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 now offer unique UTM-130XL and UTM-30 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
- Controlled force and motorised specimen clamping
- Specimen rollers with pneumatic lift and lowering for easy loading of specimen
- Automated self aligning specimen yokes for easy specimen insertion

Dimensions and Weight

Size: 790(H) x 435(D) x 890(W) mm
Weight: 210kg
Load Capacity: Up to 25kN dynamic
Specimen Size: Min. 790 (L) x 100-160 (H) x up to 200 (W) mm
Yoke Alignment Tool for Specimens: 740 mm (outer span centres), 247 mm (inner span centres),
Air Supply: Clean, dry air at 700kPa (Specimen loading only)
Control & Data Acquisition: See IMACS specifications

Special IPC Global Environmental Chambers and UTM Systems are required to perform tests using the Extra Large Four Point Bend Jig. Contact IPC Global for further information.
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.

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.

IPC Global’s purpose designed UTS software draws upon over 20 years of advanced materials testing experience and is known for its simplicity in use, clarity of results and analytical power. UTS allows for real time graphing of results, includes configurable real time transducer levels screen, customisable test templates to streamline the testing process and the ability to export all test data in binary files.

See IMACS & UTS Brochure for more details.

*Special Extended IPC Global Environmental Chamber Required

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.


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