SHEAR FIXTURES

Ceramic Composite Shear Fixture

Compression shear fixture for fiber-reinforced ceramics per ASTM C1292



OVERVIEW

A shear test fixture for fiber-reinforced ceramic composites at ambient temperature to ASTM C1292, Fig. 1. A notched specimen up to 10 mm thick is held in the lower specimen holder and loaded in compression by an upper probe, producing interlaminar or in-plane shear failure between the notches. The lower compression platen is ordered separately.

KEY FEATURES

- Conforms to ASTM C1292, Fig. 1
- Accepts notched specimens from 0 to 10 mm thick
- Rated to 10 kN maximum test load
- Specimen holder and probe made of nickel-plated steel
- Two-part version for use between platens

TECHNICAL SPECIFICATIONS

Test type	Shear of notched specimens, compression mode
Max. load	10 kN
Specimen thickness	0–10 mm
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin
Material	Steel, nickel-plated
Temperature range	0 … +70 °C (others on request)
Weight	1.35 kg (without lower platen)
Scope of delivery	Specimen holder and compression probe

AVAILABLE VERSIONS

Standard fixture	Holder + probe with Ø 15.9 mm coupling; 1.35 kg
Two-part fixture	For use between upper and lower platens; 0.5 kg

APPLICATIONS

- Ceramic matrix composites
- Fiber-reinforced ceramics
- Aerospace thermal structures
- Materials research

STANDARDS ASTM C1292

Ordering & customization: Specify specimen thickness, the machine coupling and the required compression platen(s).

Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-SF-150

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DIMENSIONAL DRAWINGS

FIG. 1

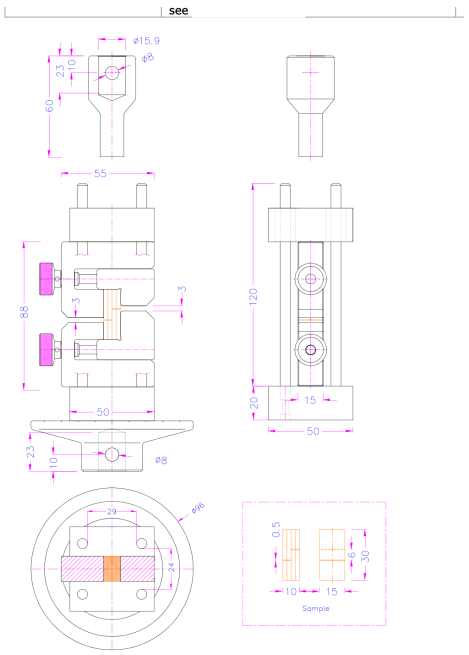
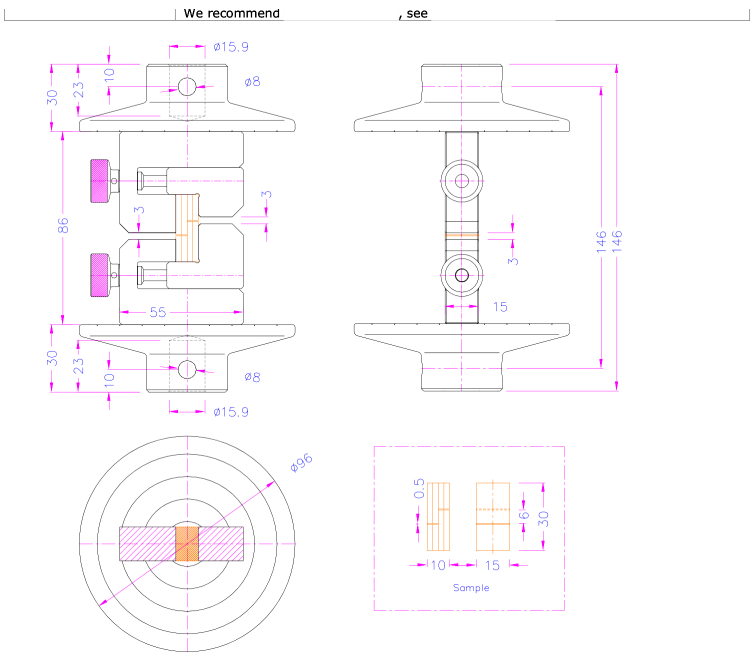


FIG. 2



Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.