

### oil test centrifuge with 5000rpm and 24 units of 10ml

Oil test centrifuge is a centrifugal separation equipment with good performance and easy operation, which is widely used in many fields such as oil extraction, scientific research, environmental monitoring and so on.

#### Oil Test Centrifuge

The oil test centrifuge is specifically designed for accurate separation of water and sediment in crude oil, manufactured in accordance with GB/T6533-86 standard. It is ideal for moisture determination in crude oil and provides efficient, stable, and reliable separation for oil extraction, testing, and research applications.

#### Features

1. High-precision display system: real-time digital tube display of rotor number, rotational speed, centrifugal time, temperature, centrifugal force, acceleration/deceleration rate, and fault information for easy monitoring.
2. Ring heater design: rapid and uniform heating with temperature control and constant temperature function to meet strict petroleum industry requirements and ensure test accuracy.



3. Large torque frequency conversion motor: smooth and fast lifting speed, long service life, maintenance-free, and low noise operation for improved laboratory comfort.
4. High-strength glass centrifugal tube: special technology for durability and anti-cracking performance, widely used in major oilfields for reliable protection during high-frequency operation.
5. Fault self-diagnosis system: automatic detection and alarm for overspeed, over-temperature, imbalance, unlocked door/cover, with timely display to enhance safety and ensure stable experiments.
6. Convenient operation: microcomputer control system for easy setup of rotor, speed, force, temperature, time, and change rates, with real-time adjustment of parameters to flexibly meet experimental needs.

### **Working Principle**

1. Based on centrifugal separation physics, the centrifuge uses high-speed rotation to separate water and sediment in crude oil. Samples are quickly and evenly stratified under controlled heating and temperature for accurate results.
2. Centrifugal force separates water and sediment by density difference; lighter components are discharged, heavier ones settle at the bottom of the tube.
3. Uniform heating via ring heater and continuous temperature control ensure stable separation and prevent result instability from temperature fluctuation.
4. Self-diagnosis and protection system monitors equipment status and provides automatic shutdown for imbalance or over-temperature to guarantee experiment safety.

## Application Areas

1. Oil extraction and refining: used for crude oil moisture determination, quality monitoring, oil field water analysis, and more in the petroleum industry.
2. Scientific research, analysis, and testing: supports oil-water separation research, water content, and sediment characterization in various oil products.
3. Environmental monitoring: tests crude oil pollution in water sources for pollution assessment and remediation planning.
4. Oil quality control: detects water and sediment content for oil classification, pricing, and sales with accurate data support.

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<b>Model</b>	<b>CS150</b>
Maximum speed	5000rpm
Maximum RCF	3850xg
maximum capacity	24x10ml
Rotation Speed Accuracy	±10rpm

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<b>Model</b>	<b>CS150</b>
Timer	1 to 99 minutes
Centrifugal chamber diameter	500mm
Noise	≤65dB
Power supply	230Vac, 50Hz, 15A
Power	850W
Overall dimensions	495x625x420mm
Net weight	70kg