

BRAZILIAN TEST APPARATUS

●● HR72.395

Brazilian Test Apparatus

Introduction

Brazilian Test is a test for indirect measurement of tensile strength of rocks. The apparatus for carrying out this test, meets the essential requirements of IS:10082-1982 for use with 'NX' size core samples.

The equipment comprises the following :-

i) A loading frame, 100kN Capacity, having a base and a cross head joined together with two solid pillars with nuts. At the top, the pillars have long threads for height adjustment. On the base, a 100kN hydraulic jack is centrally fixed between the pillars. This jack has an integral pumping unit and oil reservoir. A 100kN capacity pressure gauge is fixed to the jack for indicating the load on the specimen. An operating handle for the jack is also provided.

ii) One Brazilian Attachment for 'NX' core size specimen with thickness half the diameter. It has two loading jaws. The lower

jaw has two guide pins fixed with it and the upper jaw has two guide holes for the guide rods to hold the two jaws aligned. The upper jaw has a spherical seating on the upper side to seat a ball for self-alignment. Supplied complete with the steel ball.

●● HR72.396

Brazilian Test Apparatus

Same as HR72.395 but having a loading capacity of 200 kN.

Note : Brazilian Test Attachment for other sizes of rock core specimens available on request.



HR72.395



HR72.450

Rock Bolt Pull Out Test Apparatus

As per B.I.S. - 11309, ASTM D4435, ISRM.

In general the pull out force is indicated on load gauge, however a load cell can be used for the measuring of pull out load. Arrangement is provided for fixing dial gauge for estimating deflection against the load.

HS29.15 25mm x 0.01mm

ACCESSORY

Load Cell with central hole

HR72.455 200kN

HR72.460 1000kN

HR72.465 1500kN

HR72.470 Digital display unit for one load cell - 3fi digits.



HR72.450

The objective of the test method is to measure the working and ultimate capacities of rock bolt anchors.

Different size of adopters are provided with the high tensile test rod.

The system comprises of a central hole jack, hand pump with load gauge, directional control valve (only for central hole jacks above the capacity of 500kN), flexible pipes, truss high tensile test rod with coupling.

Adopters

HR72.450.1 Thread size M20LH

HR72.450.2 Thread size M25LH

HR72.450.3 Thread size M30LH

HR72.450.4 Thread size M32LH

Dial Gauge

Catalogue No.	Capacity in kN	Central Bore mm	Collapsed Height mm	Std. test rod
HR72.400	100	21	155	M20
HR72.405	150	21	170	M20
HR72.410	200	40	185	M39
HR72.415	600	52	430	M39
HR72.420	1200	52	365	M39