



## LABORATORY HIGH SPEED CENTRIFUGE BET1G1

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## HIGH SPEED CENTRIFUGE



- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a maintenance-free high-torque DC brushless motor for stable running.
- A 7" wide-angle LCD touch screen is for digital input and simple to operate. It can display set and run parameters in real time. It comes with an atmosphere light with seven colors available for enhancing the user experience. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that shows a sense of safety while being visually appealing, and allowing a high recognition rate.
- They feature multiple audio/visual early warning protection functions for overspeed, over temperature, imbalance, wrong operation, overcurrent, overvoltage, and anti-pinch. The fluorosilicone rubber sealing ring, resistant to hydrogen, oil

## SPECIFICATIONS

| Model                    | BET1G1                                                                          |
|--------------------------|---------------------------------------------------------------------------------|
| Max capacity             |                                                                                 |
| Max speed                | 16,500r/min                                                                     |
| Max RCF                  | 22,500xg                                                                        |
| Speed accuracy           | ±20r/min (customizable, multiples of 10)                                        |
| Control and drive system | Microcomputer control, maintenance-free large-torque DC brushless motor         |
| Display mode             | 7" wide-angle LCD touch screen                                                  |
| Operation mode           | Touch control (local control optional)                                          |
| Gears up/down            | 10 gears                                                                        |
| Timer range              | 1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation |
| Total power              | 0.38kW                                                                          |
| Noise                    | ≤65dB(A)                                                                        |
| Power supply             | AC220V50Hz                                                                      |
| Weight                   | 27.5kg                                                                          |
| Dimensions (LxWxH)       | 360mmx460mmx335mm                                                               |
| Alt Name                 | High Speed Centrifuge                                                           |

## ACCESSORIES FOR PURCHASE

| No | Name                          | Description                                     | og_price |
|----|-------------------------------|-------------------------------------------------|----------|
| 1  | Fixed-angle Rotor<br>12x1.5mL | Max RPM:<br>16,500r/min<br>Max RCF:<br>19856xg  | 171.88   |
| 2  | Fixed-angle Rotor<br>12x1.5mL | Max RPM:<br>18,500r/min<br>Max RCF:<br>24642xg  | 171.88   |
| 3  | Fixed-angle Rotor<br>12x1.5mL | Max RPM:<br>20,000r/min<br>Max RCF:<br>28,800xg | 171.88   |



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2



3

| No | Name | Description |
|----|------|-------------|
|----|------|-------------|

|    |                                                     |                                           |
|----|-----------------------------------------------------|-------------------------------------------|
| 1  | Fixed-angle Rotor<br>24x1.5mL                       | Max RPM: 15,000r/min<br>Max RCF: 22,500xg |
| 2  | Fixed-angle Rotor<br>48x1.5mL                       | Max RPM: 14,000r/min<br>Max RCF: 21756xg  |
| 3  | Fixed-angle Rotor<br>12x5mL                         | Max RPM: 14,000r/min<br>Max RCF: 15092xg  |
| 4  | Fixed-angle Rotor<br>12x10mL                        | Max RPM: 12,000r/min<br>Max RCF: 14544xg  |
| 5  | Fixed-angle Rotor<br>8x15ml (conical-bottom)        | Max RPM: 13,000r/min<br>Max RCF: 18590xg  |
| 6  | Fixed-angle Rotor<br>8x15ml (round-bottom)          | Max RPM: 13,000r/min<br>Max RCF: 18083xg  |
| 7  | Fixed-angle Rotor<br>6x50ml (conical-bottom)        | Max RPM: 12,000r/min<br>Max RCF: 14641xg  |
| 8  | Fixed-angle Rotor<br>6x50ml (through-holes)         | Max RPM: 6,000r/min<br>Max RCF: 3672xg    |
| 9  | Fixed-angle Rotor<br>4x100ml                        | Max RPM: 8,000r/min<br>Max RCF: 7,296xg   |
| 10 | Fixed-angle Rotor<br>4x8x0.2mL (PCR 8-tube strings) | Max RPM: 15,000r/min<br>Max RCF: 17550xg  |
| 11 | Microplate Rotor<br>2x2x48 holes                    | Max RPM: 3,000r/min<br>Max RCF: 1125xg    |
| 12 | Swing-out rotor<br>4x100ml                          | Max RPM: 4,000r/min<br>Max RCF: 2464xg    |



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## FEATURES

- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a maintenance-free high-torque DC brushless motor for stable running.
- A 7" wide-angle LCD touch screen is for digital input and simple to operate. It can display set and run parameters in real time. It comes with an atmosphere light with seven colors available for enhancing the user experience. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that shows a sense of safety while being visually appealing, and allowing a high recognition rate.
- They feature multiple audio/visual early warning protection functions for overspeed, over temperature, imbalance, wrong operation, overcurrent, overvoltage, and anti-pinch. The fluorosilicone rubber sealing ring, resistant to hydrogen, oil, acids and alkalis, is capable of long-time use at the temperature from -55°C to +200°C. The aesthetically pleasing and hermetically thermoformed inner panel of the cabin door can dually prevent aerosol spillage. The 304 stainless steel seamless corrosion-resistant centrifuge chamber and steel cylinder sleeve are designed with a sound-absorbing air duct.
- The door cover has an electronic lock allowing for one-button opening. The gas spring hydraulic rod makes it easy and convenient for the door cover to close. In case of shutdown or power outage, the door cover can be manually opened. The patented anti-pinch function can prevent injuring fingers by hasty operations.
- The Bluetooth/Type C interfaces are optional for short-range control via mini-programs, facilitating system upgrades and experimental data downloads.
- There are 10 gears for acceleration/deceleration and three-stage damping for shock absorption, ensuring stable sample operation without resuspension. Parameters may be modified during operation without the need to stop. They can store 99 groups of programs and be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.

- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 0.2mL to 100mL centrifuge tubes or reagent bottles; able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- These products are supported by certifications including ISO 9001 (2015); ISO 13485 (2016); ISO 14001 (2015); ISO 45001 (2018); and CFDA registration and production qualification.

## APPLICATIONS

These large-capacity centrifuges (50ml) can centrifugate samples at a high speed ( $\geq 16500$ r/min). Paired with over 10 types of rotors and a variety of adapters, these versatile devices can meet the diversified needs of customers. Among the rotors, the 6x50ml fixed-angle rotors have been widely used in various fields.



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