SHEAR FIXTURES

Single Shear Fastener Fixture NASM 1312-20

Single shear fixture for aerospace fasteners per NASM 1312-20 Fig. 3a



OVERVIEW

A single shear fixture for determining the shear strength of fasteners to NASM 1312-20 and MIL-STD-1312-20, Fig. 3a. The fastener passes through two hardened steel plates that are loaded in opposite directions, shearing it across a single plane. A matching Ø 56 mm compression platen with the same coupling is available for the test setup.

KEY FEATURES

- Conforms to NASM 1312-20 and MIL-STD-1312-20 Fig. 3a
- 50 kN capacity for aerospace bolts and pins
- Single shear plane per standard geometry
- Hardened steel construction resists deformation at the shear planes
- Matching Ø 56 mm compression platen available
- Ø 31.8 mm (1-1/4 in) female clevis coupling

TECHNICAL SPECIFICATIONS

Test type	Single shear of fasteners
Max. load	50 kN
Coupling	Female clevis, Ø 31.8 mm (1-1/4 in) pin
Material	Steel
Accessory	Compression platen Ø 56 mm, same coupling
Fastener size	On request
Temperature range	Ambient (other ranges on request)

AVAILABLE VERSIONS

Single shear fixture	50 kN, NASM 1312-20 Fig. 3a
Compression platen	Ø 56 mm, steel

APPLICATIONS

- Aerospace fasteners
- Bolts and pins
- Aerospace rivets
- Fastener qualification labs

STANDARDS NASM 1312-20, MIL-STD-1312-20

Ordering & customization: Specify fastener diameter, required plate hole sizes, max. load 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-SF-010