

Bending Beam Rheometer 3 (BBR3)



The ATS Bending Beam Rheometer 3 (BBR3) performs flexural tests on asphalt/bitumen 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. An ATS original, the BBR3 is the first of its kind to offer a state of the art internal computer system, incorporating intuitive new software and touchscreen technology.

Features

- 12 inch, industrial strength touchscreen display
- Programmable test parameters include deflection plot, load plot, bath temperature, stirrer speed, specimen size, testing times, load, and testing company
- Changeable specimen supports easily transition for crack sealant testing
- Remote communication allows users to monitor and control their BBR3 offsite
- Compact external chiller with reduced noise during operation
- Customizable report settings - add a company logo, notes, and accreditations
- Seven pre-programmed language options include English, Spanish, German, French, Chinese, Italian, and Arabic



Product Specifications

Load Frame Construction	Integral stainless steel, frictionless construction
Loading Shaft Point	In-line stainless steel with blunt point
Test Load	Variable test range from 0 to 4,000 mN standard. System. Maintains required test load within +/- 5mN throughout test cycle.
Test Cycle Times	Cycle times for pre-load, recovery, and test load are completely operator-adjustable.
Load Cell	500g (temperature-compensated)
Mechanical Overload Protection	Standard
Operating Temperature	Ambient to -40°F (-40°C)
Temperature Measurement	Platinum RTD
Power Requirements	120 VAC, 60Hz or 230 VAC, 50/60 Hz 2 AMP power rating
Air Pressure	60 PSI inlet pressure (414 kpa) @ Class 3 Quality max particle of 5um
Test Weights	Calibrated and traceable to NIST
BBR3 Weight	Base = 83 lbs , Load frame = 15 lbs
Chiller Weight	50 lbs (23 Kg)
BBR3 Dimensions	H=23.5" x W=24" x D=26.5"
Rating	IP20 Enclosure rating
Sample Supports	3mm (.118") radius stainless steel spaced 4.00in (101.6mm) apart
LVDT Displacement Transducer	6.35mm (0.25in) calibrated range to provide 2µm resolution throughout testing and verification range.
Data Display	Large on-screen 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-plotted and re-scaled as needed for easy viewing.
Tank Liquid Volume	1.5 Gallons (5.5 Liters)