

Intelligent Touch-screen Rotary Viscometer (Professional)

BGD 164&BGD 165 Professional Rotary Viscometers are developed by Biuged based on the BGD 162 model. They feature stepless speed adjustment, a wider selection of rotor types, an expanded measurement range, and the following characteristics:

- ◆ Compliance with Standards: Conforms to ISO 1652, ISO 2555, ISO 3219, ASTM D2196, ASTM D2983, and others.
- ◆ 7-inch HD Touchscreen: Simple and convenient operation, directly displaying viscosity, rotational speed, torque, the maximum measurable viscosity value for the rotor at the current speed, and other information.
- ◆ High-resolution Stepper Motor Drive: Enables stepless speed adjustment with accurate and stable rotation, low noise operation, and unaffected measurement accuracy by AC voltage frequency variations.
- ◆ Built-in High-precision Electronic Spirit Level: Direct on-screen display of the instrument's level status, allowing operators to quickly adjust leveling.
- ◆ Magnetic Rotor Mounting System: Reduces damage to the spindle during rotor changes, enhancing spindle durability.
- ◆ Built-in RTD Temperature Probe
- ◆ New Durable Spindle Design
- ◆ Switching Power Adapter: Wide input voltage range with strong anti-interference capabilities.
- ◆ Real-time Sampling Technology: Allows observation of viscosity changes in real-time even at low speeds, eliminating waiting time.
- ◆ Gelation Time Measurement via Timer Mode: Real-time torque detection enables sensitive measurement even at very low rotational speeds.
- ◆ Multiple Viscosity Unit Conversion: Automatic conversion between dynamic viscosity and kinematic viscosity.
- ◆ Factory Calibration & User Recalibration: Linearly calibrated by computer before shipment, with the capability for users to perform independent calibration.



Ordering Information Parameters	BGD 164/L	BGD 164/M	BGD 164/H	BGD 165/L	BGD 165/M	BGD 165/H
Measurement Range (mPa.s)	1-6M	100-40M	800-320M	1-6M	100-40M	800-320M
R.P.M (per min)	0.1-100			0.1-200		
Rotors	4	6	6	4	6	6
Repeatability	± 1.0% (of the full range)					
Measurement Accuracy	± 0.5% (of the full range)					
Power Supply	Power Adapter (Input: 110/220 V; 50 /60 Hz; Output: 12V; 2A)					
Optional Accessories	BGD 162/Z-004---UL Test Assembly (for BGD 164/L & 165/L) BGD 168/Z-010---UL Test Assembly for Thermostat (for BGD 164/L & 165/L) BGD 168/Z-003---Precise Thermostat for Viscosity Testing BGD 168/Z-011---Small Sample Test Assembly for Thermostat (matches Thermostat) BGD 168/Z-012---Small Sample Test Assembly					

(M=1million)