STANDARDS TEST FIXTURE

Blind Rivet Shear and Tensile Fixture ISO 14589

Referee shear, tensile and mandrel test fixtures for blind rivets to ISO 14589



OVERVIEW

Fixture set for mechanical testing of blind rivets according to ISO 14589. It covers referee shear testing (Fig. 3), referee tensile testing (Fig. 5), mandrel head retention (Fig. 6 and 7) and mandrel break load (Fig. 8). The shear fixture uses a universal joint adapter for alignment; inserts suit 4.8 mm and 6.4 mm rivets.

KEY FEATURES

- Covers ISO 14589 shear, tensile and mandrel tests
- Universal joint adapter aligns the rivet with the load axis
- Interchangeable inserts for 4.8 mm and 6.4 mm rivets
- Mandrel break fixture with V-jaw lower grip
- Hardened, nickel-plated steel construction for long service life
- Rated for 20 kN shear, tensile and mandrel break loads

TECHNICAL SPECIFICATIONS

Max. load	20 kN (shear, tensile, mandrel break); 1–2 kN (head retention)
Test type	Shear, tensile, mandrel break, head retention
Standard	ISO 14589 Fig. 3, 5, 6, 7, 8
Rivet sizes	4.8 mm and 6.4 mm (via inserts)
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin
Material	Steel, hardened, nickel-plated
Temperature range	On request

AVAILABLE VERSIONS

Shear fixture (Fig. 3)	20 kN, universal joint adapter
Tensile fixture (Fig. 5)	20 kN, referee tensile test
Mandrel break fixture (Fig. 8)	20 kN, lower grip with V-jaws
Head retention fixture (Fig. 6 and 7)	1 kN (Fig. 7) / 2 kN (Fig. 6), lower platen
Insert 4.8 mm rivet	5 mm height
Inserts 6.4 mm rivet	1, 2.3 or 5 mm height

APPLICATIONS

- Blind rivet manufacturers
- Aerospace and automotive assembly
- Fastener incoming inspection
- Sheet metal joint testing

STANDARDS ISO 14589

Ordering & customization: Specify which ISO 14589 tests are required, rivet diameter and grip range, and the machine 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-ST-310