SELF TIGHTENING GRIPS



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INTERNET www.force-gauge.net





TG20: Self Tightening Bollard Grip 1 kN (225 lbf)

Description

Self Tightening Bollard Grip. The sample is mounted over the bollard and tucked down between the bollard and the shank of the grips.

Specification

Maximum Capacity	1 kN	225 lbf	
Minimum Load Cell	20 N	4.5 lbf	
Maximum Sample Width	50 mm	2.0 in	
Maximum Sample Thickness	4 mm	0.16 in	
Eye End Diameter	15.85mm	0.62 in	
Weight Each	0.4 Kg	0.88 lb	
Length Each	85 mm	3.3 in	
Temperature Limits	-70°C +200°C	-158°F +392°F	

Applications

Tensile testing of paper, thin plastic film and textiles by stretching a sample to break and recording the relationship between force and extension.





Description

Self Tightening Roller Grip. Incorporating a sliding, self tightening roller, suitable for ductile flat specimens. The gripping rollers have a cross hatched, serrated finish.

Specification

Maximum Capacity	2 kN	450 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Width	25 mm	1.0 in
Maximum Sample Thickness	5 mm	0.2 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.25 Kg	0.6 lb
Length Each	70 mm	2.8 in
Temperature Limits	-70°C +200°C	-158°F +392°F

Applications

Tensile testing of flat, ductile and rigid specimens greater than 1.5mm thick by stretching a sample to break, and recording the relationship between force and extension.



GF-6: Narrow Width Rubber and Fabric Grip

Description

Eccentrically mounted serrated rollers self-tighten on the sample when load is applied. A ball socket mounting screw in the upper grip assures proper alignment between grips.

Specification

Maximum Capacity	1 kN	200 lbf
Distance Between Faces	6 mm	0.25 in
Face Width	25 mm	1.0 in
Combined Grip Length	165 mm	6-1/2 in
Upper Grip Weight	0.2 Kg	0.44 lb

Applications

Tensile testing of narrow width rubber and fabric by stretching a sample to break and recording the relationship between force and extension.





GF-7: Standard Width Rubber and Fabric Grip

Description

Eccentrically mounted serrated rollers self-tighten on the sample when load is applied. A ball socket mounting screw in the upper grip assures proper alignment between grips.

Specification

Maximum Capacity	1 kN	200 lbf
Distance Between Faces	6 mm	0.25 in
Face Width	75 mm	3.0 in
Combined Grip Length	165 mm	6-1/2 in
Upper Grip Weight	0.5 Kg	1.1 lb

Applications

Tensile testing of standard width rubber and fabric by stretching a sample to break and recording the relationship between force and extension.



TG22: Eccentric Roller Grip 50 mm (2.0 in) Sample Width

Description

General Purpose Self Tightening Eccentric Roller Grip for dumbbell and flat samples. The roller is self-tightenin, and operates using a basic cam jamming principle. It has a cross hatched, serrated finish and clamps tightly against a horizontally grooved back plate.

Specification

Maximum Capacity	1 kN	225 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Width	50 mm	2.0 in
Maximum Sample Thickness	5 mm	0.2 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.5 Kg	1.1 lb
Length Each	85 mm	3.3 in
Temperature Limits	-70°C +200°C	-158°F +392°F

Applications

Tensile testing of sheet materials, polymers and rubbers by stretching a sample to fracture and recording the relationship between force and extension

TG10: Eccentric Roller Grip 25 mm (1.0 in) Sample Width

Description

General Purpose Self Tightening Eccentric Roller Grip for dumbbell and flat samples. The roller is self-tightenin, and operates using a basic cam jamming principle. It has a cross hatched, serrated finish and clamps tightly against a horizontally grooved back plate.

Specification

Maximum Capacity	1 kN	225 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Width	25 mm	1.0 in
Maximum Sample Thickness	5 mm	0.2 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.25 Kg	0.6 lb
Length Each	83 mm	3.3 in
Temperature Limits	-70°C +200°C	-158°F +392°F

Applications

Tensile testing of sheet materials, polymers and rubbers by stretching a sample to fracture and recording the relationship between force and extension



ORDERING INFORMATION

Model	Part No.	Description
TG20	01/1453	1 kN Self Tightening Bollard Grip
TG14	GPS/0002/00	2 kN Self Tightening Roller Grip
GF-6	Chatillon GF6	Narrow Width Rubber and Fabric Grip
GF-7	Chatillon GF7	Standard Width Rubber and Fabric Grip
TG22	01/2091	1 kN Self Tightening Eccentric Roller Grip (50 mm Sample Width)
TG10	01/2092	1 kN Self Tightening Eccentric Roller Grip (25 mm Sample Width)

