PRODUCT DATA SHEET

ASTM A370 Tensile Fixture

Tensile Test Fixture for Steel Products

Built to ASTM A370 — Standard Test Methods and Definitions for Mechanical Testing of Steel Products



OVERVIEW

Tensile fixture for testing steel products per ASTM A370. Specimens are gripped securely and pulled in axial tension to fracture, allowing yield strength, tensile strength, elongation and reduction of area to be determined for plate, bar, wire and machined round specimens.

KEY FEATURES

- Accepts flat, round, threaded and shouldered specimen configurations
- Self-aligning design reduces bending on the specimen
- Hardened, replaceable gripping faces for long service life
- Compatible with extensometers for yield and modulus measurement
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Tension testing of steel products per ASTM A370
Test type / loading	Axial tension to fracture
Specimens	Plate-type, sheet-type, round and full-section specimens per A370
Load capacity	100 kN standard; higher capacities on request
Fixture material	Heat-treated alloy steel
Gripping surfaces	Hardened serrated faces or threaded/shouldered holders
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Steel plate, bar and sheet
- Machined round and flat specimens
- Mill test certification
- Fabrication and weld procedure testing

ABOUT THE STANDARD

ASTM A370 covers procedures and definitions for the mechanical testing of steel, stainless steel and related alloy products, including tension, bend, hardness and impact tests. Its tension test determines yield strength, tensile strength, elongation and reduction of area using full-section or machined specimens appropriate to the product form.

Ordering & customization: Specify specimen type and dimensions, required capacity 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-A370-TF