

## Medium Single-action Vice Grip, QC fitting



Mec240k - 2.5 kN

Mec240k-S20 - 2 kN

Mec240k-S30 - 1 kN

Mec240k-S50 - 1 kN

Mechanical Vice Grips apply a clamping force by manually tightening parallel jaw faces directly onto the specimen. Single-action vice grips allow one jaw to be set in position to align the specimen around the central axis and the other jaw to be freely adjustable to clamp it in place. Consequently they are best suited for tensile testing of symmetrical specimens which do not vary greatly in thickness.

The Mec240k Medium Vice Grips are rated between 1 – 2.5 kN and available in 4 sizes with jaw openings ranging from 0-10mm right up to 0-50mm depending on the jaw types selected. An extensive collection of interchangeable, high-performance jaws with differing surface profiles provide excellent gripping characteristics to ensure that a variety of materials and components can be securely held.

Ideal for tension tests below 2.5kN on flat strips of metal and plastic, thin sheets and tapes plus non-woven and general fabrics.

| Item No:                        | Mec240k | Mec240k-S20 | Mec240k-S30 | Mec240k-S50 |
|---------------------------------|---------|-------------|-------------|-------------|
| Rated capacity:                 | 2.5 kN  | 2 kN        | 1 kN        | 1 kN        |
| Opening (depending on jaws):    | 0-10 mm | 0-20 mm     | 0 – 30 mm   | 0-52 mm     |
| Weight each grip(without jaws): | 0.27 kg | 0.32kg      | 0.33 kg     | 0.49 kg     |

Scope of delivery: 1 grip supplied fitted with bore-hole to allow connection to QC-20 fixing post

**Note:** Jaws (see table below) must be ordered separately.

Scope of delivery 0.5 set = 2 jaws (left & right). Order any combination of 2 half-sets of jaws to fit into a pair of any Mec240k Medium Vice grips (upper & lower)

| Item no.      | Surface      | Clamping surface H x W | Opening for Mec240k | Opening for Mec240k-S20 | Opening for Mec240k-S30 | Opening for Mec240k-S50 | Weight per 0.5 set |
|---------------|--------------|------------------------|---------------------|-------------------------|-------------------------|-------------------------|--------------------|
| Mec240k-B     | Blank jaws   | 30 x 30 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.13 kg            |
| Mec240k-BG    | Rubber jaws  | 30 x 30 mm             | 0 – 8 mm            | 0 - 18 mm               | 0 – 28 mm               | 0 – 50 mm               | 0.13 kg            |
| Mec240k-BP    | Pyramid jaws | 30 x 30 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.12 kg            |
| Mec240k-BV2   | V jaws       | 30 x 30 mm             | Ø 2 – 10 mm         | Ø 2- 20 mm              | Ø 2- 30 mm              | Ø 2 – 52 mm             | 0.12 kg            |
| Mec240k-BV3   | V jaws       | 30 x 30 mm             | Ø 3 – 10 mm         | Ø 3 – 20 mm             | Ø 3 - 30 mm             | Ø 3 – 52 mm             | 0.13 kg            |
| Mec240k-BW    | Wave jaws    | 30 x 30 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.12 kg            |
| Mec240k-BD    | Diamond jaws | 30 x 30 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.13 kg            |
| Mec240k-B50   | Blank jaws   | 30 x 50 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.22 kg            |
| Mec240k-BG50  | Rubber jaws  | 30 x 50 mm             | 0 – 8 mm            | 0 - 18 mm               | 0 – 28 mm               | 0 – 50 mm               | 0.23 kg            |
| Mec240k-BP50  | Pyramid jaws | 30 x 50 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.21 kg            |
| Mec240k-BW50  | Wave jaws    | 30 x 50 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.20 kg            |
| Mec240k-BD50  | Diamond jaws | 30 x 50 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.22 kg            |
| Mec240k-B80   | Blank jaws   | 30 x 80 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.36 kg            |
| Mec240k-BG80  | Rubber jaws  | 30 x 80 mm             | 0 – 8 mm            | 0 - 18 mm               | 0 – 28 mm               | 0 – 50 mm               | 0.37 kg            |
| Mec240k-BP80  | Pyramid jaws | 30 x 80 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.35 kg            |
| Mec240k-BW80  | Wave jaws    | 30 x 80 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.32 kg            |
| Mec240k-BD80  | Diamond jaws | 30 x 80 mm             | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.36 kg            |
| Mec240k-B100  | Blank jaws   | 30 x 100 mm            | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.45 kg            |
| Mec240k-BG100 | Rubber jaws  | 30 x 100 mm            | 0 – 8 mm            | 0 - 18 mm               | 0 – 28 mm               | 0 – 50 mm               | 0.46 kg            |
| Mec240k-BP100 | Pyramid jaws | 30 x 100 mm            | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.45 kg            |
| Mec240k-BW100 | Wave jaws    | 30 x 100 mm            | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 52 mm               | 0.51 kg            |
| Mec240k-BD100 | Diamond jaws | 30 x 100 mm            | 0 – 10 mm           | 0 - 20 mm               | 0 – 30 mm               | 0 – 50 mm               | 0.45 kg            |

Jaws with other dimensions and surface coatings on request

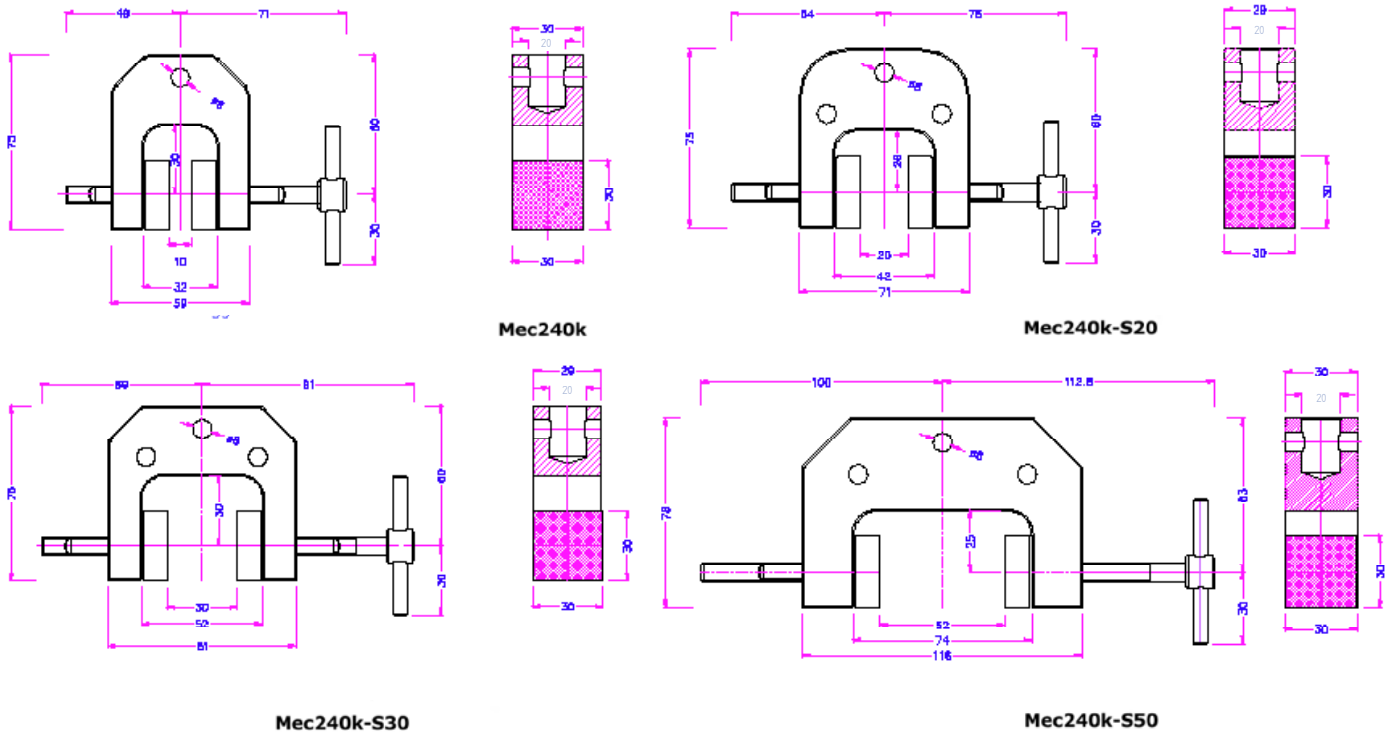
- Blank jaws**
  - Applicable for own further treatments
  - Steel-blanks without coating
- Rubber jaws**
  - 1mm rubber coating (NBR)
  - Nickel plated
- Pyramid jaws**
  - Pyramids 1.2x45°
  - Hardened steel 58 HRC
  - Nickel plated
- V-jaws**
  - For all kinds of round samples
  - Tooth pitch 1.2 mm
  - Hardened steel 58HRC
  - Nickel plated
- Wave jaws**
  - For flexible materials
  - Wave 5 mm
  - Hardened steel 58HRC
  - Nickel plated
- Diamond jaws**
  - Clamping surface coated with synthetic diamonds D91 (170/200 mesh)
  - Nickel plated



Mec240k-BV2

Mec240k-BV3

# Dimensions mm



For more information on QC fittings, refer to datasheet 431-354  
Adapters for QC range of grips.



FS 58553



Mecmesin reserves the right to alter equipment specifications without prior notice.  
E&OE

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