SHOULDER & BUTTON HEAD GRIPS

Fine Ceramics Tensile Fixture ISO 15490

Tensile test fixtures for monolithic fine ceramic specimens to ASTM C1273 and ISO 15490



OVERVIEW

Steel fixtures for tensile strength testing of monolithic fine (advanced technical) ceramics at ambient temperature. The shaped specimen ends are seated in matching holders so load is introduced axially, minimizing bending in these brittle materials. Three versions accommodate the common specimen geometries of ASTM C1273 and ISO 15490, each rated to 10 kN.

KEY FEATURES

- For tensile tests to ASTM C1273 and ISO 15490
- Specimen-specific seats keep load introduction axial
- Three versions for the main standard specimen shapes
- Rated to 10 kN for high-strength ceramics
- Steel construction with standard clevis couplings

TECHNICAL SPECIFICATIONS

Max. load	10 kN
Test type	Tensile strength of monolithic fine ceramics
Specimen	Shaped-end specimens to ASTM C1273 / ISO 15490
Material	Steel
Coupling	Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm, or male clevis Ø 30 mm; others via adapter
Temperature	Ambient
Operation	Manual specimen insertion

AVAILABLE VERSIONS

GIRI specimen shape	ASTM C1273 and ISO 15490; male clevis, Ø 30 mm pin hole
ASTM C1273 Fig. 15 shape	Female clevis, Ø 20 mm pin
Univ. Karlsruhe specimen shape	ASTM C1273 and ISO 15490; female clevis, Ø 15.9 mm (5/8 in) pin

APPLICATIONS

- Advanced technical ceramics
- Ceramic material development
- Aerospace and energy components
- Research laboratories

STANDARDS ISO 15490, ASTM C1273

Ordering & customization: Specify the specimen geometry (GIRI, ASTM C1273 Fig. 15 or Karlsruhe shape) and the coupling of your testing machine.

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-SH-110