SHOULDER & BUTTON HEAD GRIPS

Coating Bond Strength Tensile Fixture ISO 4624

Pull-off fixture with interchangeable test cylinders for adhesion of coatings and thermal spray layers



OVERVIEW

Bond strength fixture for pull-off tests that measure the tensile adhesion of paints, coatings and thermal spray layers. The coated test cylinder is bonded to a counter cylinder, both are threaded into self-aligning insert holders, and the assembly is pulled apart until the coating fails. Cylinders for the test surfaces of each standard are ordered separately.

KEY FEATURES

- Covers ASTM C633, ISO 4624, EN 582, ISO 14916 and more
- Insert holders with threaded inserts and grub screws
- Interchangeable test cylinders from Ø 10 to Ø 50 mm
- Rated to 50 kN for high-strength thermal spray coatings
- Usable from -70 to 180 °C
- Centering devices and sample preparation holder available

TECHNICAL SPECIFICATIONS

Max. load	50 kN
Test type	Pull-off tensile adhesion of coatings
Test surface	Ø 10, 14, 20, 25, 25.4, 28.7, 40 or 50 mm (by cylinder)
Material	Steel or aluminum
Coupling	Female clevis, Ø 31.8 mm (1-1/4 in) pin; others on request
Temperature range	-70 to 180 °C; other ranges on request
Scope of delivery	2 insert holders incl. 2 threaded inserts and 2 M16 grub screws

AVAILABLE VERSIONS

Cylinders Ø 25.4 mm	ASTM C633, ASTM F1147 Fig. 3
Cylinders Ø 28.7 mm	ASTM F1147 Fig. 2
Cylinders Ø 25 mm	EN 582, ISO 13779-4
Cylinders Ø 40 mm	EN 582
Cylinders Ø 20 mm	ASTM D4541 Type V, ISO 4624
Cylinders Ø 10, 14 or 50 mm	ASTM D4541 Type V

APPLICATIONS

- Thermal spray coatings
- Paints and varnishes
- Medical implant coatings
- Surface engineering laboratories

STANDARDS ASTM C633, ASTM D4541, ASTM F1147, ISO 4624, ISO 14916, ISO 13779-4, EN 582

Ordering & customization: Specify the standard and test surface diameter of the cylinders required, the number of cylinder pairs and the coupling of your testing machine.

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

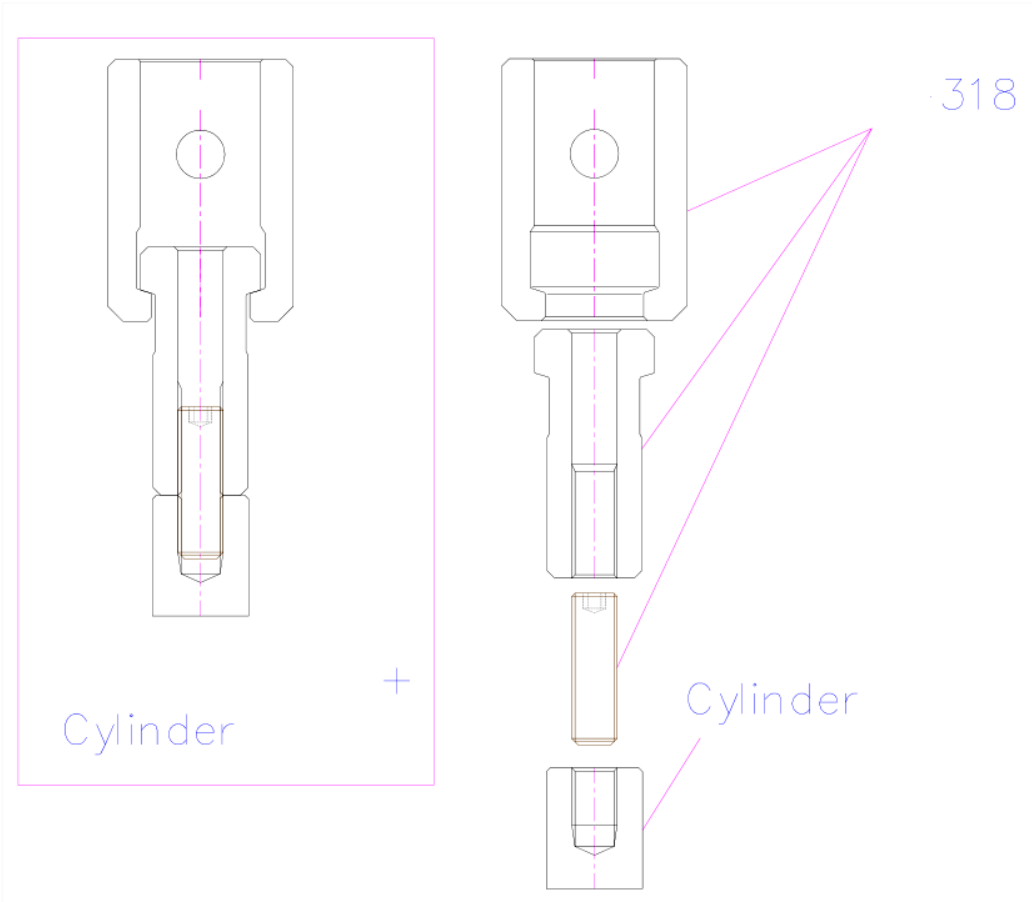
Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-SH-320

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DIMENSIONAL DRAWINGS

FIG. 1

Material:	Steel or aluminium
Temperature range:	-70 ... +180°C. Further temperature range
Coupling:	
Max. load:	50 kN
Scope of supply:	2x M16 grub screws). Test cylinders must be ordered separately



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.