**Flexural Tools**

**Grip Reference HF508**

**Description:** Short span 4 point, fixed span flexural test attachment comprised of base and upper units, each with two points of contact. Upper unit is semi-articulating and all points of contact are free to rotate to minimize any frictional constraints.

**Use On:** Benchtop materials testing machines

**Applications:** Ceramics at ambient temperatures

**Specifications:**
- Max. Capacity: 5 kN/1,000 lbf
- Min Loadcell: 250 N/50 lbf
- Lower fixed spans: 20, 40, or 80 mm/0.8, 1.58, or 3.15 in
- Upper fixed spans: 10, 20 or 40 mm/0.4, 0.8 or 1.58 in
- Radius of Contact Anvils: 1, 1.25, 2.25 or 4.5 mm/0.04, 0.05, 0.09, 0.18 in
- Max Specimen Width: 8 mm/0.2 in
- Weight of upper contact: 0.35 kg/0.75 lb
- Temperature Limits: Ambient

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**Grip Reference HF630**

**Description:** Fixed span three point flexural test attachment comprised of base unit with two support contact points and one upper point of contact.

**Use On:** Benchtop materials testing machines

**Applications:** Sintered materials, ceramics, glass etc.

**Specifications:**
- Max. Capacity: 5 kN/1,000 lbf
- Min Loadcell: 500 N/100 lbf
- Fixed Span: 254 mm/10 in
- Radius of Contact points: 16 mm/0.63 in
- Max Specimen Width: 76 mm/3 in
- Weight of upper contact: 0.7 kg/1.54 lb
- Temperature Limits: Ambient

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**Grip Reference HF72**

**Description:** Variable span three point flexural test attachment comprised of base unit with two support points of contact and one upper point of contact. Graduated scale on main body of unit allows accurate setting of support span.

**Use On:** Benchtop materials testing machines

**Applications:** Polymers, composites, corrugated card, sheet materials.

**Specifications:**
- Max. Capacity: 20 kN/4,000 lbf
- Min Loadcell: 50 N/10 lbf
- Variable Span: 25 to 200 mm/1 to 8 in
- Radius of Contact points: 3 mm/0.12 in
- Max Specimen Width: 30 mm/1.2 in
- Weight of upper contact: 0.35 kg/0.77 lb
- Weight: 2.7 kg/6 lb
- Temperature Limits: -30° to 70 °C

**Options:**
- Two point center anvil for conversion from 3 point loading to four point loading
- Spans available in either metric or English graduations
Description: Variable span three point flexural test attachment comprised of base unit fitted with integral displacement measurement transducer and two points of contact, and an upper single point of contact. Graduated scale on main body of unit allows accurate setting of span.

Use On: Benchtop materials testing machines, specifically when E modulus is required as a result

Applications: Polymers, composites, corrugated card, sheet materials

Specifications:
- Max. Capacity: 20 kN/4,000 lbf
- Min Loadcell: 50 N/10 lbf
- Variable Span: 25 to 200 mm/1 to 8 in
- Radius of Contact Anvils: 3 mm/0.12 in
- Max Specimen Width: 30 mm/1.2 in
- Weight of upper contact: 0.35 kg/0.77 lbf
- Weight: 2.7 kg/6 lb
- Temperature Limits: Ambient
- Transducer resolution: 0.5 mm/2E-5 in
- Transducer accuracy: 10 mm/4E-4 in
- Transducer travel: 10 mm/0.4 in

Options:
- Spans available in either metric or English graduations

Description: Wide variable span three point flexural test attachment comprised of base unit with two points of contact and upper single point of contact. Graduated scale on main body for accurate setting of support span.

Use On: Twin column benchtop and high force materials testing machines

Applications: Particle board, fiberboard, plywood, plaster boards

Specifications:
- Max. Capacity: 25 kN/5,000 lbf
- Min Loadcell: 250 N/50 lbf
- Variable Span: 50-1000 mm/2 to 20 in
- Radius of Contact Anvils: 12.5 mm/0.5 in
- Max Specimen Width: 110 mm/4.3 in
- Weight of center anvil: 1.8 kg/4 lb
- Temperature Limits: Ambient

Options:
- Spans available in either metric or English graduations

Description: Wide variable span three point flexural test attachment comprised of base unit with two points of contact, and upper unit that provides single, third point of contact. Lower points are raised to accommodate highly flexible material to be tested, or allow use of displacement transducer. Graduated scale on main body for accurate setting of support span.

Use On: Two column benchtop materials testing machines

Applications: Wood, particle board, and plywood

Specifications:
- Max. Capacity: 20 kN/4,000 lbf
- Min Loadcell: 250 N/50 lbf
- Variable Span: 50 to 1000 mm/2 to 40 in
- Radius of Contact Anvils: 12.5 mm/0.5 in
- Max Specimen Width: 110 mm/4.3 in
- Weight of upper contact: 1.8 kg/4 lb
- Temperature Limits: Ambient

Options:
- Spans available in either metric or English graduations; optional displacement transducer with 5 mm resolution, 100 mm accuracy, and 100 mm travel

Grip Reference HF73
Grip Reference HF74
Grip Reference HF639

Contact Your Local Representative: