ROPE GRIPS

Pneumatic Rope Grip with Pyramid Jaws 20 kN

Pneumatic capstan grip with hardened pyramid jaws for ropes and ribbons up to 20 kN



OVERVIEW

Pneumatic capstan grip for tensile tests on ropes and ribbons up to 20 kN. The specimen is wound one or more times around the steel capstan and then clamped pneumatically between hardened pyramid jaws, so tension is relieved gradually and the specimen breaks in the free length. A 50 kN version is available for larger ropes.

KEY FEATURES

- Capstan winding prevents breaks at the clamping point
- Pneumatic clamping at up to 10 bar
- Hardened, nickel-plated pyramid (serrated) jaws included
- Jaw opening 0-12 mm, clamping surface 15 × 40 mm
- Lightweight anodized aluminum body with steel capstan
- 50 kN version with 0-20 mm opening available

TECHNICAL SPECIFICATIONS

Max. load	20 kN (50 kN version available)
Air pressure	Max. 10 bar
Jaw opening	0-12 mm (20 kN); 0-20 mm (50 kN)
Jaw clamping surface	15 × 40 mm (20 kN); 20 × 50 mm (50 kN), pyramid
Min. specimen length	1250 mm (20 kN); 1650 mm (50 kN)
Material	Body aluminum, anodized; capstan steel; jaws steel, hardened, nickel-plated
Coupling	Female clevis Ø 15.9 mm (5/8 in) (20 kN) or Ø 31.8 mm (1-1/4 in) (50 kN)
Temperature range	0 to 70 °C; other ranges on request
Weight	4.7 kg per grip incl. jaws (20 kN); 11 kg (50 kN)

AVAILABLE VERSIONS

20 kN	Opening 0-12 mm, jaws 15 × 40 mm, female clevis Ø 15.9 mm (5/8 in)
50 kN	Opening 0-20 mm, jaws 20 × 50 mm, female clevis Ø 31.8 mm (1-1/4 in)

APPLICATIONS

- Synthetic ropes
- Webbing and ribbons
- Cords and braids
- Rope production QC

Ordering & customization: Specify the load capacity (20 kN or 50 kN), rope diameter, the coupling of your testing machine and any pneumatic accessories 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-RP-050

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DIMENSIONAL DRAWINGS

FIG. 1

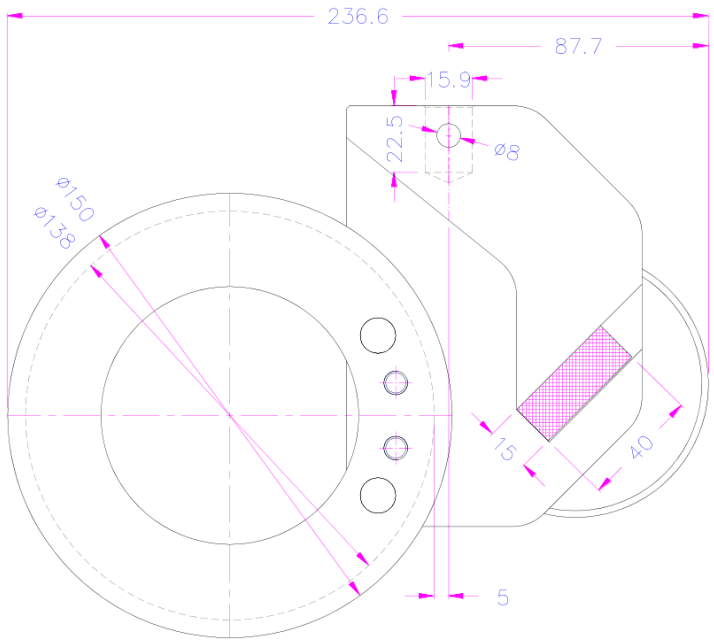


FIG. 2

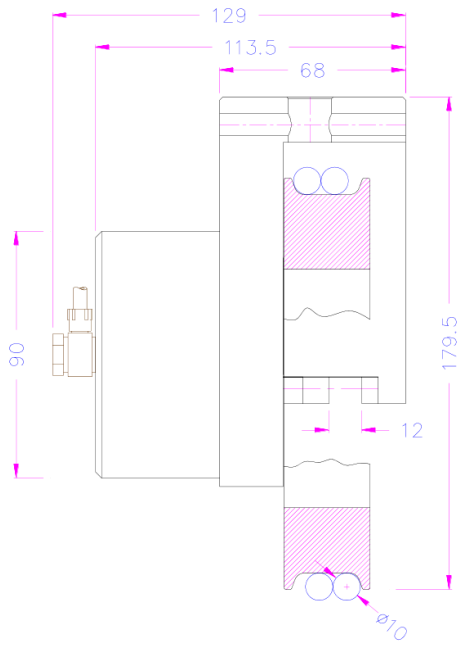
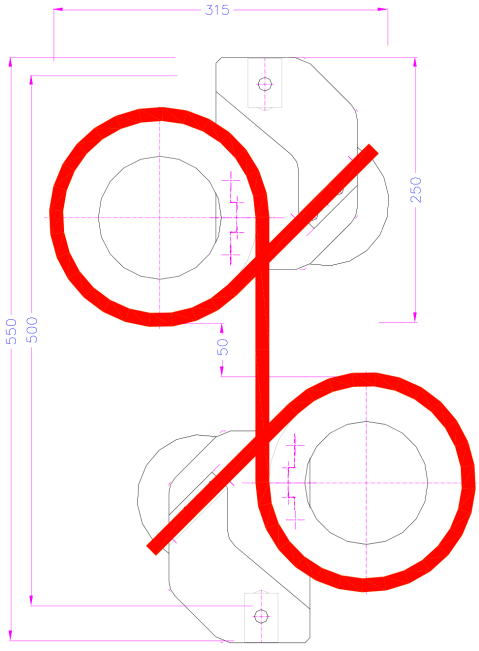


FIG. 3



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.