

Pneumatic Grip for Yarn Single-End Tensile Testing

Built to ISO 2062 — Textiles — Yarns from packages — Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester



OVERVIEW

Double-acting pneumatic grip for single-end tensile testing of yarns. Opposed air cylinders close both jaws simultaneously, keeping the yarn on the load axis, and a toggle valve or foot switch gives fast, repeatable clamping with constant force throughout high-volume testing.

KEY FEATURES

- Opposed pneumatic cylinders close both jaws symmetrically on the load axis
- Constant, adjustable clamping force set by air pressure
- Interchangeable serrated, flat or rubber-faced jaw faces
- Toggle valve or foot switch for fast operation
- Open U-frame for easy yarn threading

TECHNICAL SPECIFICATIONS

Test method	Single-end breaking force and elongation
Test type / loading	Uniaxial tension, CRE
Specimens	Single yarn ends from packages
Load capacity	1 kN standard; higher capacities on request
Grip material	Aluminium body, steel jaw faces
Gripping surfaces	Serrated, flat or rubber-lined faces
Actuation	Pneumatic, double-acting; typically up to 6–8 bar
Machine connection	Pin or threaded adapter, to suit customer frame

APPLICATIONS

- Spun and filament yarns
- Technical and industrial yarns
- Sewing threads
- Spinning mill and yarn QC labs

ABOUT THE STANDARD

ISO 2062 specifies methods for determining the single-end breaking force and elongation at break of textile yarns taken from packages, using a constant rate of extension (CRE) tester. Specimens are tested at a set gauge length and extension rate, either manually or automatically, and the mean breaking force, tenacity and elongation are reported.

Ordering & customization: Specify yarn type and count range, jaw face type, available air pressure and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO2062-PG