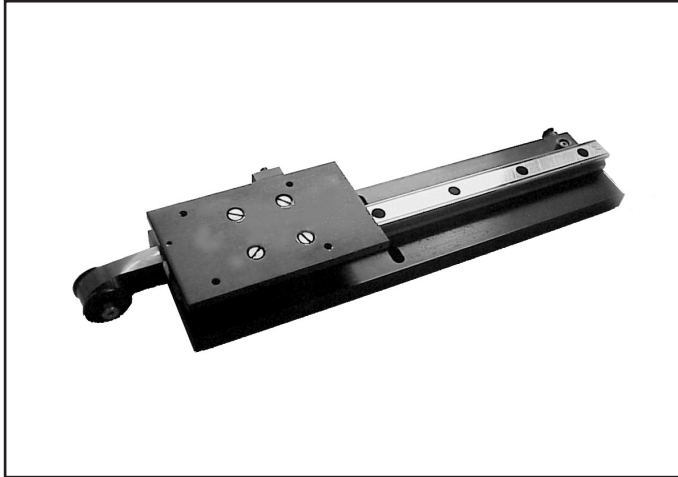
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## Assisted-Pull Peel Table



### Description

The assisted-pull peel table is fixed to the anvil plate and the crosshead of a test stand. The carriage of the peel table is directly driven horizontally by the vertical movement of the test stand crosshead, maintaining a constant 90 degree peel angle for the specimen.

### Applications

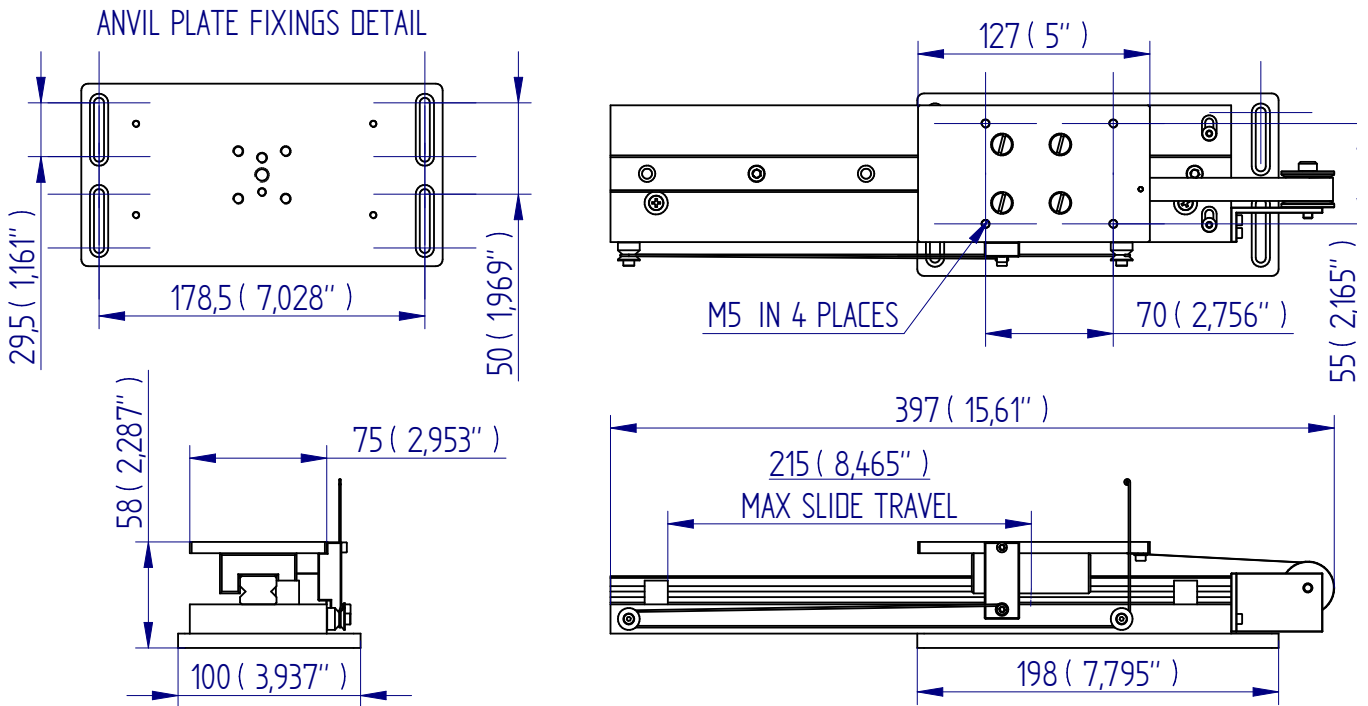
Used for peel testing of:

- adhesive tapes
- packaging
- flexible laminates

### Specifications

Part No.	Load Capacity			Length		Width		Height		Weight	
	500 N	50 kgf	110 lbf	397 mm	15.60"	100 mm	3.94"	58mm	2.28"	3.5 kg	7.7 lb
ACC008-208											

## Dimensions mm (inch)



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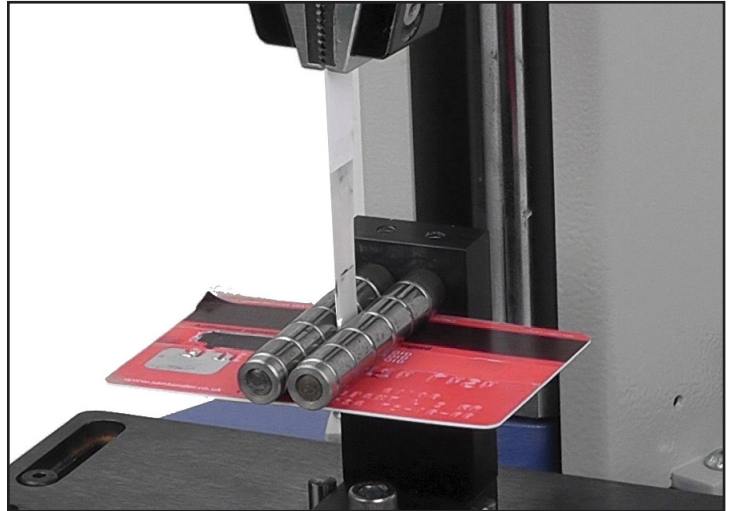
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## Floating Peel Jig



### Description

The floating peel jig is used to test flat samples with a flexible layer and a rigid or semi-rigid substrate, such as credit cards, and enables the card to move smoothly under the rollers while delamination tests are carried out. The fixture maintains a constant 90 degree peel angle for the specimen.

### Applications

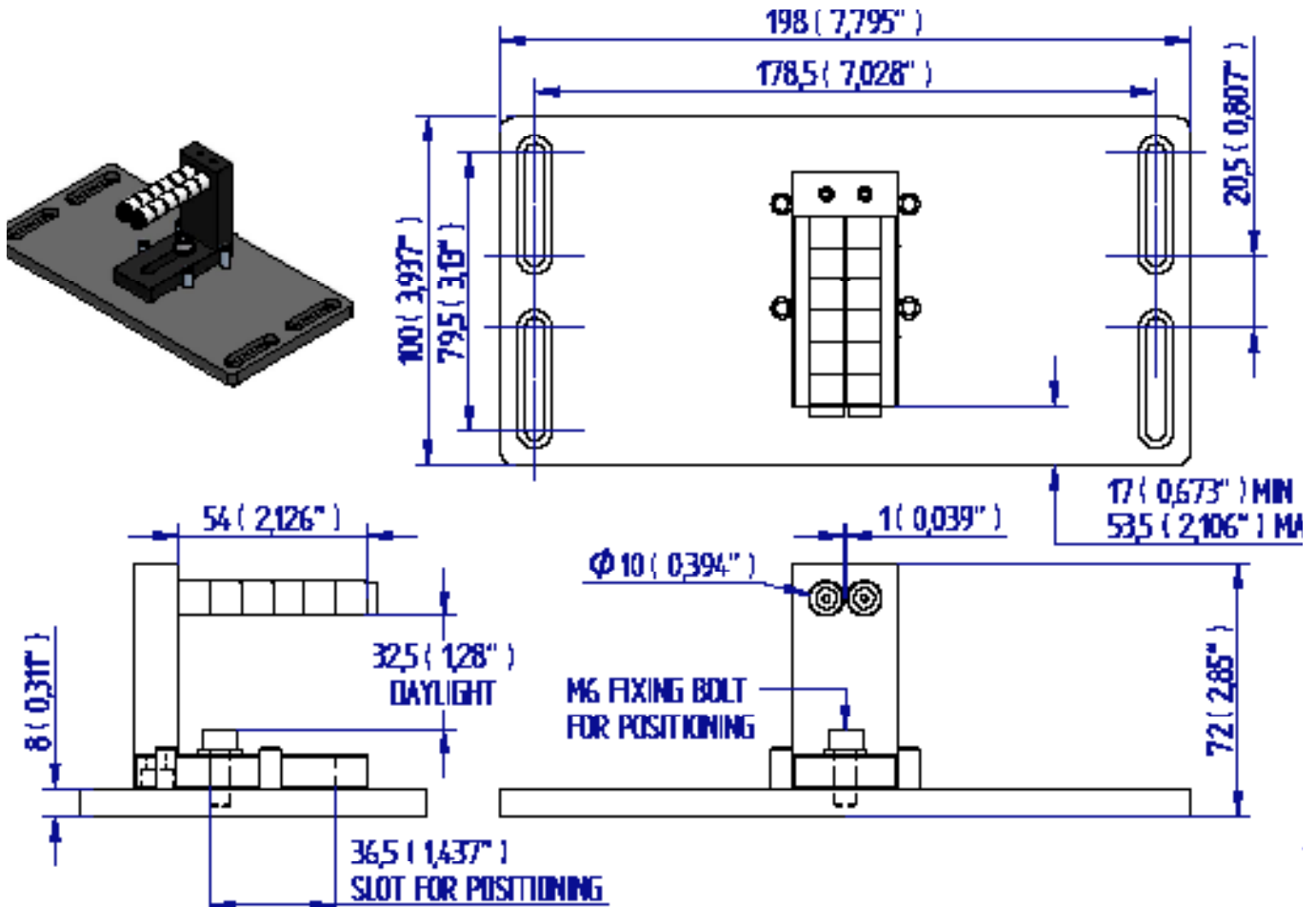
- films
- tapes
- laminates
- labels
- decals

### Specifications

Part No.	Load Capacity			Height	
	500 N	50 kgf	110 lbf	72 mm	2.85"
432-413	500 N	50 kgf	110 lbf	72 mm	2.85"



## Dimensions mm (inch)



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## Coefficient of Friction Fixture



### Description

The coefficient of friction fixture is designed to measure the coefficient of friction (COF) between two pieces of material. The COF test determines the kinetic and static resistance of one surface being dragged across another. Two versions available to test to the BS 2782 or ASTM D1894.

### Applications

Used for tensile testing of:

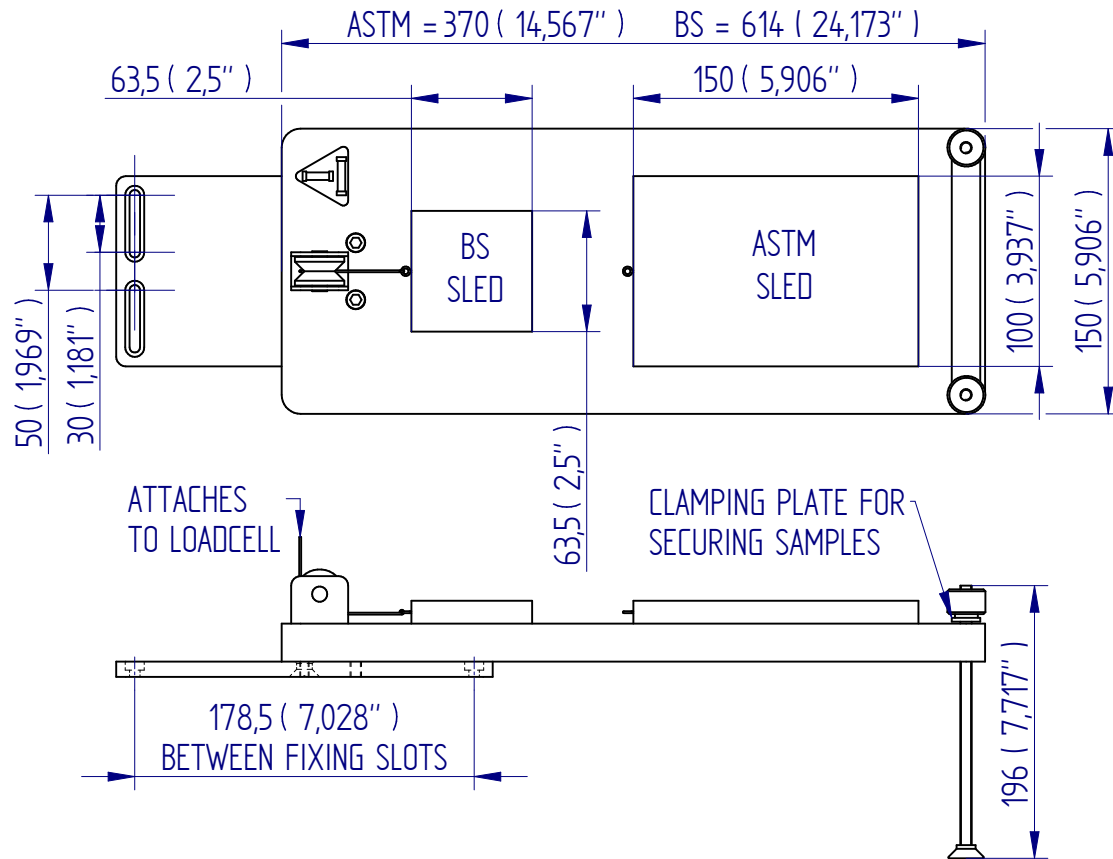
- plastic
- paper
- film
- foil

### Specifications

Part No.	Standard	Sled Dimensions		Length	
		mm	in	mm	in
432-145	BS 2782	150 x 100	5.91 x 3.94"	614	24.17"
432-144	ASTM D1894	63.5 x 63.5	2.48 x 2.48"	370	14.57"

## Dimensions mm (inch)

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## Pull Peel Wheel Fixture



### Description

The pull peel wheel fixture is designed for mounting to the base of a motorised test stand to test the peel strength of flexible adhesive-backed materials. Samples are wound around the wheel and the free end is clamped in a suitable upper grip connected to a loadcell. The minimal-friction bearing ensures a constant 90° peel angle.

### Applications

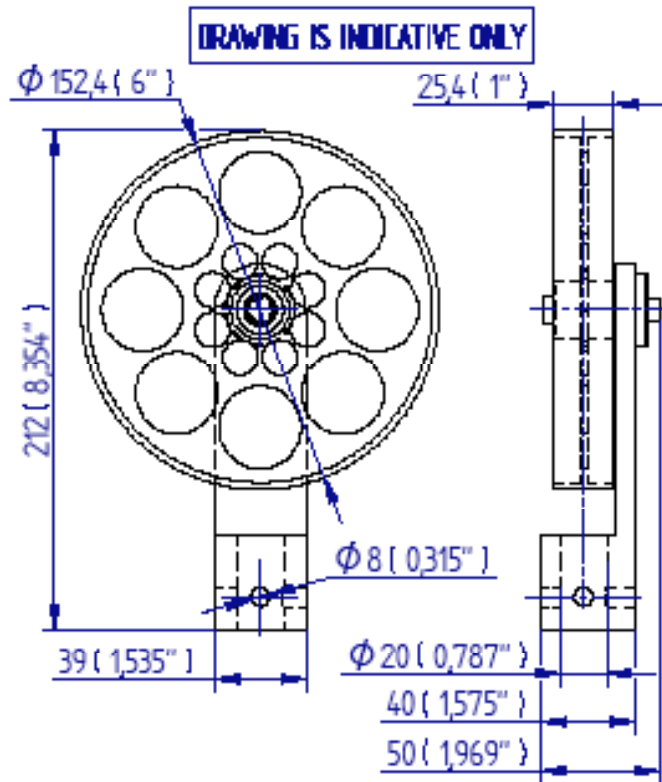
Used for peel testing of:

- laminated coatings
- adhesive-backed tape
- adhesive-backed films and foils

### Specifications

Part No.	Load Capacity			Post Ø	Rim Width		Wheel Diameter Ø		Height		Weight	
	200 N	20 kgf	44 lbf		25.4 mm	1.0"	152.4 mm	6.0"	212 mm	8.34"	246 g	0.54 lb
432-265	200 N	20 kgf	44 lbf	QC20	25.4 mm	1.0"	152.4 mm	6.0"	212 mm	8.34"	246 g	0.54 lb

## Dimensions mm (inch)



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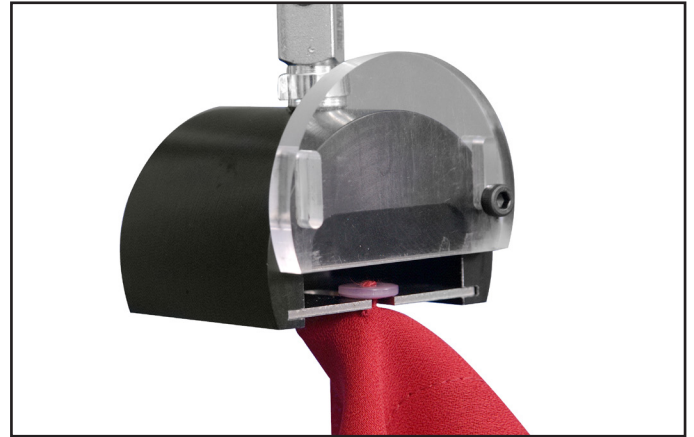
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## Button Pull-off Fixture with 3 Plates



### Description

This fixture engages the button shank in a slot for testing the tensile strength to failure. Three slotted interchangeable plates accommodate different shank diameters. A shatter-protection guard contains broken buttons. Typically used with the 25 mm / 50 mm 'grab test' textile fixture.

### Applications

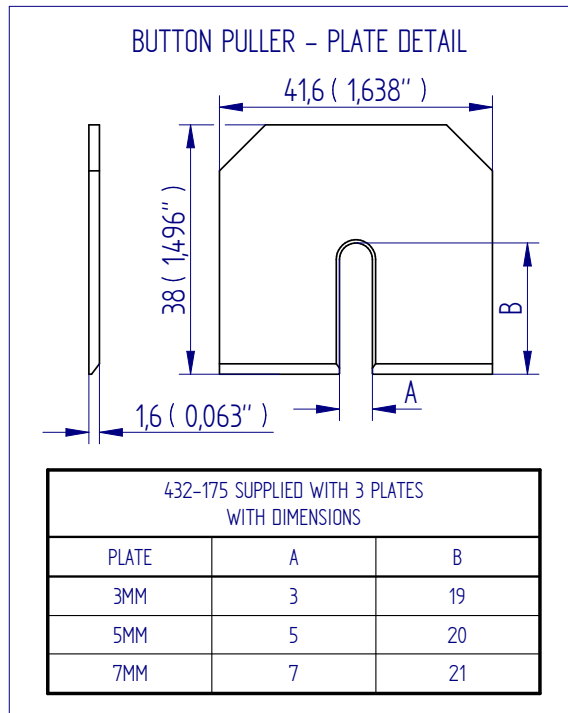
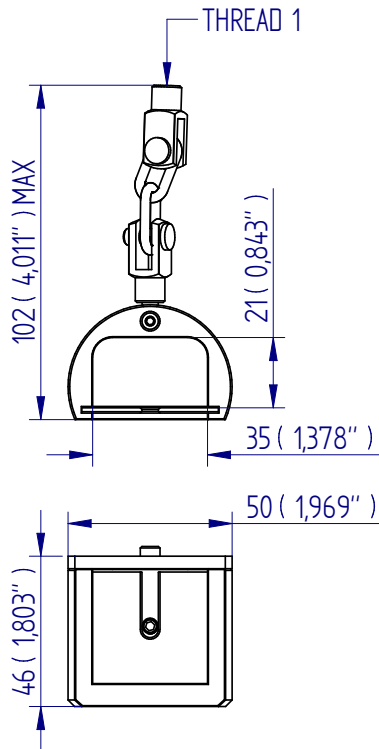
- buttons

### Specifications

Part No.	Load Capacity			Thread 1	Slot Widths			Max Button Ø		Length	
	500 N	50 kgf	110 lbf		3 mm / 5 mm / 7 mm	0.12" / 0.2" / 0.28"	35 mm	1.38"	102 mm	4.01"	
432-175	500 N	50 kgf	110 lbf	10/32 UNF	3 mm / 5 mm / 7 mm	0.12" / 0.2" / 0.28"	35 mm	1.38"	102 mm	4.01"	



## Dimensions mm (inch)



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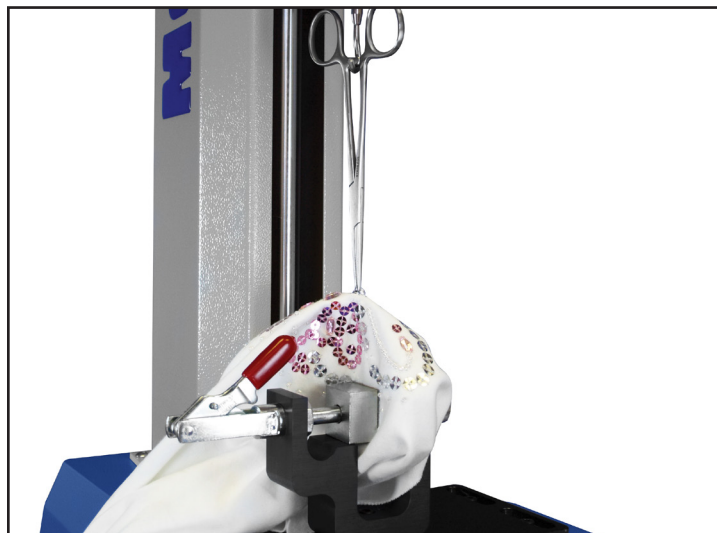
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## Sequin Pull-off Fixture



### Description

This fixture holds the sequin in the serrated jaw of a pair of clamping forceps hooked over a stainless steel test hook. The sample fabric is held in a suitable lower fixture mounted to the anvil plate - typically the 25 mm / 50 mm 'Grab Test' textile fixture.

### Applications

Used for pull-off testing of:

- clothing decoration

### Specifications

Part No.	Load Capacity			Thread 1	Length		Weight	
	50 N	5 kgf	11 lbf		157 mm	6.18"	20 g	0.04 lb
432-291	50 N	5 kgf	11 lbf	10/32 UNF	157 mm	6.18"	20 g	0.04 lb

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## Diamante Pull-off Fixture



### Description

This fixture allows an individual diamante to be placed directly over the pointed anvil edge on the lower part of the fixture, which features a sprung lock ring to hold the fabric in place. The upper part comprises a self-closing pincer jaw which is brought down quickly over the anvil, and then retracted at a constant test speed until it engages with the diamante and pulls it away from the material.

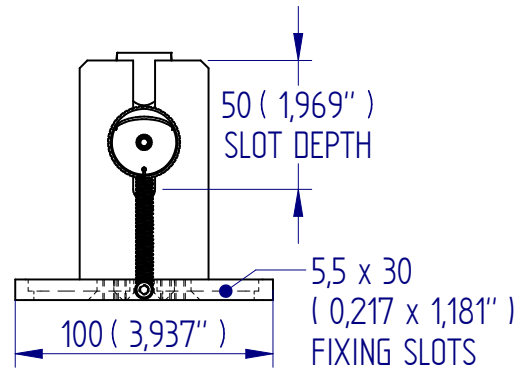
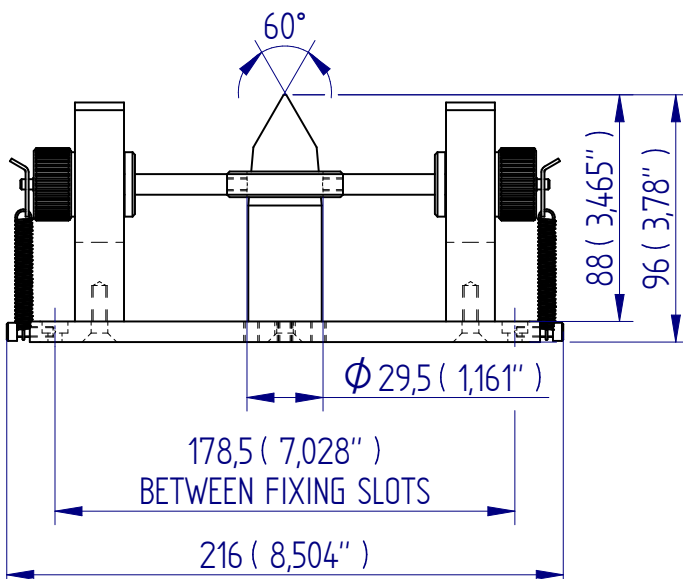
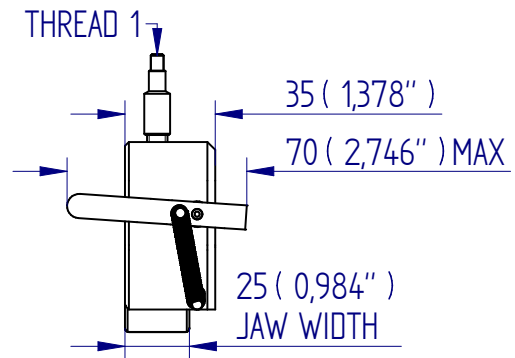
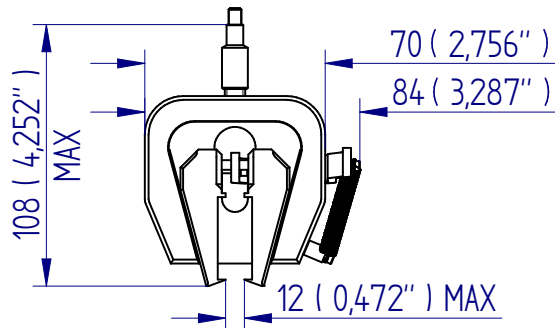
### Applications

- diamante

### Specifications

Part No.	Maximum Capacity			Thread 1	Jaw Capacity		Grip Length		Anvil Height	
	100 N	10 kgf	22 lbf		12 mm	0.47"	108 mm	4.25"	96 mm	3.78"
432-412	100 N	10 kgf	22 lbf	10-32 UNF	12 mm	0.47"	108 mm	4.25"	96 mm	3.78"

## Dimensions mm (inch)



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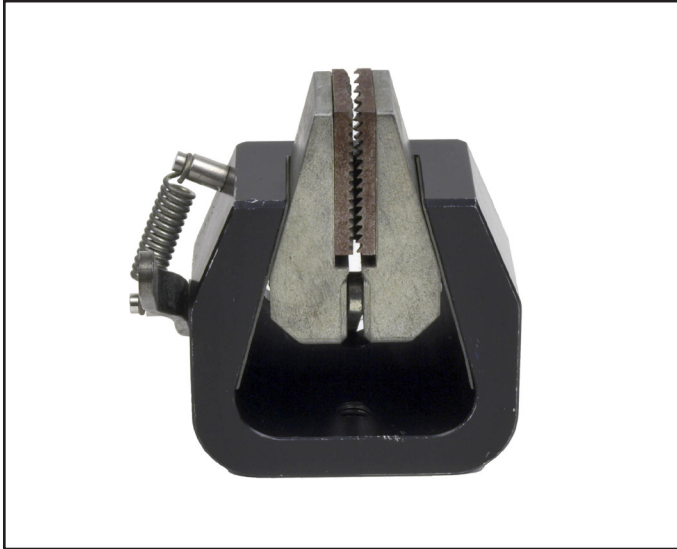
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## Modified Large Wedge Grip



### Description

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.

### Applications

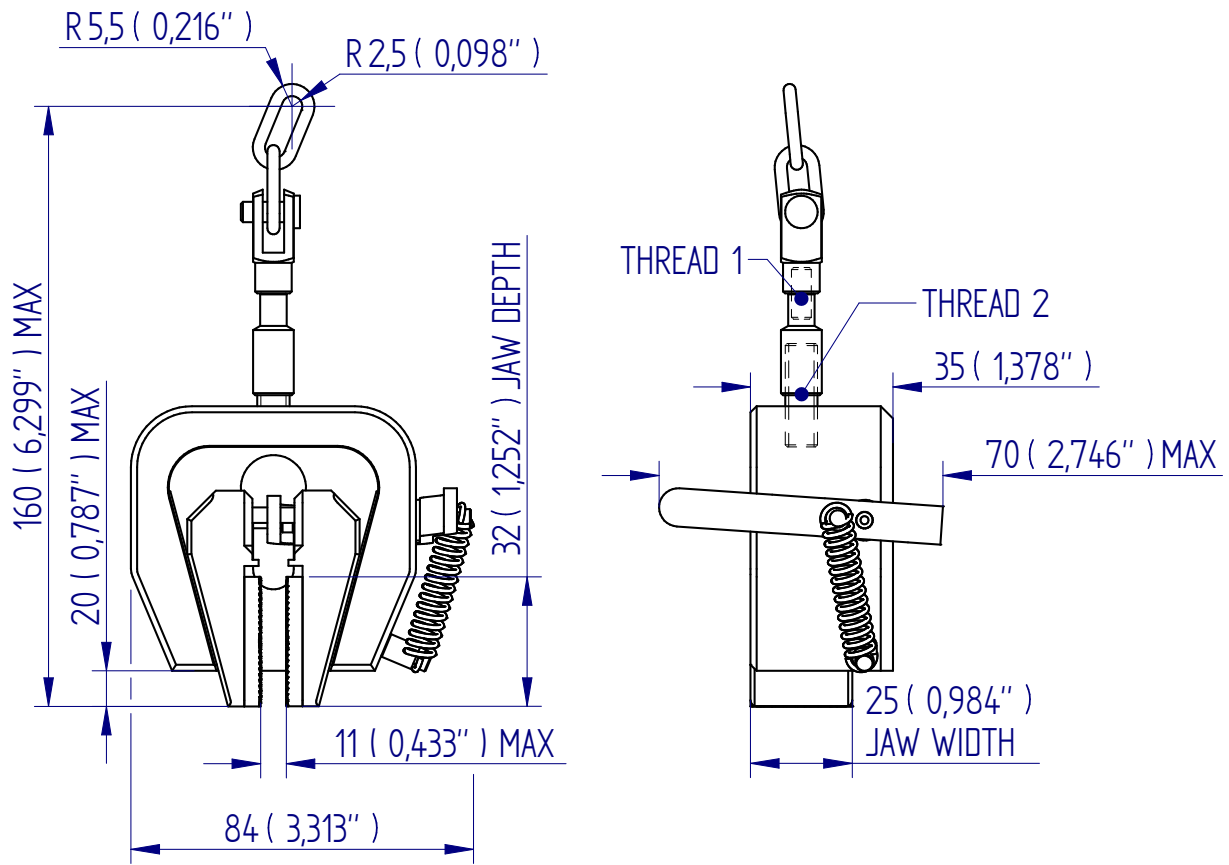
- poppers
- press studs

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	1 kN	100 kgf	225 lbf		11 mm	0.43"	25 mm	0.98"	160 mm	6.30"	166 g	0.37 lb
432-212	1 kN	100 kgf	225 lbf	10-32 UNF	11 mm	0.43"	25 mm	0.98"	160 mm	6.30"	166 g	0.37 lb



## Dimensions mm (inch)



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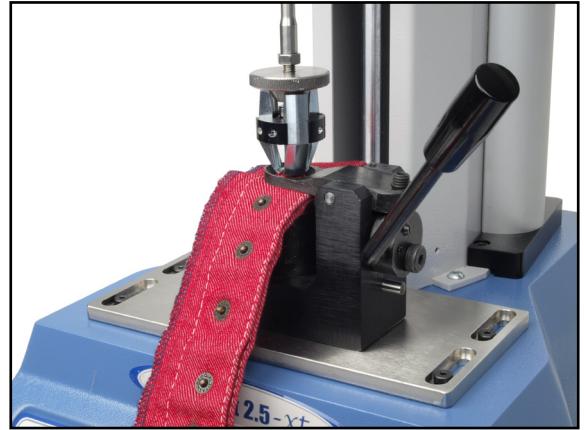
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## 3-Jaw Popper Pull-off Fixture



### Description

This fixture has 3 jaws and a swivelling action to securely hold 13-15 ligne poppers for tensile test to failure.

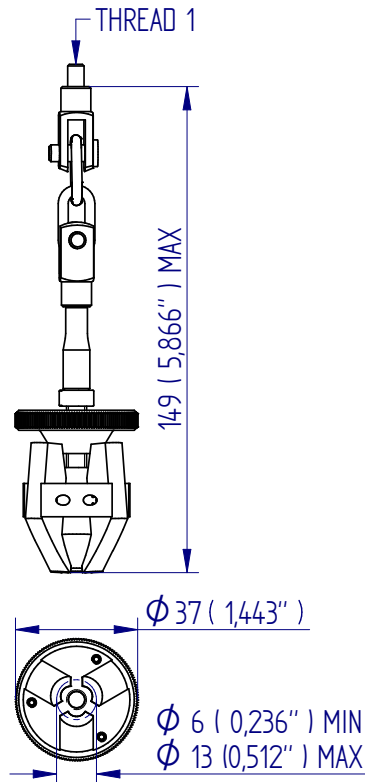
### Applications

- poppers
- press studs

### Specifications

Part No.	Load Capacity			Thread 1	Sample Min/Max Ø		Popper Size	Length		Weight	
	500 N	50 kgf	110 lbf		6 mm / 13 mm	0.24" / 0.51"		144 mm	5.67"	166 g	0.37 lb
432-409	500 N	50 kgf	110 lbf	M5	6 mm / 13 mm	0.24" / 0.51"	13 - 15 ligne	144 mm	5.67"	166 g	0.37 lb

## Dimensions mm (inch)



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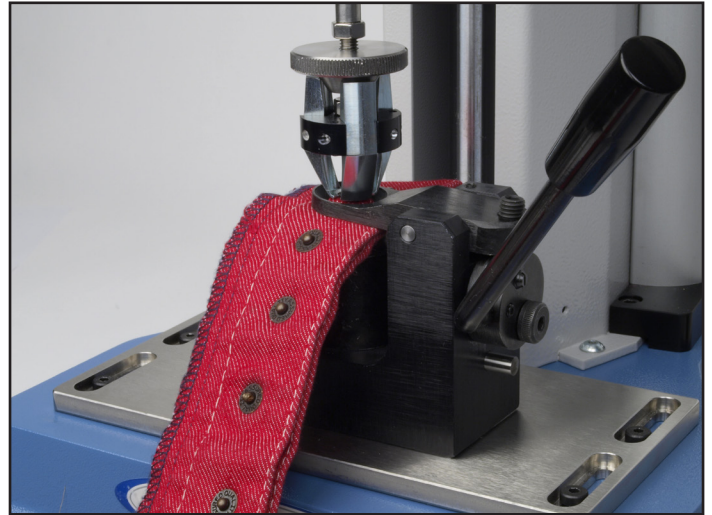
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## Popper Cam Base



### Description

The popper cam base is secured to the base of a test stand to test the strength of poppers and press studs. The popper is fed through the retaining hole and positioned over the retaining post. The lever of the cam mechanism is locked down to raise the popper with the fabric so that it can easily be gripped typically the 3-jaw popper pull-off fixture is used.

### Applications

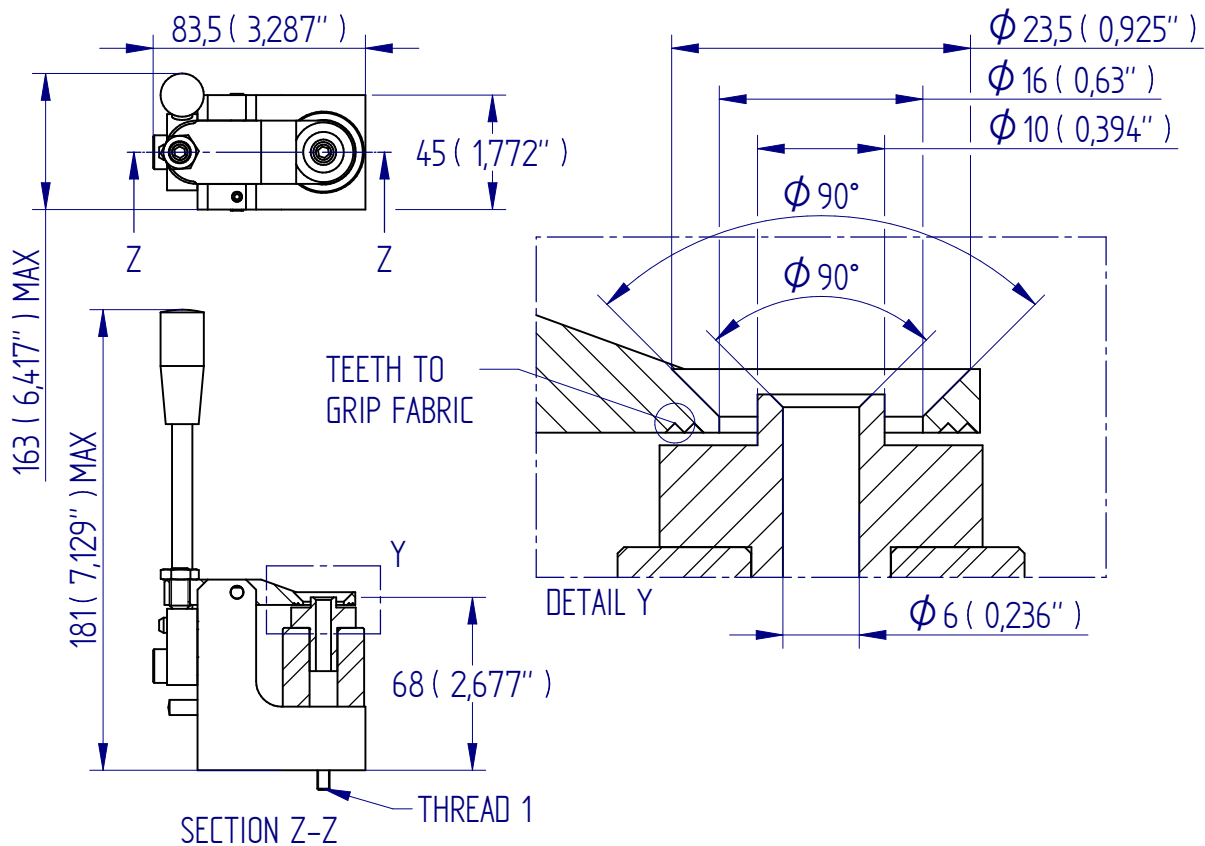
Used by clothing manufacturers for test-to-failure testing for compliance with BS 7907:2007 on

- poppers and press studs

### Specifications

Part No.	Load Capacity			Thread	Popper Size	Length		Weight	
	1 kN	100 kgf	225 lbf			68 mm	2.68"	760 g	1.7 lb
432-179	1 kN	100 kgf	225 lbf	10-32 UNF	13 - 15 ligne	68 mm	2.68"	760 g	1.7 lb

## Dimensions mm (inch)



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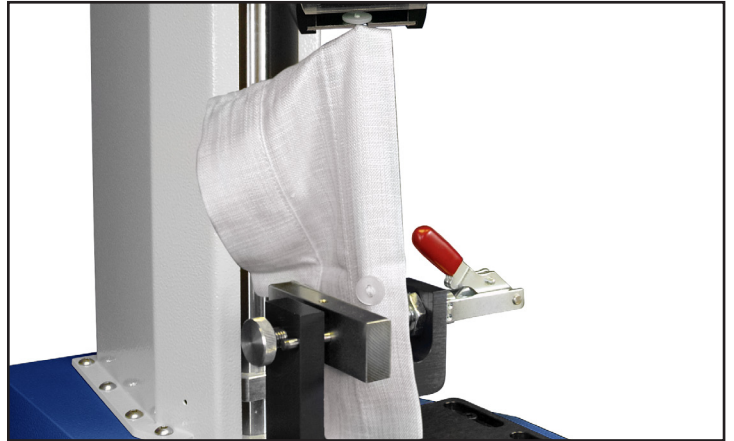
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## 25 mm/50 mm 'Grab Test' Textile Fixture



### Description

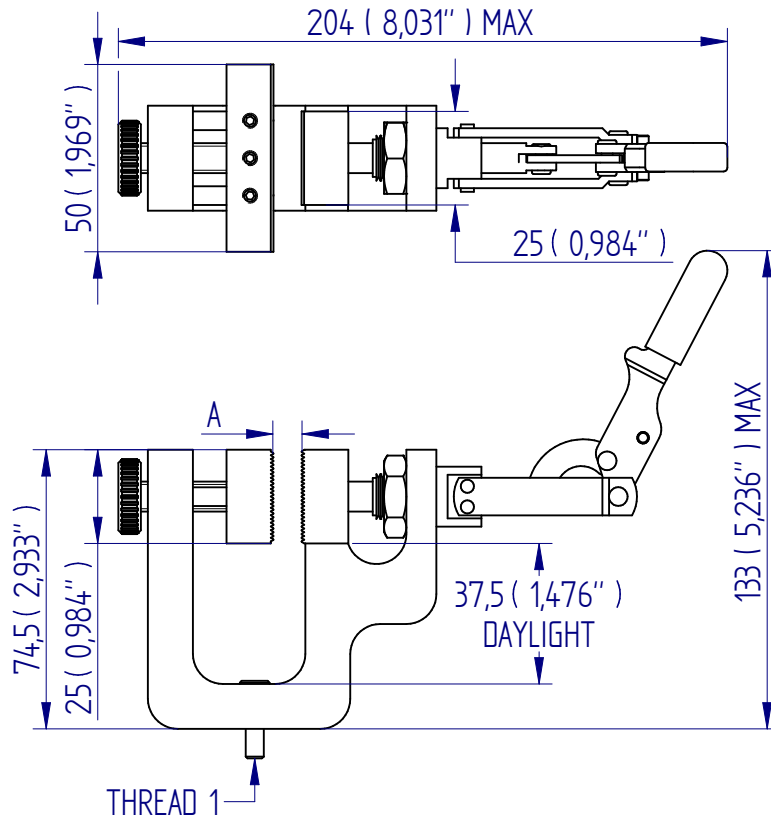
The 25 mm/50 mm 'grab test' textile fixture has two different-sized jaws to comply with standard methods for textile strength and elongation.

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Height		Weight	
	500 N	50 kgf	110 lbf		6.5 mm	0.26"	25 mm	0.98"	74 mm	2.91"	400 g	0.88 lb
432-323	500 N	50 kgf	110 lbf	10/32 UNF	6.5 mm	0.26"	25 mm	0.98"	74 mm	2.91"	400 g	0.88 lb



## Dimensions mm (inch)



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## Extended Peg Hook (Bow Pull-off Test)



### Description

The extended peg hook is used for securely attaching samples of decorations when carrying out test-to-failure tests on textiles and clothing adornments, for example a bow. Often used with the 25 mm / 50 mm 'grab test' textile fixture.

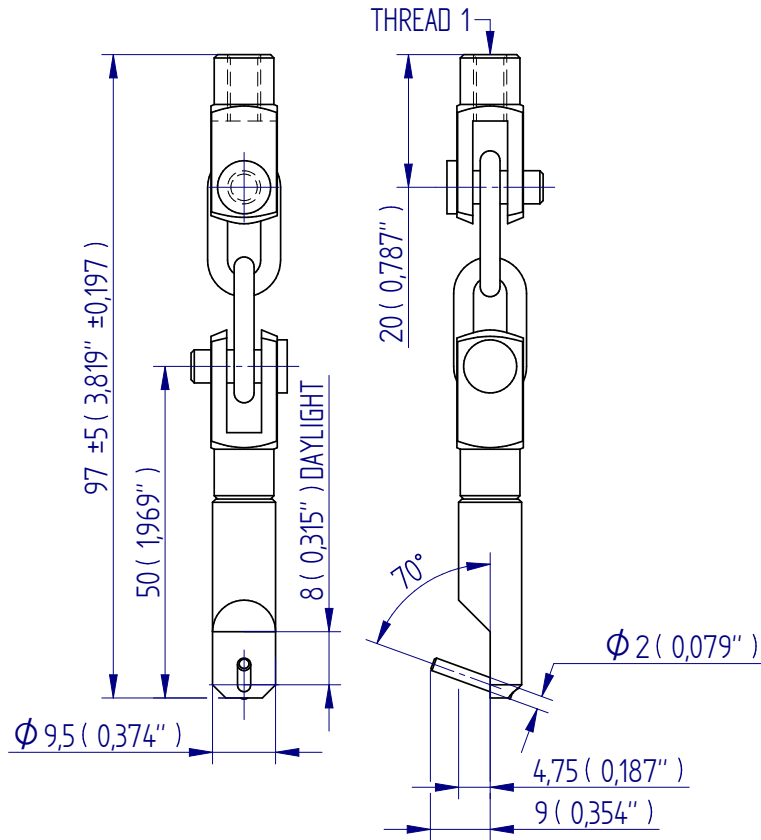
### Applications

- bows and loops

### Specifications

Part No.	Load Capacity			Thread 1	Length (A)		Peg Length		Peg Ø		Weight	
	50 N	5 kgf	11 lbf		97 mm	3.82"	9 mm	0.35"	2 mm	0.08"	42 g	0.09 lb
432-181				10/32 UNF								

## Dimensions mm (inch)



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## Pinch Grip (for testing bows, applique, patches)



### Description

Pinch grips are lightweight miniature vice grips, which use a hinge action to grab a sample and a wing nut to tighten the jaw face. Each jaw face has a slight groove to hold the sample securely, yet avoid inducing a break within the grip.

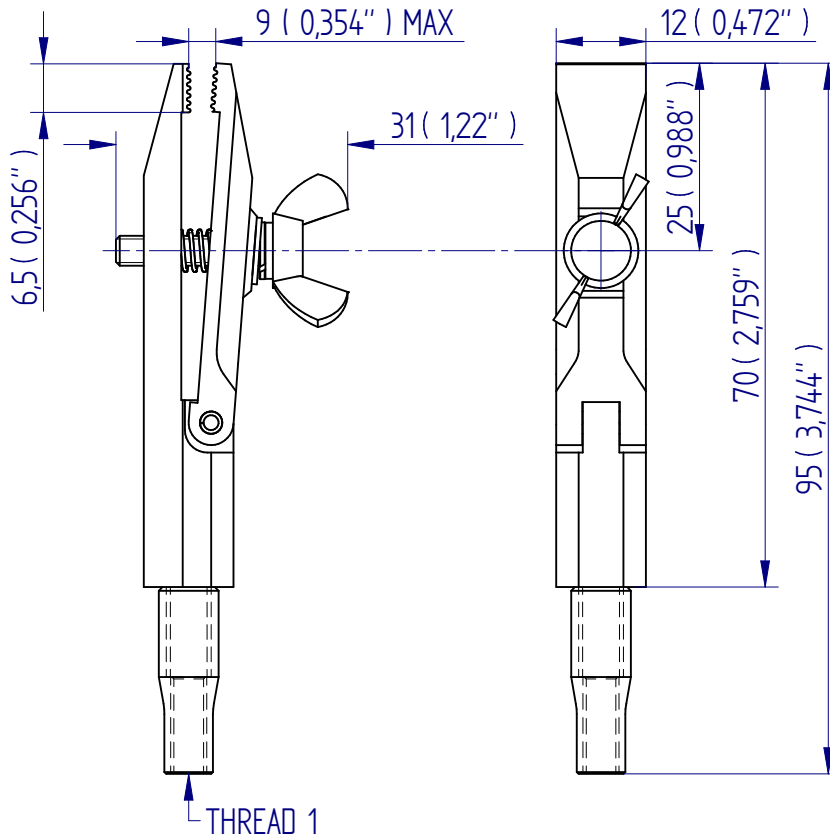
### Applications

- thin film
- tissue
- woven yarn

### Specifications

Part No.	Load Capacity			Thread 1	Jaw Capacity		Jaw Width		Length		Weight	
	200 N	20 kgf	44 lbf		9 mm	0.35"	12 mm	0.47"	95 mm	3.744"	70 g	0.15 lb
432-280	200 N	20 kgf	44 lbf	M6	9 mm	0.35"	12 mm	0.47"	95 mm	3.744"	70 g	0.15 lb

## Dimensions mm (inch)



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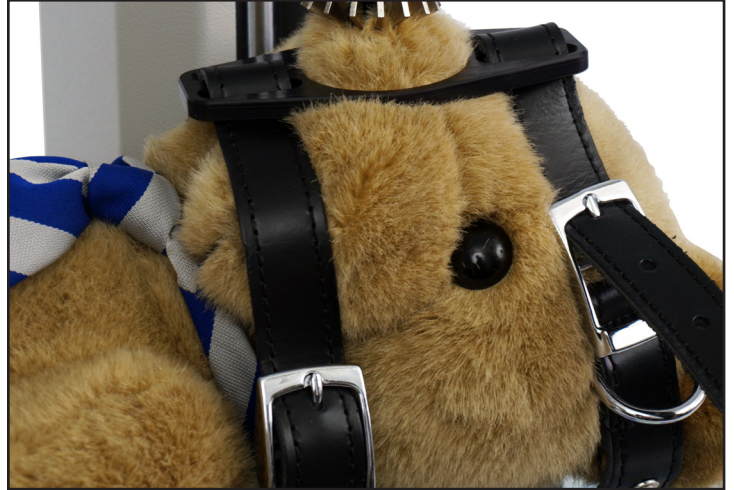
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## Teddy Bear Fixture



### Description

The teddy bear fixture is designed to comply with Toy Safety Standard BS 5665 Part 1:1989, EN 71 PART 1: 1988; testing the integrity of attachments. Base plate included for use with MultiTest-*d* and MDD. Often used with the multi-jaw grip.

### Applications

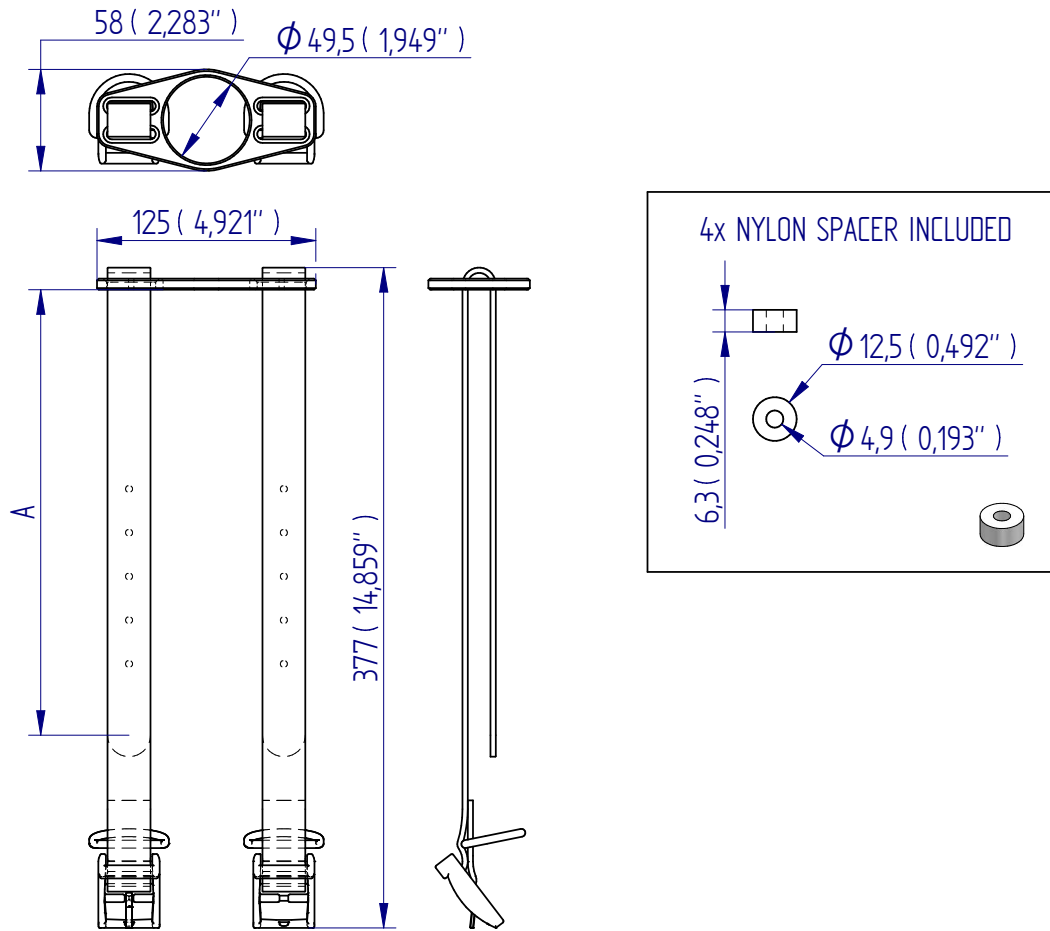
- toys

### Specifications

Part No.	Load Capacity			Effective Length (A)		Width		Depth		Diameter Ø	
	500 N	50 kgf	110 lbf	270 mm	10.6"	125 mm	4.92"	58 mm	2.28"	49.5 mm	1.95"
432-393	500 N	50 kgf	110 lbf	270 mm	10.6"	125 mm	4.92"	58 mm	2.28"	49.5 mm	1.95"



## Dimensions mm (inch)



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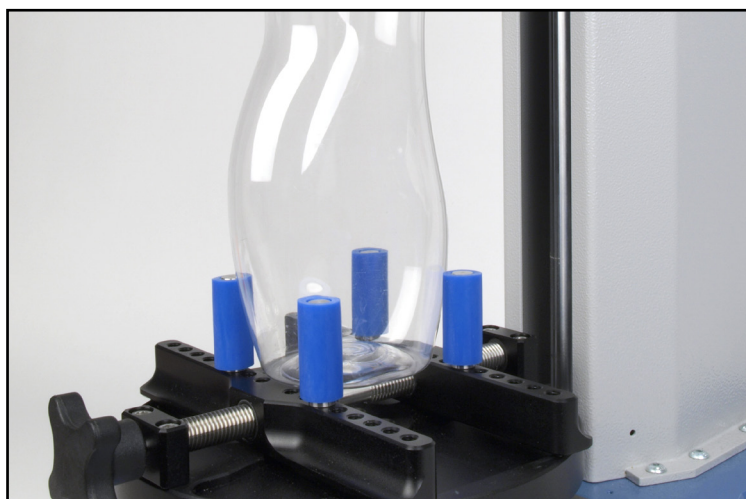
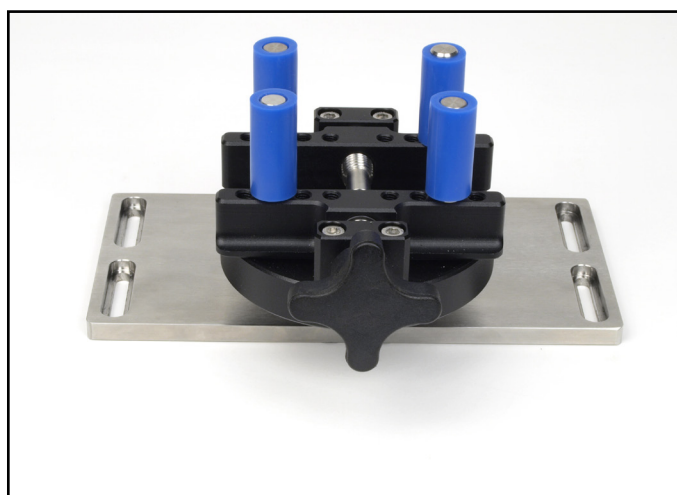
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## Container Holder (4-peg adjustable)



### Description

The 4-peg container holder is designed to securely hold different shapes and sizes of containers during tensile testing. Available in two ranges of adjustability.

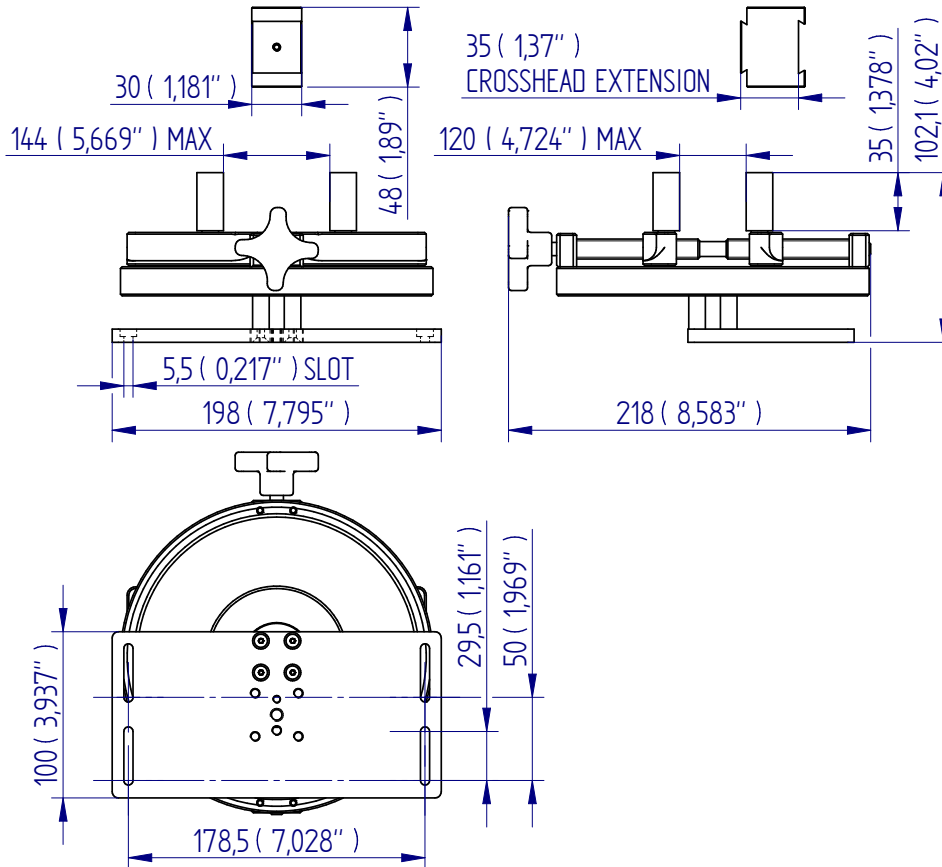
### Applications

- plastic containers

### Specifications

Part No.	Load Capacity			Thread 1	Container Min./Max. Ø		Height	
	100 N	10 kgf	22 lbf		10 mm / 190 mm	0.39" / 7.48"	102 mm	4.00"
432-411	100 N	10 kgf	22 lbf	4 x M5	10 mm / 190 mm	0.39" / 7.48"	102 mm	4.00"
432-493	100 N	10 kgf	22 lbf	4 x M5	10 mm / 78 mm	0.39" / 3.07"	103 mm	4.04"

## Dimensions mm (inch)



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## Cork Extraction Test Rig



### Description

The cork extraction test rig is used to test the extraction force of bottle stoppers. It has a bottle cradle with an antislip surface and is easily adjusted to accommodate different bottle heights, e.g. 200 ml to 750 ml. It is used in conjunction with corkscrew test accessories suitable for testing natural and synthetic corks.

### Applications

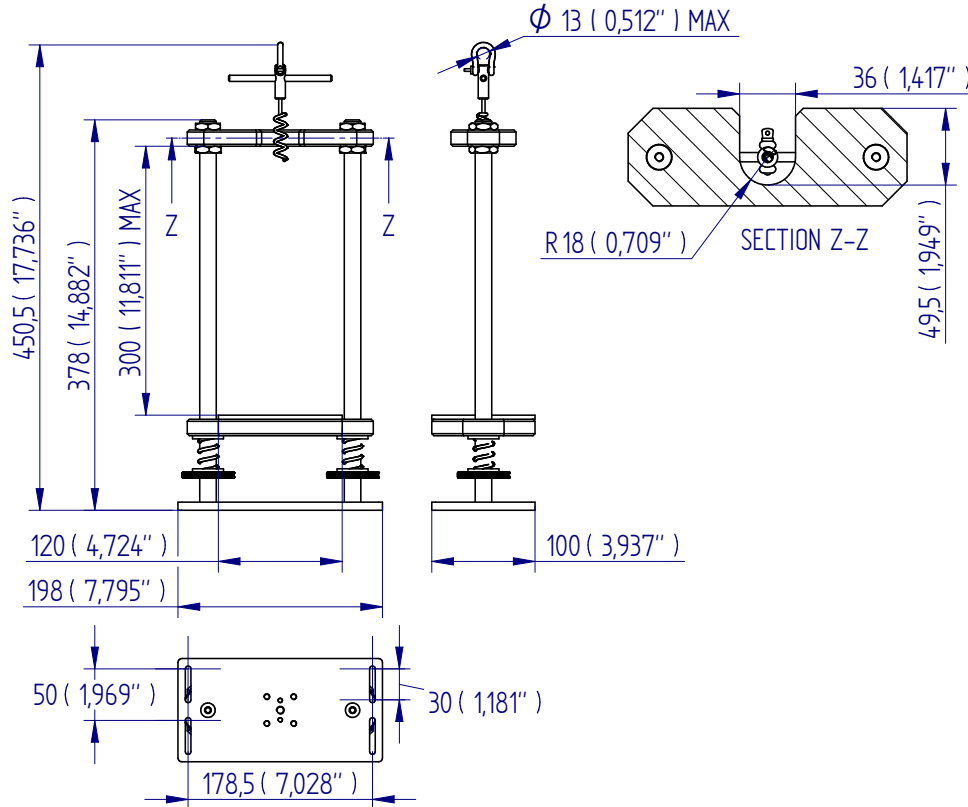
Used for extraction testing of:

- corks
- stet

### Specifications

Part No.	Load Capacity			Thread 1	Loop Diameter Ø		Length	
	1 kN	100 kgf	225 lbf		13 mm	0.51"	450.5 mm	17.74"
PDV11086	1 kN	100 kgf	225 lbf	4x M5	13 mm	0.51"	450.5 mm	17.74"

## Dimensions mm (inch)



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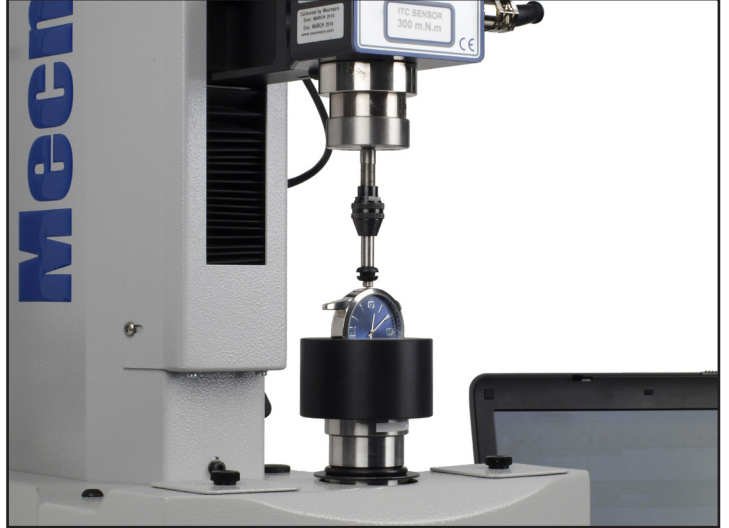
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## Pin Chucks



### Description

Pin chucks are specifically designed for gripping circular or rod-type specimens, or needles for sharpness testing.

### Applications

Used for tensile testing of:

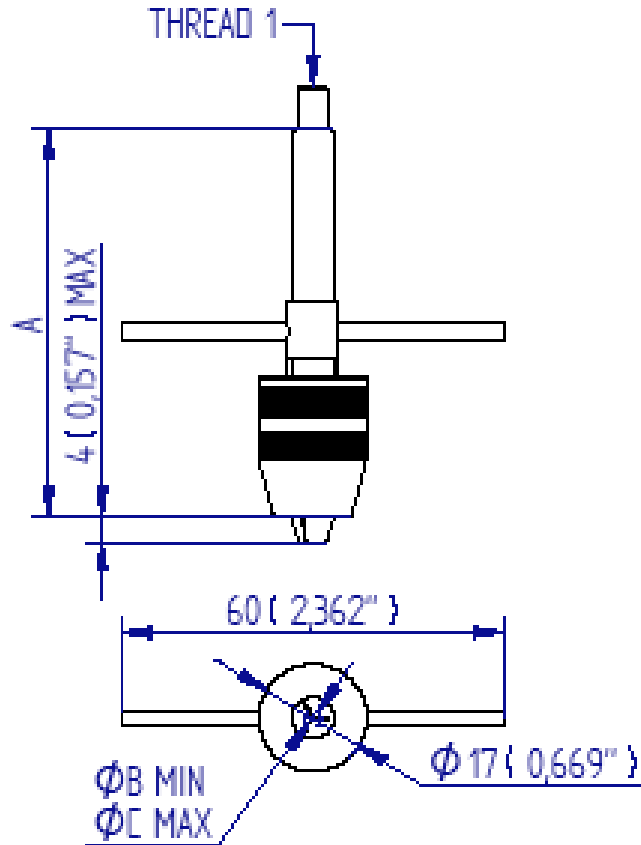
- Pin or rod components

### Specifications

Part No.	Load Capacity			Thread 1	Capacity Min./Max. Ø		Length		Weight	
	100 N	10 kgf	22 lbf		0.5 mm - 3.5 mm	0.02" - 0.14"	61 mm	2.40"	36 g	0.08 lb
432-382	100 N	10 kgf	22 lbf	10-32 UNF	0.5 mm - 3.5 mm	0.02" - 0.14"	61 mm	2.40"	36 g	0.08 lb
432-214	100 N	10 kgf	22 lbf	M6	0.5 mm - 3.5 mm	0.02" - 0.14"	86 mm	3.39"	36 g	0.08 lb



## Dimensions mm (inch)



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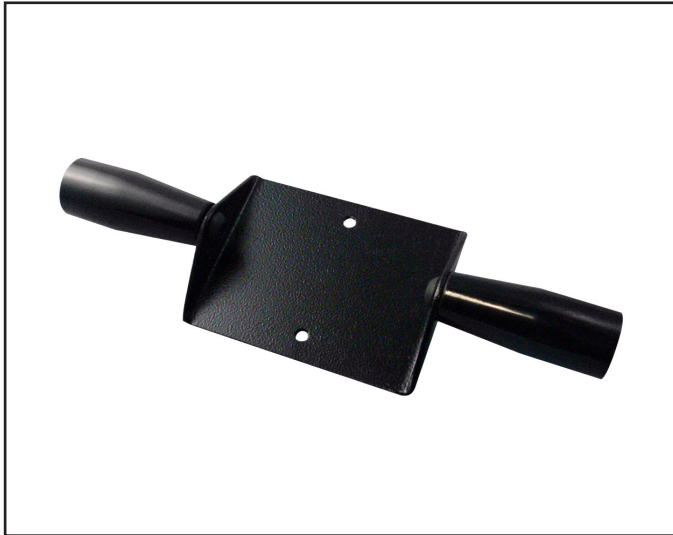
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## Force Gauge Gripping Cradle



### Description

This cradle allows Mecmesin gauges to be used more easily as hand-held instruments. The dual-handle design allows the comfortable application of push/pull loads, with increased stability. Attachment screws supplied.

### Applications

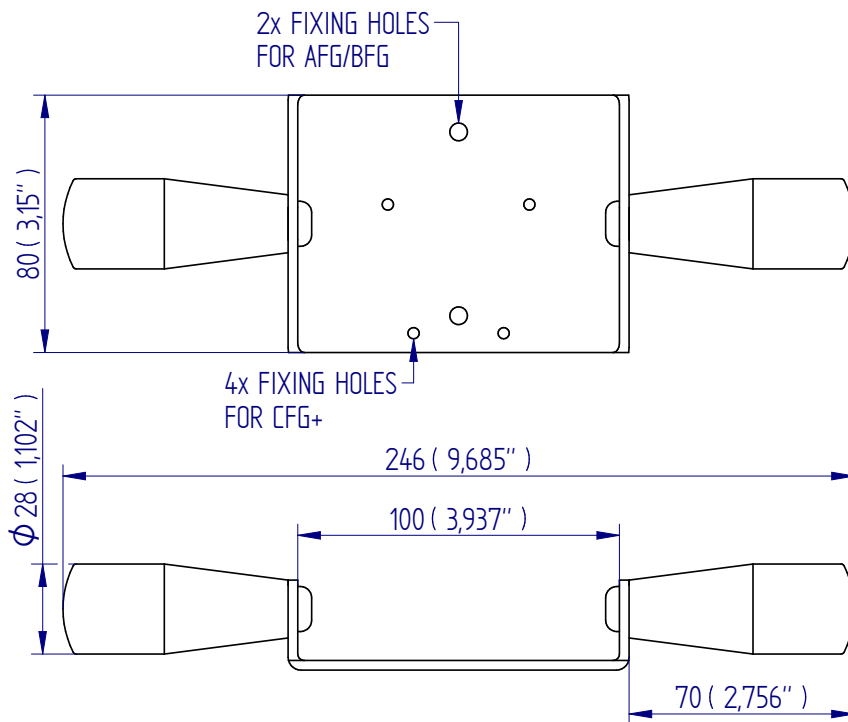
Used to evaluate the ergonomics and force application characteristics of:

- doors
- filing cabinets
- emergency push bars
- handles and controls

### Specifications

Part No.	Load Capacity			Handle Diameter (Ø)		Handle Length		Width	
	2.5 kN	250 kgf	550 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"
432-388	2.5 kN	250 kgf	550 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"

## Dimensions mm (inch)



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## Pistol Grip



### Description

The pistol grip is attached to a Mecmesin force gauge to add comfort and stability in applications where only single-handed operation is possible.

### Applications

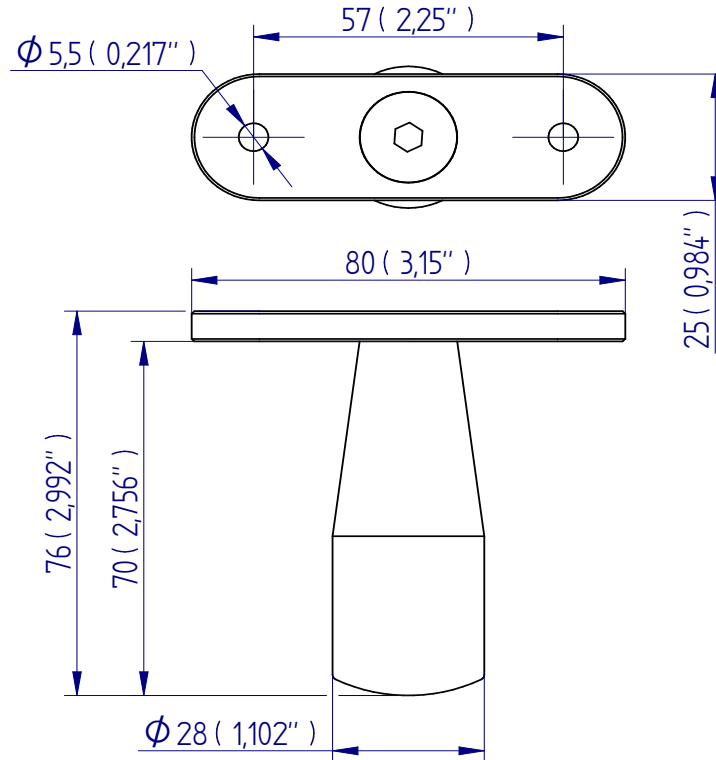
Used to evaluate the ergonomics and force application characteristics of:

- doors
- filing cabinets
- emergency push bars
- handles and controls with restricted access

### Specifications

Part No.	Load Capacity			Handle Diameter (Ø)		Handle Length		Width	
	500 N	50 kgf	110 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"
432-389	500 N	50 kgf	110 lbf	28 mm	1.1"	70 mm	2.76"	246 mm	9.69"

## Dimensions mm (inch)



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## Trolley Pushing Fixture



### Description

The trolley-pushing fixture has been designed to attach to trolleys, carts and wheelie bins so that manual handling measurements can be made more easily. Typically used with a force gauge fitted to the force gauge gripping cradle or pistol grip (order separately).

### Applications

Used to evaluate the ergonomics and force application characteristics of:

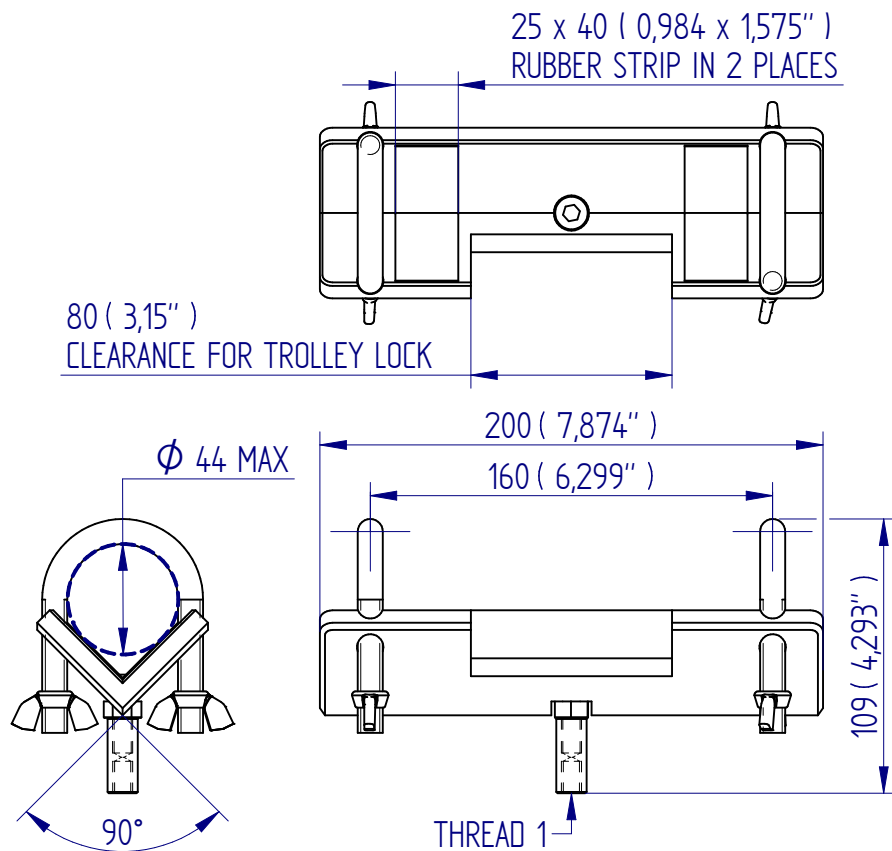
- trolleys
- carts
- wheelie bins

### Specifications

Part No.	Load Capacity			Gripping Diameter (Ø)		Width		Width between Fixings	
	1 kN	100 kgf	225 lbf	44 mm	1.73"	200 mm	7.87"	160 mm	6.3"
432-405	1 kN	100 kgf	225 lbf	44 mm	1.73"	200 mm	7.87"	160 mm	6.3"



## Dimensions mm (inch)



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## Chain Link and Hook Assembly



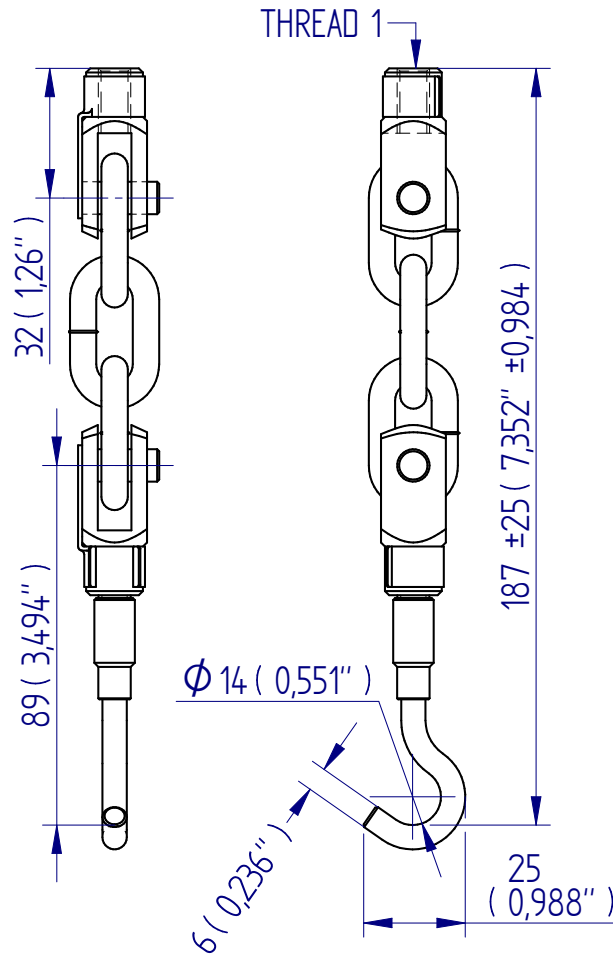
### Description

The chain link and hook assembly is used to attach to a variety of objects, which are otherwise difficult to hold. The chain is 1 m long and is supplied with a clevis fastener at each end.

### Specifications

Part No.	Load Capacity			Thread 1	Max. Sample Diameter		Length	
	2.5 kN	250 kgf	550 lbf		14 mm	0.55"	187 ±25 mm	7.352" ±0.98"
432-410	2.5 kN	250 kgf	550 lbf	5/16 UNC	14 mm	0.55"	187 ±25 mm	7.352" ±0.98"

## Dimensions mm (inch)



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## Padded Radiused Probe



### Description

The padded radiused probe is specially designed for use against limbs for rehabilitation and physical therapy assessment. Use with a short extension rod.

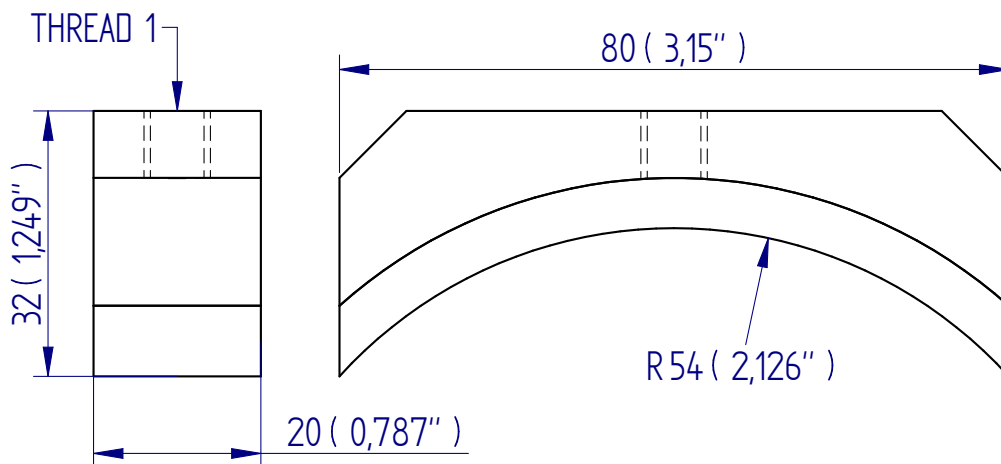
### Applications

- physical therapy assessments
- leg extension tests

### Specifications

Part No.	Load Capacity			Thread 1	Radius		Height		Width	
	500 N	50 kgf	110 lbf		54 mm	2.13"	32 mm	1.249"	80 mm	3.15"
432-414	500 N	50 kgf	110 lbf	5/16 UNC	54 mm	2.13"	32 mm	1.249"	80 mm	3.15"

## Dimensions mm (inch)



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## Transit Case for Manual Handling/Ergonomic Kit



### Description

A foam-lined rugged metal case for the components of the advanced or basic manual handling kit. Supplied as standard with the kit, has space for: a force gauge including rechargeable batteries, mains adapter/battery charger, gripping cradle, chain link assembly, fixing strap, 50 mm rubber-faced compression plate and test hook.

### Specifications

Part No.	Weight	
416-007	2.61 kg	5.76 lb





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## Adaptor/Charger for use with AFG/AFTI/BFG



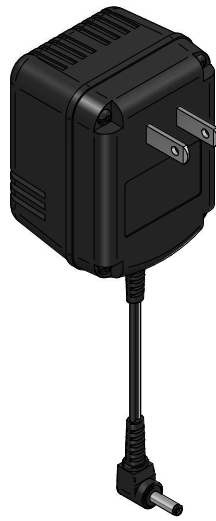
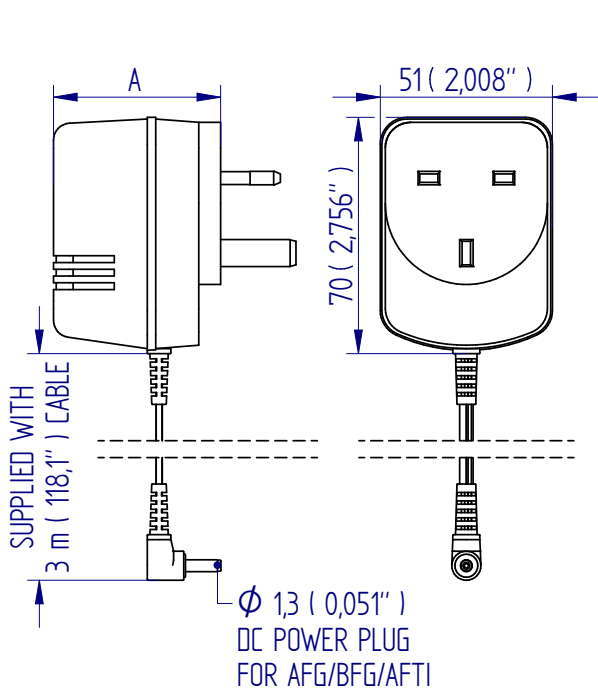
### Description

For use with Mecmesin AFG/BFG digital gauges and the AFTI universal display. Versions for specific geographical locations are available.

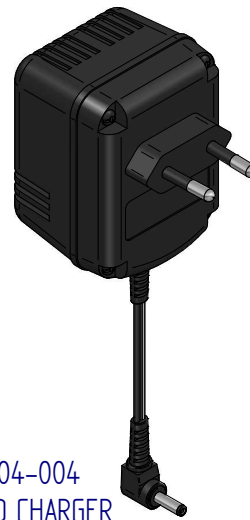
### Specifications

Part No.	Region	Voltage	Pins	Type
304-004	Europe	230 V	2-pin	Round
304-005	UK	230 V	3-pin	Square
304-006	USA	110 V	2-pin	Flat

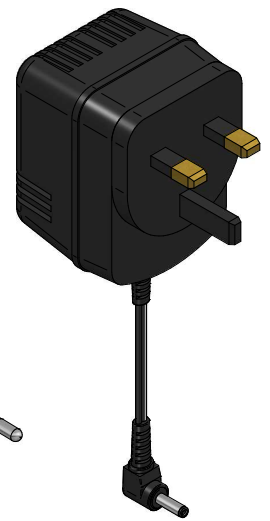
## Dimensions mm (inch)



304-006  
USA CHARGER



304-004  
EURO CHARGER



304-005  
UK CHARGER

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## Adaptor/Charger for Use With CFG<sup>+</sup>



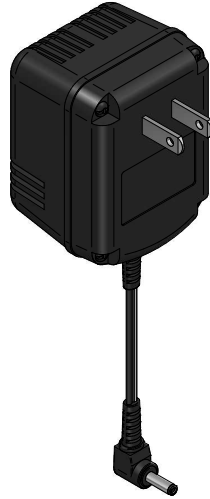
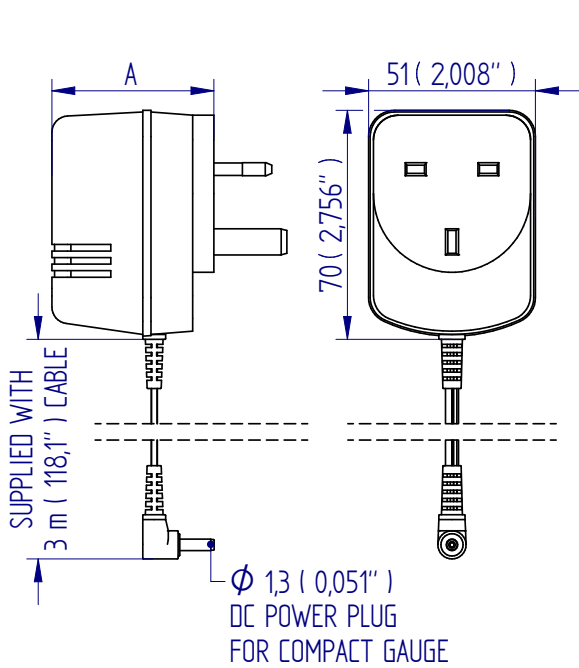
### Description

For use with the Mecmesin CFG+ digital gauge. Versions for specific geographical locations are available.

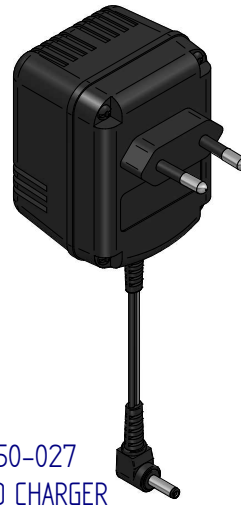
### Specifications

Part No.	Region	Voltage	Pins	Type
350-026	Europe	230 V	2-pin	Round
350-027	UK	230 V	3-pin	Square
350-028	USA	110 V	2-pin	Flat

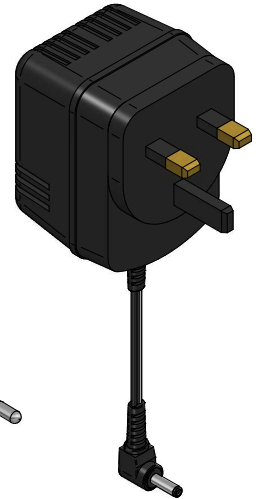
## Dimensions mm (inch)



350-028  
USA CHARGER



350-027  
EURO CHARGER



350-026  
UK CHARGER

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## MDD Horizontal Feet Kit



### Description

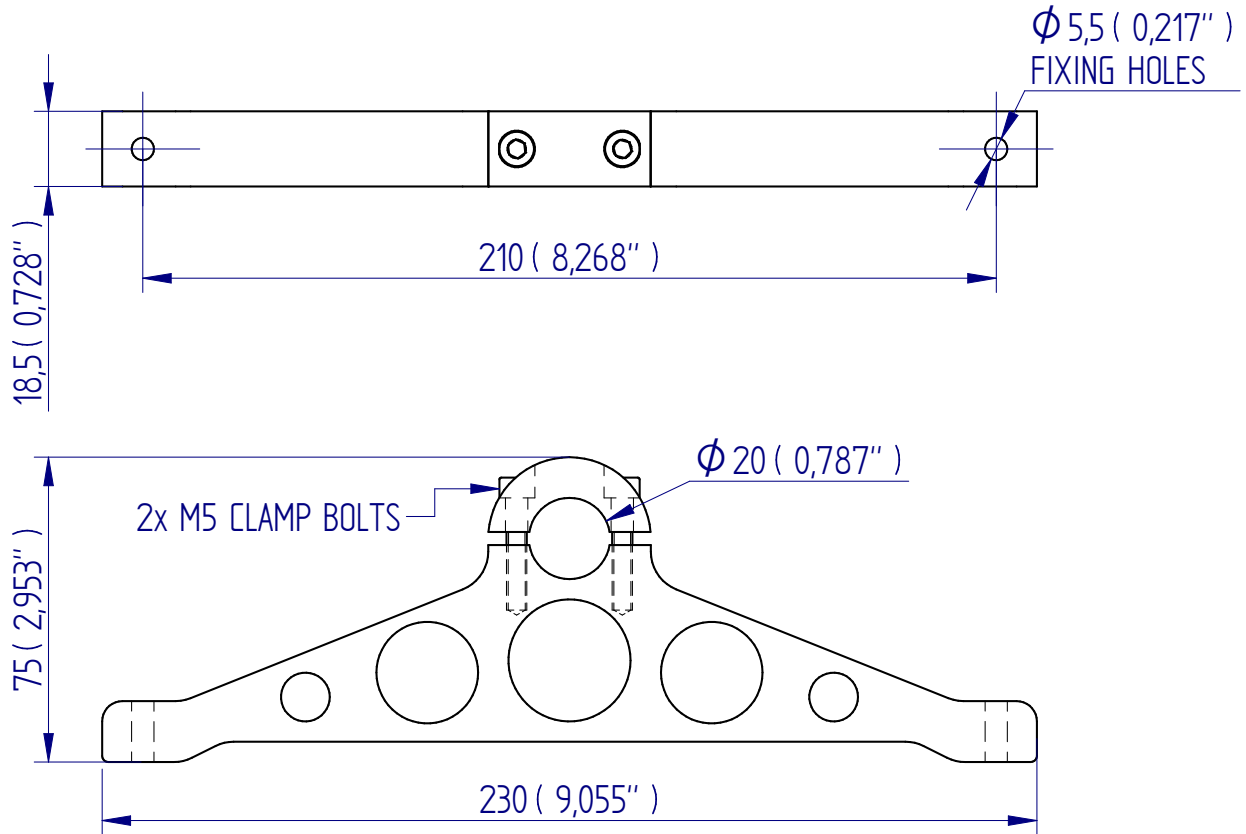
The MDD horizontal feet kit allows for the horizontal operation of the MDD manual test stand

### Specifications

Part No.	Width		Height		Depth	
432-126	230 mm	9.06"	75 mm	2.95"	18.5 mm	0.73"



## Dimensions mm (inch)



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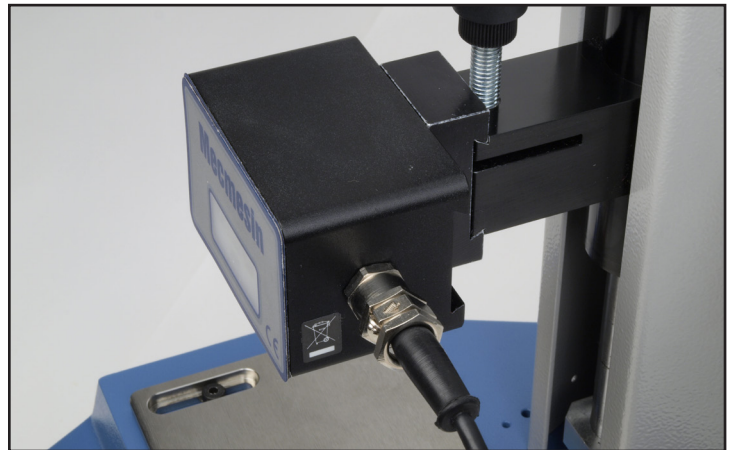
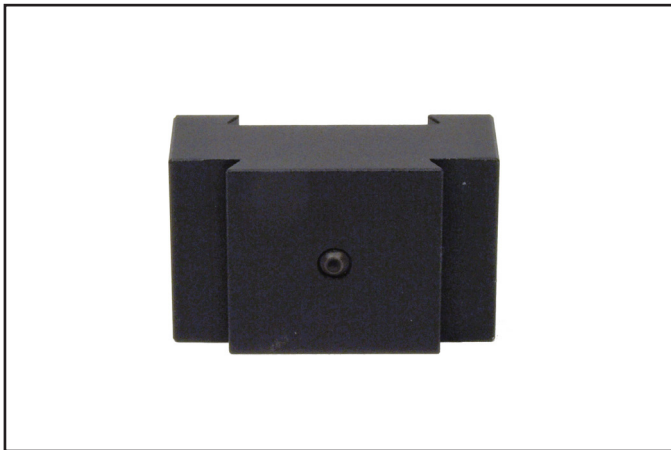
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## Crosshead Extensions and Elevated Base Plate



### Description

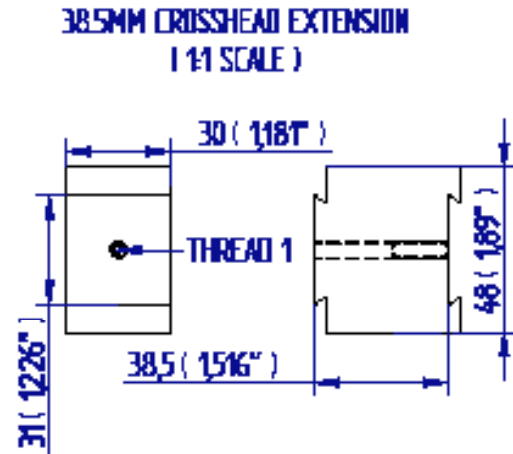
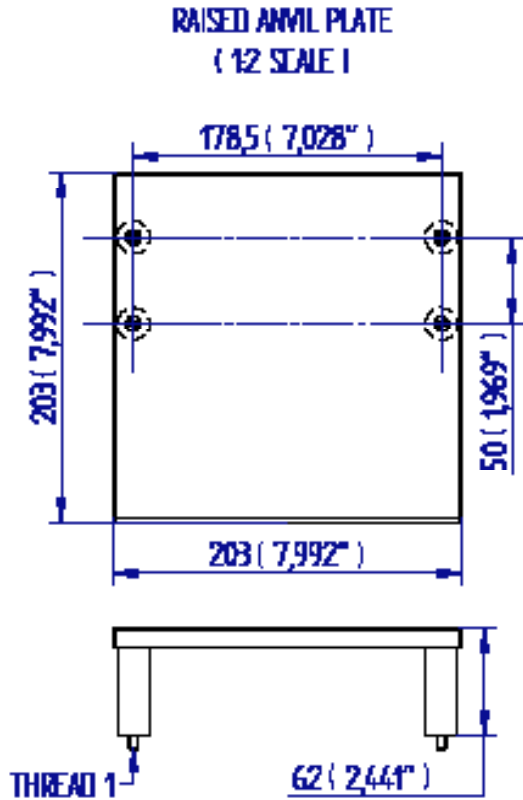
The 38 mm crosshead extension and elevated base plate are used together for fitting larger samples up to 200 mm diameter, to a single-column MultiTest system.

The 38 mm extension, and 16 mm extension are available separately.

### Specifications

Part No.	Load Capacity			Thread 1	Width (A)		Depth (B)		Height (C)	
	2.5 kN	250 kgf	550 lbf		203 mm	7.99"	203 mm	7.99"	62 mm	2.44"
432-406	2.5 kN	250 kgf	550 lbf	M5	203 mm	7.99"	203 mm	7.99"	62 mm	2.44"
Part No.	Thread 1			Depth						
432-307	M5			16 mm		0.63"				
PDV6028-01	M5			38 mm		1.50"				

## Dimensions mm (inch)



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DS-1122-01

## Dovetail Brackets and Mounting Plates



432-427 Dovetail bracket



432-326 Extended dovetail bracket



432-131 CFG<sup>+</sup> Mounting plate

### Description

The dovetail bracket is used for mounting a Mecmesin Advanced Force Gauge (AFG) or Basic Force Gauge (BFG) to the crosshead of manual and motorised test stands, to allow precise lateral alignment of the gauge. Supplied with socket-head fixing screws M5 x 10 mm.

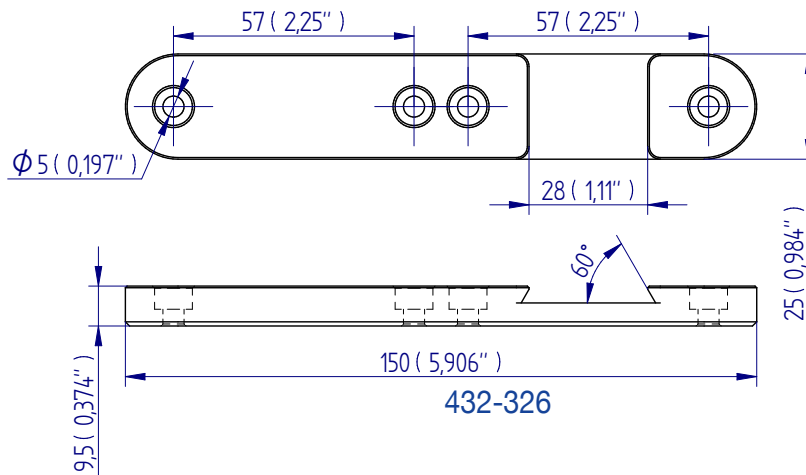
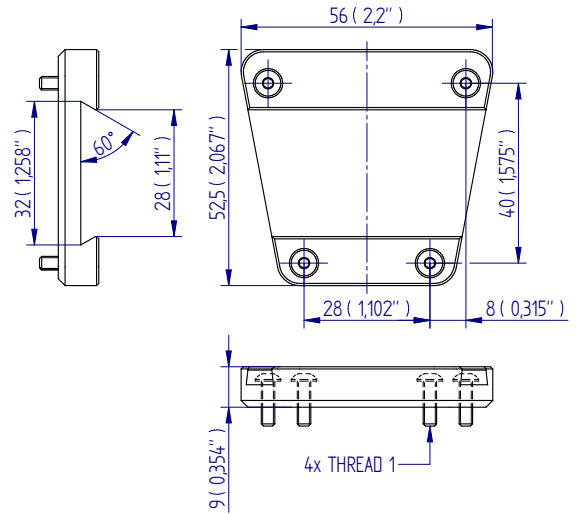
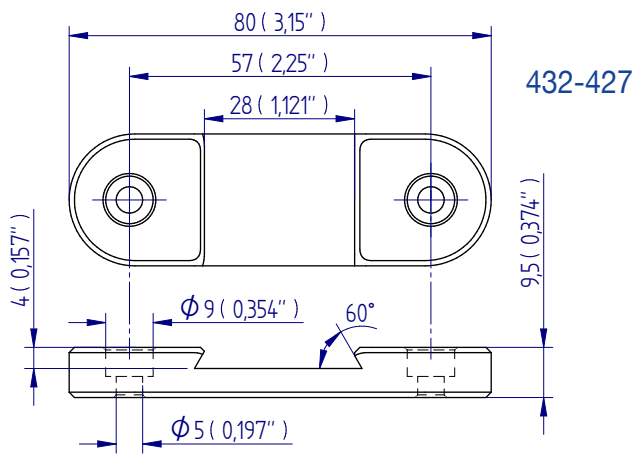
The extended dovetail bracket is used for mounting a Mecmesin Advanced Force Gauge (AFG) or Basic Force Gauge (BFG) to the crosshead of manual and motorised test stands, to allow precise lateral alignment of the gauge. The extended length provides 70 mm (2.76") of extra daylight. Supplied socket-head fixing screws M5x10 mm.

This mounting plate allows a Mecmesin Compact Force Gauge+ (CFG+) to be mounted onto the crosshead of a test stand. Supplied with 4 x M3 fixing screws.

### Specifications

Part No.	Height		Width	
	mm	in	mm	in
432-326	150 mm	5.91"	25 mm	0.98"
432-427	80 mm	3.15"	25 mm	0.98"
432-131	52.5 mm	2.07"	56 mm	2.2"

## Dimensions mm (inch)



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## Thread Adapters



### Description

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

### Specifications

Part No.	Load Capacity			Thread	Length		Weight	
	kN	kgf	lbf		mm	in	g	lb
432-193	1	100	225	10/32 M to M6 F	25	0.98"	6	0.01
432-293	5	500	1100	5/16 F to 5/16 F	35	1.38"	19	0.04
432-328	1	100	225	10/32 F to 10/32 F	30	1.18"	4	0.01
432-329	1	100	225	10/32 F to 5/16 F	25	0.98"	8	0.02
432-330	5	500	1100	5/16 F to M6 F	25	0.98"	6	0.01
432-331	5	500	1100	5/16 M to M12 M	29	1.14"	21	0.05
432-332	5	500	1100	5/16 M to M12 F	34	1.34"	—	—
432-333	5	500	1100	5/16 M to M10 M	29	1.14"	—	—
432-334	1	100	225	M6 F to M6 F	25	0.98"	5	0.01
432-335	10	1000	2200	M10 M to M12 M	29	1.14"	—	—
432-364	1	100	225	10/32 M to M10 M	29	1.14"	—	—
432-417	1	100	225	10/32 F to M6 F	25	0.98"	5	0.01





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## Swivel Adaptors



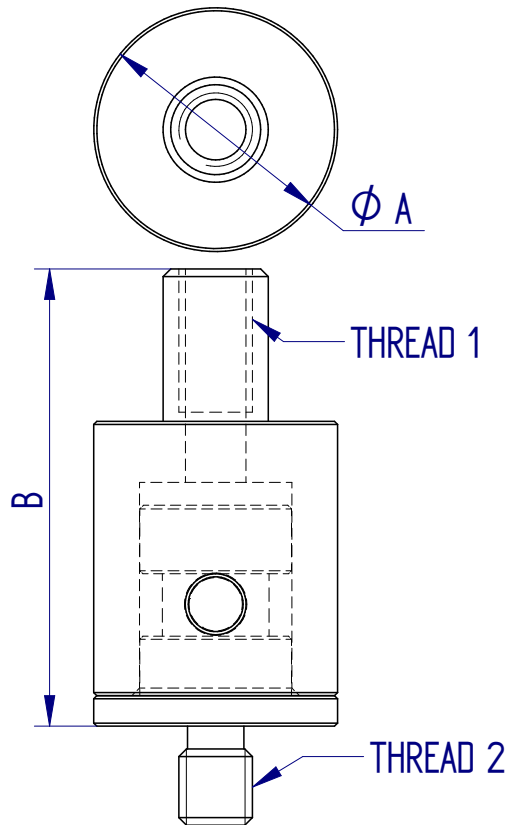
### Description

Swivel adaptors are used for easy alignment of samples to fixtures.

### Specifications

Part No.	Load Capacity			Thread 1	Thread 2	Diameter (ØA)		Length B		Weight	
	1 kN	100 kgf	225 lbf			16 mm	0.63"	32.5 mm	1.28"	31 g	0.07 lb
432-133	1 kN	100 kgf	225 lbf	10/32 UNF M	10/32 UNF F	16 mm	0.63"	32.5 mm	1.28"	31 g	0.07 lb
432-174	1 kN	100 kgf	225 lbf	M6 M	M6 F	16 mm	0.63"	32.5 mm	1.28"	33 g	0.07 lb

## Dimensions



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## Extension Rods



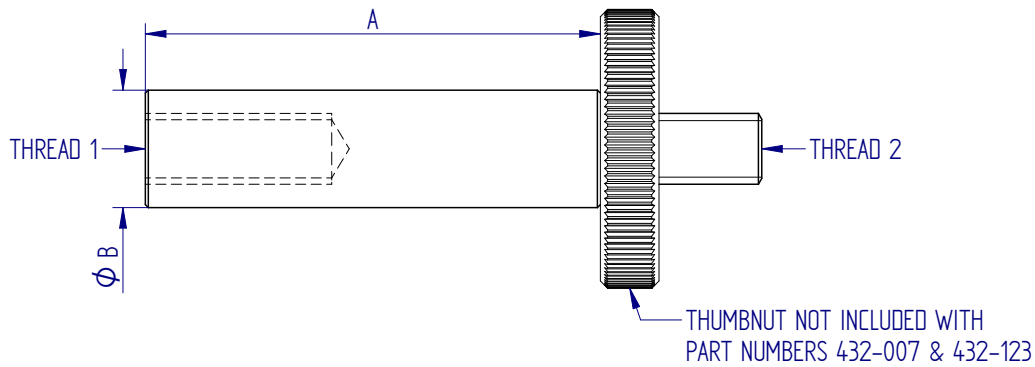
### Description

Extension rods are used to add length between a force gauge and another fixture, e.g. compression plate or test hook.

### Specifications

Part No.	Load Capacity			Securing	Threads	Length (A)		Weight	
	1 kN	100 kgf	225 lbf			30 mm	1.18"	20 g	0.04 lb
432-006	1 kN	100 kgf	225 lbf	thumbwheel	10/32 M to 10/32 F	30 mm	1.18"	20 g	0.04 lb
432-007	1 kN	100 kgf	225 lbf	—	M6 M to 10/32 UNF F	30 mm	1.18"	20 g	0.04 lb
432-008	5 kN	500 kgf	1100 lbf	thumbwheel	5/16 UNC - M to F	30 mm	1.18"	32 g	0.07 lb
432-116	1 kN	100 kgf	225 lbf	nut	10/32 UNF - M to F	30 mm	1.18"	7 g	0.02 lb
432-117	1 kN	100 kgf	225 lbf	nut	10/32 UNF - M to F	130 mm	5.12"	28 g	0.06 lb
432-123	2.5 kN	250 kgf	550 lbf	—	5/16 UNC - M to F	130 mm	5.12"	111 g	0.24 lb
432-186	500 N	50 kgf	110 lbf	thumbwheel	M6 - M to F	25 mm	0.98"	—	—
432-187	500 N	50 kgf	110 lbf	thumbwheel	M6 - M to F	130 mm	5.12"	—	—

## Dimensions mm (inch)



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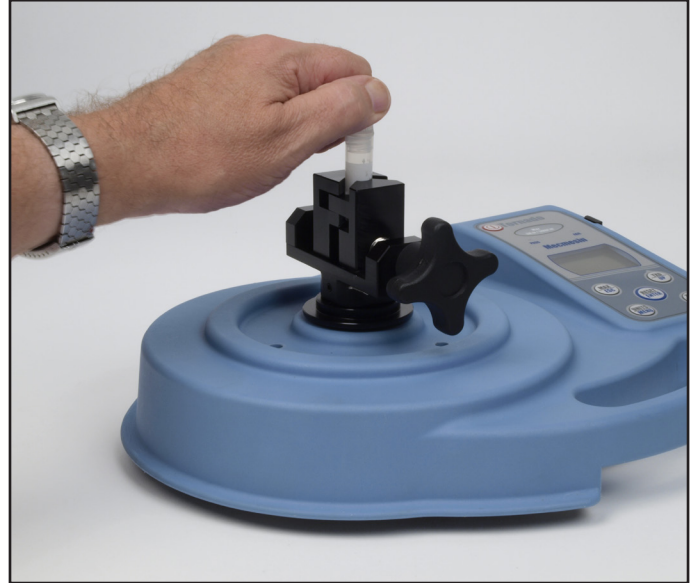
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## Mini V-block



### Description

The mini V-block is a precision-engineered mounting block which allows smaller samples to be securely held in a centrally-aligned position, without excessive clamping force.

#### V-block Fixtures to hold 'irregular shaped' samples

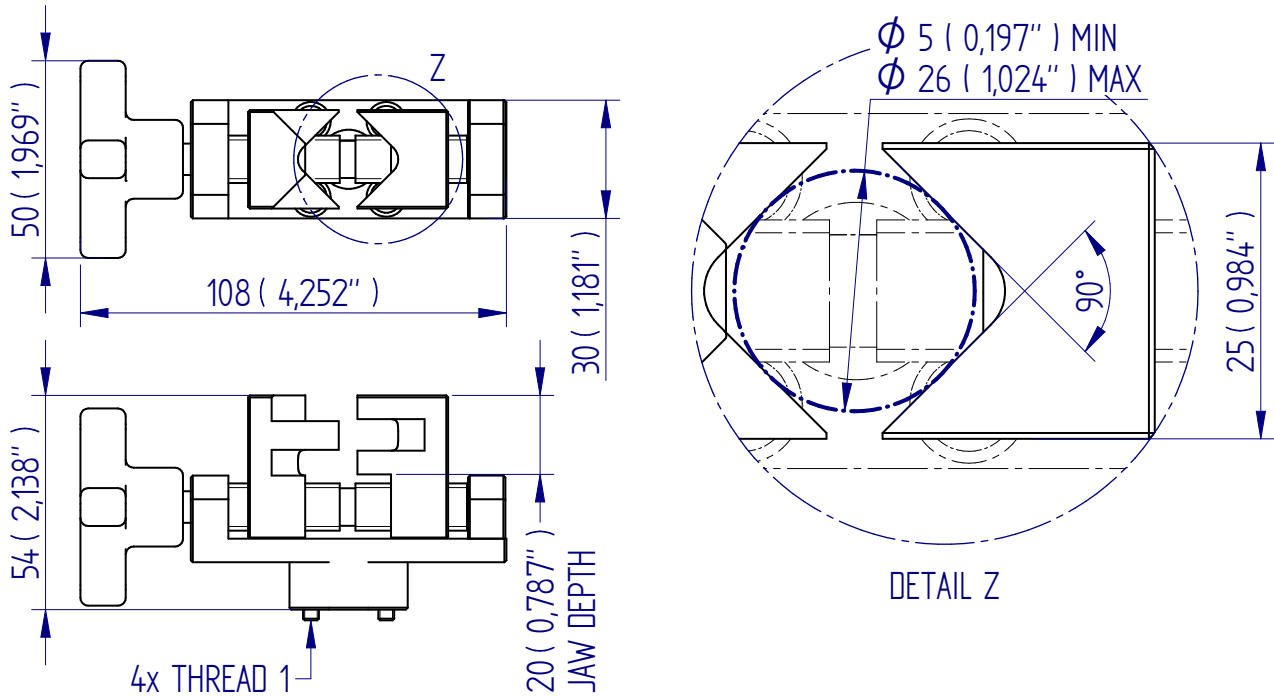
Alternative V-block fixtures can be designed and manufactured for specific requirements. Contact Mecmesin for details.

### Specifications

Part No.	Thread 1	Jaw Capacity		Height	
432-423	4 x M4	5 - 26 mm	0.2" - 1.02"	54 mm	2.13"



## Dimensions mm (inch)



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## Keyless Chucks, QC fitting



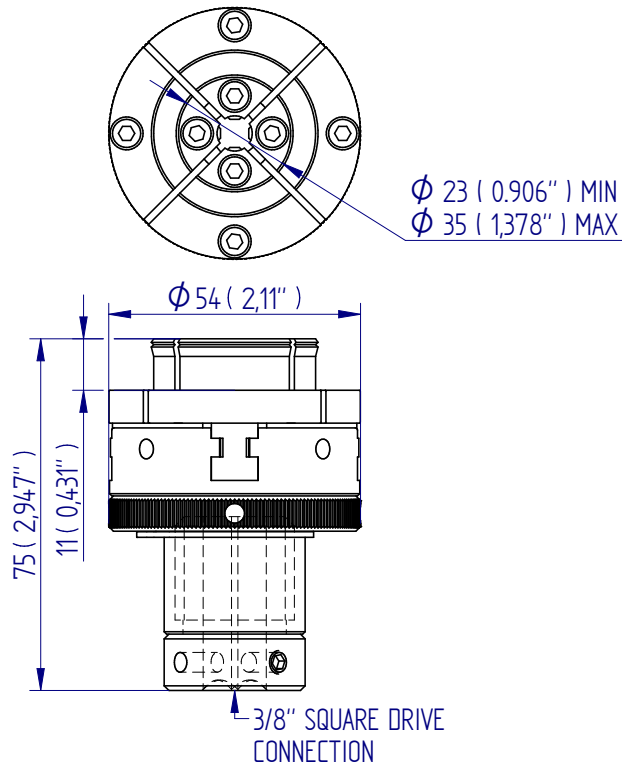
### Description

Keyless chucks are available as the upper and/or lower fixing. The upper keyless chuck (with square drive fitting) can only be used with the 6 N.m and 10 N.m sensors.

### Specifications

Part No.	Type	Fitting	Sample Min./Max. Ø		Height	
432-444	Upper Keyless Chuck	3/8" square	23 mm / 35 mm	0.91" / 1.38"	75 mm	2.95"
432-445	Lower Keyless Chuck	—	37.5 mm / 70 mm	1.48" / 2.76"	107 mm	4.21"
432-496	Lower Keyless Chuck	—	23 mm / 35 mm	0.91" / 1.38"	103 mm	4.05"

## Dimensions mm (inch)



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## Fixing Tables



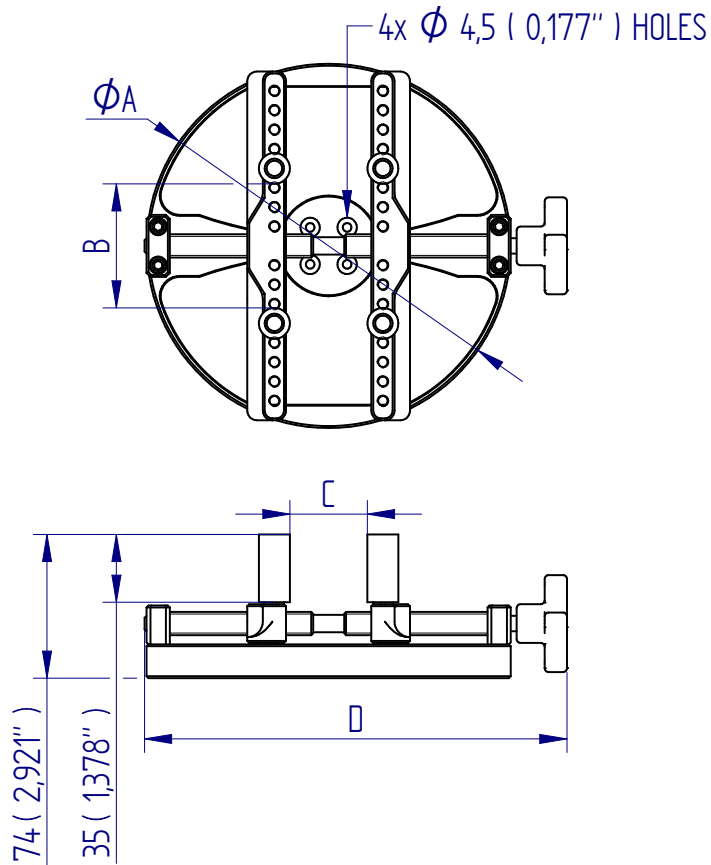
### Description

Upper and lower fixing tables offer highly versatile sample fixturing, fully adjustable to accommodate a variety of forms. Four pegs are supplied which screw into appropriate points to suit sample dimensions. Note: the upper fixing table can only be used with the 6 N.m and 10 N.m sensors.

### Specifications

Part No.	Type	Thread 1	Capacity Min/Max Ø		Diameter (ØA)		Height		Weight	
432-320	Lower Fixing Table	4 x M4	10 mm / 190 mm	0.39" / 7.48"	100 mm	3.94"	74 mm	2.92"	950 g	2.10 lb
432-321	Upper Fixing Table	4 x M4	10 mm / 78 mm	0.39" / 3.07"	100 mm	3.94"	74 mm	2.92"	475 g	1.05 lb

## Dimensions mm (inch)



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## Set of 4 Extended Pegs



### Description

These pegs attach to the upper and lower fixing tables to keep samples secure during torque testing. The extended length pegs are to keep taller samples vertically aligned.

### Applications

Used for closure torque testing of:

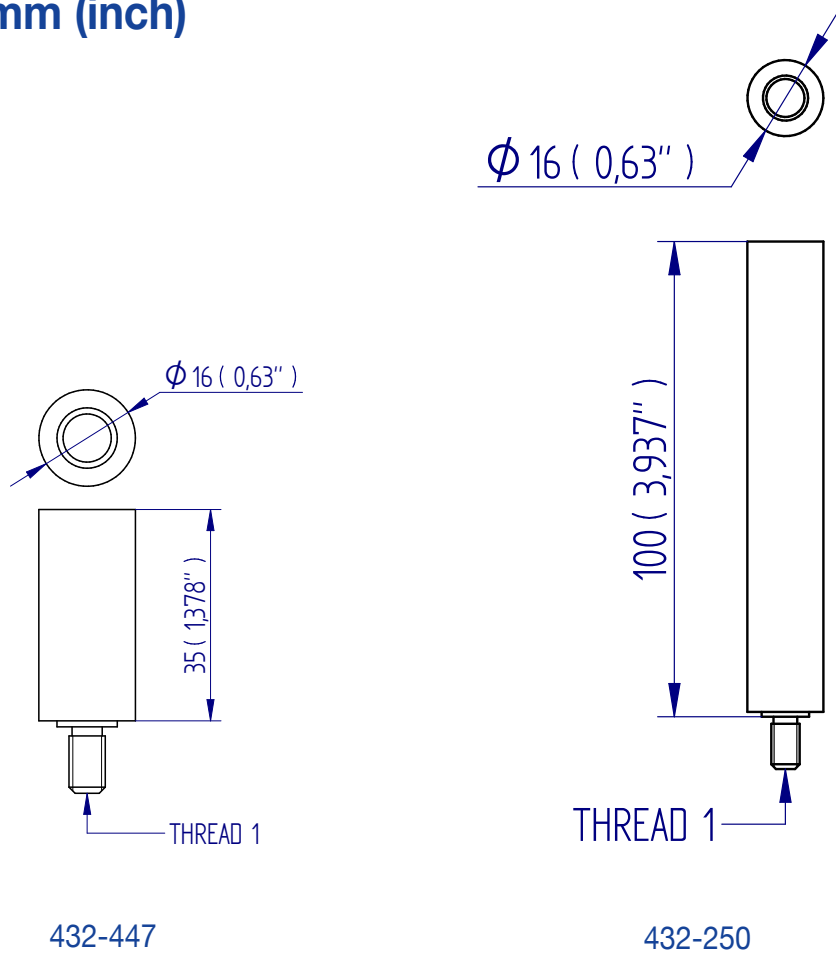
- Bottles
- Jars

### Specifications

Part No.	Thread 1	Diameter Ø		Length	
432-447	M6	16 mm	0.63"	35 mm	1.38"
432-250	M6	16 mm	0.63"	100 mm	3.94"



## Dimensions mm (inch)



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## Saddle Plates for use with Vortex Lower Fixing Plate



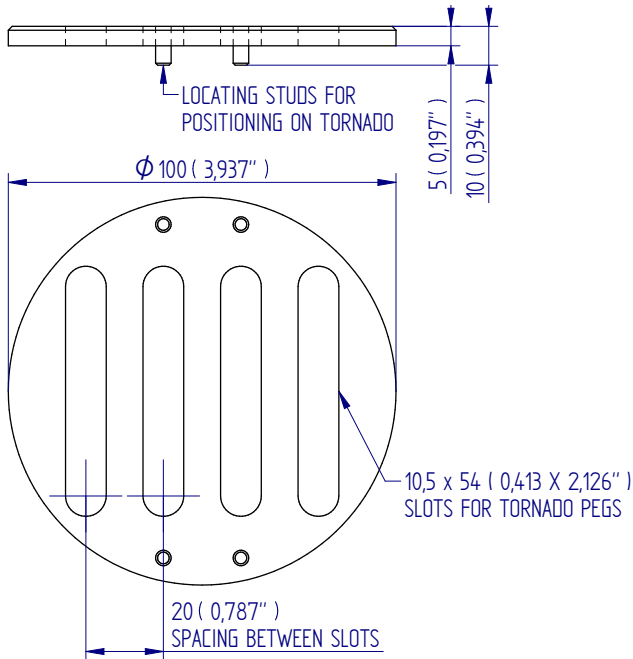
### Description

Saddle plates provide a more stable base on which to mount awkwardly shaped samples. Held in place by standard or extended pegs. For Orbis, Tornado or Vortex.

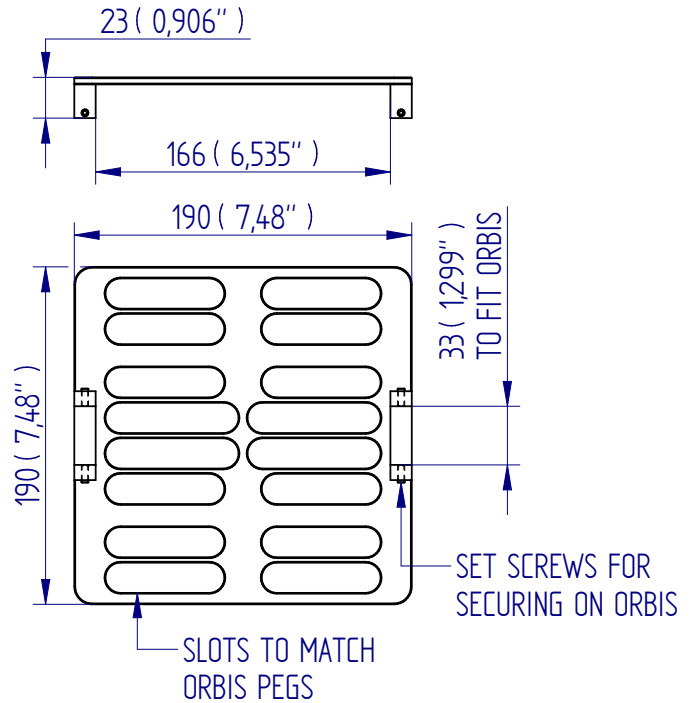
### Specifications

Part No.	
432-424	For Orbis, Tornado or Vortex
432-407	For Tornado 1.5 N.m and 3 N.m

## Dimensions mm (inch)



432-407



432-424

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## Calibration Check Rig for Orbis and Tornado



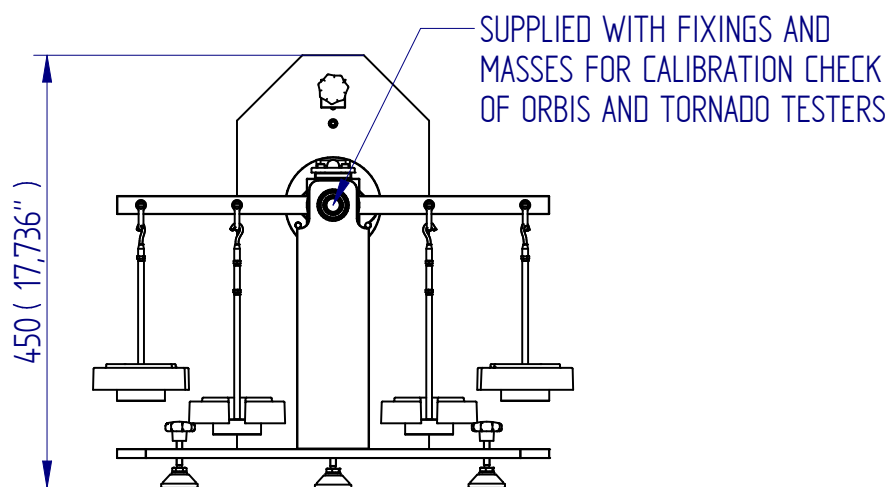
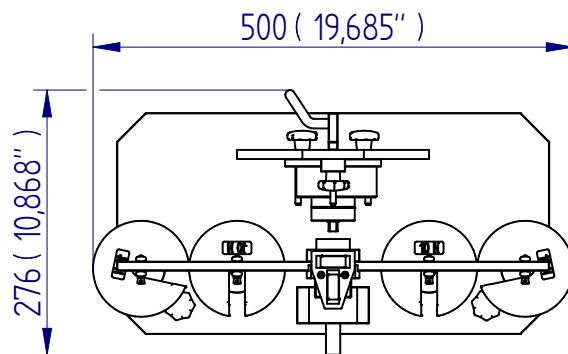
### Description

The calibration check rig is a bench-top unit which allows the on-site verification of the calibration status of Orbis MkII, Tornado MkII testers, and static torque sensors rated from 1.5 N.m to 10 N.m. Using dead-weight masses, the kit allows you to quickly decide whether or not adjustment, recalibration or repair is required. The kit does not replace the need for regular professional calibration.

### Specifications

Part No.
432-408

## Dimensions mm (inch)



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## Torque Reference Bottle



### Description

The Torque Reference Bottle (or “Gold Bottle”) provides a means of quickly verifying the calibration of motorised torque measuring systems. It repeatedly slips at a specified torque value between 9-17 lbf.in (1-1.9 N.m). Use the part number to specify the torque to the nearest 1/2 lbf.in. Connects to the torque cell with a standard 1/4”-3/8” adapter or a Drive Adapter (use with 4 fixing pegs).

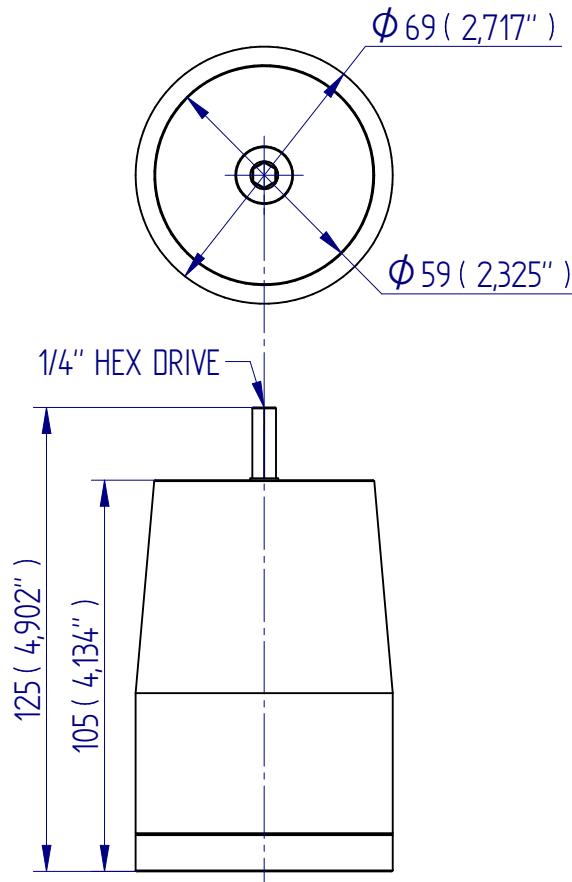
The Drive Adapter is fitted in the upper fixture (Mounting Table and 4 Pegs) of the torque measuring system to drive the Torque Reference Bottle.

### Specifications

Part No.
PDV-12093-xx
PDV 12106



## Dimensions mm (inch)



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## Waterproof Carry-case for Orbis and Tornado



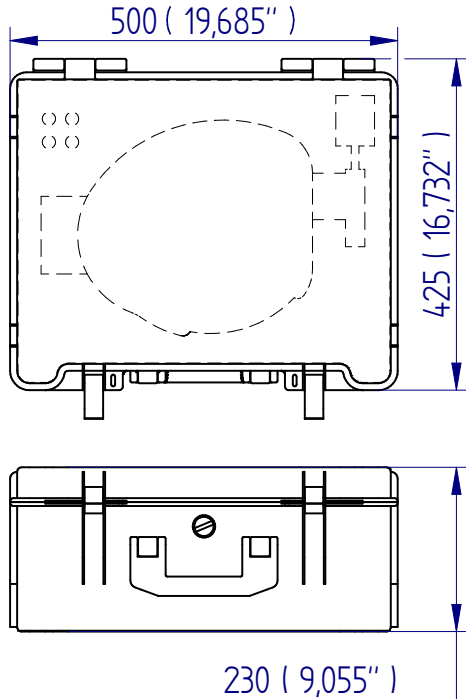
### Description

This waterproof, rugged plastic case provides protection and easy portability for Orbis and Tornado digital torque testing instruments.

### Specifications

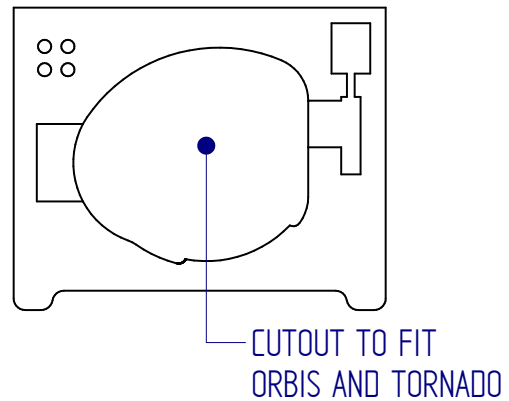
Part No.
432-422

## Dimensions mm (inch)



DRAWING IS INDICATIVE ONLY

### FOAM INSERT DETAIL



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