HYDRAULIC GRIPS

Hydraulic Non-Shift Wedge Grip 100 kN

Hydraulic wedge grip with vertically fixed jaws for sensitive specimens



OVERVIEW

A hydraulic wedge grip in which the jaws stay fixed vertically while the grip body moves to close them. This prevents additional axial load on the specimen during clamping, which suits sensitive and short specimens. The 100 kN version develops 200 kN clamping force at 315 bar on 80 × 60 mm jaws; a 250 kN version is also available.

KEY FEATURES

- Non-shift design: jaws stay in place vertically
- No added axial load on the specimen during clamping
- 200 kN clamping force at 315 bar
- 80 × 60 mm pyramid and V-jaws
- Nickel-plated steel construction for corrosion resistance
- Supplied as a pair in a wooden case

TECHNICAL SPECIFICATIONS

Max. tensile load	100 kN
Clamping force	200 kN at 315 bar
Jaw face size	80 × 60 mm (H x W)
Jaw opening	0–20 mm flat; 5–20 mm Ø round
Coupling	Female clevis, Ø 40 mm pin; others on request
Body material	Steel, nickel-plated; jaws hardened, nickel-plated
Temperature range	0 to +70 °C; other ranges on request
Weight	62.3 kg per pair, without jaws
Operation	Hydraulic

AVAILABLE VERSIONS

100 kN	200 kN clamping at 315 bar, Ø 40 mm pin coupling
250 kN	500 kN clamping at 320 bar, Ø 60 mm pin coupling, 124 kg per pair
Pyramid jaws, 100 kN	Flat 0–10 or 10–20 mm
V-jaws, 100 kN	Round 5–10 or 10–20 mm Ø
Pyramid jaws, 250 kN	Flat 0–12, 12–22, 22–32 or 32–42 mm
V-jaws, 250 kN	Round 4–14, 12–21 or 22–31 mm Ø

APPLICATIONS

- Short metal specimens
- Composites and laminates
- Brittle or notch-sensitive materials
- Round bar and wire

Ordering & customization: Specify capacity (100 or 250 kN), coupling, jaw type and specimen range, and the hydraulic supply available.

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-HG-090

Hydraulic Non-Shift Wedge Grip 100 kN

DIMENSIONAL DRAWINGS

FIG. 1

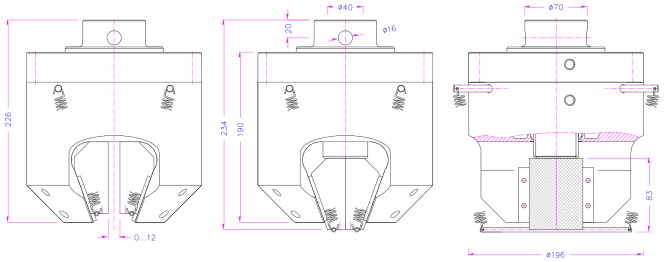


FIG. 2

	Surface:	Clamping surface HxW:	Opening:	Weight per pair:
	Pyramid (serrated)	80x60 mm	0-10 mm	2.2 kg
	Pyramid (serrated)	80x60 mm	10-20 mm	1.8 kg
	V-jaws	Height 80 mm	5-10 mm Ø	2.2 kg
	V-jaws	Height 80 mm	10-20 mm Ø	1.8 kg

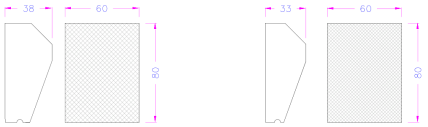


FIG. 3

	Surface:	Clamping surface HxW:	Opening:	Weight per pair:
	Pyramid (serrated)	80x60 mm	0-12 mm	2.8 kg
	Pyramid (serrated)	80x60 mm	10-22 mm	2.4 kg
	Pyramid (serrated)	80x60 mm	22-32 mm	2.0 kg
	V-jaws	Height 80 mm	4-14 mm Ø	2.8 kg
	V-jaws	Height 80 mm	14-22 mm Ø	2.4 kg

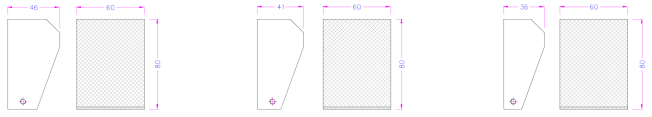
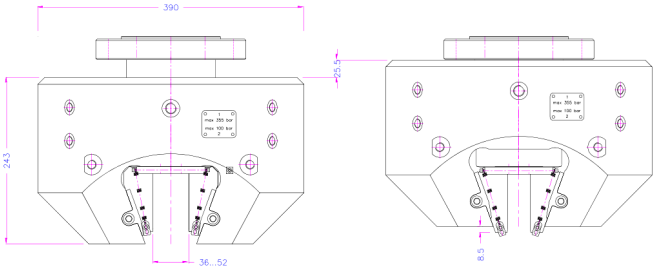


FIG. 4



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.