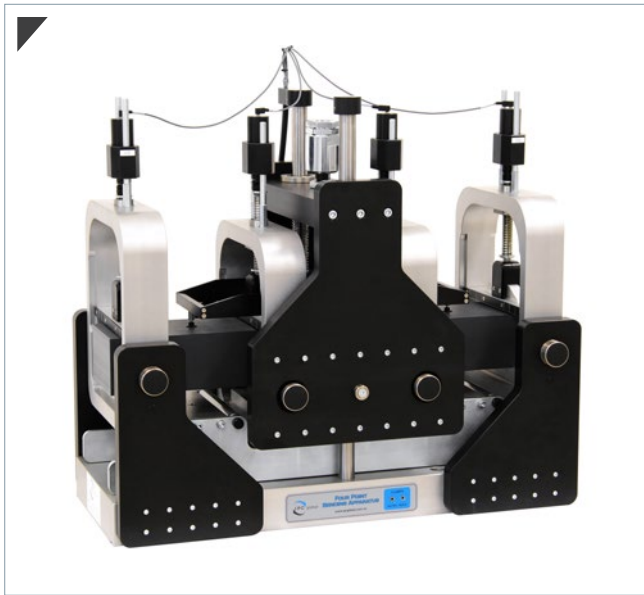


Extra Large Four Point Bend Jig

Accessories

ADVANCED PAVEMENTS TESTING SYSTEMS



IPC Global's Extra Large Four Point Bend Jig has been designed and manufactured to the highest standards. Based on the highly successful Pneumatic Four Point Bend, the jig can be used with IPC Global's range of advanced hydraulic Universal Testing Machines.

The Extra Large Four Point Bend Jig allows researchers to perform four point bend tests on asphalt specimens up to 160x200mm (HxW) and with a minimum length of 790mm with backlash free rotation and horizontal translation of all load and reaction points.

IPC Global offer a unique UTM-130XL testing systems featuring extended frames and extra large environmental chambers to allow users to perform tests at non-ambient temperatures.

Specifications

Features

- Innovative floating on-specimen transducer eliminates errors caused by frame compliance
- Backlash free rotation and translation on all load and reaction points
- Constant force motorized specimen clamping
- Easy specimen loading using rollers with pneumatic lifts
- Quick specimen insertion with automated self aligning specimen yokes

Dimensions and Weight

Size	790x435x890mm (HxDxW)
Weight	210kg
Load Capacity	Up to 25kN dynamic
Specimen Size	Length Min. 790 Height 100–160 Width Max. 200mm
Yoke Alignment Tool for Specimens	740mm (Outer span centers) 247mm (Inner span centers)
Air Supply	Clean, dry air at 700kPa (Specimen loading only)
Control & Data Acquisition	See IMACS specifications

Ordering information

PV70440 XL – Four Point Bend Jig

PV70441 XL4PB – Loading shaft to suit UTM-130XL

PV70442 XL4PB – PVC beam (dummy specimen)

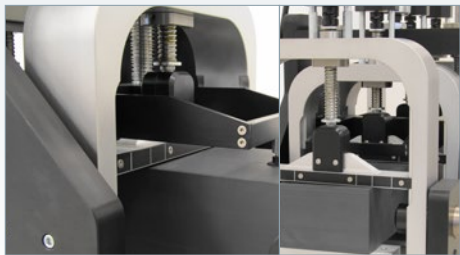
Special IPC Global UTM and Environmental Chamber systems are required to perform tests using the Extra Large Four Point Bend Jig.

Additional accessories may be required to create a working testing system. Please contact us for advice.

Testing Made Easy

Specimen rollers with pneumatic lift and lowering provide the user with easy test setup 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.

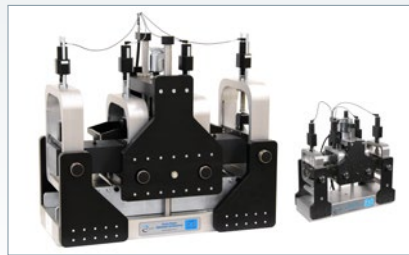


Extra Large Four Point Bend Jig close-up

Superior Performance

The Extra Large Four Point Bend Jig is designed to be used with IPC Global's Universal Testing Machines[†] and Integrated Multi-Axis Control System (IMACS), which offers leading-edge performance, unparalleled control and the ultimate in flexible data acquisition. The IMACS uses PID closed-loop control and a run time adaptive control algorithm that adjusts the command signal during the running of a test. The system can be operated in both stress and strain control modes.

[†]Special Extended IPC Global Environmental Chamber Required



Extra Large Four Point Bend Jig



Extra large four point bend jig inside UTM-130XL

▶ IPC Global Customer Care

At IPC Global we are proud of our products.

We are dedicated to supplying high quality, accurate, affordable, easy-to-use systems for Advanced Testing of asphalt, binders and other pavement materials. As a valued customer of IPC Global you will receive continuous, expert support and advice for your instrument. Furthermore, we offer full installation and training in the correct operation of your IPC Global equipment. For support from our expert Customer Care Team, contact your local IPC Global-Controls office/distributor or email ipcglobalsupport@controls-group.com.

Visit our website for more information www.controls-group.com/ipcglobal.



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