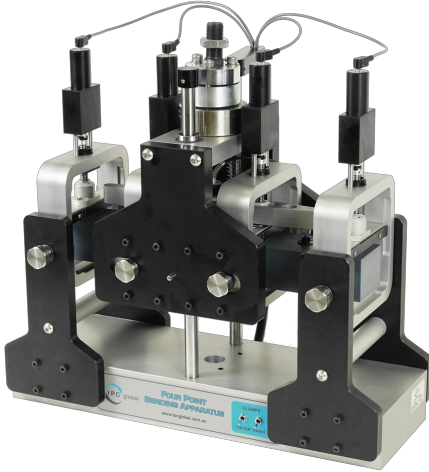


DATA SHEET

Four Point Bend Test for UTM and AsphaltQube



Four Point Bend Test for UTM 79-PV70400 and 79-PV70402

General description

To perform Four Point Bend test

Main features

- Innovative “floating straight-edge” on specimen transducer displacement measurement eliminates errors
- Optional fixed point strain measurement referring from outer pivots
- Designed to subject an asphalt specimen to four point bending with backlash free rotation and horizontal translation of all load and reaction points
- Sinusoidal or haversine controlled strain or controlled stress loading
- Controlled force, motorized specimen clamping
- Loading frequency up to 60 Hz
- Non-linear regression data fitting ensures reliable determination of phase and modulus
- Can be used with existing UTM systems
- Cost effective solution for high volume testing
- Specimen laterally positioned by hand using etched lines as visual guide for two specimen sizes, nominally 50 and 63.5 mm in width
- Vertical clamping of the specimen is achieved by servo-motor driven ball screws, which are operated continuously during the test to take up the compliance of the specimen at the clamping surfaces

Extra Large Four Point Bend Jig

- Innovative floating on-specimen transducer eliminates errors caused by frame compliance
- Backlash free rotation and translation on all load and reaction points
- Controlled force and motorized specimen clamping
- Specimen rollers with pneumatic lift and lowering for easy loading of specimen
- Automated self-aligning specimen yokes for easy specimen insertion
- Specimen roller with pneumatic lift and lowering provide the user with easy test set-up across a range of extra-large specimen sizes
- Vertical clamping of the specimen is achieved by servo-motor driven ball screws, which are operated continuously during the test to take up the compliance of the specimen at the clamping surfaces

Standards

DATA SHEET

- AASHTO T321
- EN 12697-26 Annex B
- EN 12697-24 Annex D
- ASTM D7460
- ASTM D8237
- AG:PT/T233
- AG:PT/T274
- AS 03:2000

Specifications

Loading frequency: up to 60 Hz (load limitations apply at higher frequencies)

Load capacity: up to 10 kN dynamic

Specimen size (h x w x l): 70 (max) x 80 (max) x 380 mm

Yoke alignment tool for specimen: 50 x 50 x 355.5 mm (h x w x outer span centers), 70 x 70 x 420 mm (h x w x outer span centers)

Dimensions (h x w x d): 455 x 460 x 230 mm

Weight: 35 kg

Extra Large Four Point Bend Jig

Dimensions (h x d x w): 790 x 435 x 890 mm

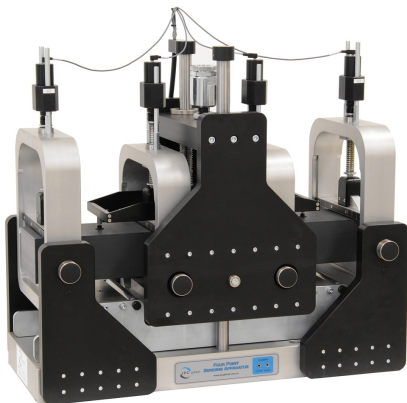
Weight: 210 kg

Load capacity: up to 25 kN dynamic

Specimen size (l x h x w): 790 (min) x 100-160 x up to 200 mm

Yoke alignment tool for specimens: 740 mm (outer span centers), 247 mm (inner span centers)

Air supply: clean, dry air at 700 kPa (specimen loading only)



Extra Large Four Point Bend Test for UTM 79-PV70420

DATA SHEET



Four Point Bend Test for AST Pro and AsphaltQube 79-PV72101

Products

79-PV70410

Four Point Bend Jig for UTM-30 and UTM-130 for 355.5mm and 420mm (outer span centres) specimens. including Load Cell (+/-15kN w/ (ILC), Yoke Alignment Tool for 355.5 mm (outer span centres) x 50mm x 50mm specimens

79-PV70412

Four Point Bend Jig for UTM-16P for 355.5mm and 420mm (outer span centres) specimens. Including Yoke Alignment Tool for 355.5 mm (outer span centres) x 50mm x 50mm specimens

79-PV70440

XL Four Point Bend Jig for 740 mm (outer span centres), 247 mm (inner span centres), suitable for M-130XL. includes: -1x XL Four Point Bend Jig (for UTM systems) -1x LVDT (+/-1mm) w/ In-Line Conditioner (ILC) -1x Yoke Alignment Tool

79-PV72111

AsphaltQube/AsphaltQube Pro Four Point Bending Jig for 355.5mm and 420mm (outer span centres) specimens, including Yoke Alignment Tool 355.5 mm (outer span centres) x 50mm x 50mm specimens