WEDGE GRIPS

Screw Action Wedge Grip 10 kN

Combined screw and wedge action grip for elastic and difficult specimens



OVERVIEW

A grip that combines screw action with wedge action for elastic and hard-to-hold specimens. A main shaft moves both jaws symmetrically to pre-tension the specimen, and under tensile load the wedge effect increases the clamping force further. The shaft connection can be disengaged for asymmetrical clamping, for example in shear tests. Hardened 45 × 45 mm insert jaws suit flat and round specimens from -70 to +180 °C.

KEY FEATURES

- Screw pre-tension combined with self-tightening wedge action
- Symmetric jaw movement via a main shaft
- Disengageable for asymmetrical clamping in shear tests
- Suited to elastic and difficult specimens
- Hardened serrated and V insert jaws, 45 × 45 mm
- Temperature range -70 to +180 °C

TECHNICAL SPECIFICATIONS

Max. load	10 kN
Test type	Tensile, shear
Jaw opening	0 – 13 mm flat; Ø 5 – 14 mm round
Clamping surface	45 × 45 mm
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin; others via adapter
Body / jaws	Steel, nickel-plated / hardened steel 58 HRC, nickel-plated
Temperature range	-70 to +180 °C (other ranges on request)
Weight	5.2 kg per grip incl. jaws
Scope of supply	1 pair of grips with insert carriers, without jaws

AVAILABLE VERSIONS

Pyramid insert jaws	45 × 45 mm, flat 0–13 mm
V insert jaws	45 mm height, round Ø 5–14 mm
50 kN version	Serrated jaws 80 × 88 mm
250 kN version	Serrated insert jaws 82 × 84 mm, opening 0–32 mm, 76.6 kg

APPLICATIONS

- Elastomers and elastic specimens
- Difficult-to-grip composites
- Shear tests with offset clamping
- Plastics and coated materials

Ordering & customization: Specify capacity, jaw type, coupling and test temperature; jaws are ordered separately.

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-120

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DIMENSIONAL DRAWINGS

FIG. 1

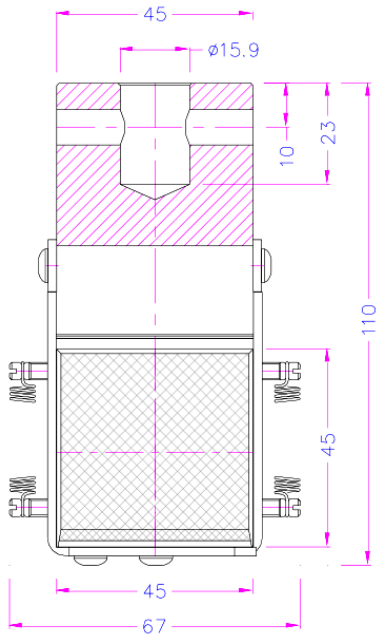


FIG. 2

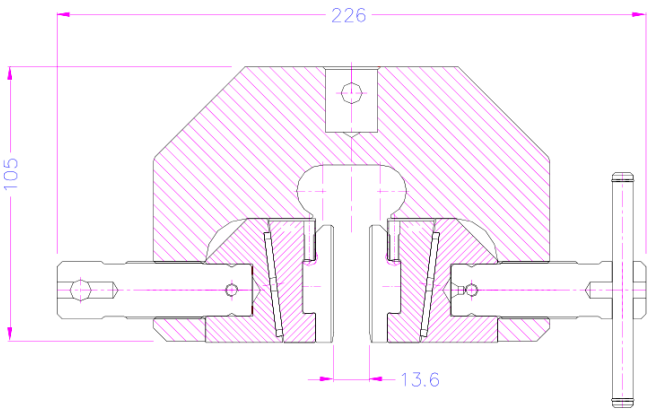


FIG. 3

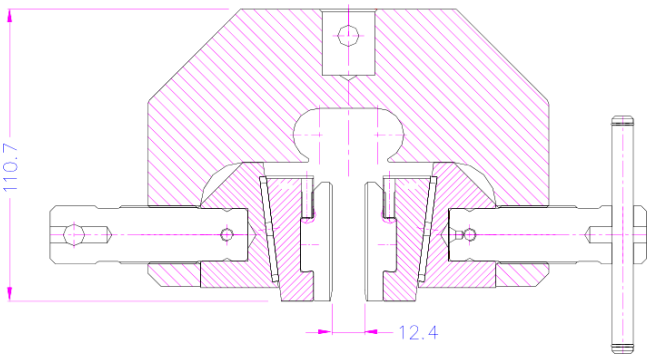
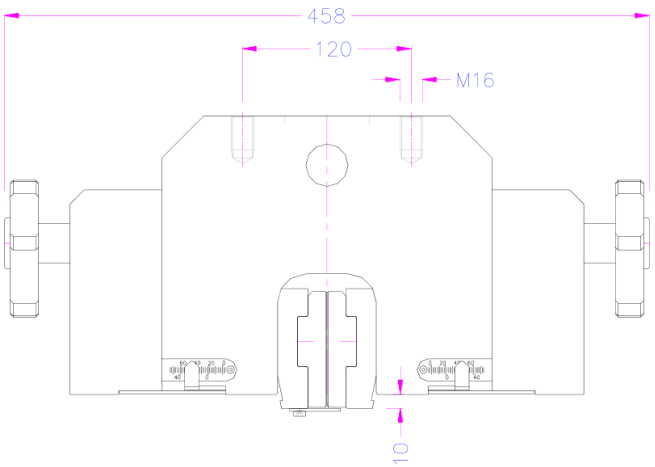


FIG. 4



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.