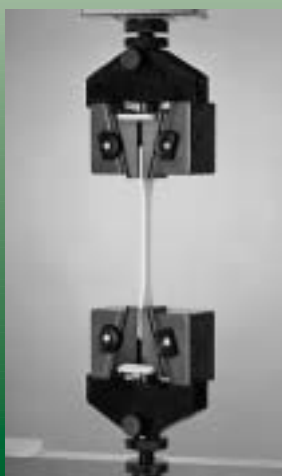




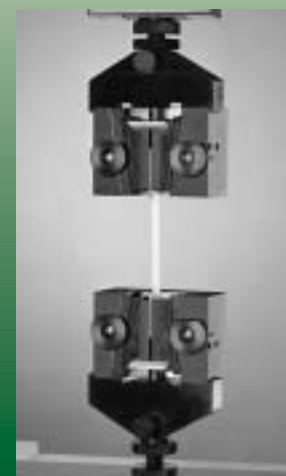
## Wedge Style Tensile Grips



Grip Reference HW10



Grip Reference HB15



Grip Reference HW16

**Description:** Self tightening wedge grips with spring loaded wedges to provide the initial gripping and allow rapid loading of the specimen. A variety of gripping wedges and faces are available and must be ordered separately; these can be serrated jaw faces or cross hatched jaw faces for gripping flat specimens, or V profile wedges are available for gripping round sections up to 15mm (6/10th inch).

**Used On:** Benchtop materials testing machines

**Applications:** Recommended for gripping relatively soft materials in parallel or dumbbell form. Typical materials include copper, semi-rigid plastics, and small components with flat surfaces; ideally the overall specimen length should be greater than 150 mm (6 in)

**Specifications:**

Max. Capacity	10 kN/2,000 lbf
Min Loadcell	250 N/50 lbf
Gripping Length	50 mm/2 in
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	8 mm/0.3 in
Length Each	120 mm/5 in
Weight Each	1.8 kg/4 lbf
Temperature Limits	-30 to 70 °C

**V Profile Jaw Face Options**

HW10R8	4 – 8 mm/0.15 – 0.31 in dia
HW10R10	6 – 10 mm/0.23 – 0.4 in dia
HW10R15	10 – 15 mm/0.4 – 0.6 in dia

**Description:** Self tightening bollard wedge grips; the combination of a wedge and bollard provides an efficient method of gripping low friction flexible materials. A lever release allows rapid loading of the test specimen.

**Used On:** Benchtop materials testing machines

**Applications:** Flexible low friction materials such as polypropylene strapping, PTFE tape, roofing felts etc.; ideally the overall specimen length should be greater than 350 mm (14 in)

**Specifications:**

Max. Capacity	10 kN/2,000lbf
Min Loadcell	500 N/100 lbf
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	3 mm/0.1 in
Length Each	130 mm/5.1 in
Weight Each	2.2 kg/4.5 lbf
Temperature Limits	-30 to 70 °C

**Description:** Quick release wedge grips with spring loaded serrated wedges to allow rapid loading of the specimen. High gripping forces are achieved by using a steep wedge angle that approaches a self locking action. The linear ballrace wedge slides allow the wedges to tighten on the specimen more efficiently and prevent self locking. Optional V profile wedges are available for gripping round sections up to 5 mm (1/5 inch).

**Used On:** Benchtop materials testing machines

**Applications:** Recommended for hard surface materials in parallel or dumbbell form; ideally the overall specimen length should be greater than 150 mm (6 in)

**Specifications:**

Max. Capacity	10 kN/2,000lbf
Min Loadcell	500 N/100 lbf
Gripping Length	50 mm/2 in
Max Specimen Width	25 mm/1 in
Max Specimen Thickness	4 mm/0.15 in
Length Each	120mm/4.75in
Weight Each	2.2 kg/4.5 lbf
Temperature Limits	-30 to 70 °C

**V Profile Jaw Face Options**

HW16R2	1 – 2 mm/0.04 – 0.08 in dia
HW16R5	3 – 5 mm/0.12 – 0.2 in dia



Grip Reference HW20



Grip Reference HW21



Grip Reference HW14

**Description:** Self tightening wedge grips; wedges remain stationary when applying initial force on the specimen via the handwheel, thus avoiding excessive compression of specimen prior to test. A variety of gripping wedges and faces are available and must be ordered separately; these can be serrated or cross hatched jaw faces for gripping flat specimens, or V profile wedges are available for gripping round sections up to 15mm (6/10th inch).

**Used On:** Benchtop materials testing machines

**Applications:** Suitable for gripping high strength rigid material in parallel or dumbbell form; ideally the overall specimen length should be greater than 150 mm (6 in)

**Specifications:**

Max. Capacity	25 kN/5,000 lbf
Min Loadcell	500 N/100 lbf
Gripping Length	50 mm/2 in
Max Specimen Width	30 mm/1.2 in
Max Specimen Thickness	15 mm/0.6 in
Length Each	210 mm/8.3 in
Weight Each	6.3 kg/14 lbf
Temperature Limits	-30 to 70 °C

**V Profile Jaw Face Options**

HW20R5	3 – 5 mm/0.12 – 0.2 in dia
HW20R8	4 – 8 mm/0.15 – 0.31 in dia
HW20R10	5 – 10 mm/0.2 – 0.4 in dia
HW20R15	8 – 15 mm/0.31 – 0.6 in dia

**Description:** Self tightening wedge grips; wedges remain stationary when applying initial force on the specimen via the handwheel, thus avoiding excessive compression of specimen prior to test. A variety of gripping wedges and faces are available and must be ordered separately; these can be serrated or cross hatched jaw faces for gripping flat specimens, or V profile wedges are available for gripping round sections up to 15 mm (6/10th inch).

**Used On:** Benchtop materials testing machines

**Applications:** Suitable for gripping high strength rigid material in parallel or dumbbell form; ideally the overall specimen length should be greater than 150 mm (6 in)

**Specifications:**

Max. Capacity	50 kN/10,000 lbf
Min Loadcell	500 N/100 lbf
Gripping Length	50 mm/2 in
Max Specimen Width	30 mm/1.2 in
Max Specimen Thickness	15 mm/0.6 in
Length Each	210 mm/8.3 in
Weight Each	6.3 kg/14 lbf
Temperature Limits	-30 to 70 °C

**V Profile Jaw Face Options**

HW20R5	3 – 5 mm/0.12 – 0.2 in dia
HW20R8	4 – 8 mm/0.15 – 0.31 in dia
HW20R10	5 – 10 mm/0.2 – 0.4 in dia
HW20R15	8 – 15 mm/0.31 – 0.6 in dia

**Description:** Self tightening wedge grips; wedges stay stationary when applying initial force to avoid excess compression of specimen prior to test. Variety of wedges and faces are available for order separately; these can be serrated or cross hatched jaw faces for flat specimens or V profile wedges for round sections up to 25 mm (1 inch).

**Used On:** Benchtop machines and High Force Electromechanical testers

**Applications:** High strength rigid material in parallel or dumbbell form; specimen length should be greater than 200 mm (8 in)

**Specifications:**

Max. Capacity	100 kN/20,000 lbf
Min Loadcell	5 kN/1,000 lbf
Gripping Length	75 mm/3 in
Max Specimen Width	50 mm/2 in
Max Specimen Thickness	12 mm/0.5 in
Length Each	310 mm/12.2 in
Weight Each	16 kg/35 lbf
Temperature Limits	-30 to 70 °C

**V Profile Jaw Face Options**

HW14R8	4 – 8 mm/0.15 – 0.31 in dia
HW14R15	5 – 15 mm/0.2 – 0.6 in dia
HW14R20	14 – 20 mm/0.55 – 0.8 in dia
HW14R25	20 – 25 mm/0.8 – 1 in dia



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