



Flexural Tools



Grip Reference HF508



Grip Reference HF630



Grip Reference HF72

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

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

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

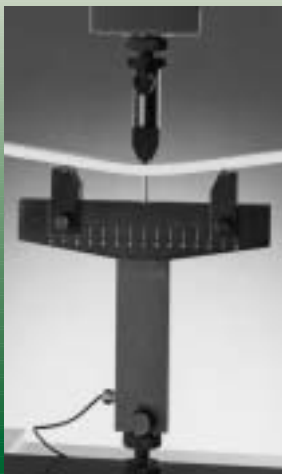
Applications: Polymers, composites, corrugated card, sheet materials.

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



Grip Reference HF73



Grip Reference HF74



Grip Reference HF639

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 40 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	25 kN/5,000 lbf
Min Loadcell	250 N/50 lbf
Variable Span	50 to 1000 mm/2 to 20 in
Radius of Contact Anvils	12.5 mm/0.5 in
Max Specimen Width	110 mm/8.5 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

High and low temperature options available for use in temperature chambers.
Specifications subject to change without notice.



1065 Easton Road
Horsham, PA 19044 USA
(215) 675-7100
Fax (215) 441-0899
www.TiniusOlsen.com
info@TiniusOlsen.com

Contact Your Local Representative:

6 Perrywood Business Park
Honeycrock Lane, Salfords
Redhill, Surrey RH1 5DZ England
+44 (0) 1737 765001
Fax +44 (0) 1737 764768