WEDGE GRIPS

Steel Rope and Rebar Tensile Fixture

Conical-insert holders for tensile tests on steel ropes, strands and rebar



OVERVIEW

A modular fixture for tensile testing of steel ropes, prestressing strands and reinforcing bars, including fiber-reinforced polymer rebar. Tubular holders carry insert carriers with conical wedge inserts that tighten around the round specimen as load increases. Interchangeable inserts and reduction plates adapt one holder to different specimen diameters and to threaded ends, with holder versions from 15 kN up to 300 kN.

KEY FEATURES

- Conical wedge inserts self-tighten on round specimens
- Interchangeable inserts for Ø 9.5, 12.7 and 15.2 mm specimens
- Reduction plates adapt the holder opening from 84 to 38 mm
- Dedicated inserts available for specimens with threaded ends
- Side window for specimen insertion and inspection
- Holders from 15 kN up to 300 kN

TECHNICAL SPECIFICATIONS

Max. load	15 kN or 300 kN (depending on holder)
Test type	Tensile
Specimen	Steel rope, strand, steel or FRP rebar
Specimen diameter	9.5 mm, 12.7 mm, 15.2 mm; others on request
Clamping	Conical wedge inserts in insert carrier
Coupling	Female clevis, Ø 31.8 mm (1-1/4 in) pin (15 kN); heavy clevis (300 kN)
Material	Steel, nickel-plated; inserts hardened
Temperature range	On request

AVAILABLE VERSIONS

15 kN holder, large insert	For medium-sized specimens
15 kN holder, reduction plate	Opening reduced from 84 to 38 mm
300 kN holder	With insert carrier, heavy clevis coupling
Strand inserts	Specimens Ø 9.5, 12.7 or 15.2 mm
Threaded-end inserts	Threaded specimens Ø 15.2 mm
Spiral specimen holder	Special holder for spiral specimens

APPLICATIONS

- Steel wire ropes
- Prestressing strands
- Steel and FRP rebar
- Threaded bars and anchors

Ordering & customization: Specify specimen type and diameter, end condition (plain or threaded), required capacity and coupling.

Drawings available on request
Contact us for dimensional drawings or 3D models of this product.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-WG-010