

SELF TIGHTENING GRIPS



SPECIFICATION
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INTERNET
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www.chatillon.com
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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	Ambient	

Applications

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



TG14: 2 kN (450 lbf) Self Tightening Roller Grip

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	1 kN	225 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Width	50 mm	4.0 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	85 mm	3.3 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.



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-tightening, 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	Ambient	

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-tightening, 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	Ambient	

Applications

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





TG210: 10 kN Self Tightening Scissor Grips

Description

General Purpose, self tightening grips for dumbbell and flat specimens. The jaw faces have a cross hatch serated surface with a pitch of 1.5mm

Specification

Maximum Capacity	10kN	2248 lbf
Minimum Load Cell	50N	11.2 lbf
Maximum Sample Width	100mm	3.94 in
Maximum Sample Thickness	35mm	1.38 in
Eye End Diameter	15.85mm	0.62 in
Weight Each	1.5Kg	3.31 lb
Distance Between faces	35mm	1.38 in
Temperature Limits	0°C +200°C	32°F +392 °F

Applications

General purpose grips for tensile testing of rigid flat materials ranging from metals to composites by stretching a sample to break 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
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)
TG210	01/2098	10 kN Self Tightening Scissor Grip

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