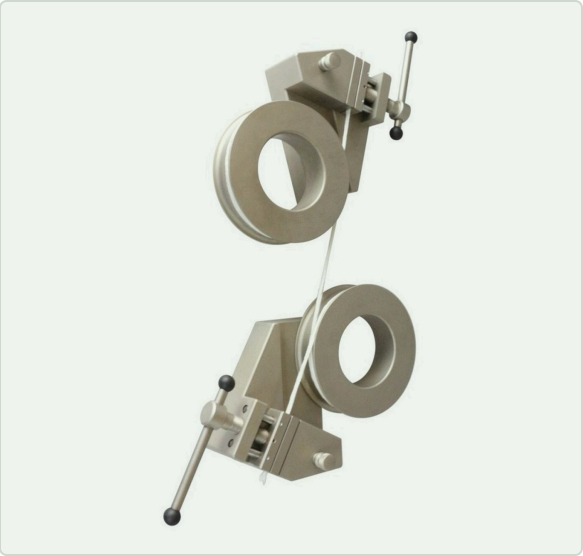
ROPE GRIPS

Rope Grips

Manual and hydraulic capstan rope grips for ropes up to 25 mm, 50 kN to 250 kN



OVERVIEW

Capstan rope grips for tensile tests on ropes from 50 kN to 250 kN. Depending on its friction coefficient, the rope is wound one or more times around a large bollard before being fixed by clamping jaws. The bollard reduces tension gradually so the rope does not break in the clamping area. Manual and hydraulic versions are available.

KEY FEATURES

- Bollard winding prevents rope breaks at the clamping point
- Manual and hydraulic clamping versions for different throughput needs
- Capacities of 50, 100, 150 and 250 kN
- Interchangeable pyramid, wave and blank jaws, hardened to 58 HRC
- Bollard diameters of 162 mm and 270 mm
- Larger bollards and higher temperature versions on request

TECHNICAL SPECIFICATIONS

Max. load	50, 100, 150 or 250 kN (by version)
Rope diameter	Max. 20 mm (50 kN); max. 25 mm (100/150 kN)
Min. specimen length	1500 mm (50 kN); 2600 mm (100/150 kN)
Bollard diameter	162 mm (50 kN); 270 mm (100/150 kN)
Jaw clamping surface	70 × 30 mm, 120 × 50 mm or 160 × 50 mm (H x W)
Jaw surfaces	Pyramid (1.2 × 45°), wave or blank, 58 HRC
Coupling	Female clevis Ø 30, 31.8 (1-1/4 in), 40 or 50 mm; others on request
Temperature range	0 to 70 °C; other ranges on request
Weight	13.9 kg (50 kN) or 50 kg (100/150 kN) per pair

AVAILABLE VERSIONS

Manual, 50 kN	Ropes to 20 mm, bollard 162 mm, jaws 70 × 30 mm
Manual, 100 kN / 150 kN	Ropes to 25 mm, bollard 270 mm, jaws 120 × 50 mm
Hydraulic, 100 kN	Jaws 120 × 50 mm
Hydraulic, 250 kN	Jaws 160 × 50 mm
Jaw sets	Pyramid, wave or blank; 4 jaws per set

APPLICATIONS

- Synthetic fiber ropes
- Steel wire ropes
- Mooring and lifting ropes
- Rope manufacturing QC

Ordering & customization: Specify the maximum load, rope diameter and material, manual or hydraulic clamping, the jaw surface 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-RP-020

Rope Grips

DIMENSIONAL DRAWINGS

FIG. 1

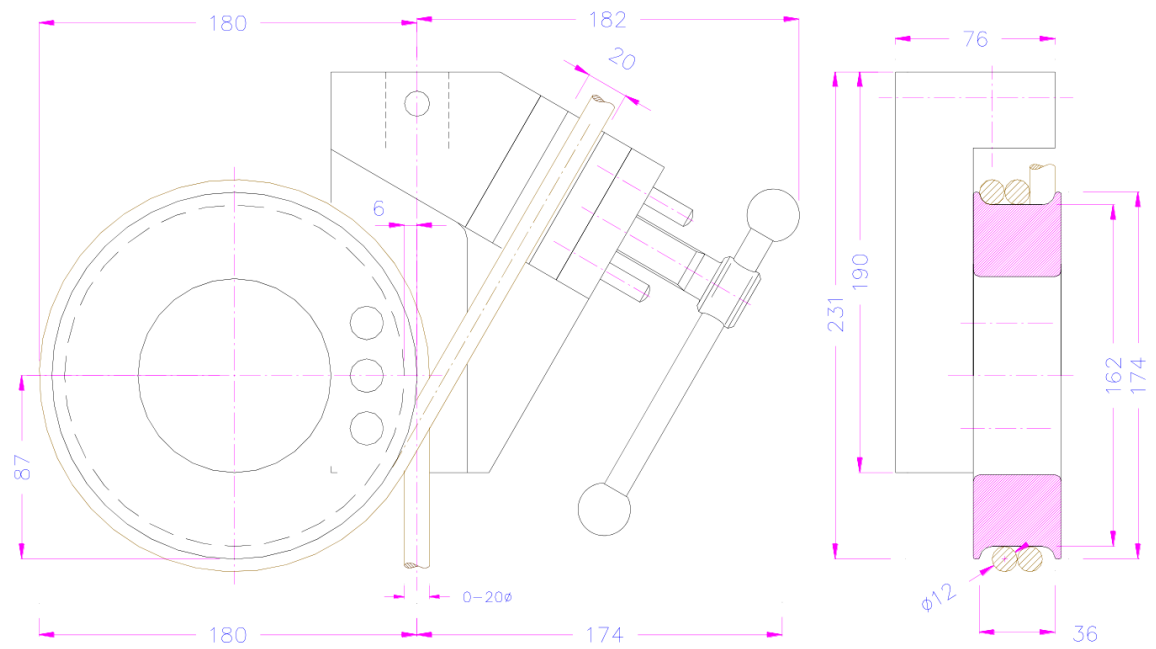


FIG. 2

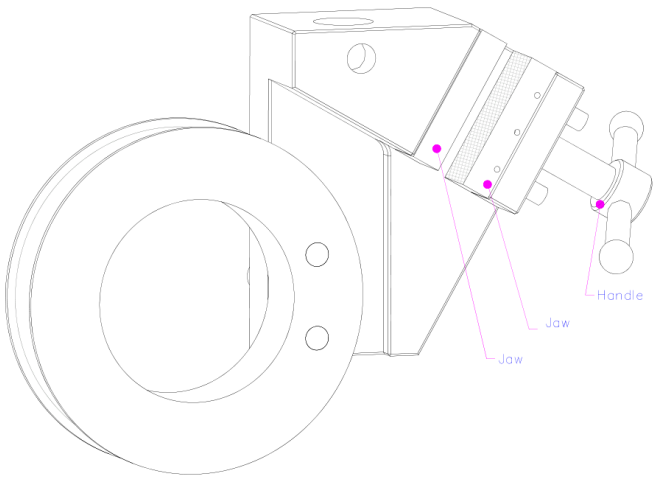
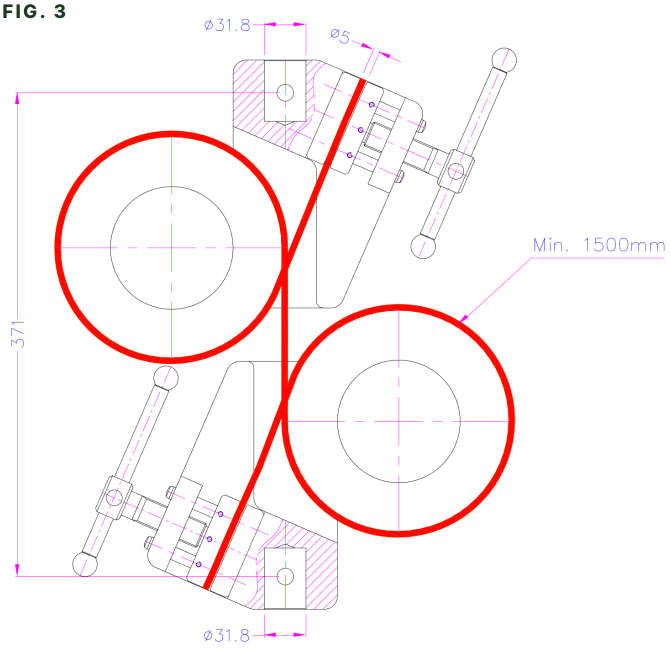


FIG. 3



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.