

IPC Global™

Universal Triaxial Cell

Low friction linear (Thompson) ball bushing on loading shaft to AASHTO TP46 / T307

The science of testing made easy



Designed and manufactured to IPC's high precision and quality, the Universal Triaxial Cell provides a versatile, user friendly and accurate device for testing applications where lateral confinement of the specimen is necessary. This triaxial cell is suitable for a range of materials including asphalt, soils and unbound granular materials.

To comply with AASHTO T307 and AASHTO TP46 the cell incorporates low friction linear (Thompson) ball bushing for the loading shaft to keep friction to a minimum and facilitates two LVDTs and mountings brackets for precise direct shaft position measurement.

SPECIFICATIONS



Features

- Low friction linear (Thompson) ball bushing on loading shaft (AASHTO/T307).
- Limited acrylic (see through) area for greater safety.
- Fitted with pressure relief valve for greater safety.
- Facilitates external axial strain transducer mounting system (as recommended in AASHTO TP46/T307).
- Facilitates up to three "through the wall" radial strain transducers.
- Facilitates internal temperature measurement.
- Provision of up to five electrical "feed through" connectors (three provided as standard) to accommodate internal transducers.
- Provision of anchor points for the bottom platen and triaxial cell, to facilitate direct tension testing.

Sizes & Dimensions

Maximum working pressure
700kPa (water); 400 kPa (air)

Specimen sizes convert in seconds. Other specimen sizes can also be accommodated.
150mm dia. x 300mm (specimen size)
100mm dia. x 200mm (specimen size)

A range of top and bottom platens are available to accommodate various specimen sizes (metric and US customary sizes).

Loading Shaft Travel 160mm

Dimensions 300mm dia.; 600mm (H)

Weight 37kg



HOW IT WORKS

The cell's innovative modular design allows you to perform tests on a variety of specimen sizes (up to 300mm high) whilst still maintaining good visibility of the specimen during the test and keeping the three through-the-wall ports for on-specimen radial strain transducers positioned at the centre of the specimen.

Use water or air for confinement to achieve pressures up to 700kPa or 400kPa respectively. The cell also incorporates provision for internal temperature measurement and up to 5 electrical connections (3 Swiss made connectors fitted as standard) for on-specimen transducers.

A range of top and bottom platens is available to accommodate various specimen sizes (metric and US customary units). By combining the Universal Triaxial Cell with an IPC Universal Testing Machine, IMACS digital controller and IPC UTS software gives you a flexible, powerful and user friendly system that meets international test standards.



IPC Global Customer Care

At IPC Global we are proud of our products.

We're dedicated to supplying high quality, accurate, affordable, easy-to-use systems for advanced testing of asphalt, soil, unbound granular and other construction materials.

As a valued customer of IPC Global you will receive continuous, expert support and advice for your instrument. Furthermore, we ensure new users are trained in the correct operation of your IPC Global equipment.

For support from our expert customer care team, contact your local IPC Global distributor or IPC Global directly on +61 3 9800 2200 or email techsupport@ipcglobal.com.au.

Visit our website for more information: www.ipcglobal.com.au.

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