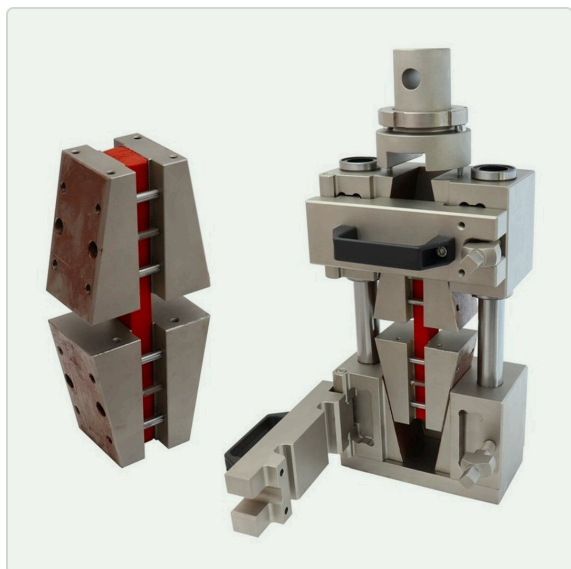


Shear-Loading Compression Fixture for Composites

Built to ISO 14126 — Fibre-reinforced plastic composites — Determination of compressive properties in the in-plane direction



OVERVIEW

Wedge-grip compression fixture for in-plane compressive testing of fibre-reinforced composites. Tabbed specimens are clamped in tapered wedge pairs that seat in a guided housing; linear guide posts keep the upper and lower blocks aligned, introducing load by shear through the tabs to give a short, unsupported gauge length.

KEY FEATURES

- Tapered wedge grips introduce load by shear through specimen end tabs
- Guide posts with linear bearings keep upper and lower halves aligned
- Removable wedge pairs for bench loading of specimens
- Short unsupported gauge length to prevent buckling
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	In-plane compression per ISO 14126, shear loading
Test type / loading	Compression introduced via wedge-gripped tabs
Specimens	Tabbed flat composite strips per ISO 14126
Load capacity	100 kN standard; higher capacities on request
Fixture material	Hardened steel wedges and housing
Gripping surfaces	Serrated or surfaced wedge faces
Alignment	Twin guide posts with linear bearings
Machine connection	Clevis pin or threaded adapter, to suit customer frame

APPLICATIONS

- Unidirectional and multidirectional laminates
- Aerospace composite qualification
- Carbon and glass fibre prepreg systems
- Design allowables and material screening

ABOUT THE STANDARD

ISO 14126 specifies methods for determining the compressive properties of fibre-reinforced plastic composites in directions parallel to the plane of lamination. Load is introduced by shear through end tabs (Method 1) or by combined/end loading (Method 2). Results include compressive strength, compressive modulus and compressive failure strain.

Ordering & customization: Specify specimen width, thickness and tab length, required capacity, wedge surface 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-ISO14126-CP