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Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Киров (8332)68-02-04
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Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
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Новокузнецк (3843)20-46-81
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Ульяновск (8422)24-23-59
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Хабаровск (4212)92-98-04
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Реометры CANNON

Техническое описание

Black Pearl Controlled Rate Rotational Rheometer

For Rheological Characterization from -10°C to 100°C

The BLACK PEARL controlled shear rate rotational rheometer is a high performance instrument capable of both steady shear and yield stress testing in a rugged yet compact footprint. Designed for performing both routine QC tests and complex R&D evaluations, the BLACK PEARL is ideal for investigating the mixing, stirring and process flow characteristics of fluid systems.

Common Applications

- Viscosity Measurements
- Temperature Ramps
- Yield Stress Measurements
- Thixotropic Recovery Tests
- Sticky Point Determination

Key Industries

- Oil
- Paint, Coating and Ink
- Pharmaceutical and Cosmetic
- Lubricant
- Food



Angular Velocity	0.01 to 200 rad/s
Torque Range	0.005 to 20 mNm
Temperature Range	-10°C to 100°C (below 0°C requires liquid cooling)
User Selectable Shear Rates	20000 discrete steps
Measuring Systems	Parallel Plate, Cone and Plate, and Concentric Cylinders
Dimensions	18 × 52 × 34 cm
Weight	5 kg

Viscosity Ranges

Measuring System	Specific Viscosity Range	
	Minimum	Maximum
Parallel Plate	~ 100 cP (30 mm diameter plates)	~ 10,000,000 cP (≤ 15 mm diameter plates)
Cone and Plate	~ 100 cP (30 mm diameter plates)	~ 10,000,000 cP (≤ 15 mm diameter plates)
Cup and Bob	1 cP (narrow gap ≥ 0.5 mm gap)	~ 30,000 cP
Vane Tool	~ 5 cP	~ 100,000 cP

TE-BBR Pro Thermoelectric Bending Beam Rheometer

For Asphalt Binder Research, Mix Design, Forensic Studies and Repeated Stress and Creep Recovery

The TE-BBR Pro is the only programmable, bending beam rheometer that allows high loads, up to 44 N, to be applied under truly controlled stress rates for asphalt binder research, mix design, forensic studies and repeated stress and creep recovery testing. Bath temperature is thermoelectrically controlled to -40°C . NOTE: This instrument is not designed to meet the low end force requirement (0.15 mN) of ASTM D6648 and AASHTO T313 and does not control strain.

Common Applications

- Asphalt binder research
- Asphalt mix design
- Asphalt forensic studies
- Repeated stress and creep recovery testing



Dimensions (W × D × H)	Unit: 61 cm × 54 cm × 69 cm (24 in × 21.3 in × 27.2 in)* Air/Water Heat Exchanger: 42 cm × 54 cm × 47 cm (16.5 in × 21.3 in × 18.5 in) * add 15 cm (6 in) to rear dimensions for connection and airflow allowance
Weight	Unit: 61.2 kg (135 lb) Air/Water Heat Exchanger: 52.6 kg (116 lb)
Shipping dimensions (W × D × H)	Control & Load Units: 101.6 cm × 81.3 cm × 121.9 cm (40 in × 32 in × 48 in) Air/Water Heat Exchanger: 61.0 cm × 53.3 cm × 66.0 cm (24 in × 21 in × 26 in)
Shipping weight (with all items)	138.8 kg (306 lb)
Sample capacity	1
Sample supports	Specimen supports strips 3 mm ± 0.30 mm in top radius
Bath volume	5 L (1.33 gal)
Temperature range	Ambient to -40°C ($\pm 0.03^{\circ}\text{C}$ stability; $\pm 0.01^{\circ}\text{C}$ resolution)
Sample dimensions	Thickness: 6.35 mm to 12.7 mm (0.25 in to .5 in) Length: Adjustable to 100 mm (3.9 in), 120 mm (4.7 in), 140 mm (5.5 in) or 160 mm (6.3 in)
Operating conditions	15°C to 30°C , 10% to 75% relative humidity (non-condensing), Installation Category II, Pollution Degree 2
Electrical specifications	120 VAC, 50/60 Hz; 240 VAC, 50/60 Hz; 1800 watts power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 Vdc, 60 sec.); ROHS
Data output	RS-232

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