PNEUMATIC GRIPS

Pneumatic Wedge Grips 10-20 kN

Self-intensifying pneumatic wedge grips for low-friction and difficult specimens, 10 kN and 20 kN



OVERVIEW

Pneumatic wedge grips combining pneumatic closing with a self-intensifying wedge action: as tensile load rises, the clamping force increases. This holds difficult, low-friction specimens such as hard steel foils, wires and fiber-filled plastics or rubber securely. Centric jaw movement keeps the specimen aligned, and the 10 kN stainless steel version operates from -70 to 280 °C.

KEY FEATURES

- Self-intensifying wedge action raises clamping force with load
- Self-aligning, centric jaw movement keeps the specimen on axis
- Ideal for low-friction specimens such as hard foils and wires
- Stainless steel 10 kN version for -70 to 280 °C chamber use
- Pull rods of different lengths for temperature chambers on request
- Pyramid, V and diamond jaws in several opening ranges

TECHNICAL SPECIFICATIONS

Max. load	10 kN or 20 kN
Clamping force	20 kN at 7 bar and 10 kN load (10 kN); 43 kN at 7 bar and 20 kN load (20 kN)
Jaw clamping surface	33 × 40 mm (10 kN); 50 × 60 mm (20 kN)
Jaw opening	0-16 mm (10 kN); 0-20 mm (20 kN), by jaw set
Body	Stainless steel (10 kN); steel, nickel-plated (20 kN)
Jaws	Hardened steel, 58 HRC
Coupling	Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm; others on request
Temperature range	-70 to 280 °C (10 kN); 0 to 180 °C (20 kN), -70 to 280 °C on request
Weight	Approx. 2.8 kg (10 kN) or 8.9 kg (20 kN) per grip without jaws

AVAILABLE VERSIONS

10 kN, stainless steel	Jaws 33 × 40 mm; up to 26 kN clamping at 16 bar
10 kN with pull rods	For temperature chamber use
20 kN, 0 to 70 °C	Jaws 50 × 60 mm
20 kN, -70 to 280 °C	With or without pull rod
Pyramid jaws 10 kN	Openings 0-6, 6-12, 10-16 mm
V-jaws 10 kN	Round specimens 2-6 or 6-12 mm; diamond jaws 0-6 mm

APPLICATIONS

- Hard steel foils and wires
- Fiber-reinforced plastics and rubber
- High and low temperature testing
- Low-friction specimens

Ordering & customization: Specify the load capacity, temperature range, whether pull rods are needed, the jaw type and opening, and the coupling of your testing machine.

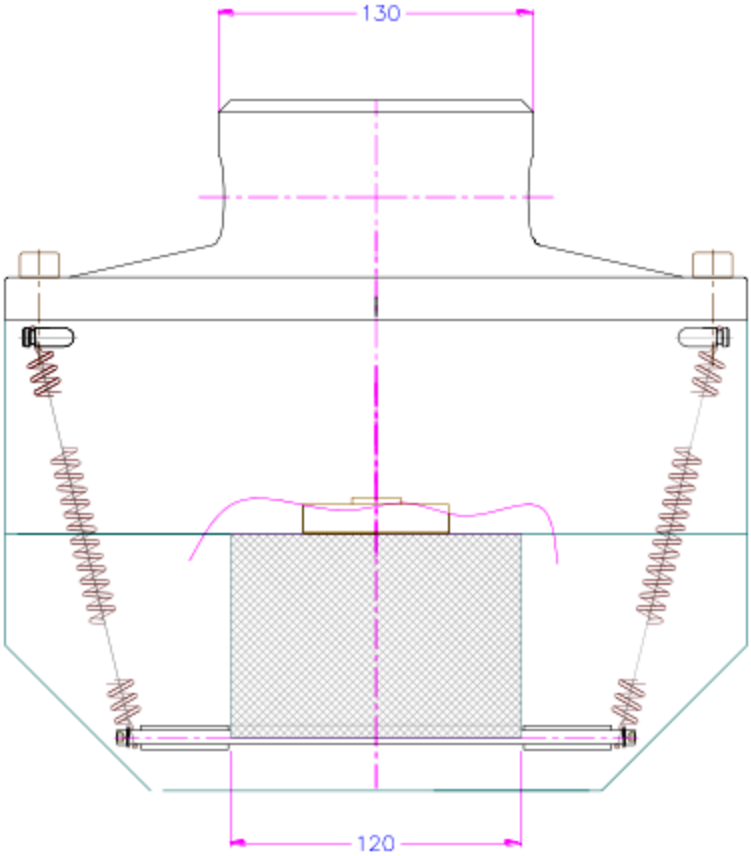
Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

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-050

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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.