

100 N Pantograph Grips

100 N pantograph grips are suitable for tensile testing rubber, soft plastic, or textile plate specimens with a small width. Similar to the larger capacity type 1 and type 2 pantograph grips, these 100 N pantograph grips apply a self-tightening action and include parallel-grooved grip faces to enhance specimen clamping.

Relevant Materials

Rubber, Soft Plastics, Textiles

Relevant Specimens

Plates



Operation

To open the grips, knurled rods on the side of the grips are moved toward the grip base. Slowly reducing the force on the knurled rods allows the spring mechanism to smoothly bring the grip faces together and clamp the specimen. As the specimen is put under increasing force during testing, the self-tightening action increases the clamping force of the grip faces.



Self-tightening action by
spring mechanism



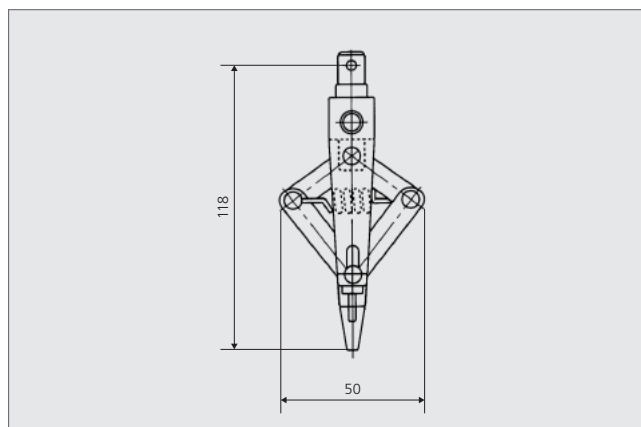
Parallel-grooved grip faces



Spring mechanism

Specification

Maximum Grip Capacity			Applicable Specimen Thickness	Grip Face Size		Temperature Range	Grip Size		Upper Grip Mass	Upper Grip Ø Fitting (Ø pin)	Lower Grip Ø Fitting (Ø pin)
				Width	Length		Width	Length			
N	kgf	lbf	mm (in)	mm (in)	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
100	10	22	0 to 5 (0 to 0.20)	3 (0.12)	7 (0.28)	-70 to 250 (-94 to 482)	50 (2.0)	118 (4.6)	0.111 (0.245)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description
344-13414-10	100 N Pantograph Grip Set Includes: upper and lower 100 N pantograph grips with parallel-grooved grip faces

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