PNEUMATIC GRIPS

Pneumatic Non-Shift Wedge Grip 10-20 kN

Pneumatic wedge grip with horizontal-only jaw motion for sensitive specimens



OVERVIEW

A pneumatic wedge grip in which the jaws move only horizontally, so the distance between the coupling pin and the jaws stays constant during clamping. This keeps axial preload on the specimen low, which suits brittle or sensitive materials such as ceramics. The standard version carries 10 kN tensile load with 22 kN clamping force at 7 bar.

KEY FEATURES

- Non-shift design: jaws move horizontally only
- Constant gauge position, minimal axial load during clamping
- 22 kN clamping at 7 bar, 40 kN at 15 bar
- Interchangeable pyramid, V and diamond jaws
- Version with pull rods for temperature chamber use
- 20 kN version for -70 to +280 °C

TECHNICAL SPECIFICATIONS

Max. tensile load	10 kN (20 kN version available)
Clamping force	22 kN at 7 bar; 40 kN at 15 bar
Jaw opening	0–16 mm in three ranges, depending on jaws
Jaw face size	33 × 40 mm
Coupling	Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm pin; others on request
Body material	Steel, nickel-plated; stainless steel
Temperature range	0 to +70 °C; other ranges on request
Weight	9.7 kg per grip, without jaws
Operation	Pneumatic

AVAILABLE VERSIONS

10 kN standard	22 kN clamping at 7 bar, 0 to +70 °C
10 kN with pull rods	For use in temperature chambers
20 kN high temperature	40 kN clamping at 7 bar, -70 to +280 °C, male clevis Ø 25 mm pin hole
Pyramid jaws 33 x 40 mm	Openings 0–6, 6–12 or 10–16 mm
V-jaws	Round specimens 2–6 or 6–12 mm Ø
Diamond jaws 33 x 40 mm	Opening 0–6 mm

APPLICATIONS

- Technical ceramics
- Brittle composites
- Wires and round bars
- Flat metal and plastic specimens

Ordering & customization: Specify tensile capacity (10 or 20 kN), coupling, temperature range and jaw type with opening range. Add pneumatic foot pedals or hand switches as required.

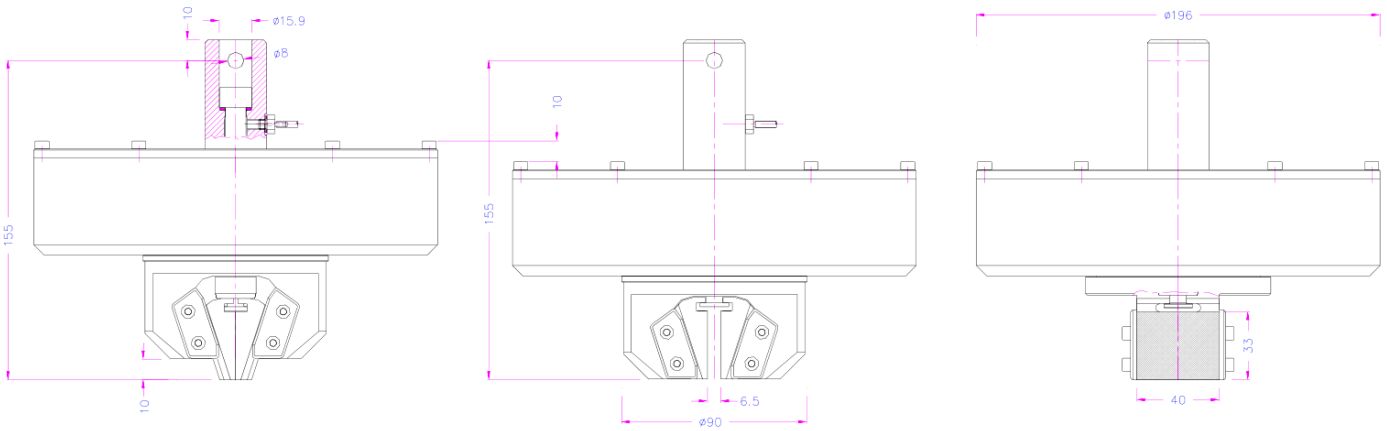
Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-PG-170

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DIMENSIONAL DRAWINGS

FIG. 1



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.