

2713 Series Self-Tightening Roller Grips

Catalog Number 2713-007

The self-tightening grips are primarily designed for the precision testing of elastomeric and other flexible materials exhibiting a large reduction in cross-section area under load. They provide excellent testing accuracy, positive non-slip gripping action and are quick and simple-to-use. The upper grip is counter balanced so that the specimen can be aligned with the load cell to eliminate non-axial forces.

Principle of Operation

The self-tightening grip uses a snubbing type clamping action which increases the holding force as the load increases which prevents the specimen from creeping out of the grip. Specimen insertion is extremely easy and spring pressure of the roller bracket is sufficient to hold the material until a load is imposed. The grips are supplied with smooth snubbing rollers, and hard rubber-covered snubbing rollers for testing of thin films.

Features

- Rated capacity: 1 kN (100 kgf, 225 lbf)
- Fast action for rapid specimen insertion to increase testing throughput
- Positive, non-slip gripping action for accurate results
- Ideal for testing elastomers, flexible plastics, and thin films
- Rugged design for minimum maintenance
- Designed for use in ambient and non-ambient testing conditions
- Temperature range: -70 °C to +150 °C (-94 °F to +302 °F)

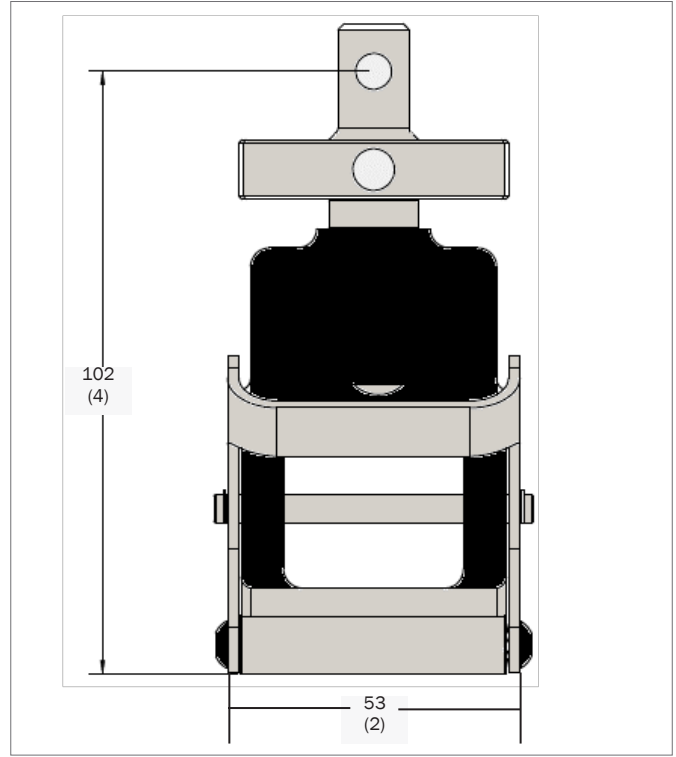
Application Range

- Type of loading: Tension. Not suitable for through zero/reverse stress or fatigue testing
- Specimen material: Thin sheets, films, flexible plastic and elastomers
- Specimen shapes: Flat specimen with or without shoulder tab ends





Rubber Coated Roller



Effective Length

Specification Table

Catalog Number	Capacity			Width (A)		Upper Fitting	Lower Fitting	Effective Length		Temperature Range		Weight	Working Principle	Gripping Force	Roller Diameter (smooth coated/ rubber coated)		Maximum Specimen Width		
	kN	kgf	lbf	mm	in			mm	in	°C	°F				g	lb	mm	in	mm
2713-007	1	100	225	53	2	6 mm clevis pin (Type Om)	6 mm clevis pin (Type Om)	102	4	-70 to +150	-94 to +302	411	0.9	Snubbing type clamping action	Clamping force increases with applied force	10	0.4	43	1.7
																12	0.5		

Notes:

1. Grip catalog number provides two grips.
2. Grips may require mechanical attachment coupling to connect to the load cell or machine base.
3. Rubber-coated rollers are limited to a temperature range of -20 °C to +115 °C (-4 °F to +239 °F).

