Tinius Olsen

Vise Style Tensile Grips

Grip Reference HT50

Grip Reference HT51

Grip Reference HT55

Description: Ultra light vise grip. This grip uses an easy to operate screw action and is fitted with flat rubber coated jaw faces.

Used On: Benchtop materials testing machines

Applications: Sheet materials, paper, plastic films, and waxed paper

Specifications:

Max. Capacity	1.5 kN/300 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	60 mm/2.3 in
Max Specimen Thickness	5 mm/0.2 in
Gripping Length	18 mm/0.7 in
Length Each	75 mm/3 in
Weight Each	380 g/0.83 lb
Temperature Limits	-30 to 70 °C

Description: General purpose side loading vice clamp with 25 x 25 mm (1 x 1 in) rubber faced jaws. The open face design allows easy loading of thin non rigid specimens.

Used On: Benchtop materials testing machines

Applications: Flexible sheet materials, paper, film, and polymers

Specifications:

Max. Capacity	1.5 kN/300 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	2.5 mm/0.1 in
Gripping length	25 mm/1 in
Length Each	75 mm/3 in
Weight Each	240 g/0.5 lb
Temperature Limits	-30 to 70 °C

Description: Ultra light vise grip with a hinged front specimen clamping plate for easy loading and unloading of the test specimen. Vise gripping pressure is applied via a screw action. The vise jaws are rubber coated.

Used On: Benchtop materials testing machines

Applications: Sheet materials, paper, plastic films, medical and packaging components

Specifications:

Max. Capacity	1.5 kN/300 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	60 mm/2.36 in
Max Specimen Thickness	5 mm/0.2 in
Gripping Length	18 mm/0.7 in
Length Each	75 mm/3 in
Weight Each	380 g/0.83 lb
Temperature Limits	-30 to 70 °C

Note: A 100 mm/4 in wide version of this grip is available

Grip Reference HT54

Description: Miniature vise clamp grip, general purpose tensile grip that uses a pivot action to initially grip the specimen and a clamping screw to tighten the vise. Rubber faced jaws prevent specimen slippage. The design of the grip allows easy and accurate setting of the distance between jaws.

Used On: Benchtop materials testing machines

Applications: Thin ductile wire, yarn, and wool

Specifications:

Max. Capacity	2 kN/400 lbf
Min Loadcell	20 N/4 lbf
Max Specimen Width	10 mm/0.4 in
Max Specimen Thickness	2 mm/0.08 in
Length Each	80 mm/3.15 in
Weight Each	100 g/0.22 lb
Temperature Limits	-30 to 70 °C

Grip Reference HT46

Description: Medium duty vise grip where gripping pressure is exerted on the specimen via a large handwheel. A variety of gripping jaws and faces are available and must be ordered separately; these include corrugated (note — corrugations are graduated from the back of the jaw to minimize jaw breaks at the point where the specimen enters the jaw) serrated, plain steel, rubber faced and “grab” jaws. For grab test, specify back fixed jaw as either 50 or 75 mm wide and the front moving jaw 25 x 25 mm.

Used On: Benchtop materials testing machines

Applications: Paper, plastic film, woven and non-woven textiles

Specifications:

Max. Capacity	10 kN/2,000 lbf
Min Loadcell	100 N/20 lbf
Max Specimen Width	80 mm/3.15 in
Max Specimen Thickness	4 mm/0.15 in
Gripping Length	50 mm/2 in
Length Each	100 mm/4 in
Weight Each	1 kg/2.2 lb
Temperature Limits	-30 to 70 °C

Grip Reference HT40

Description: Heavy duty vise grip. Considerable gripping pressure can be exerted on via a large handwheel. A variety of jaws and faces are available for order separately; these include corrugated (corrugations are graduated from back of jaw to minimize jaw breaks at the point where specimen enters jaw), serrated, plain steel, rubber faced, and “grab” jaws. For grab test, specify back fixed jaw as either 50 or 75 mm wide and the front moving jaw 25 x 25 mm.

Used On: Benchtop materials testing machines

Applications: Flexible sheet materials including non-wovens, textiles, plastic film, foam and insulating materials

Specifications:

Max. Capacity	20 kN/4,000 lbf
Min Loadcell	500 N/100 lbf
Max Specimen Width	100 mm/4 in
Max Specimen Thickness	10 mm/0.4 in
Gripping Length	50 mm/2 in
Length Each	150 mm/6 in
Weight Each	2.8 kg/6 lb
Temperature Limits	-30 to 70 °C

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

Specifications subject to change without notice.

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