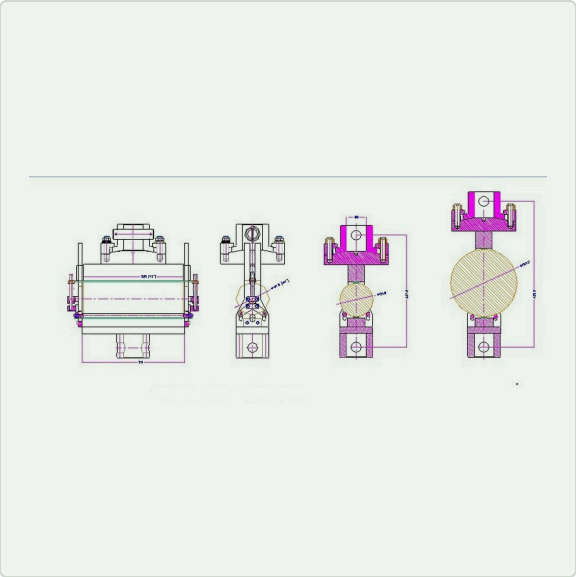
Splitting Tensile Jig for Concrete Cylinders

Built to ASTM C496 — Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens



OVERVIEW

Splitting tensile jig for concrete cylinders. The cylinder lies on its side between two bearing bars with thin bearing strips, and compressive line load along the length induces tensile stress across the vertical diametral plane, splitting the specimen. Alignment guides center the cylinder for consistent, repeatable splitting tensile results.

KEY FEATURES

- Alignment jig centers the cylinder on the loading diameter
- Supplementary bearing bars spread load along full length
- Uses replaceable bearing strips as specified by the method
- Fits common cylinder sizes with adjustable guides
- Compatible with compression machines and universal frames

TECHNICAL SPECIFICATIONS

Test method	Splitting tensile (diametral compression)
Test type / loading	Compressive line load along cylinder length
Specimens	Molded cylinders or drilled cores per ASTM C496
Load capacity	Sized to compression machine; high-capacity design
Fixture material	Steel, machined and ground bearing surfaces
Contact surfaces	Bearing bars with replaceable bearing strips
Machine connection	Placed between platens; adapters available
Compatible frames	Concrete compression machines and universal test machines

APPLICATIONS

- Ready-mix and precast concrete QC
- Lightweight aggregate concrete design
- Drilled core evaluation
- Research and mix development

ABOUT THE STANDARD

ASTM C496 determines the splitting tensile strength of cylindrical concrete specimens, such as molded cylinders and drilled cores. A diametral compressive force is applied along the length of the cylinder until failure, producing tensile stresses on the loaded plane. The result is used to evaluate shear resistance of lightweight aggregate concrete and other design properties.

Ordering & customization: Specify cylinder diameter and length, compression machine type and platen size when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-C496-TG