WEDGE GRIPS

# Non-Shift Wedge Grip 20-50 kN

Self-clamping non-shift wedge grips, 20 to 150 kN



## OVERVIEW

Self-clamping wedge grips in which the body moves upward while the jaws move only horizontally, so the specimen is not shifted or preloaded during clamping. The main gripping force is generated by wedge action as the test load rises. The open construction allows wider jaws than usual. Sizes from 20 to 150 kN take serrated jaws for flat specimens and V-jaws for round specimens up to 30 mm.

## KEY FEATURES

- Non-shift design: jaws move horizontally only
- Wedge action builds grip force during the test
- Open construction accepts extra-wide jaws for broad specimens
- Sizes 20, 50, 100 and 150 kN
- Hardened, nickel-plated serrated and V-jaws for flat and round specimens
- Operation from 0 to +130 °C

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Max. load** | 20 kN or 50 kN (series up to 150 kN) |
| **Test type** | Tensile |
| **Jaw opening** | Flat 0 – 22 mm (20 kN), 0 – 30 mm (50 kN) |
| **Clamping surface** | 52 × 40 mm (20 kN); 66 × 80 mm (50 kN); 95 × 100 mm (100/150 kN) |
| **Coupling** | Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm pin (20 kN); Ø 31.8 mm (1-1/4 in) pin (50 kN) |
| **Material** | Steel, nickel-plated; jaws hardened |
| **Temperature range** | 0 to +130 °C (other ranges on request) |
| **Weight per grip** | 4.8 kg (20 kN); 15.2 kg (50 kN); 43.2 kg (100/150 kN) |
| **Scope of supply** | 1 pair of grips without jaws |

## AVAILABLE VERSIONS

| | |
|---|---|
| **20 kN** | Jaws 52 × 40 mm; flat 0–22 mm, round Ø 3–22 mm |
| **50 kN** | Jaws 66 × 80 mm; flat 0–30 mm, round Ø 4–30 mm |
| **100 kN** | Jaws 95 × 100 mm; flat 0–28 mm; 80 kN at 350 °C |
| **150 kN** | Jaws 95 × 100 mm; Ø 50 mm pin coupling |
| **Wide and diamond jaws** | Special jaw widths and surfaces on request |

## APPLICATIONS

- Metal flat and round specimens
- Plastics and composites
- Wires and bars
- Short specimens

**Ordering & customization:** Specify capacity, specimen geometry and size range, jaw sets and coupling; 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-150

# Non-Shift Wedge Grip 20-50 kN

DIMENSIONAL DRAWINGS

**FIG. 1**

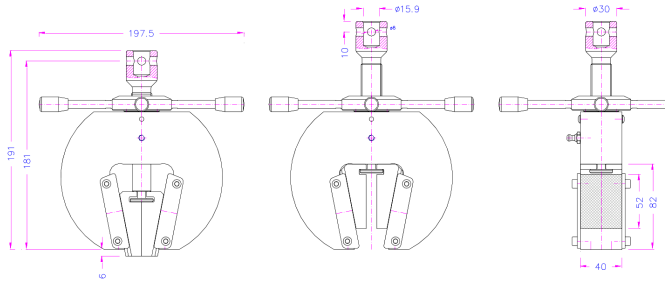



**FIG. 2**

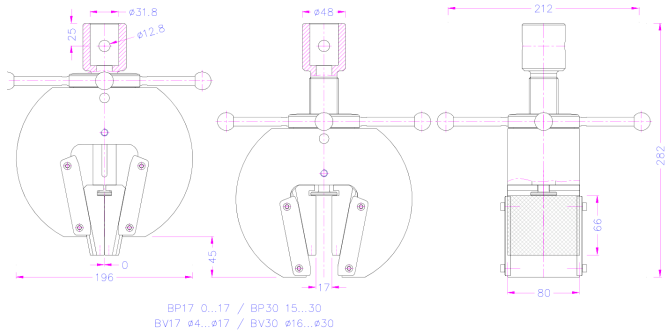



**FIG. 3**

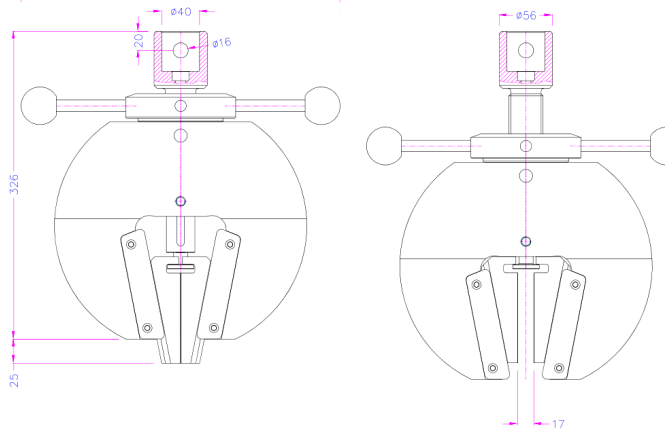
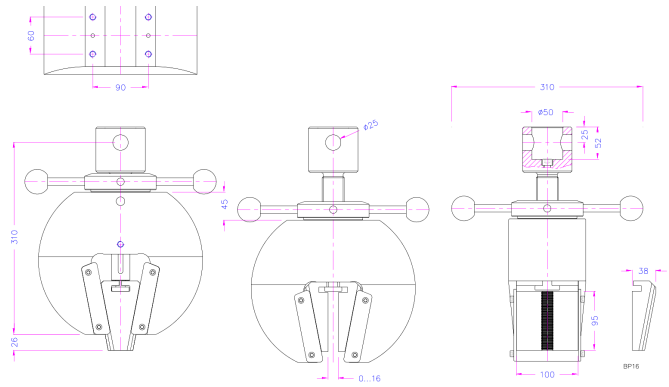



**FIG. 4**




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.