

## DATA SHEET

# Triaxial test - Universal and Automatic Triaxial Cell for UTM and AsphaltQube



Triaxial test - Universal triaxial cell for UTM 79-PV70300

## General description

To perform Triaxial tests.

## Main features

### Universal triaxial cell

- Incorporated low friction linear (Thompson) ball bushing on loading shaft to keep friction to a minimum
- Limited acrylic (see through) area for greater safety
- Facilitates 2 LVDTs and mounting brackets for precise direct shaft position measurement
- Fitted with pressure relief valve for greater safety
- Facilitates external axial strain transducer mounting system
- Facilitates up to three "through the wall" radial strain transducers
- Facilitates internal temperature measurement
- Facilitates three internal transducers with Lemo "feed-through" connectors as standard and has provision of up to five electrical "feed-through" connectors
- Provision of anchor points for the bottom platen and triaxial cell, to facilitate direct tension testing
- Geotechnical version available with pore and back pressure ports
- Versatile, user friendly and accurate device for triaxial confinement of the specimen
- Suitable for asphalt, soils and unbound granular materials

### Automatic triaxial cell

- Automatic pneumatically operated lift cylinders that raise and lower the cell wall
- Fitted with pressure relief valve for greater safety
- Crystal clear heavy duty acrylic cell wall for maximum visibility of specimen
- Low friction loading shaft
- Capable of operating between -15° to +60° C
- Provision for pressure and temperature transducers
- Provision for up to three (internal) on specimen transducers
- Cell pressure up to 275 kPa
- Versatile, user friendly and accurate device for lateral confinement of the specimen

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- Suitable for asphalt, soils and unbound granular materials

Triaxial cell to be used only with AsphaltQube, in compliant with EN 12697-25B, is available.

### Standards

- NCHRP 9-29
- AASHTO T307
- AASHTO TP46
- AASHTO T378 / TP79
- AASHTO T342 / TP62
- EN 12697-25 Method B

### Specifications

#### Universal Triaxial Cell

Max working pressure: 700 kPa (water), 400 kPa (air)

Max specimen size (dia. x h): 150 x 300 mm

Loading shaft travel: 160 mm

Dimensions (dia. x h): 300 x 600 mm, 330 x 667 mm

Weight (approx.): 40 kg

#### Automatic Triaxial Cell

Confining air: Clean dry air, 400 to 500 kPa, 2 litres/second

Lift cylinder air: 400 to 500 kPa, negligible air consumption

Open height: 655 mm

Closed height: 405 mm

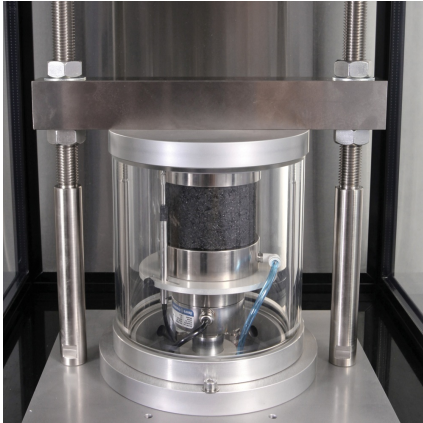
Width: 418 mm

Weight: 50 kg



Triaxial test - Automatic triaxial cell for UTM 79-PV70330

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Triaxial test - Triaxial cell for AST Pro and AsphaltQube 79-PV72301

## Products

**79-PV70300**

Universal Triaxial Cell (UTC) - Standard - for samples up to 150mm dia x 300mm tall

**79-PV70330**

Automatic Triaxial Cell (ATC) with automatic cell raising system