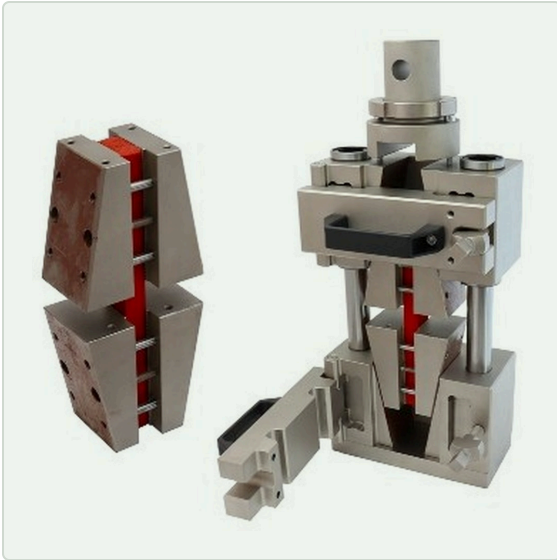


ASTM D3410 Compression Platens

Compression Fixture and Platens for PMC Laminates

Built to ASTM D3410 — Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials with Unsupported Gage Section by Shear Loading



OVERVIEW

Compression platen set for testing polymer matrix composites by shear loading. The wedge-grip compression fixture is loaded between precision parallel platens, introducing load into the tabbed specimen through shear at the gripped ends so the short, unsupported gage section fails in compression.

KEY FEATURES

- Hardened, ground parallel platens for uniform fixture loading
- Platens sized to accept wedge-grip compression fixtures
- Spherical seat option compensates for minor misalignment
- Centering marks help position the fixture on the load axis
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Compressive properties by shear loading
Test type / loading	Compression via platens and wedge-grip fixture
Specimens	Tabbed rectangular specimens per ASTM D3410 geometry
Load capacity	100 kN standard; higher capacities on request
Fixture material	Hardened tool steel
Contact surfaces	Hardened, ground parallel platen faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Carbon and glass fiber laminates
- Unidirectional and cross-ply composites
- Aerospace material qualification
- Composite R&D and QC

ABOUT THE STANDARD

ASTM D3410 determines the in-plane compressive properties of polymer matrix composites reinforced by high-modulus fibers. Load is introduced into a tabbed, rectangular specimen through shear at the wedge-gripped ends, leaving a short unsupported gage section. Compressive strength, modulus and Poisson's ratio are measured, with strain gages used to check for bending.

Ordering & customization: Specify the compression fixture to be used, required capacity, platen diameter 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-D3410-CP