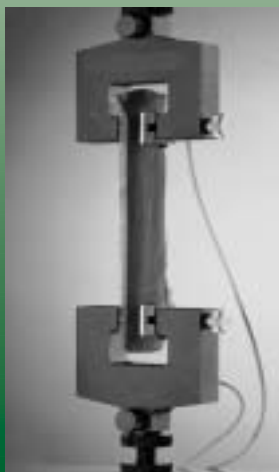




# Pneumatic and Hydraulic Style Tensile Grips



Grip Reference HT58



Grip Reference HT42



Grip Reference HT44

**Description:** Light weight low gripping pressure pneumatic vice grips. Ideally suited for use with low force capacity loadcells. Unique line contact jaw solution delivers maximum gripping pressure while minimizing premature grip breaks.

**Use On:** Benchtop materials testing machines

**Applications:** Fiber, Lycra, yarn, wool, hair

**Specifications:**

Max. Capacity	150 N/33 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	typical fibers
Length Each	100 mm/4 in
Weight Each	19 g/0.04 lb
Temperature Limits	Ambient
Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar

**Options:**

HT400 series of pneumatic control consoles

**Description:** Light duty pneumatic vice grip. Single pneumatically operated jaw closes to clamp specimen against fixed jaw. Fixed jaw location can be adjusted to accommodate differing thicknesses. Interchangeable jaw options available.

**Use On:** Benchtop materials testing machines

**Applications:** Rubber, plastics, films and paper; recommended as part of some textile test systems

**Specifications:**

Max. Capacity	500 N/100 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	5 mm/0.2 in
Gripping Length	25 mm/1 in
Length Each	105 mm/4 in
Weight Each	700 g/1.5 lb
Temperature Limits	Ambient
Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar

**Options:**

HT400 series of pneumatic control consoles  
 Rubber faced jaws – 25 mm high and 25, 50, or 75 mm wide  
 Plain steel faced jaws – 25 mm high and 25, 50, or 75 mm wide  
 Fine serrated faced jaws – 25 mm high and 25, 50, or 75mm wide  
 Line contact jaw sets – 75 mm wide

**Description:** Pneumatic vice grip comprised of one fixed jaw and one pneumatically operated jaw. Ideally suited for gripping small flexible specimens when using contacting or non-contacting extensometers.

**Use On:** Benchtop materials testing machines

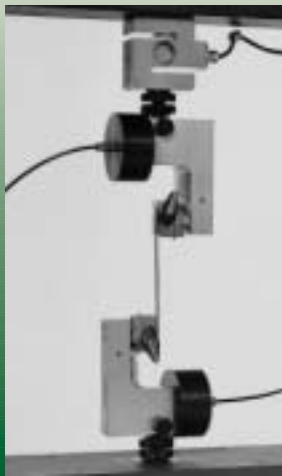
**Applications:** Flat flexible materials, textiles, paper, film, and polymers

**Specifications:**

Max. Capacity	1 kN/200 lbf
Min Loadcell	100 N/20 lbf
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	3 mm/0.12 in
Gripping length	10 mm/0.4 in
Length Each	105 mm/4 in
Weight Each	700 g/1.5 lb
Temperature Limits	Ambient
Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar

**Options:**

HT400 series of pneumatic control consoles  
 Rubber faced jaws – 25 mm high and 25, 50, or 75 mm wide  
 Plain steel faced jaws – 25 mm high and 25, 50, or 75 mm wide  
 Fine serrated faced jaws – 25 mm high and 25, 50, or 75 mm wide  
 Rubber faced "Grab" jaw sets  
 Line contact jaw sets – 75 mm wide



Grip Reference HT57



Grip Reference HT45



Grip Reference HT400

**Description:** Pneumatic bollard "Horn" type grips. Bollard reduces stress concentration on test specimen to avoid a grip induced break.

**Use On:** Benchtop materials testing machines

**Applications:** Cords, filaments, fibers, fine wire, tire cord, hose reinforcement

**Specifications:**

Max. Capacity	1.5 kN/300 lbf
Min Loadcell	500 N/100 lbf
Max Specimen Diameter	4 mm/0.16 in
Length Each	150 mm/ 5.9 in
Weight Each	1.4 kg/3.08 lb
Temperature Limits	Ambient
Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar

**Options:**

HT400 series of pneumatic control consoles  
Higher capacity models (3, 5, and 10 kN)  
and larger diameter bollards available.

**Description:** Dual action pneumatically operated jaws clamp specimen on center line and maintain position even when specimen reduces thickness during test. Interchangeable jaw options.

**Use On:** Benchtop materials testing machines

**Applications:** Flat flexible materials, textiles, paper, film, and polymers

**Specifications:**

Max. Capacity	5 kN/1,000 lbf
Min Loadcell	500 N/100 lbf
Max Specimen Width	75 mm/3 in
Max Specimen Thickness	10 mm/0.4 in
Length Each	160 mm/6.3 in
Weight Each	1.7 kg/3.75 lb
Temperature Limits	Ambient
Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar

**Options:**

HT400 series of pneumatic control consoles  
Rubber faced jaws – 25 mm high and 25, 50, 75, or 100 mm wide  
Plain steel faced jaws – 25 mm high and 25, 50, 75, or 100 mm wide  
Fine serrated faced jaws – 25 mm high and 25, 50, 75, or 100 mm wide  
"Sandvic" faced jaws - 25 mm high and 25, 50, 75, or 100 mm wide  
Crosshatch faced jaws - 25 mm high and 25, 50, 75, or 100 mm wide  
Line contact jaw sets – 75 mm wide

**Description:** HT400 pneumatic control unit is to guarantee safe operation and control air flow to pneumatic vice grips. Unit allows independent closing at low pneumatic pressure of upper and lower grips to allow fast, easy, and safe loading of specimen. Full grip pressure is actuated using both hands on control unit, away from jaw closing area.

**Use On:** Benchtop materials testing machines

**Applications:** For use with pneumatically actuated grips and accessories

**Specifications:**

Operating Air Supply*	80 to 100 psi/ 5.5 to 7 bar
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**Options:**

HT400 foot switch actuation  
HT401 foot switch actuation with integral air pressure display and adjustment  
HT402 built in toggle switch actuation  
HT403 built in toggle switch with integral air pressure display and adjustment

**Note:** HT400 units must be ordered with all pneumatic grips to meet standard international and industrial health and safety requirements.

High and low temperature options available for use in temperature chambers.

Specifications subject to change without notice.

\* Clean, moisture free, constant air supply required for all grips.

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