

Fastener Test Fixture for Wedge and Proof Load Testing

Built to ASTM F606 — Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets



OVERVIEW

Fastener test fixture for tension, proof load and wedge tension testing of bolts and nuts. Hardened threaded adapters and interchangeable wedge washers hold the fastener in the test machine, so full-size bolts can be loaded to proof load or failure, with or without angled head bearing.

KEY FEATURES

- Hardened threaded adapters for full-size bolt tension testing
- Interchangeable wedge washers at specified angles
- Nut proof load mandrels available
- Heat-treated construction for repeated high-strength testing
- Adapters sized to customer thread series and diameters

TECHNICAL SPECIFICATIONS

Test method	Proof load, wedge and axial tension
Test type / loading	Axial tension
Specimens	Full-size bolts, studs and nuts, per ASTM F606/F606M
Load capacity	Sized to fastener; 300 kN typical, higher on request
Fixture material	Hardened alloy steel
Contact surfaces	Hardened threaded adapters and wedge washers
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Structural bolts and studs
- Nuts and washers
- Fastener lot acceptance testing
- Distributor and mill QC labs

ABOUT THE STANDARD

ASTM F606/F606M covers test methods for mechanical properties of threaded fasteners, washers, direct tension indicators and rivets. Tests include proof load, wedge and axial tension, hardness and nut proof load. Full-size products are tested where possible, giving results that confirm conformance to fastener product specifications.

Ordering & customization: Specify thread sizes and pitches, wedge angles, required capacity and 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-F606-TF