HYDRAULIC GRIPS

Hydraulic Single-Action Grip 300 kN

Symmetric hydraulic grip with spring return, 600 kN clamping at 700 bar



OVERVIEW

A hydraulic grip with two symmetrically closing rods for high-load tensile tests on round and flat specimens. The single-action version uses spring return to open the jaws and develops 600 kN clamping force at 700 bar for a maximum tensile load of 300 kN. Jaw opening is 0–60 mm, and V-jaws cover round bars from 8 to 60 mm diameter.

KEY FEATURES

- Rated for 300 kN maximum tensile load
- 600 kN clamping force at 700 bar
- Two symmetrically closing rods keep specimens centered
- Spring return opens the jaws automatically after the test
- Jaw opening 0–60 mm for large round and flat specimens
- Rigid or self-aligning compression platen attachments available

TECHNICAL SPECIFICATIONS

Max. tensile load	300 kN
Clamping force	600 kN at 700 bar
Jaw opening	0–60 mm
Jaw size	V-jaws, 120 mm clamping height
Coupling	Female clevis, Ø 60 mm pin; others on request
Body material	Steel, nickel-plated; jaws hardened
Operation	Hydraulic, single-action with spring return
Temperature range	0 to +70 °C; other ranges on request

AVAILABLE VERSIONS

Single-action	Spring return, 300 kN
Double-action	Without spring return, 300 kN
600 kN version	1200 kN clamping, female clevis Ø 80 mm pin
V-jaws 8–35 mm	Round specimens, 120 mm clamping height
V-jaws 30–60 mm	Round specimens, 120 mm clamping height
Compression platen	Rigid or self-aligning steel platen, Ø 156 mm

APPLICATIONS

- Steel bar and rebar
- Wire rope terminations
- Bolts and threaded rod
- Heavy flat specimens

Ordering & customization: Specify single- or double-action version, coupling, jaw type and specimen diameter range, and the hydraulic pump available (700 bar).

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-080

UGC-HG-080

Hydraulic Single-Action Grip 300 kN

DIMENSIONAL DRAWINGS

FIG. 1

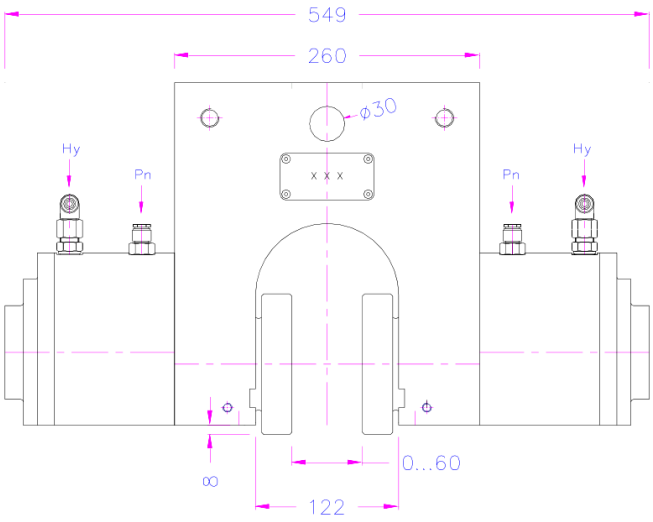


FIG. 2

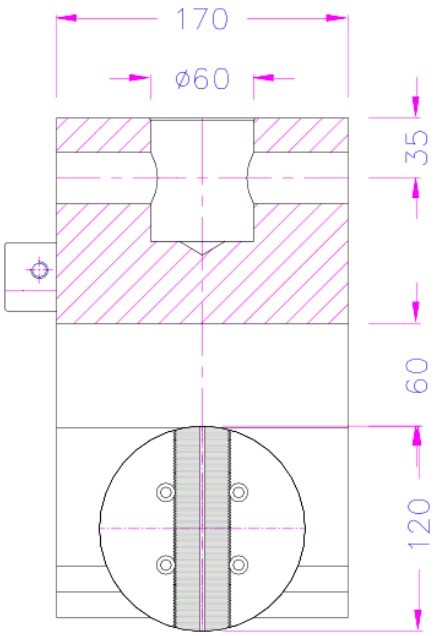


FIG. 3

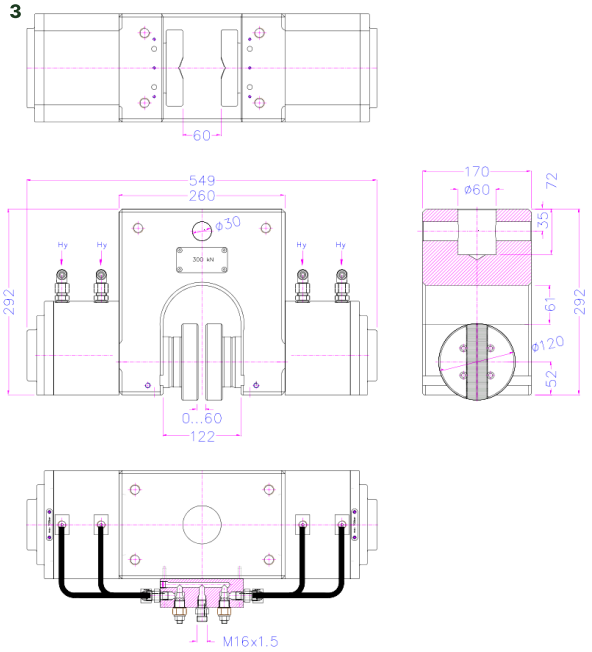
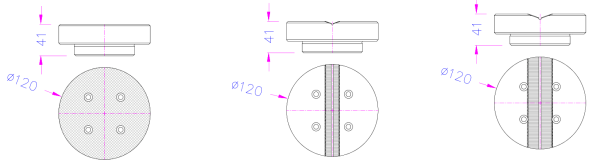


FIG. 4

	Surface:	Clamping surface:	Opening:
	Pyramid (serrated) for flat samples	120 mm Ø	0 – 58 mm
	V-jaws for round samples	120 mm height	8 – 35 mm Ø
	V-jaws for round samples	120 mm height	30 – 60 mm Ø



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.