WEDGE GRIPS

Manual Non-Shift Wedge Grips 50-250 kN

Manual wedge grips that clamp without shifting the specimen, 50 to 250 kN



OVERVIEW

Manual wedge grips with a non-shift design: the jaws close onto the specimen without moving it axially, so no unwanted preload is introduced before the test starts. Under tensile load the wedge effect increases the clamping force. Three sizes cover 50, 100 and 250 kN, with serrated jaws for flat specimens and V-jaws for round specimens, and an operating range of -20 to +180 °C.

KEY FEATURES

- Non-shift clamping avoids unwanted preload on the specimen
- Wedge action tightens the jaws further as load increases
- Three sizes: 50, 100 and 250 kN
- Serrated jaws for flat, V-jaws for round specimens
- Temperature range -20 to +180 °C
- Motorized 100 kN version available for powered clamping

TECHNICAL SPECIFICATIONS

Max. load	50, 100 or 250 kN
Test type	Tensile
Jaw opening	Flat 0 – 40 mm; round Ø 3 – 40 mm (by size and jaws)
Clamping surface	30 × 55 mm (50 kN); 40 × 60 mm (100 kN); 50 × 100 mm (250 kN)
Coupling	Female clevis Ø 31.8 mm (1-1/4 in) pin (50 kN); Ø 40 mm (100 kN); Ø 60 mm (250 kN)
Material	Steel, nickel-plated; jaws hardened
Temperature range	-20 to +180 °C (other ranges on request)
Weight per grip	7.2 kg (50 kN), 12.6 kg (100 kN), 44.8 kg (250 kN) incl. jaws
Operation	Manual (motorized 100 kN version available)

AVAILABLE VERSIONS

50 kN	Flat 0–9 / 9–18 mm; round Ø 3–10 / 10–16 mm
100 kN	Flat 0–9 / 9–18 mm; round Ø 3–20 mm
250 kN	Flat 0–40 mm; round Ø 4–40 mm; closed back side
100 kN motorized	Clamping range 0–16 mm
100 kN cryogenic chamber special	-180 to +40 °C with pull rods, ISO 1926

APPLICATIONS

- Metal flat and round specimens
- Plastics and composites
- Rigid cellular plastics
- Low-temperature testing

Ordering & customization: Specify capacity, specimen geometry and size range, jaw sets, coupling and temperature range.

Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-WG-130

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DIMENSIONAL DRAWINGS

FIG. 1

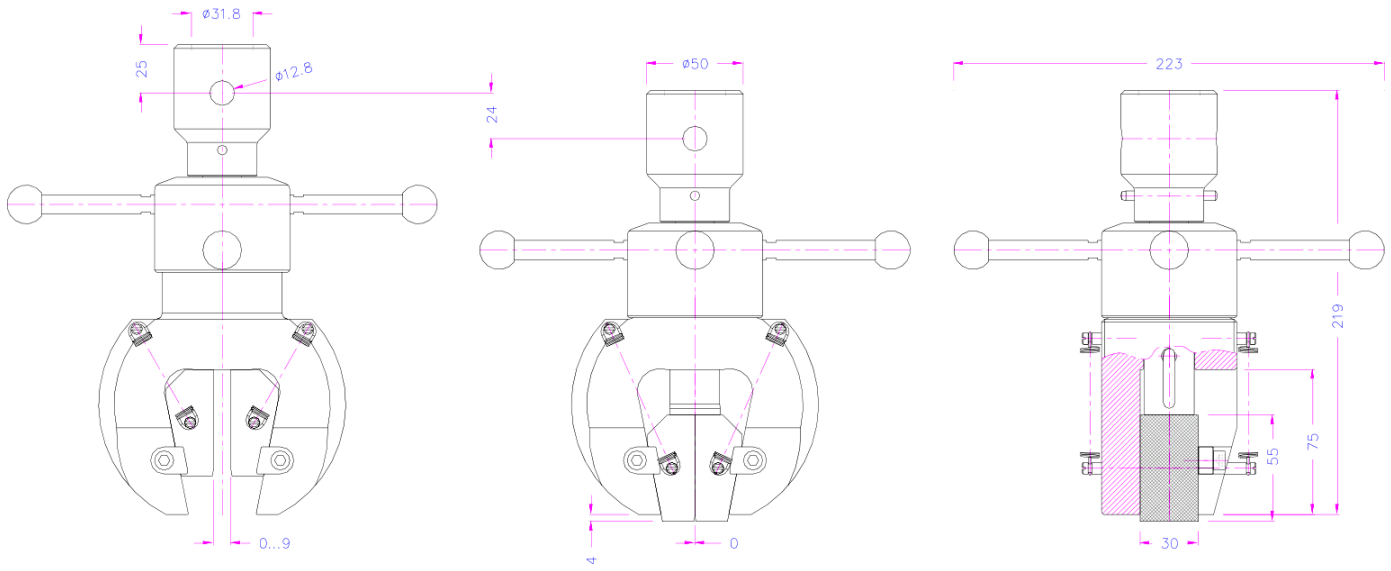
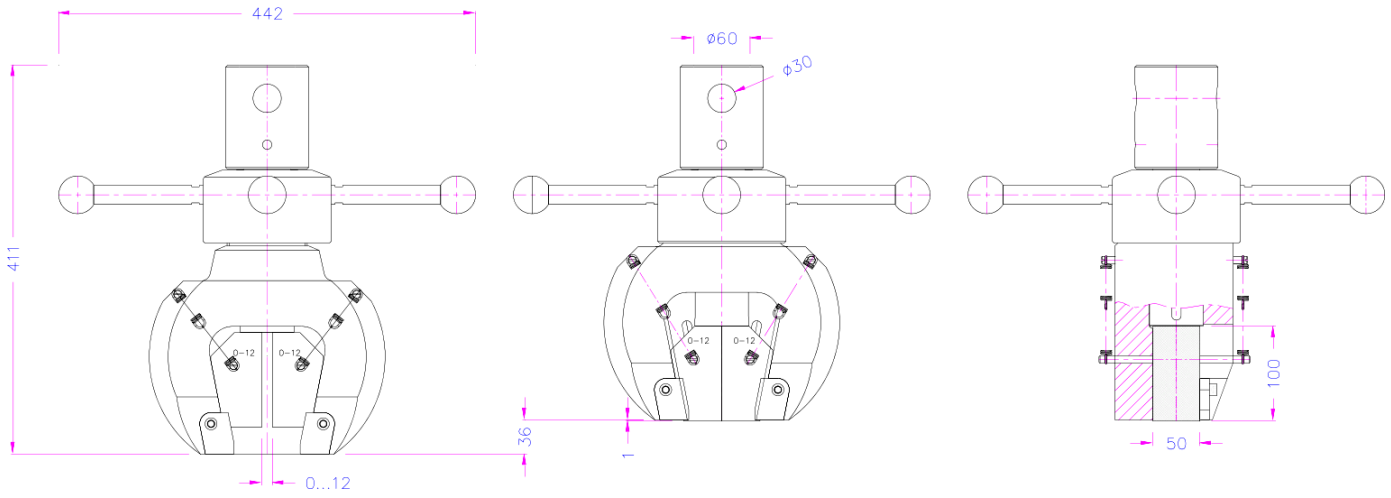


FIG. 2



Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.