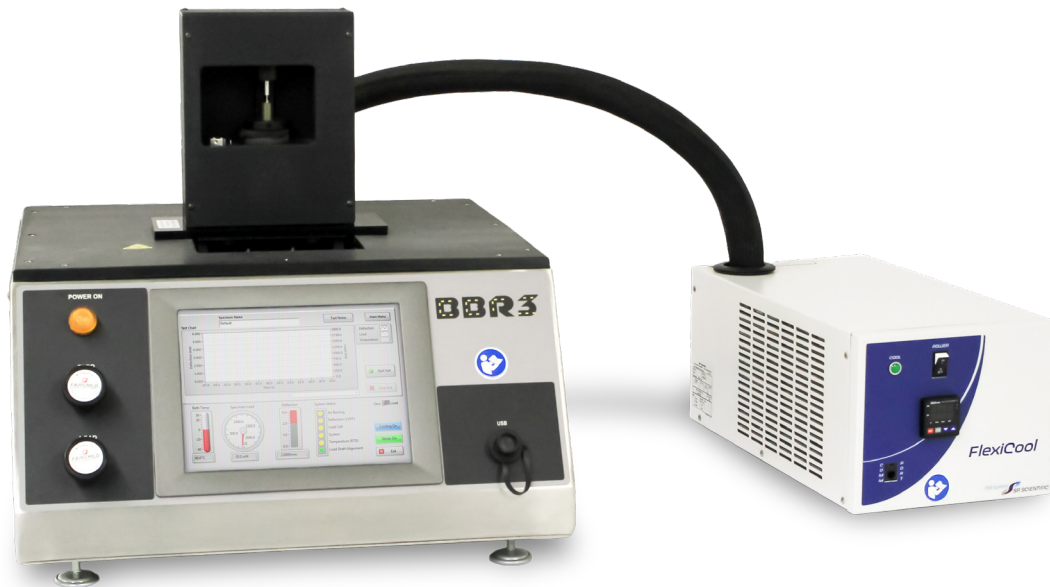


Bending Beam Rheometer 3 (BBR3)



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 monitoring capabilities
- 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 4,500 mN (459 g) standard. System maintains required test load within +/- 5 mN (0.5 g) throughout test cycle. |
| Test Cycle Times | Cycle times for pre-load, recovery, and test load are completely operator-adjustable. |
| Load Cell | 500 g (temperature-compensated) |
| Mechanical Overload Protection | Standard |
| Testing Temperature Range | 0 to -40°C (32 to -40°F) |
| Temperature Measurement | Platinum RTD |
| Power Requirements | 115 VAC, 1 ph, 50/60 Hz, 2 A or 230 VAC, 1 ph, 50/60 Hz, 2 A |
| Air Pressure | 60 psi inlet pressure (414 kPa) @ Class 3 Quality max particle of 5 µm |
| Test Weights | Calibrated and traceable to NIST |
| Rating | IP20 Enclosure rating |
| Sample Supports | 3 mm (0.118 in) radius stainless steel spaced 101.6 mm (4.00 in) apart |
| LVDT Displacement Transducer | 0.25 in (6.35 mm) calibrated range to provide 2 µm 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) |
| Weight | 150 lb |
| Dimensions | BBR: 24 in W x 26.5 in D x 23.5 in H (with load frame) Chiller: 10.5 in W x 20 in D x 9.25 in H |