

Indirect Tension (Brazilian) Apparatus for Rocks (RIT-B)



- Available sizes for specimen diameter from 50 mm to 150 mm (Note that ISRM recommends that the diameter shall not be less than NX core – 54-mm diameter).
- Made of hardened stainless steel.
- Can be used with GCTS unconfined, triaxial and point load tester frames.
- Very easy to set up and use.

DESCRIPTION

The GCTS IDT-B Rock Apparatus is used for determining indirect tensile strength by the Brazil test according to the International Society for Rock Mechanics standard.

The device consists of an upper and lower support ring machined with a low weight, high strength design. The Indirect Tension Apparatus is available in standard sizes and also in custom sizes.

SPECIFICATIONS

Standard apparatus includes:

- Loading jaws for testing 54-mm (NX) diameter and 27-mm thick samples by the Brazil test). Top and bottom jaws 30 mm wide with 39-mm radius and guide pins to allow rotation of one jaw relative to the other. Top jaw includes spherical seating with HRC 45 hardness.
- Half ball bearing. Spherical platen formed by a 25-mm half ball bearing.
- Meets ISRM suggested method for Determining Tensile Strength by the Brazil measures axial and lateral strain directly on the specimen providing accurate results.

NOTE: Requires suitable compression frame