

## Low speed benchtop centrifuge with 5000rpm and 6 by 50ml

Low-speed benchtop centrifuge is a small, high-efficiency equipment designed for the laboratory, suitable for the separation and extraction of a small number of samples, widely used in biology, chemistry, medicine and environmental science and other fields.

### Low Speed Benchtop Centrifuge

#### Features

1. Efficient speed and capacity: speed up to 5000rpm, suitable for common centrifugation needs. The capacity is six 50ml centrifuge tubes, which can handle multiple samples at the same time and improve the experimental efficiency.
2. Intelligent microcomputer control system: the use of microcomputer control system to ensure the precise regulation of the equipment. High-definition LCD display real-time synchronous display of setup parameters and operating parameters, easy to operate and monitor.
3. Optimized structure and noise reduction design: the body adopts three layers of special anti-collision protection structure, which can effectively prevent damage caused by external impact. Special noise reduction process design, reduce the noise during operation, provide a quieter experimental environment.



4. Durable and high-quality materials: the body adopts all-steel structure, the internal cavity is made of stainless steel, and environmental protection anti-corrosion coating treatment, with good corrosion resistance and acid and alkali resistance. Food-grade silicone one-piece sealing ring, high temperature resistance, anti-aging, corrosion resistance, and will not be deformed or cracked due to prolonged use.
5. High-capacity storage and program setting: with large-capacity storage, can save 40 program groups, easy to switch to meet different experimental needs. Automatically calculates and synchronously displays the rotational speed and centrifugal force value, eliminating the trouble of manual calculation.
6. Linear drive and acceleration/deceleration control: equipped with linear drive system, supporting 10 acceleration/deceleration adjustments, which can be flexibly selected according to the sample characteristics to ensure the stability of the separation effect.
7. Multiple safety protection functions: Setting multiple protection functions such as overspeed, unbalance, door cover protection, overcurrent and rotor failure, effectively avoiding equipment failure and personnel injury.
8. Ultra-high safety design: the use of electronic traction structure design, low noise and high safety, to ensure the stability and safety of the equipment in the operation process.

## **Working Principle**

Low-speed benchtop centrifuge rotates the rotor driven by the electric motor to generate centrifugal force, so that different components in the liquid sample are separated according to their density differences. The sample is subjected to centrifugal force in the high-speed rotation, and the heavier substances will settle to the bottom of the tube, while the lighter substances stay in the upper layer. During centrifugation, the temperature, rotational speed and acceleration/deceleration control systems of the equipment are precisely adjusted to ensure the separation effect and the stability of the sample.

## **Application Areas**

1. Biomedical research: in the field of molecular biology, cell biology and other fields, it is used for cell separation, DNA/RNA extraction, protein precipitation and other experiments, and it is suitable for processing small amount of samples.
2. Chemical analysis: widely used in the separation of components in solution after chemical reaction, for example, separation of reaction products in chemical synthesis.
3. Pharmaceutical industry: in drug research and production, for the extraction, purification or separation of drug components, such as protein extraction, separation of components in drug formulations.
4. Food and environmental testing: can be used in the food industry for the extraction of ingredients, such as oil and grease separation. can also be used for environmental sample analysis, such as water quality analysis of particulate separation.

5. Education and scientific research: college laboratories and research institutions commonly used in basic science research, teaching and experimenting in the field of biology and chemistry.

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<b>Model</b>	<b>CL10</b>
Maximum speed	5000rpm
Maximum RCF	3013xg
maximum capacity	6x50ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 minutes
Noise	≤62dB
Power supply	230Vac, 50Hz, 10A
Power	150W
Overall dimensions	423x320x265mm

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<b>Model</b>	<b>CL10</b>
Net weight	19kg