

1 kN Henry Scott Grips

Henry Scott grips are useful for clamping plate and tape specimens of soft, flexible materials for tensile testing. Specimens are held by rollers on the upper and lower grips, which feature a self-clamping action. To minimize specimen slippage, the grip body opposite the roller, where the specimen contacts, is curved and features a parallel-grooved surface. During tensile testing, the self-clamping action applies increasing clamping force to the specimen as the overall force increases to help hold the specimen in place.

Relevant Materials

Rubber, Soft Plastics, Paper, Cloth

Relevant Specimens

Plates, Tapes

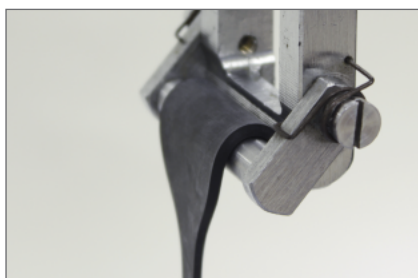


Operation

While holding the roller away from the grip base, specimens are threaded around one half of the roller so that the majority of the specimen ends up parallel to the testing axis. The roller is then released so that the specimen is held between the roller and the curved section of the grip base.



Roller to grip a specimen



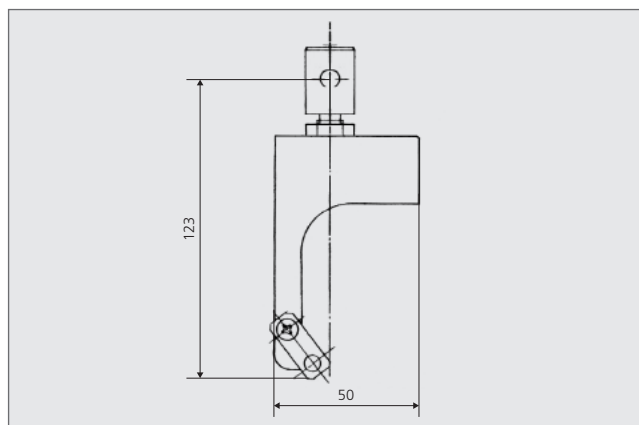
Specimen held between the roller and the grip base



Self-clamping action of upper and lower grips

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			
kN	kgf	lbf	mm (in)	mm (in)	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
1	100	220	0 to 5 (0 to 0.20)	40 (1.6)	8 (0.31)	-70 to 250 (-94 to 482)	50 (2.0)	85 (3.3)	0.6 (1.3)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description
343-07627-10	1 kN Henry Scott Grip Set Includes: upper and lower 1 kN Henry Scott grips

First Edition: February, 2015



Company names, product/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services. Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

For Research Use Only. Not for use in diagnostic procedures.
The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.