

TAPE EXTENSOMETER

●● HR72.345

Tape Extensometer

Features

- a) Simple, fast, rugged and accurate
- b) Can be used in any orientation

Some of the applications

The measurement of surface movements including

- Radial Movement and convergence of tunnels, shafts and linings.
- Deformation of excavations in underground power houses, caverns.
- Displacement of retaining walls, cutting, bridge piers, arches, and abutments.
- Stability of concrete structures and buildings.

The 'HEICO' Tape Extensometer measures small changes (accuracy ± 0.3 mm) over the total length of 30 metres between the two points.

It essentially consists of a steel survey tape punched at equal intervals over the complete length, a tensioning spring, dial gauge of 0.01 mm x 50 mm, hooks on either side to fit the eye bolts and knurled knob for tensioning the spring.

Measuring range of a standard instrument is between 1m-30 m in any direction. Overall measuring accuracy is better than ± 0.3 mm, with operator experience. Average reading takes anywhere between 2-4 minutes by single operator.

Specifications

Model	Range of Measurement	Repeatability
HR72.345 (i)	1m-30m	0.3 mm
HR72.345 (ii)	1m-50m	0.4 mm

ACCESSORIES

	Anchors Overall length
HR72.345.3	130 mm
HR72.345.4	280 mm
HR72.345.5	530 mm
HR72.345.6	Portable calibration jig used in checking the repeatability of extensometer.
HR72.345.7	Steel Tape 30 metres.
HR72.345.8	Steel Tape 50 metres.

●● HR72.370

Slake Durability Test Apparatus

Introduction

This apparatus is used to assess the resistance offered by a rock sample to weakening and disintegration when subject to drying and wetting in a slaking fluid, usually water. The equipment meets the essential requirements of IS:10050-1981 and comprises the following

- i) A motor drive with reduction gear mounted on a base board and capable of rotating four drum assemblies at a constant speed of 20 rev/min approximately. The motor drive is totally enclosed in a hinged cover for quick accessibility to the drive for test set up. An operating switch is provided in the cover.
- ii) Two test drums made of brass wire mesh, with one end closed and having a removable cover on the other end. It has

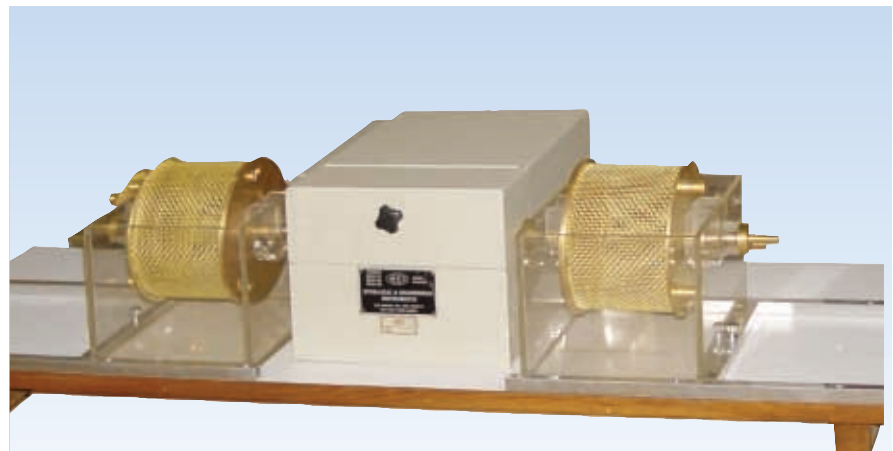
suitable couplings for mounting in the perspex water troughs. The drums are 140 mm in diameter and have an unobstructed length of 100 mm.

iii) Two perspex water troughs, accommodate one test drum each. These drums carry quick couplings on either end which are in turn coupled with couplings of the motor drive. The troughs allow 40 mm unobstructed clearance below the test drum. A water level mark is provided in each water trough 20 mm below the axis of rotation of the drum.

Suitable for operation on 220 v, 50 hz, single phase supply.

ACCESSORIES

HR72.370.1 Pair of perspex water troughs and test drum assemblies complete with couplings



HR72.370