SHOULDER & BUTTON HEAD GRIPS

Carbon and Graphite Tensile Fixture

Carrier and insert set for tensile stress-strain testing of carbon and graphite to ASTM C749



OVERVIEW

Tensile test fixture for manufactured carbon and graphite specimens to ASTM C749. A carrier with clevis coupling accepts interchangeable inserts matched to the specimen size, so the shaped specimen ends are seated and loaded axially. This avoids clamping damage to the brittle material and supports stress-strain measurement up to fracture.

KEY FEATURES

- Designed for tensile stress-strain tests to ASTM C749
- Interchangeable inserts for 109, 113 and 123 mm specimen sizes
- Specimen ends seated in inserts, no clamping of brittle material
- Axial load introduction to minimize bending
- Nickel-plated steel carrier and inserts for durability
- Carrier with standard female clevis coupling

TECHNICAL SPECIFICATIONS

Test type	Tensile stress-strain of carbon and graphite
Specimen sizes	109 mm, 113 mm or 123 mm (ASTM C749)
Max. load	On request
Material	Steel, nickel-plated
Coupling	Female clevis, Ø 31.8 mm (1-1/4 in) pin; others via adapter
Scope of delivery	Carrier with coupling and inserts
Operation	Manual specimen insertion

AVAILABLE VERSIONS

Specimen size 109 mm	Carrier with matching inserts
Specimen size 113 mm	Carrier with matching inserts
Specimen size 123 mm	Carrier with matching inserts
Inserts only	Additional insert sets for 109 mm or 113 mm specimens

APPLICATIONS

- Synthetic graphite electrodes
- Carbon and graphite materials
- Nuclear and industrial graphite
- Materials research

STANDARDS ASTM C749

Ordering & customization: Specify the ASTM C749 specimen size (109, 113 or 123 mm), whether a carrier is needed or inserts only, 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-140