PUNCTURE FIXTURES

Dental Ceramic Biaxial Flexure Fixture ISO 6872

Piston-on-three-balls biaxial flexure fixture for dental ceramics to ISO 6872



OVERVIEW

A biaxial flexure fixture for determining the flexural strength of dental ceramic materials used in all-ceramic and metal-ceramic restorations, according to ISO 6872. A disc specimen rests on three hardened steel balls and is loaded at its center by a 1.4 mm tungsten carbide piston until fracture. The stainless steel fixture also suits ceramic substrate testing to ASTM F394.

KEY FEATURES

- Piston-on-three-balls arrangement according to ISO 6872
- Three hardened steel support balls, Ø 3.175 mm
- Tungsten carbide loading piston, Ø 1.4 mm
- Stainless steel body with 2.5 kN capacity
- Usable from -70 °C to +280 °C in a chamber
- Version for ceramic substrates to ASTM F394 available

TECHNICAL SPECIFICATIONS

Max. load	2.5 kN
Test type	Biaxial flexure (piston on three balls)
Support	3 hardened steel balls, Ø 3.175 mm
Piston	Ø 1.4 mm, tungsten carbide
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin; others on request
Material	Stainless steel 1.4301 (304)
Temperature range	-70 to +280 °C
Weight	1.23 kg
Scope of supply	1 fixture incl. 3 balls

AVAILABLE VERSIONS

ISO 6872	Dental ceramics
ASTM F394	Ceramic substrates, modulus of rupture

APPLICATIONS

- Dental ceramics and zirconia
- Restoration materials
- Ceramic substrates
- Dental lab R&D

STANDARDS ISO 6872, ASTM F394

Ordering & customization: Specify the standard (ISO 6872 or ASTM F394), disc specimen diameter and the machine coupling.

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

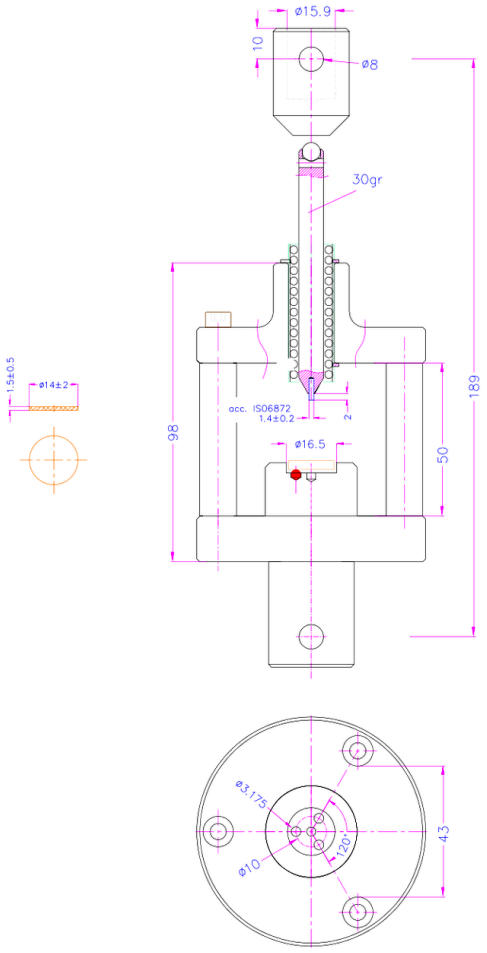
Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-PF-040

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DIMENSIONAL DRAWINGS

FIG. 1

Max. load:	2.5 kN
Coupling:	Further couplings on request
Pin:	1.4 mm Ø, tungsten carbide
Body:	Stainless steel V2A, 1.4301
Temperature range:	-70° … +280°C
Weight:	1.23 kg
Scope of supply:	1 fixture incl. 3 hardened steel balls 3.175 mm Ø



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.