



## Bollard Style Tensile Grips



Grip Reference HT56



Grip Reference HT33



Grip Reference HT34

**Description:** Elastic filament grip. Fitted with rubber faced jaws, spring loaded to retain the specimen prior to applying the final gripping pressure via a knurled thumb wheel.

**Used On:** Benchtop materials testing machines

**Applications:** Elastic and nylon filaments, threads and yarns

**Specifications:**

Max. Capacity	1.5 kN/300 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	5 mm/0.2 in
Max Specimen Thickness	2.5 mm/0.1 in
Length Each	80 mm/3.15 in
Weight Each	170 g/0.37 lb
Temperature Limits	-30 to 70 °C

**Description:** Single bollard grip. The free end of the test specimen is held in a vise clamp. The specimen is then wrapped around a single friction bollard; this friction bollard reduces the concentration of stress at the clamping point and prevents premature breakage of the specimen.

**Used On:** Benchtop materials testing machines

**Applications:** Yarn, threads, wool, cables, fishing line

**Specifications:**

Max. Capacity	2 kN/400 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Diameter	5 mm/0.2 in
Length Each	70 mm/2.75 in
Weight Each	350 g/0.77 lb
Temperature Limits	-30 to 70 °C

**Description:** Soft wire grip. The clamping force on the wire is exerted between two aluminum discs.

**Used On:** Benchtop materials testing machines

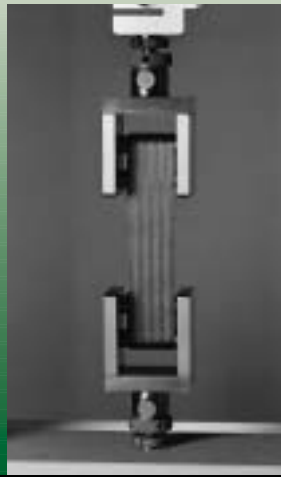
**Applications:** Fine ductile wire

**Specifications:**

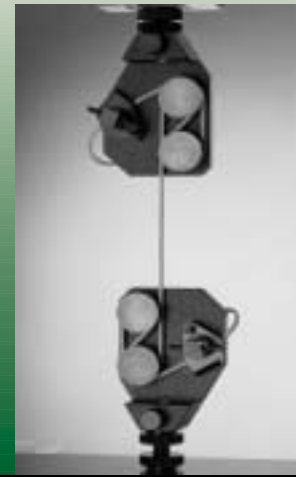
Max. Capacity	2 kN/400 lbf
Min Loadcell	20 N/4 lbf
Max Specimen Diameter	1.5mm/0.06 in
Length Each	80 mm/3.14 in
Weight Each	140 g/0.31 lb
Temperature Limits	-30 to 70 °C



Grip Reference HT29



Grip Reference HT43



Grip Reference HT32

**Description:** Single bollard self-tightening grip. The specimen is wrapped around the split bollard and retained between two serrated jaw faces. The large circumference of the bollard reduces the concentration of stress within the specimen at the point of clamping thereby preventing breaks occurring between the jaw faces.

**Used On:** Benchtop materials testing machines

**Applications:** Light ropes, cords cables flexible tubing, flexible tape, fishing line

**Specifications:**

Max. Capacity	10 kN/2,000lbf
Min Loadcell	100 N/20 lbf
Max Specimen Width	30 mm/1.2 in
Max Specimen Thickness	15 mm/0.6 in
Length Each	130 mm/5.1 in
Weight Each	1 kg/2.2 lb
Temperature Limits	-30 to 70 °C

**Description:** Designed for testing fabric, webbing, strapping, and similar materials. The specimen is wrapped around the 2" (50 mm) diameter smooth spools with its end securely held between the serrated faces of the split spools.

**Used On:** LoCaps, benchtop testers, Super L hydraulic testers machines and Electomatic materials testing machines with closed crossheads

**Applications:** Fabric, webbing, strapping, and other similar flexible flat material

**Specifications:**

Maximum Capacity	11kN/5,000 lbf
Max. Width	23mm/0.9 in
Max. Thickness	7.6 mm/0.3 in
Length Each	40 mm/1.6 in
Weight Each <sup>1</sup>	50 g/0.33 lb
Temperature Limits	-30 to 70 °C

**Description:** Double bollard grip. A vise clamp holds the free end of the specimen, the specimen is then wrapped around two bollards in a figure 8 configuration. Friction on the bollards reduces the stress at the clamp point, preventing premature failure of the specimen.

**Used On:** Benchtop materials testing machines

**Applications:** Light rope, ductile wire and cord

**Specifications:**

Max. Capacity	20kN/4,000 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Diameter	6 mm/0.23 in
Length Each	135 mm/5.3 in
Weight Each	850 g/1.87 lb
Temperature Limits	-30 to 70 °C

High and low temperature options available for use in temperature chambers.  
Specifications subject to change without notice.

**Contact Your Local Representative:**



1065 Easton Road  
Horsham, PA 19044 USA  
(215) 675-7100  
Fax (215) 441-0899  
www.TiniusOlsen.com  
info@TiniusOlsen.com

6 Perrywood Business Park  
Honeycrock Lane, Salfords  
Redhill, Surrey RH1 5DZ England  
+44 (0) 1737 765001  
Fax +44 (0) 1737 764768