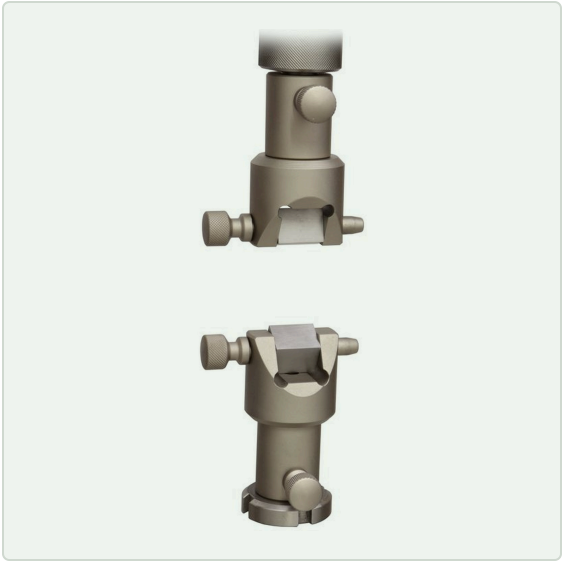
PRODUCT DATA SHEET

ISO 15024 Tensile Fixture

Mode I DCB Load Block Clevis Set

Built to ISO 15024 — Fibre-reinforced plastic composites — Determination of mode I interlaminar fracture toughness, GIC, for unidirectionally reinforced materials



OVERVIEW

Clevis fixture set for mode I double cantilever beam (DCB) testing of composites. Load blocks bonded to the specimen arms are pinned into upper and lower clevises, allowing the arms to rotate freely as they are pulled apart so the delamination grows under pure opening mode.

KEY FEATURES

- Clevises accept bonded load blocks for free rotation of specimen arms
- Knurled quick-release pins for fast specimen loading
- Compact design leaves crack front visible for length measurement
- Load blocks supplied in sizes to suit specimen width
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Mode I DCB per ISO 15024
Test type / loading	Opening-mode tension via load blocks
Specimens	Unidirectional DCB specimens with bonded load blocks
Load capacity	1 kN standard; higher capacities on request
Fixture material	Stainless steel clevises, steel or aluminium load blocks
Gripping surfaces	Pinned clevis connection to load blocks
Machine connection	Pin with knurled retainer, or threaded adapter to suit frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Carbon and glass fibre laminates
- Toughened resin system development
- Aerospace composite qualification
- Delamination resistance research

ABOUT THE STANDARD

ISO 15024 specifies a method for determining the mode I interlaminar fracture toughness, GIC, of unidirectionally reinforced fibre-reinforced plastic composites using the double cantilever beam specimen. Opening forces are applied via load blocks or hinges, and crack length is monitored. Results are initiation and propagation values of GIC in J/m².

Ordering & customization: Specify specimen width, load block size and pin diameter, required capacity 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-ISO15024-TF