

2710 Series Screw Side Action Grips

Catalog Number 2710-004

Features

- Rated capacity: 500 N (50 kgf, 112 lbf)
- Open front design to facilitate specimen loading
- Interchangeable jaw faces suitable for gripping different types of materials
- Suitable for a wide range of specimen thickness without the need to change jaw faces
- Self-aligning, side clamping for different thickness and asymmetrical type specimen, i.e lap shear
- Simple and convenient manual adjustment of clamping force
- Rugged design for minimum maintenance
- Made from stainless steel to provide excellent corrosion resistance
- Designed for use in ambient and non-ambient testing conditions
- Temperature range: 0 to +100 °C (+32 °F to +212 °F)

Description

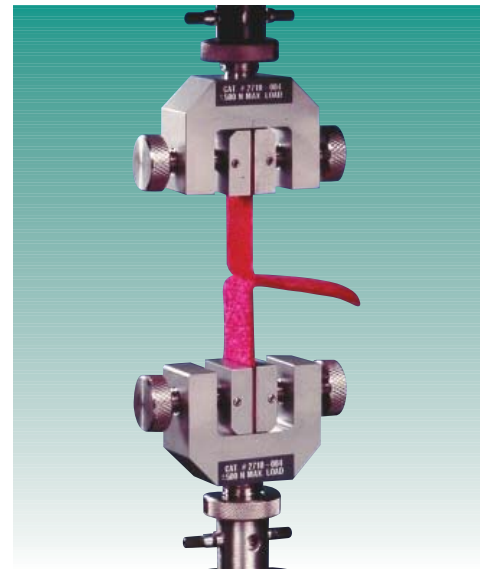
Screw side action grips provide a very simple and efficient method for holding flat test specimens in applications where you must easily insert the specimen and quickly apply a clamping force.

Jaw faces can be adjusted to accommodate different specimen thicknesses, this ensures that the line of tensile force remains concentric with the grip body.

They can be equipped with a selection of interchangeable grip jaw faces in various sizes and choice of surfaces including smooth ground, rubber-coated and serrated. Line contact and special coated faces are also available.

Principle of Operation

These screw side action grips are designed with one grip face that is adjustable to compensate for the sample thickness so that the line of tensile force can be made to coincide with the center of the grip. The interchangeable jaw faces are mounted in such a manner that the faces are free to swivel in all directions. This action allows for self-alignment to compensate for small variations in sample thickness.



▲ Screw side action grip for testing materials ranging from fine wires to fabrics

Application Range

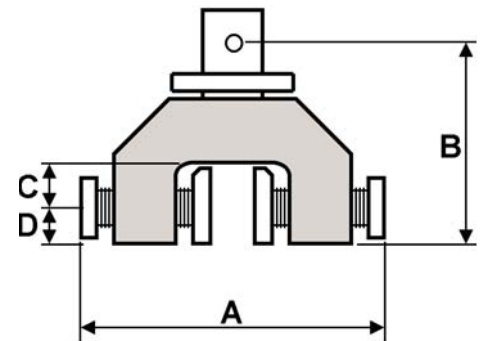
- Type of loading: Tension. Not suitable for through-zero/ reverse stress or fatigue testing.
- Specimen material: Thin sheets, films, foils, threads, plastic tapes, fine wires, fabric and soft materials.
- Specimen shapes: Round (wires) and flat specimen with or without shoulder tab ends.

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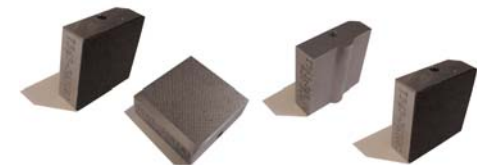
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Specifications

Catalog Number	2710-004
Maximum Capacity	500 N (50 kgf, 112 lbf)
MECHANICAL CONNECTION	
Upper Fitting	6 mm clevis pin (Type 0m)
Lower Fitting	6 mm clevis pin (Type 0m)
Overall Width (A)	93 mm (3.6 in)
EFFECTIVE LENGTH (B)	
Upper Grip	67 mm (2.6 in)
Lower Grip	67 mm (2.6 in)
Throat Depth (C)	13 mm (0.5 in)
Throat Depth (D)	13 mm (0.5 in)
WEIGHT PER GRIP	
Upper Grip	490 g (1 lb)
Temperature Range	0 to +100 °C (+32 °F to +212 °F)
Working Principle	Dual screw side action clamping
Gripping Force	Adjustable, manually applied



▲ Grip dimensions



▲ A selection of interchangeable jaw faces are available to meet a variety of applications

Notes:

1. Grip catalog number provides two grips.
2. Grips may require a coupling to connect to load cell or machine base.
3. Upper grip may require a flexible coupling for certain applications.

Jaw Faces

Catalog Number	2702-130	2702-131	2702-132	2702-133
Specimen Thickness	0 to 12 mm (0 to 0.5 in)	0 to 12 mm (0 to 0.5 in)	0 to 12 mm (0 to 0.5 in)	0 to 12 mm (0 to 0.5 in)
Surface	Smooth ground	Diamond serrated (pitch 1 mm)	Rubber-coated	Line contact ³
Clamping Area (W x H)	25 mm x 25 mm (1 in x 1 in)	25 mm x 25 mm (1 in x 1 in)	25 mm x 25 mm (1 in x 1 in)	25 mm (1 in) wide x 4 mm (0.15 in) radius convex surface
Applications	For gripping thin sheets, films, foils, paper and tapes	For gripping plastic, fabric and soft materials	For gripping threads, fabrics, plastic tapes and fine wires	For gripping elasticated fabrics, paper and rigid plastic film

Notes:

1. Faces catalog number provides four faces.
2. All faces are hardened to 60 Rc to 65 Rc, excluding rubber-coated and if otherwise specified.
3. Line contact faces are provided with a rubber coated on 2710-004 opposing face.



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