

200 N and 1 kN Roller Grips

This roller grip set includes both 200 N (44 lbf) and 1 kN (220 lbf) roller grips for tensile testing elastomeric ring specimens. The 200 N grips have a 4.5 mm (0.18 in) diameter roller. The diameter of the roller on the 1 kN grips is 25 mm (0.98 in).

During testing, as the crosshead moves, a chain connecting the bottom grip and the crosshead rotates, causing the ring specimen to rotate, ensuring symmetric testing of the specimen. Due to this crosshead connection, roller grip sets are tailored to specific testing machine models.

Relevant Materials

Rubber

Relevant Specimens

Rings

Relevant Standards

ISO 37, ASTM D412, JIS K6251, JIS K7312

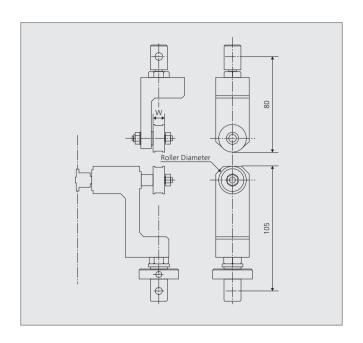


Operation

For the 200 N grips, a knurled knob allows access to the roller on the upper grip. The specimen is suspended between this roller and the open, bottom roller. On the 1 kN grips, the upper and lower grips are both equipped with an open roller. The specimen is looped between these two rollers.

Specification

Maximum Roller Capacity			Roller Diameter Note 1	Temperature Range	Grip Size			Hanna Cuin	Lauran Cuin
					Width	Length Upper / Lower Note 2	Upper Grip Mass	Upper Grip Ø Fitting (Ø pin)	Lower Grip Ø Fitting (Ø pin)
N	kgf	lbf	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
1,000	100	220	25 (0.98)	-10 to 60 (14 to 140)	11 (0.43)	80 / 105 (3.1 / 4.1)	0.5 (1.1)	16 (6.5)	16 (6.5)
200	20	44	4.5 (0.18)	-10 to 60 (14 to 140)	6 (0.24)	80 / 105 (3.1 / 4.1)	0.5 (1.1)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description					
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	200 N and 1 kN Roller Grip Sets for AG-X Plus Models Includes: 200 N upper and lower roller grips and 1 kN upper and lower roller grips					
346-50635-25	200 N and 1 kN roller grip set for AG-X plus 250/300 kN standard floor model					
346-50635-24	200 N and 1 kN roller grip set for AG-X plus 100 kN standard floor model					
346-50635-23	200 N and 1 kN roller grip set for AG-X plus 50 kN floor model					
346-50635-28	200 N and 1 kN roller grip set for AG-X plus 50 kN tabletop model					
346-50635-22	200 N and 1 kN roller grip set for AG-X plus 20 kN floor model					
346-50635-27	200 N and 1 kN roller grip set for AG-X plus 20 kN tabletop model					
346-50635-29	200 N and 1 kN roller grip set for AG-X plus 10 kN tabletop model					
346-50635-30	200 N and 1 kN roller grip set for AG-X plus 1 kN and 5 kN table-top model (Not applicable to column extension models)					
200 N and 1 kN Roller Grip Sets for AGS-X Models Includes: 200 N upper and lower roller grips and 1 kN upper and lower roller grips						
346-50636-26	200 N and 1 kN roller grip set for AGS-X 10 kN tabletop standard height model					
346-50636-27	200 N and 1 kN roller grip set for AGS-X 10 kN tabletop model with a 250 mm column extension					
346-50636-28	200 N and 1 kN roller grip set for AGS-X 10 kN tabletop model with a 500 mm column extension					
346-50635-77	200 N and 1 kN roller grip set for AGS-X 20 kN tabletop model					
346-50635-78	200 N and 1 kN roller grip set for AGS-X 50 kN tabletop model					
346-50635-74	200 N and 1 kN roller grip set for AGS-X 100 kN floor model					
346-50635-75	200 N and 1 kN roller grip set for AGS-X 300 kN floor model					



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