

Adapters for QC range of grips

Mecmesin's Quick Change (QC) adapters let you attach grips to test frames and loadcells quickly and easily, without any tools. The QC-type grip has a standard diameter post that fits into a bore hole and is held in place by an 8 mm lateral pin. This secures the grip firmly, but allows it to be swapped out in seconds.

QC adapters can be fitted to the bottom of a loadcell or the test frame anvil plate.

QC Type E loadcell mounting plate

QC Type C Male post fitted to loadcell

QC Type C Male post fitted to loadcell

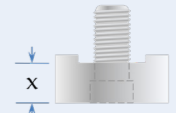



QC adapters for use with grips having 20mm Ø fittings


| Description | Part No. | |
|---|----------|--|
| <p>QC Type C - 20 mm Ø Male Post c/w pin & fixing screws</p> <p>-fit to Anvil Plate supplied with test frame -fit to Loadcell Mounting Plate</p>  <p>x-height added: 24 mm</p> | 432-284 |  |
| <p>QC Mounting Plate for 50 kN systems</p> <p>-fit to 50 kN Anvil Plate, or Pancake loadcell, as a base for 432-284. Enables 20 mm QC fixtures to be used on a 50 kN test stand.</p> <p>x-height added: 15 mm</p> | 432-622 |  |
| <p>QC Adapter, converts Type L (F) to C (M)</p> <p>-fits onto a Type L (32 mm) post, for fitting 20 mm QC fixtures.</p> <p>x-height added: 58 mm</p> | 432-623 |  |
| <p>QC Type J - Lightweight Male 20 mm Ø adapter (10/32 UNF hole) c/w pin **</p> <p>-fit to force gauges or loadcells with 10/32 UNF threaded connection</p> <p>x-height added: 32 mm</p> | 432-418 |  |
| <p>Type A Adapter with Pin QC Type A - Male 20 mm Ø adapter (5-16 UNC hole) c/w pin **</p> <p>-fit to force gauges or loadcells with 5-16 UNF threaded connection</p> <p>x-height added: 32 mm</p> | 432-282 |  |
| <p>QC Type K - Female Sleeve 20 mm Ø c/w pin and fixing bolt (5-16 UNC)</p> <p>-convert a non QC-type grip to QC-type by attaching sleeve to the grip</p> <p>x-height added: 55 mm</p> | 432-429 |  <p>e.g. QC Type K Female sleeve with wedge grip</p> |
| <p>QC Type B - Female Sleeve 20 mm Ø c/w pin and fixing bolt (M12)</p> <p>-convert a non QC-type grip to QC-type by attaching sleeve to the grip</p> <p>x-height added: 55 mm</p> | 432-283 | |

* Take extra care when selecting grips for use with low-capacity loadcells, as they are at risk of overload.
** The locking-pin hole's orientation is not fixed, as it is secured with a single screw fitting.


QC-adapters for use with grips having 20mm Ø fitting

| Description - Loadcell Mounting Plates | Part No. | |
|---|----------|---|
| <p>QC Type M - Loadcell Mounting Plate - 13 mm wide slot c/w M6 bolt for 100 N and 200 N S-beam loadcells x-height added: 14 mm</p> | 432-452 |   <p>Fitting Loadcell Mounting Plate to ILC-S</p> |
| <p>QC Type D - Loadcell Mounting Plate - 19 mm wide slot c/w M6 bolt for 500 N S-beam loadcells x-height added: 14 mm</p> | 432-285 | |
| <p>QC Type E - Loadcell Mounting Plate - 19 mm wide slot c/w M10 bolt for 1000 N S-beam loadcell x-height added: 14 mm</p> | 432-286 | |
| <p>QC Type F - Loadcell Mounting Plate - 25 mm wide slot c/w M12 bolt for 2500 N, 5000 N and 10 kN S-beam loadcells x-height added: 25 mm</p> | 432-287 | |
| <p>QC Type G - Loadcell Mounting Plate - 25 mm wide slot c/w M16 bolt for 25 kN S-beam loadcell x-height added: 25 mm</p> | 432-288 | |

QC adapters for use with grips having with 32 mm Ø fitting

| | | |
|---|---------|---|
| <p>QC Type L - 32 mm Male Post c/w pin and fixing screws for connection to 20 kN and 50 kN Pancake loadcells and anvil plate of 50 kN test frame. Uses a 12 mm diameter pin.</p> <p>x-height added: 30 mm</p> | 432-451 |  |
|---|---------|---|

Test Frame

| Anvil plate | QC Adapter |
|---|---|
| <p>Single column - OmniTest 0.5/1/2.5/5/7.5</p>  | <p>QC Type C 20 mm Male Post c/w pin and fixing screws use 4 x M6 screws supplied (432-284) or QC Type J 10-32 UNF Lightweight Adapter with pin ** Use with 10-32 UNF grubscrew in anvil plate (432-418) or QC Type A 5/16 UNC Adapter with pin ** Use with 5/16 UNC grubscrew in anvil plate (432-282)</p> |
| <p>Twin column - OmniTest 10/25</p> | <p>QC Type C Adapter Post c/w pin and fixing screws Use 4 x M6 screws supplied (432-284)</p> |
| <p>Twin column - OmniTest 50</p> | <p>QC Type L - 32 mm Male Post c/w pin and fixing screws use 6 x M6 screws supplied (432-451)</p> |

Loadcells

| Loadcell | QC Adapter Where 2 part no.s are listed, both are required |
|--|---|
| ELS/ILC 2*, 5*, 10*, 25*, 50, 100, 250, 500 N (internal type) Fitting: 10-32 UNF male thread | QC Type J 10-32 UNF Lightweight Adapter with pin** (432-418) |
| ELS/ ILC-S 100, 200 N (S-beam type) Fitting: M6 female threaded hole | QC Type C Adapter Post c/w pin and fixing screws (432-284) QC Type M Loadcell Mounting plate M6 with bolt (432-452) |
| ELS/ILC-S 500 N (S-beam type) Fitting: M6 female threaded hole | QC Type C Adapter Post c/w pin and fixing screws (432-284) QC Type D Loadcell Mounting Plate M6 with bolt (432-285) |
| ELS/ILS-S 1000 N (S-beam type) Fitting: M10 female threaded hole | QC Type C Adapter Post c/w and fixing screws (432-284) QC Type E Loadcell Mounting plate M10 with bolt (432-286) |
| ELS/ILS-S 2500, 5000 N (S-beam type) Fitting: M12 female threaded hole | QC Type C Adapter Post c/w pin and fixing screws (432-284) QC Type F Loadcell Mounting plate M12 with bolt (432-287) |
| ELS/ILC-T 10 kN (S-beam type) Fitting: M12 female threaded hole | QC Type C Adapter Post c/w pin and fixing screws (432-284) QC Type F Loadcell Mounting plate M12 with bolt (432-287) |
| ELS/ILC-T 25 kN (S-beam type) Fitting: M16 female threaded hole | QC Type C Adapter Post c/w pin and fixing screws (432-284) QC Type G Loadcell Mounting Plate M16 with bolt (432-288) |
| I ELS/LC-P 20, 50 kN (Pancake type) Fitting: M6 female thread holes x 6 | QC Type L - 32 mm Male Post c/w pin and fixing screws (for 50 kN systems only) (432-451) |

* N.B. Great care should be taken when selecting grips for use with low-capacity loadcells due to risk of overload

** N.B. Secured with a single screw fitting, so the orientation of the locking-pin hole is not guaranteed



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Alluris



James Heal



Lansmont



Mecmesin