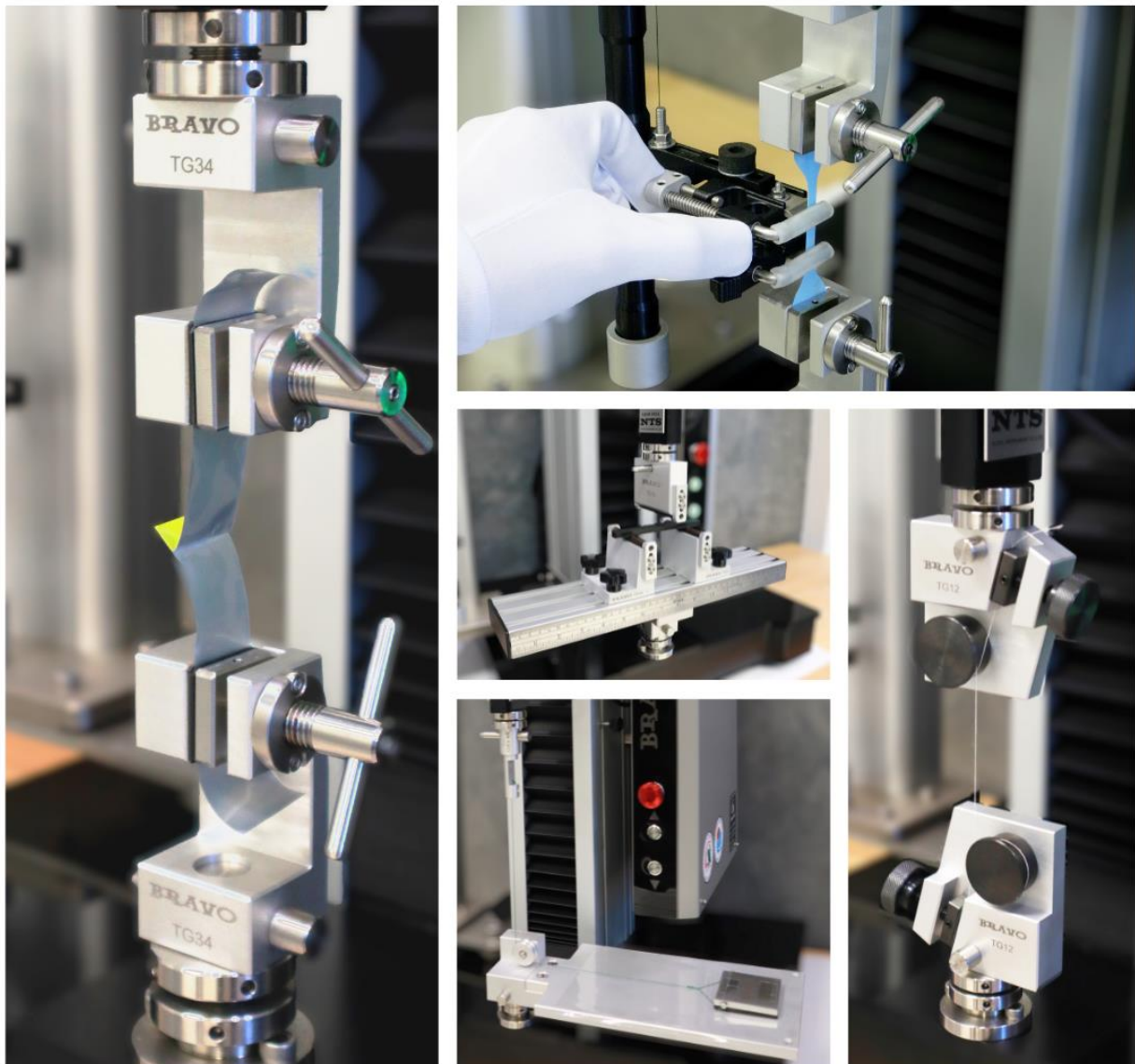


# UNIVERSAL TESTING MACHINE

# Grip & Fixture



## Ordering Information



Tech-Quality Co.,Ltd.



Call : +662-3286878



2/13 Sukapiban 2 Rd.,  
Pravet,Pravet, Bangkok 10250  
Thailand



+662-3286818



[www.tech-quality.com](http://www.tech-quality.com)



[info@tech-quality.com](mailto:info@tech-quality.com)

@techquality



## TG34 Vice Action Grip for Thin Film

This general purpose, vice action grip is ideal for thin film samples.

They feature an easy to use screw action and are fitted with flat, rubber-coated jaw faces.

Capacity 500 N

**Packaging** Includes upper and lower grips.

**Applications** Used for tensile testing of paper, rubber, thin plastic film, woven and non-woven textiles.

Seal Strength , Peel Test , Tear Test , Elongation

Maximum Capacity 500 N

Maximum Sample Width 25 mm

Maximum Sample Thickness 3 mm

Eye End Diameter 16 mm

Weight Each 0.3 Kg

Length Each 80 mm

## TG34N Pneumatically Actuated Vice Grip

This pneumatically actuated vice action grip is operated with a foot pedal

( Grip types are supplied with standard plain 30 x 44 mm rubber faces. Optional jaw faces are available.)

**Packaging** Includes upper and lower grips with standard plain rubber faces.

### **Applications**

General purpose tensile testing for paper, rubber, plastic, textiles and other materials where self-tightening

is required. Seal Strength , Peel Test , Tear Test , Elongation

Maximum Capacity 500 N

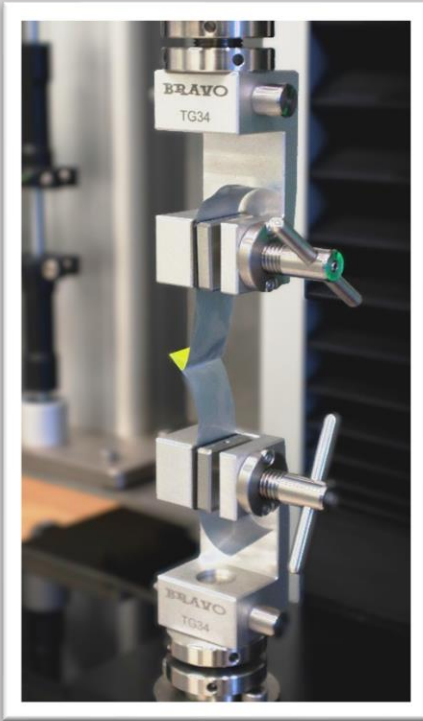
Maximum Sample Width 40 mm

Maximum Sample Thickness 3 mm

Eye End Diameter 16 mm

Weight Each 0.45 Kg

Length Each 86 mm





## TG300 Extra Pressure Vice Grip

This vice action grip is supplied with an independent tightening tool for applying extra pressure.

One grip face is corrugated, the other is serrated to prevent the sample from slipping during the test.

**Packaging** Includes upper and lower grips.

Applications

Used for tensile testing of textiles and leather.

### Specification

Maximum Capacity 5 kN

Maximum Sample Width 60 mm

Maximum Sample Thickness 10 mm

Gripping Length 35 mm

Eye End Diameter 16 mm

Weight Each 2.5 Kg

Length Each 70 mm



## TG300N Pneumatic Extra Pressure Vice Grip

This vice action grip is supplied with an independent tightening tool for applying extra pressure.

One grip face is corrugated, the other is serrated to prevent the sample from slipping during the test.

**Packaging** Includes upper and lower grips.

Applications

Used for tensile testing of textiles and leather.

### Specification

Maximum Capacity 1 kN

Maximum Sample Width 50 mm

Maximum Sample Thickness 10 mm

Gripping Length XX mm

Eye End Diameter 16 mm

Weight Each 2.2 Kg

Length Each 130 mm

## TH154 SREW ACTION GRIPS

Provide a simple and effective method to hold specimens.  
Dual-acting design, also for asymmetrical samples.

### Applications

Geotextiles Standard Grab Tensile Test Method, Trapezoidal Tear Test Method

Provide a simple and effective method to hold specimens.

Dual-acting design, also for asymmetrical samples.

Jaws articulate and provide self-alignment and cause a self-tightening effect.

### Specification

Maximum Capacity 5 kN

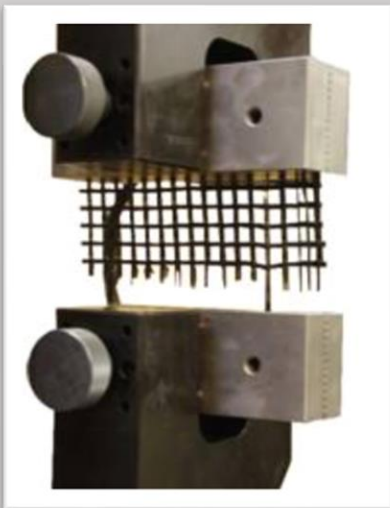
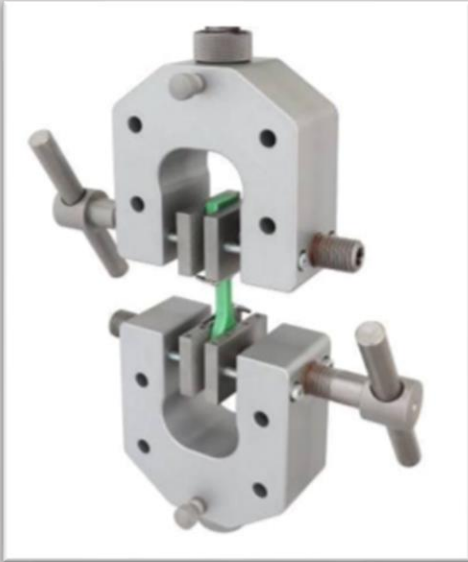
Maximum Sample Width 60 mm

Maximum Sample Thickness 25 mm

Eye End Diameter 16 mm

Weight Each 1 Kg

Length Each 130 mm



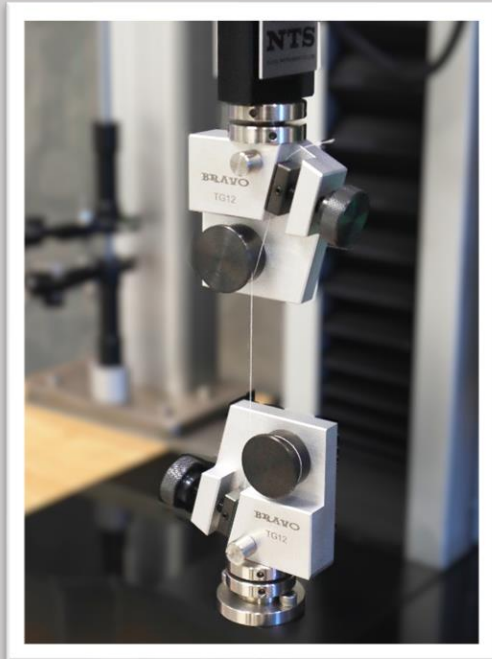
## TH135-60

Hydraulic grip to test geotextiles According to ASTM D4595.

### Applications

Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method

Wave jaws 210 mm wide.



## **TG12 Bollard Grip**

Bollard grip for wire, yarns and threads. The sample is wrapped around the bollard and the free end

clamped firmly in place. Grip stresses in the specimen are distributed in the material in contact with

the bollard circumference.

Capacity 2 kN,

**Packaging** Includes upper and lower grip.

### **Specification**

Maximum Capacity 2 kN

Bollard Diameter 32 mm

Max. Sample Diameter 5 mm

Eye End Diameter 16 mm

Weight (Each) 0.5 Kg

Length Each 86 mm



## **GR-E040 Small circular bollard grip**

**Packaging** with upper and lower

### **Applications**

Used for general purpose yarn, thread and thin wire... etc.

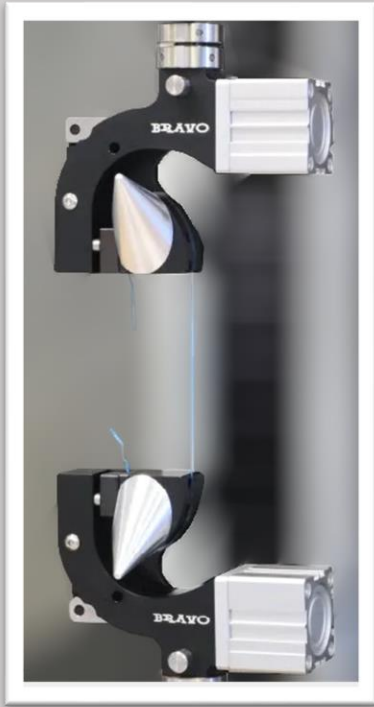
### **Specification**

Maximum Capacity 200N

Wire diameter 0.05 ~ 1mm

Eye End Diameter 16 mm





## TG12N Pneumatic Bollard Grip

Bollard grip for wire, yarns and threads. The sample is wrapped around the bollard and the free end

clamped firmly in place. Grip stresses in the specimen are distributed in the material in contact with

the bollard circumference.

Capacity 800N,

**Packaging** Includes upper and lower grip.

### Specification

Maximum Capacity 800 N

Bollard Diameter 32 mm

Max. Sample Diameter 3 mm

Eye End Diameter 16 mm

Weight Each 1 Kg / Length Each 115 mm



## TG64 Circular Direct Compression Platens

Circular direct compression platens intended for samples 50 mm up to 150 mm in diameter.

**Packaging** with upper and lower

### Applications

Used for general purpose compression testing of a wide variety of materials and products.

### Specification

Maximum Capacity 1-20 KN Diameter 150 mm

Maximum Capacity 30-50KN Diameter 100 mm

Maximum Capacity 100KN Diameter 50 mm

Eye End Diameter 16 and 32 mm

Weight Each 1.5 to 15 Kg

## TG64A Self-aligning spherically seated compression platen



Circular direct compression platens intended for samples 50 mm up to 150 mm in diameter.

**Packaging** with upper and lower

### Applications

Used for general purpose compression testing of a wide variety of materials and products.

### Specification

Maximum Capacity 1 kN up to 30KN

Maximum Sample Diameter 150 mm

Eye End Diameter 16 and 32 mm

## Edge Crush Test (ECT)

DIN EN ISO 3037 or TAPPI T 811

### Applications

Provides information on the strength of corrugated cardboard with flutes positioned vertically. It is important that force application to the specimen is exactly perpendicular during these tests.

### Specification

Maximum Capacity 1KN

Minimum Loadcell 500 N

Eye End Diameter 16 mm



## TG23 Pull off Test Fixture

Measures adhesion of coatings to metal, wood, concrete and other rigid substrates

. 10, 14, 20 or 50 mm dollies maximize capability and measurement resolution across a wide ran

**Packaging** with upper and lower

### Applications

Used for general purpose bond strengths. Maximum pull-off pressure by dolly size.

### Specification

Maximum Capacity 10KN

Dollies Select from four Stand-offs - 20 mm, 50 mm, 50x50 mm

Eye End Diameter 32 mm



## Peel cling Fixtures

Peel cling of stretch wrap film fixture ASTM-D5458 Size 500x150 mm

### Applications

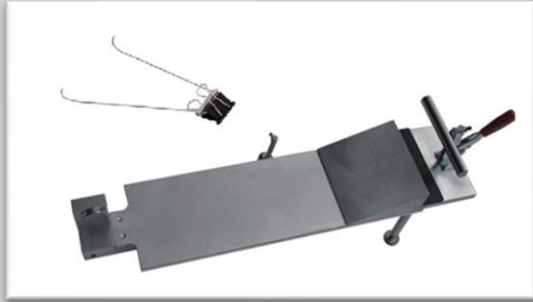
Peel cling of stretch wrap film

### Specification

Maximum Capacity 100N

Minimum Loadcell 20 N

Eye End Diameter 16 mm



## Coefficient of Sliding Friction Fixture

This fixture consists of a horizontal flat bed incorporating a suitable clamping device and a sled. The underside of the sled has a layer of smooth-faced foam rubber.

Capacity 100 N

Packaging

Includes fixture, clamping device and sled Weight 200g.

Applications

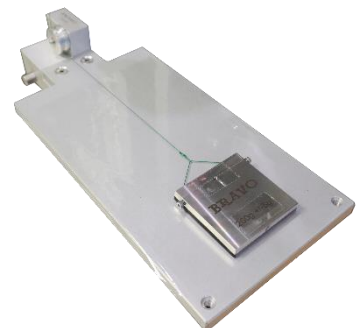
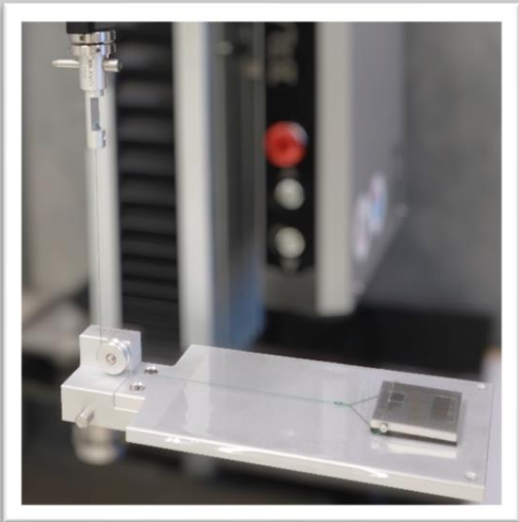
Used to determine the static and kinetic coefficients of friction of plastic film

and paper when sliding the specimen over itself under controlled test conditions.

Meet ASTM D1894, ISO8295, TAPPI T816, T549

Fixture Length Each 350 mm

Fixture Length Width 150 mm







## THS353 FRACTURE MECHANICS CLEVIS GRIPS

### Applications

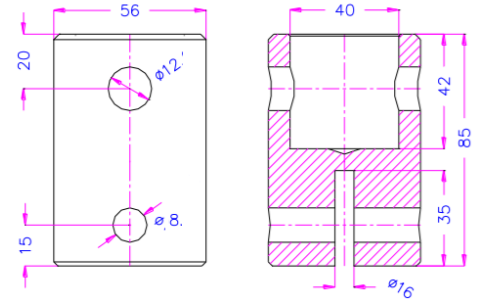
This grip is designed for ergonomic assessment, spring testing, and other pull testing applications.

### Specification

Maximum Capacity 10 kN

Pin Diameter 12 mm

Eye End Diameter 32 mm



## TG16 Vice Action Grip for Thin Film

This general purpose, vice action grip is ideal for Peel & Seal Strength Test 180 Degree

They feature an easy to use screw action and are fitted with flat, rubber-coated jaw faces.

**Capacity** 500 N

**Packaging** Includes upper and lower grips.

**Applications** Used for tensile testing of paper, rubber, thin plastic film, woven and non-woven textiles.

Seal Strength , Peel Test , Tear Test , Elongation

Maximum Capacity 500 N

Maximum Sample Width 50 mm

Maximum Sample Thickness 10 mm

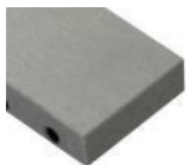
Eye End Diameter 16 mm

Weight Each 0.5 Kg

Length Each 85 mm

**Options** : 4 sets Stainless Steel Plate 50x120 mm for adhesive tap 180 degree

**REMARK** : Please choose the Jaw Face before order



**Blank jaws** Steel-blanks without coating



**Rubber jaws** 1 mm rubber coating



**Pyramid jaws** Pyramids 1.2x45°



**Wave jaws** 5 mm

## TG295 Heavy Duty Capstan Action Wedge Grip



This capstan action wedge grip is supplied with one set of cross cut jaw faces. Ideal for flat samples up to 22mm thick or round samples up to 22 mm in diameter. Optional jaw faces are available.

### Packaging

Includes upper and lower grips with standard cross cut faces. The TG295 is not included when ordering optional jaw faces.

### Applications

Used for tensile testing in general metallurgical and composite applications.

### Specification

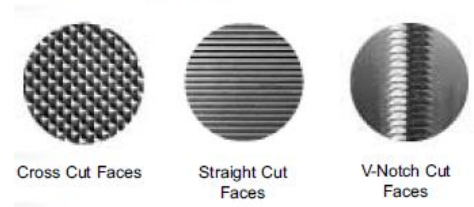
Maximum Capacity 100 kN

Cross Cut Faces: & V-Notch Cut

Maximum Sample Diameter 22 mm

Maximum Sample Thickness 22 mm

### Jaw Face Options



## TG280 Wedge Grip



This capstan action wedge grip is supplied with one set of cross cut jaw faces. Ideal for flat samples up to 7 mm thick or round samples up to 9 mm in diameter. Optional jaw faces are available.

### Packaging

Includes upper and lower grips with standard cross cut faces. The TG280 is not included when ordering optional jaw faces.

### Applications

Used for tensile testing in general metallurgical and composite applications.

### Specification

Maximum Capacity 50 kN

Flat Jaw face & V-Notch

Maximum Sample Diameter 4-9 mm

Maximum Sample Thickness 0-7 mm



V Notch  
diameter 4-9mm



Flat Jaw face  
Thickness 0-7 mm



## TG15 Wedge Grip

This wedge grip is supplied with one set of cross cut jaw faces. Ideal for flat samples up to 8 mm thick or round samples up to 8 mm in diameter. Optional jaw faces are available.

### Packaging

Includes upper and lower grips with standard cross cut faces. The TG15 is not included when ordering optional jaw faces.

### Applications

Used for tensile testing in general metallurgical and composite applications.

### Specification

Maximum Capacity 5 kN

Cross Cut Faces Max Sample Thickness 8 mm

V-Notch Face Cut Diameter 2 – 8 mm

Gripping Length 110 mm

Eye End Diameter 16 mm

Weight Each 2.2 Kg

### Jaw Face Options



Cross Cut Faces



Straight Cut Faces



V-Notch Cut Faces



## TG210N Pneumatic Wedge Grips 10KN

This capstan action wedge grip is supplied with one set of cross cut jaw faces. Optional jaw faces are available.

### Packaging

Includes upper and lower grips with standard cross cut faces. The TG10N is not included when ordering optional jaw faces.

### Applications

Used for tensile testing in general metallurgical and composite applications.

### Specification

Maximum Capacity 10 kN

Cross Cut Faces

Maximum Sample Thickness 6 mm

## THS525-35 Puncture Test Fixtures

PUNCTURE FIXTURE to test slow rate penetration resistance of flexible barrier films and laminates according to ASTM-F1306

### Applications

Puncture testing of thin plastic film.

### Specification

Maximum Capacity 1KN

Minimum Loadcell 50 N

Max. sample Diameter 35 mm

Probe radius: 1.6 mm

Eye End Diameter 16 mm



## CBR PUNCTURE FIXTURES

### Applications

to test geotextiles, plastic films, protective clothing, etc. according to ASTM-D6241-B, GOST56335,

DIN EN ISO12236, ASTM-D5748.

### Specification

Maximum Capacity 50 KN

Scope of supply: 1 fixture incl. sample positioning tool

Eye End Diameter 16 mm



## TG18 Three Point Bending fixtures

### Applications

For Testing Plastics, Metals, Alloys, Composites, Microelectronics, and Components

Bend test fixture for universal use. Rollers 10 mm diameter are supplied as standard.

### Specification

Maximum Capacity 1 to 50KN

Span 20 ~ 400 mm

Width 80 mm

Material Steel & Aluminum

Eye End Diameter 16 and 32 mm





## **TG19 Three Point Bending fixtures**

### **Applications**

For Testing Plastics, Metals, Alloys, Composites, Microelectronics, and Components

### **Specification**

Maximum Capacity 50KN

Span 140 mm

Material Steel



## **TG62 Heavy Duty 3-Point Bend Jig**

This jig operates in compression only. Used for performing uni-directional bending tests on rigid and semi-rigid materials. Supplied with 10 mm specimen supports. A four point bend jig conversion kit is also available.

### **Capacity**

100 kN,

### **Packaging**

Complete jig with 10 mm specimen supports.

### **Applications**

Used to determine the flexural properties of rigid and semi-rigid materials including glass, ceramics, composites, wood and plastics.

### **Specification**

Maximum 1 KN up to Capacity 100 KN

Max Sample Width 150 mm (customized design)

Span Adjustment up to - 300 mm (customized design)



## TG10 Eccentric Roller Grip

General purpose, self-tightening grips feature an eccentric roller design ideal for dumbbell and flat specimens. The roller operates using a basic cam jamming principle. The rollers have a cross-hatched, serrated finish that helps prevent slipping. Clamps hold the sample securely against the horizontally-grooved back face

### Packaging

Includes upper and lower grip.

### Applications

Ideal for tensile testing sheet materials including polymers and rubbers.

### Specification

Maximum Capacity 1 kN

Maximum Sample Width 25 mm

Maximum Sample Thickness 5 mm

Eye End Diameter 16 mm

Weight Each 0.22 Kg

Length Each 95 mm