



Bending Beam Rheometer 50Hz, inc Computer and analysis software

Code: [46-8000/01](#)

Product Group: [N/A](#)

Bending Beam has been designed to perform flexural tests on asphalt binder and similar specimens per AASHTO T 313, AASHTO TP 87, ASTM D6648, and BS EN 14771 specifications as part of the PG grading system according to Superpave. It is the first of its kind to offer an internal computer system incorporating touch screen technology.

Each Bending Beam consists of a fluid bath base with a built-in touchscreen computer, load frame, external refrigeration unit, and a calibration kit with carrying case. Used in part to determine a sample's critical cracking temperature and low temperature PG grade, the Beam's -40°C to 25°C temperature range is efficiently calculated by a platinum RTD measuring device.

Designed to be user friendly and efficient, the Bending Beam allows operators to enter a multitude of customisable test parameters. A built-in Ethernet connection allows users to monitor their equipment remotely using a tablet, smartphone, or other mobile device.

Standards:

AASHTO T313, AASHTO TP87, ASTM D 6648, BS EN 14771

Specification

Power requirements	230 V 50-60Hz, 1ph
Operating Temperature	Ambient to -40°C
Test Load	Variable test range from 0 to 4,000 mN standard system. Maintains required test load 5mN throughout test cycle
Test Cycle Times	Cycle times for pre-load, recovery, and test load are completely operator adjustable
Load Cell	500g
LVDT Displacement Transducer	6.35mm (0.25in) calibrated range to provide 2µm resolution throughout testing and v range
Recommended Cooling Bath Fluid	Non-flammable Ethylene Glycol Mixture
Temp measurement	Platinum RTD
Compressed air requirements	60 PSI inlet pressure (414 kpa) @ Class 3 quality max particle of 5µm