



Tensile Grips



Grip Reference HT22



Grip Reference HT23



Grip Reference HT24

Description: Light scissor grip. Self tightening and self aligning grips that use two knurled rollers; the grip is particularly efficient for testing flexible dumbbell specimens. The center line of the specimen remains constant in relation to the test machine, irrespective of the specimen thickness.

Used On: Benchtop materials testing machines

Applications: Suitable for gripping foil, rubber, and flexible polymers

Specifications:

Max. Capacity	2 kN/450 lbf
Min Loadcell	50 N/10 lbf
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	12 mm/0.5 in
Length Each	110 mm/4.3 in
Weight Each	150 g/0.33 lb
Temperature Limits	-30 to 70 °C

Description: Tension hooks for use in component testing often used individually in conjunction with other gripping devices. Variations of the hook profile are available to suit the component under test as well as a self-aligning option.

Used On: Benchtop materials testing machines

Applications: Tension springs, zip components, canned drink ring pulls, and medical components

Specifications:

Max. Capacity	2.5 kN/500 lbf
Min Loadcell	50 N/10 lbf
Length Each	82 mm/3.2 in
Weight Each	300 g/0.66 lb
Temperature Limits	-30 to 70 °C

Note: Hook profile and required dimensions must be considered and included on order

Description: Dumbbell grip. Designed for holding thick rigid dumbbells. The curved shoulder of the dumbbell is located between two bollards. With no clamping necessary, specimens can be loaded into the grip very quickly.

Used On: Benchtop materials testing machines.

Applications: Rigid polymer dumbbells typically cut from section of gas and water pipe

Specifications:

Max. Capacity	10 kN/2,000lbf
Min Loadcell	50 N/1,000 lbf
Gripping Length	See Note
Max Specimen Width	See Note
Max Specimen Thickness	16 mm/0.63 in
Length Each	110 mm/4.3 in
Weight Each	800 g/1.7 lb
Temperature Limits	-30 to 70 °C

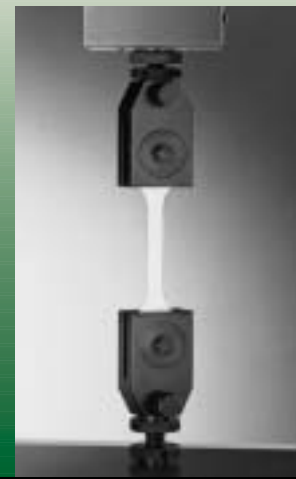
Note: Dumbbell conforms to ASTM D638 type iv, BS2782 Part 3 Method 320A Fig 1., DIN53455 No 4 Fig 3



Grip Reference HT25



Grip Reference HT19



Grip Reference HT31

Description: Cement briquette chucks. A non clamping chuck with an internal profile conforming to the British Standard for the cast cement test.

Used On: Benchtop materials testing machines

Applications: Cast cement briquettes and resin bonded sand briquettes

Specifications:

Max. Capacity	10 kN/2,000 lbf
Min Loadcell	100 N/20 lbf
Max Specimen Width	See Note
Max Specimen Thickness	See Note
Length Each	90 mm/3.5 in
Weight Each	1 kg/2.2 lb
Temperature Limits	-30 to 70 °C

Note: Specimen conforms to BS6319 Part B.

Description: Hardened split collet chucks for holding turned dumbbell test pieces. Precise shoulder radius to prevent premature test piece breaking within the grip. Internal profile options must be considered and ordered to accommodate specific test specimen dimensions.

Used On: Benchtop materials testing machines

Applications: Metals round turned test specimens used especially where only a limited amount of material is available to produce the specimen — for example from an alloy automobile wheel; also widely used in education for demonstration of materials performance and behavior

Specifications:

Max. Capacity	20kN/4,000lbf
Min Loadcell	50 N/10 lbf
Specimen Profile	Type A-B for 5 mm dia
Specimen Profile	Type C-D for 7 mm dia
Specimen Profile	Type E-F for 10 mm dia
Length Each	40 mm/1.6 in
Weight Each	150 g/0.33 lb
Temperature Limits	-30 to 70 °C

Description: Dumbbell grips designed for flat rigid dumbbells. The prepared testpiece, with an 8 mm diameter hole drilled in each end, is located between two serrated dies. The dies are clamped on the testpiece with a high tensile bolt.

Used On: Benchtop materials testing machines

Applications: Sheet metal or plywood dumbbell test pieces.

Specifications:

Max. Capacity	20 kN/4,000lbf
Min Loadcell	50 N / 10 lbf
Serrated Die Diameter	38 mm / 1.5 in
Bolt Diameter	7.9 mm/0.31in
Max Specimen Thickness	6 mm / 0.23 in
Length Each	86 mm/3.39 in
Weight Each	650 g / 1.43 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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