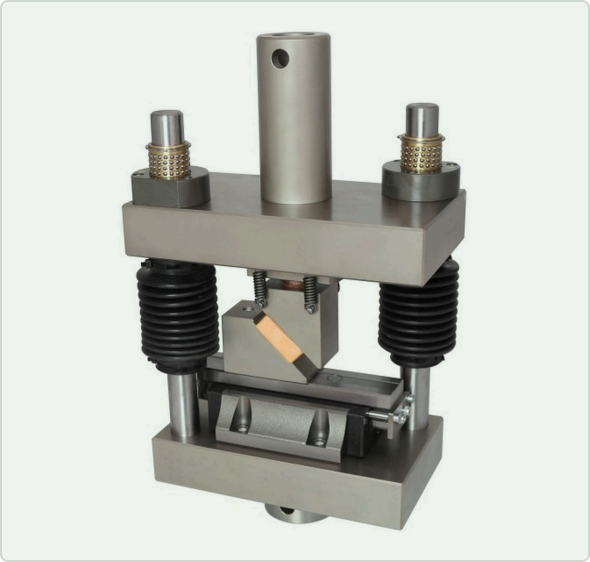
STANDARDS TEST FIXTURE

Wood Panel 45 Degree Compression-Shear Fixture

45° compression-shear fixture for wood-base fiber and particle panels to ASTM D1037



OVERVIEW

Compression-shear test fixture for wood-base fiber and particle panel materials according to ASTM D1037, Fig. 31. The specimen is held between two loading blocks inclined at 45°, so the compressive load from the testing machine produces combined compression and shear in the panel. Available as a 100 kN version with insert plates and a 10 kN version.

KEY FEATURES

- Designed for 45° compression-shear tests to ASTM D1037, Fig. 31
- 100 kN version with carriers and magnetic insert plates
- Insert plates adapt the fixture to multiple panel thicknesses
- 10 kN version in hardened, nickel-coated steel
- Inclined loading blocks set the 45° shear plane
- Suitable for particleboard, fiberboard and OSB

TECHNICAL SPECIFICATIONS

Max. load	100 kN or 10 kN
Test type	45° compression-shear
Standard	ASTM D1037, Fig. 31
Specimen	Wood-base fiber and particle panels
Thickness adaptation	Carriers with magnetic insert plates (100 kN)
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin (10 kN version)
Material	Steel, hardened, nickel-coated (10 kN version)
Temperature range	On request

AVAILABLE VERSIONS

100 kN version	With carriers and magnetic insert plates for multiple thicknesses
10 kN version	Hardened, nickel-coated steel, 15.9 mm clevis coupling

APPLICATIONS

- Particleboard and fiberboard
- OSB and panel producers
- Wood composite research
- Building panel QC

STANDARDS ASTM D1037

Ordering & customization: Specify panel thickness range, required capacity 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-400