



## ADVANCED PAVEMENTS TESTING SYSTEMS

**BBR**

Bending Beam Rheometer



# Determination of flexural creep stiffness

**Standards** ASTM D6648 | AASHTO T313 | EN14771

## Main Features

- Durable, corrosion-resistant construction
- Computerized control, data acquisition and analysis
- PID temperature controller with digital display
- Two independent platinum RTDs for precise temperature control
- Mechanically-refrigerated cooling bath with environmentally-safe non-CFC coolant
- Integral LVDT and temperature compensated load cell for accurate test results
- Includes complete calibration kit with carrying case
- Includes ASTM/AASHTO-compliant specimen moulds
- PC and software included

**81-PV5902**

**Bending Beam Rheometer (BBR)**

The BBR System consists of a fluid bath base unit, a three-point bending test apparatus which is easily removed from the base unit for specimen loading and unloading, an external cooling unit with temperature controller, and a calibration hardware kit with carrying case.

The system is supplied complete with PC and testing software.

**Ordering information**

**81-PV5902**

Bending Beam Rheometer (BBR).

230 V, 50-60 Hz, 1 ph.

**81-PV5904**

As above but 115V, 50-60 Hz, 1 ph.

**Spares**

**81-PV059/1**

Extra aluminium beam mould.

**81-PV059/2**

Set of 36 plastic strips for BBR specimen moulds.

**Technical specifications**

- Load frame: integral stainless steel frictionless construction
- Loading shaft: in-line stainless steel with blunt point
- Load cell: 500 g (temperature-compensated)
- Mechanical overload protection: standard
- Test cycle times: cycle times for pre-load, recovery and test load are completely operator-adjustable
- Test weights: calibrated and traceable
- Sample supports: 25 mm (0.98 in.) diameter stainless steel spaced 101.6 mm (4.00 in.) apart
- LVDT displacement transducers: 6.35 mm (0.25 in.) calibrated range to provide 2 µm resolution throughout testing and verification range
- Cooling unit: included (non-CFC refrigerant)
- Recommended cooling bath fluid: non-flammable ethylene glycol mixture
- Operating temperature: ambient to -40 °C (-40°F)
- Temperature measurement: Platinum RTD
- Compressed air requirement: 0.34 MPa (50 psi) clean, dry air supply required

**Test load**

- Variable test range from 0 to 200 g standard
- System maintains required test load to within ±0.5 g throughout the test cycle

**Testing software**

- Display of load, displacement and bath temperature provides ease of setup and operation
- Real-time displacement, loading, and temperature graphs are displayed during the test cycle and can be re-scaled as needed for easy viewing

Shipping weight: 115 kg approx.



Sample supports (moulds) and Calibration kit

## ▶ 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](mailto:ipcglobalsupport@controls-group.com).**

Visit our website for more information **[www.controls-group.com/ipcglobal](http://www.controls-group.com/ipcglobal)**.



## ▶ Contact Us

[www.controls-group.com/ipcglobal](http://www.controls-group.com/ipcglobal)

### IPC Global

T +613 9800 2200 F +613 9800 2813 E [ipcglobalsales@controls-group.com](mailto:ipcglobalsales@controls-group.com) [www.controls-group.com/ipcglobal](http://www.controls-group.com/ipcglobal)

#### Controls Group

T +39 02 92184 1

F +39 02 92103 333

E [sales@controls-group.com](mailto:sales@controls-group.com)

[www.controls-group.com](http://www.controls-group.com)

#### France

[www.controls.fr](http://www.controls.fr)

#### Italy

[www.controlsitalia.it](http://www.controlsitalia.it)

#### Iraq

[www.controlsmiddleeast.com](http://www.controlsmiddleeast.com)

#### Mexico

[www.controls.com.mx](http://www.controls.com.mx)

#### Poland

[www.controls.pl](http://www.controls.pl)

#### UK

[www.controlstesting.co.uk](http://www.controlstesting.co.uk)

#### Spain

[www.controls.es](http://www.controls.es)

#### USA

[www.controls-usa.com](http://www.controls-usa.com)