

5 kN Grips for Fine Wire

These grips offer a suitable method for tensile testing soft metal wires, ropes, and strings, all with a diameter of 3 mm (0.12 in) or less. The upper and lower grips include an articulated joint to maintain alignment of the specimen with the testing axis during testing.

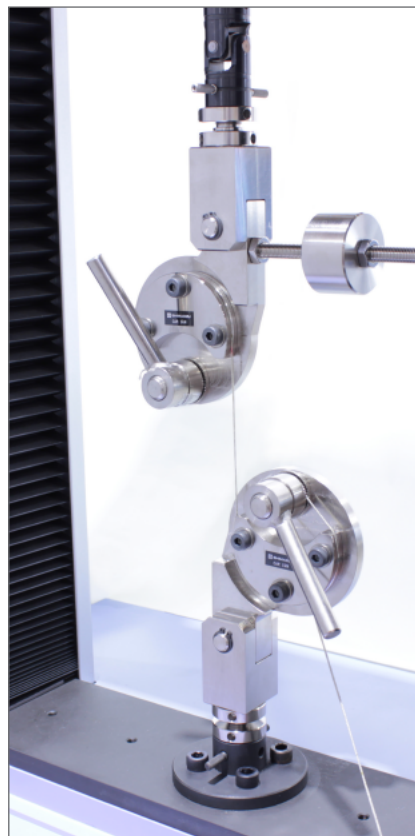
It is difficult to define the grip-to-grip gauge length for these 5 kN grips for fine wire. Therefore, the use of an extensometer is strongly advised.

Relevant Materials

Metals, Textiles

Relevant Specimens

Ropes, Strings, Wires



Operation

To load a specimen for testing, carefully wrap the specimen around the grooved half-moon, so as not to damage the wire, and then wrap it around the handle. The handle is turned clockwise to close the grips, which squeezes the sample against the back plate of the grips.



File-teeth grip faces and guide groove



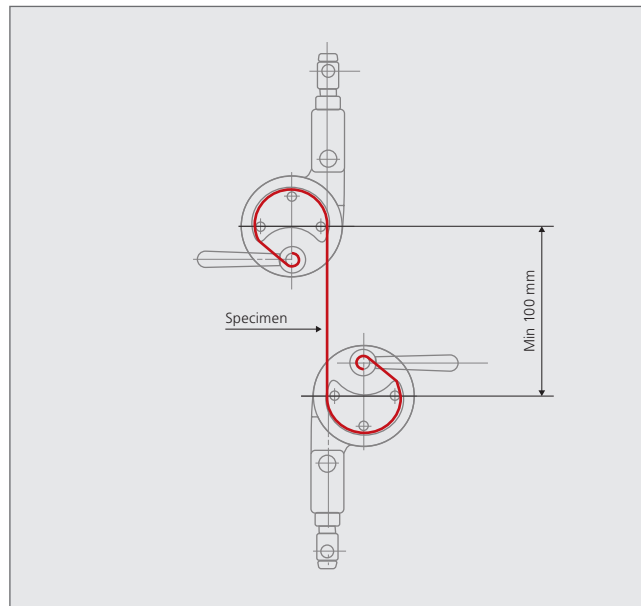
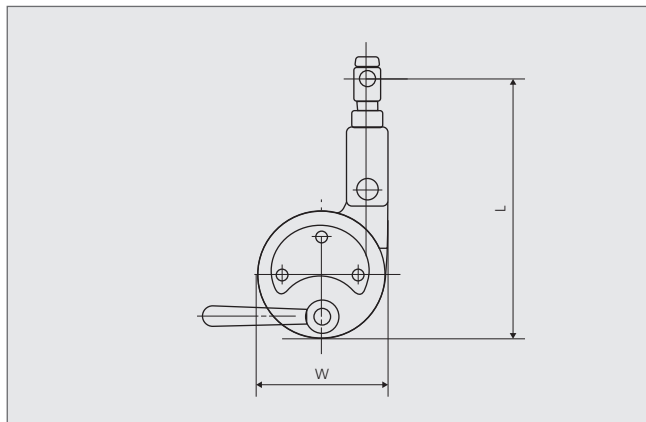
Grooved half moon



Handle closing with tension

Specification

Maximum Grip Capacity			Applicable Specimen Thickness	Drum Diameter	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
5	500	1,100	0 to 3 (0 to 0.12)	80 (3.1)	-10 to 60 (14 to 140)	110 (4.3)	170 (6.7)	2.5 (5.5)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description
343-07529-01	5 kN Grip Set for Fine Wire Includes: upper and lower 5 kN grips for fine wire

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