

1 kN Eccentric Roller Grips

These eccentric roller grips are specifically designed for tensile testing flexible materials, such as rubber and soft and semi-hard plastics. Named after the non-symmetric roller design, these grips employ a simple and quick clamping mechanism. They also have a self-tightening action, which maintains clamping of the specimen during testing regardless of any thickness reduction. In addition, the upper and lower grip faces are parallel grooved to help hold these soft materials.

Relevant Materials

Rubber, Soft Plastics, Semi-Hard Plastics

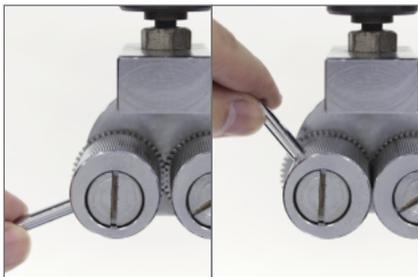
Relevant Specimens

Plates



Operation

To open the grip faces, the handle attached to one grip face on each grip is moved away from the grip base. Once the specimen is placed within the grips at the intended clamping position, the handle is moved back toward the grip base, causing the grip faces to close until the specimen is securely held by the grip faces. Under load, a force is placed on the grip faces by the specimen. This force is in the direction opposite to the base of the grips, causing the grip faces to self-tighten.



Open and close grip faces using the handle



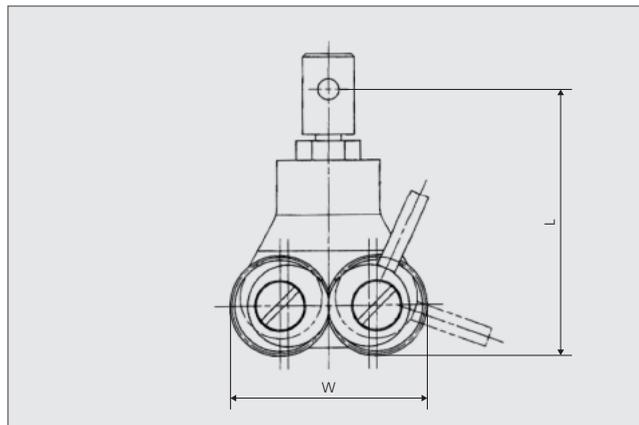
Parallel-grooved grip faces



Self-tightening action during testing

Specification

Maximum Grip Capacity			Applicable Specimen Thickness	Grip Face Width	Temperature Range	Grip Size		Upper Grip Mass	Upper Grip Ø Fitting (Ø pin)	Lower Grip Ø Fitting (Ø pin)
						Width	Length			
kN	kgf	lbf	mm (in)	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
1	100	220	0 to 7 (0 to 0.28)	32 (1.3)	-70 to 250 (-94 to 482)	75 (3.0)	102 (4.0)	1.2 (2.6)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description
343-07607-10	1 kN Eccentric Roller Grip Set Includes: upper and lower 1 kN eccentric roller grips with parallel grooved grip faces

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