

Centrifuge

Better Science Better life

MELING | MEGSTEMAN
BIOMEDICAL | scientific





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Low-speed

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ABOUT US

Zhongke Meiling was founded in 2002, over the past 23 years, Zhongke Meiling has always been adhering to the technology as the basis, the product as the carrier, the market as the orientation, the user as the center, long-term adhere to independent innovation, focusing on the field of life science customized system solutions. We are committed to providing users with high stability of biological cell cryogenic storage equipment, liquid nitrogen biological containers, clean workbench, biosafety cabinets, high-speed refrigerated centrifuges and other products.



Product Directory

Product	Model	Max. speed (rpm)	Max. capacity (mL)	Max. centrifugal force (xg)
Multipurpose Refrigerated Centrifuge	CT-Q175R	17500	4*750	29102
High-speed Refrigerated Centrifuge	CT-G185R	18500	6*50	32531
Micro-refrigerated High-speed Centrifuge	CT-G165R	16500	12*5	25877
Large Capacity High-speed Refrigerated Centrifuge	CL-G210R	21000	6*1000	49796
Low-speed Refrigerated Centrifuge	CL-D60R	6000	6*1000	6600
Low-speed Centrifuge	CT-D60	6000	6*100	5103

Multipurpose refrigerated centrifuge



CT-Q175R

Features



High and low speed

Compatible with the requirements of different centrifugal high and low speed, the maximum speed can reach 17500rpm, and the speed accuracy can be maintained ± 10 rpm. At the same time, it ensures that the temperature can be reduced from normal temperature to 4°C in the fastest 4 minutes under cooling state, and the temperature control accuracy is maintained at $\pm 1^{\circ}\text{C}$, with precise temperature and speed control, truly achieving multiple uses of one machine.

Large capacity

Fixed-angle rotor and Swing-bucket rotor can be selected, and the capacity is compatible with 0.2ml, 0.5ml, 1.5ml, 5ml, 10ml, 15ml, 50ml, 100ml, 250ml, 500ml, 750ml, various blood collection tubes and 96-well enzyme plate.

Maximum capacity of angle rotor 6*250ml;

Maximum capacity of swing-bucket rotor 4*750ml.



Multifunction

It has the functions of instantaneous centrifugation, step centrifugation and one-button precooling to meet the needs of different centrifugal experiments.

Program collection customization, you can freely collect 1000 group parameter programs as needed and use them with one click.

Real-time display of speed,centrifugal force,temperature,rotor type,time,acceleration and deceleration gear and operation mode,ect.

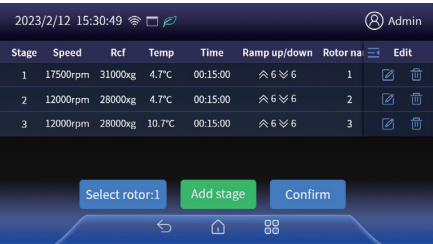
LCD display



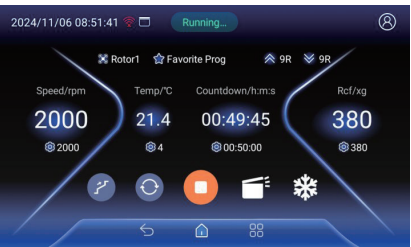
Rotor information



Speed setting



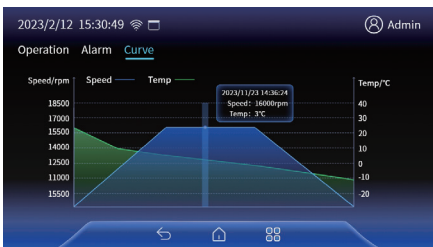
Continuous centrifugation



Short spin centrifugation completed



Running



Experimental curve record

Technical Parameters

Product model	Max. speed	Max. RCF	Max. capacity	Time setting range	Noise	Speed accuracy	Supply voltage	Power	Weight	Dimensions (W*D*H)
CT-Q175R	17500rpm	29102xg	4*750ml	1s-99h59min59s	≤58dB	±10rpm	220-230V,50/60Hz	1200W	121kg	746*746*405mm

Rotor Parameters

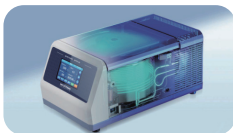
Rotor class		Rotational	Rcf	Adapter
Fixed-angle rotor	24*1.5ml	17500rpm	29102xg	0.2ml、0.5ml
	48*1.5ml	14000rpm	22131xg	0.2ml、0.5ml
	6*50ml	12000rpm	20156xg	5ml、10ml、15ml (Consical bottom/round bottom)
	4*100ml	10000rpm	11000xg	5ml、10ml、15ml、50ml (pointed bottom/round bottom)
	6*250ml	7000rpm	7554xg	5ml、10ml、15ml、50ml (pointed bottom/round bottom)、100ml
Swing-bucket rotor	4*500ml	4000rpm	3488xg	1.5ml、3/5ml (blood vessel sampling)、10ml (round bottom)、15ml(tip bottom/round bottom)、50ml (tip bottom/round bottom)、100ml、250ml、96-well enzyme label plate
	4*750ml	4000rpm	3425xg	1.5ml、3/5ml (blood vessel sampling)、10ml (round bottom)、15ml (sharp bottom/round bottom)、50ml (sharp bottom/round bottom)、100ml、250ml、500ml、96-well enzyme label plate

High-speed Refrigerated Centrifuge



CT-G185R

Features



Rapid Cooling

Secop compressor, high-efficiency refrigeration system, rapidly cooling in 4 minutes
Precise PID temperature control, temperature accuracy $\pm 1^{\circ}\text{C}$
One-button pre-cooling, temperature adjustable from -20°C to 40°C



Auto Rotor Identification

Adaptation to various rotors like common and biosafety angle rotor, realizing multi-usage. The maximum capacity of the rotor: 6*50ml, separating more samples with high efficiency
Auto Rotor identification, matching speed, enhancing operation safety



Swift Centrifugation

The maximum centrifugal force: 32531xg, the maximum speed: 18500rpm and the speed accuracy: ± 1 rpm



Safety Lock

Intelligent double door lock with self-priming technology, ensuring operation safety and sample safety



Secure And Stable

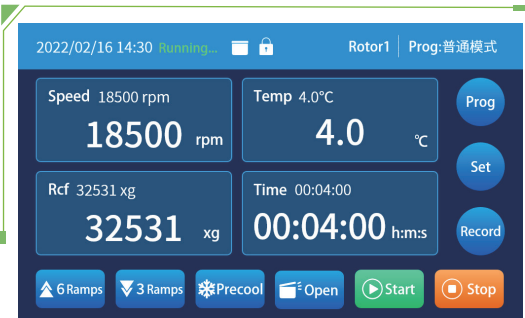
7 alarm functions and protection linkage device, enhancing safety for man and machine
Multi-stage damping design, reducing the amplitude to 0.003mm
Resuspension-proof design, safe guarding sensitive samples
Die-casting aluminum alloy base, making the machine running safely and stably



Automatic Protection

Automatically stopping to alarm, ensuring experiment safety once the rotor unbalanced.

LCD display



7 Inch LCD Display



Data Query And Monitoring

Technical Parameters

Product model	Max. speed	Max.RCF	Max. capacity	Temperature control range	Noise	Speed accuracy	Supply voltage	Power	Weight	Dimensions (W*D*H)
CT-G185R	18500rpm	32531xg	6*50ml	-20~40°C	57dB (A)	± 1 rpm	220-230V 50/60Hz	1100W	57kg	380*645*310mm

Rotor Parameters



Angle Rotor

Specification	24*1.5ml	48*1.5ml	12*5ml	12*10ml	12*15ml	6*50ml/10ml
RPM	18500	13000	15000	12500	11000	9000
Centrifugal Force(xg)	32531	18331	15998	16333	15692	11142



PCR Tube

Specification	6*8*0.2ml
RPM	12000
Centrifugal Force(xg)	17390

High-speed Refrigerated Centrifuge

Benchtop Micro-refrigerated High-speed Centrifuge

CT-G165R

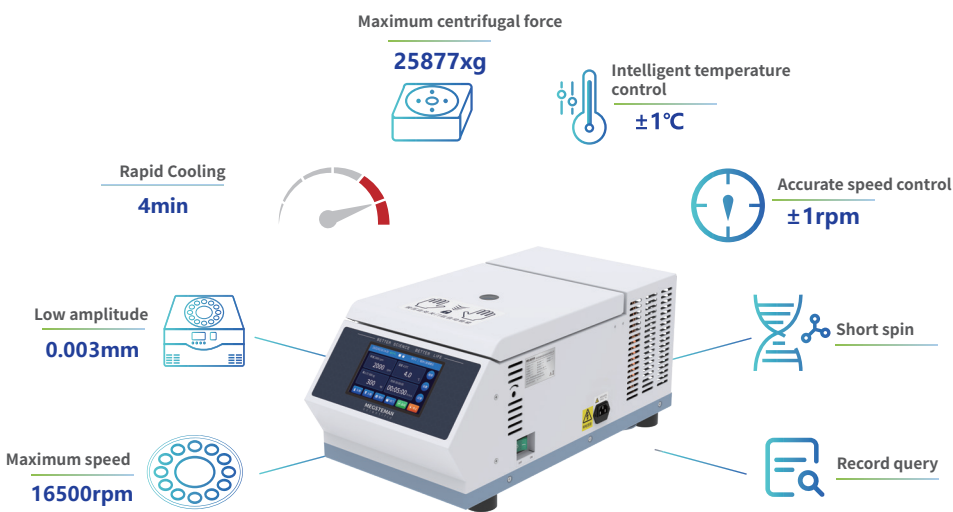
2/5ml microcentrifugation | 4min rapid cooling



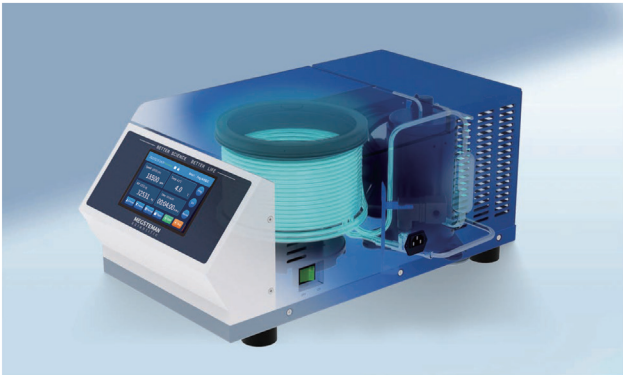
Scope of Application

Applicable across a range of fields including bioengineering, genetic engineering, agriculture and forestry, hospital medicine, biochemistry, disease control, and various scientific research laboratories. It is primarily utilized for the rapid separation and extraction of trace samples, playing a crucial role in the separation and purification experiments involving cells, sub-cellular components, biomacromolecules, DNA/RNA, plasmids, viruses, and more.

Product Advantages



Product Introduction



Rapid Cooling

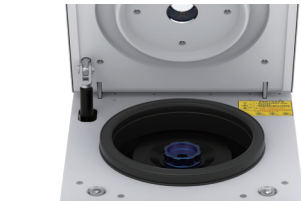
- Short pre-cooling time of only 4 minutes from room temperature to 4°C
- Using PID algorithm to accurately control temperature $\pm 1^{\circ}\text{C}$

Accurate Centrifugation

- Maximum centrifugal force 25877xg
- Maximum speed 16500rpm
- Speed accuracy $\pm 1\text{ rpm}$
- Low amplitude 0.003mm



Safety design



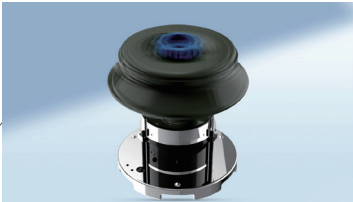
Safety lid lock

Electric control,manual or variable damping gas spring;
Engineered for safety, the motorized gas springs offer smooth and controlled opening and closing of the centrifuge chamber, providing an extra layer of protection to users.



Super low amplitude

The multi-level damping and shock-absorbing design makes the amplitude of the whole machine 0.003mm;
Soft brake function can prevent sample resuspension effectively



Balance monitoring

When the rotor is unbalanced, it automatically stops and protects the alarm, ensuring the safety of the experiment.



Alarm protection

Imbalance protection, lid protection, over-temperature, over-pressure, over-current, communication failure alarm, etc.

Technical Parameters

Product model	Max. speed	Max.RCF	Max. capacity	Setting time range	Noise	Speed accuracy	Power	Weight	Dimensions (W*D*H)
CT-G165R	16500rpm	25877xg	12*5ml	1s~99h59min59s	≤60dB(A)	± 1rpm	550W	46kg	310*595*280mm

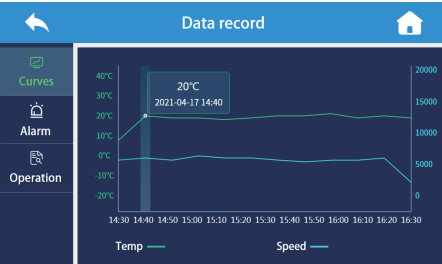
Rotor Parameters

Product model	Rotor type		Maximum speed	Maximum centrifugal force
Fixed-angle Rotor		24*1.5ml	16500rpm	25877xg
		12*5ml	15000rpm	15998xg

Intelligent control operating system



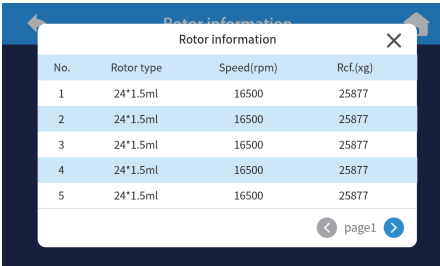
7-inch LCD display



Data query and monitoring



Parameter settings



Rotor identification



Short spin



Program customization

High-speed Refrigerated Centrifuge

Large Capacity High-speed Refrigerated Centrifuge

21000rpm / 1000ml Fixed-angle Rotor Centrifugation/ Rapid Cooling
CL-G210R



Scope of Application

Mainly used for separation and purification of biological macromolecules such as cells, proteins, nucleic acids and genetic materials such as DNA and RNA;Blood separation (such as separation of plasma and platelets), virus detection, and drug screening;
Applicable to: serological analysis, histology and histochemistry, cell culture, virology research, separation and purification of biological macromolecules, genetic research and other scientific research fields, as well as chemical, pharmaceutical, mineral processing, petroleum, coal, water treatment and other industrial fields.

Product Introduction



Excellent Performance

Maximum speed 21000rpm;
Maximum centrifugal force 49796xg;
Speed accuracy of ± 10 rpm;
The temperature can be reduced from room temperature to 4°C in 4 minutes at the fastest under refrigeration state;
Temperature control accuracy is maintained at $\pm 1^{\circ}\text{C}$, ensuring the centrifugal effect throughout the process.

Large Capacity

Compatible with 10ml, 50ml, 250ml, 500ml, 1000ml fixed-angle rotors;
Equipped with adapter, sample volume can be freely selected;
It covers all sample separation experiments under high-speed conditions.



Easy to Use

It has functions such as short spin. Continue centrifugation, and one-button precooling to meet the needs of different experiments. Program collection is customizable, users can collect 1000+ sets of parameter programs and recall them freely. The display of speed, centrifugal force, temperature, rotor type , acceleration and deceleration ramps/ time and operation mode shows in time.

Safety Design



Intuitive Interface

Program library

Program library is convenient for user to modify parameters and memorize collections.

Records query

The historical operation records and alarm records can be queried with one click, to ensure the traceability of the entire usage process.

E-Manual

Equipped with electronic instruction manual to assist operation grandly.

Balance monitoring

Electronic gyroscope automatically monitors balance and issues warning alerts.

Electronic level

Electronic level assists in installation and leveling, making installation easier and simpler.

Multi-level permissions

Administrators can grant access to guests or users.

Technical Parameters

Product model	Max. speed	Max. RCF	Max. capacity	Temperature control range	Noise	Speed accuracy
CL-G210R	21000rpm	49796xg	6*1000ml	-20°C~40°C	≤65dB	±10rpm
	Temperature accuracy	Setting time range		Power supply	Weight	Dimensions (W*D*H)
	±1°C	1s~99h59min59s		220V/50Hz	301.5kg	740*950*940mm

Technical Parameters

	Rotor type	Maximum speed	Maximum centrifugal force	Adapter
Fixed-angle rotor	16*10ml	21000rpm	47580xg	
	8*50ml	15000rpm	27720xg	5ml、10ml(round bottom)、15ml(Conical bottom/round bottom)、50ml(round bottom)
	6*250ml	12000rpm	27470xg	5ml、10ml(round bottom)、15ml(Conical bottom/round bottom) 50ml(Conical bottom/round bottom)、100ml
	6*500ml	9000rpm	14400xg	5ml、10ml(round bottom)、15ml(Conical bottom/round bottom) 50ml(Conical bottom/round bottom)、100ml、250ml
	6*1000ml	7000rpm	11500xg	5ml、10ml(round bottom)、15ml(Conical bottom/round bottom) 50ml(Conical bottom/round bottom)、100ml、250ml、500ml

Low-speed Refrigerated Centrifuge

Low-speed

Refrigerated Centrifuge | CL-D60R | ...

Intelligent Touch Screen/ Multiple Program Customization/
Gyro Intelligent Unbalance Protection



Scope of Application

Used for blood separation, protein precipitation, cell separation and collection, etc.
Applicable to: blood stations, pharmaceutical factories, biochemistry, biological products and other production and research units.



Product Introduction



Stable Operation

The driving system directly drives the rotor, with balanced operation, low vibration, and three-level shock absorption to achieve the best centrifugal effect.

Various range of rotors for application flexibility

Both fixed-angle rotors and swing-out rotors are available, along with a diverse selection of hanging baskets and adapters to accommodate various needs.
Compatible with 2~10ml blood collection tubes, 10ml, 15ml, 50ml centrifuge tubes, and 200ml, 400ml, 500ml blood bags.
Max. capacity of the fixed angle rotor: 6*500ml.
Max. capacity of the swing-out rotor: 6*1000ml.



Multi-functions

It has functions such as short spin. Continue centrifugation, and one-button precooling to meet the needs of different experiments. Program collection is customizable, users can collect 1000+ sets of parameter programs and recall them freely. The display of speed, centrifugal force, temperature, rotor type , acceleration and deceleration ramps/ time and operation mode shows in time.

Safety Design



Rigid material
The machine used with high-quality steel structure of the fuselage, built-in stainless steel explosion-proof protective inner sleeve and stainless steel chamber.



Safety door lock
Automatic electric door locks with emergency unlocking function, safety and reliable.



Data export
Equipped with USB interface can export operation records and alarm records.



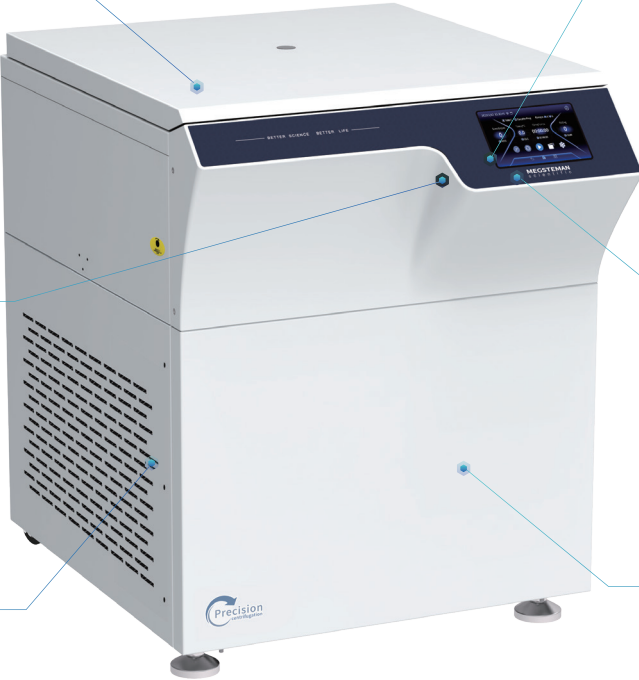
Alarm & Protection
Equipped with over-temperature, over-speed, gyroscope imbalance protection, lid protection, communication failure alarm, etc.



Program access
Independently open the rotor information, program collection. Continue centrifugation, short spin, menu program and other functional permissions.



Precise temperature control
It adopts fluorine-free compressor unit, with double-cycle refrigeration and strong heat exchange capacity, can achieve precise temperature control without pollution.



Technical Parameters

Product model	Max. speed	Max. RCF	Max. capacity	Temperature control range	Noise	Speed accuracy
CL-D60R	6000rpm	6600xg	6*1000ml	-20°C~40°C	≤63dB	±10rpm
	Temperature accuracy	Setting time range		Power supply	Weight	Dimensions (W*D*H)
	±1°C	1s~99h59min59s		220V/50Hz	323kg	740*920*900mm

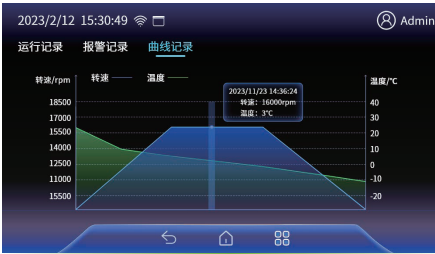
Technical Parameters

	Rotor type		Maximum speed	Maximum centrifugal force	Adapter
Fixed-angle rotor		6*300ml	6000rpm	5660xg	-
		6*500ml	6000rpm	6600xg	-
Swing-out rotor		6*1000ml (round cup)	4200rpm	5100xg	6*24*5/7ml、6*19*10ml、6*14*10/15ml 6*5*50ml
		6*1000ml (oval cup)	4200rpm	5100xg	6*2*200ml blood bag adapter 6*400/500ml blood bag adapter

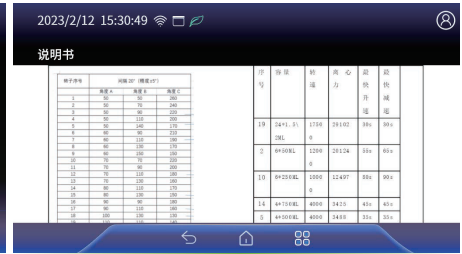
Intuitive Interface



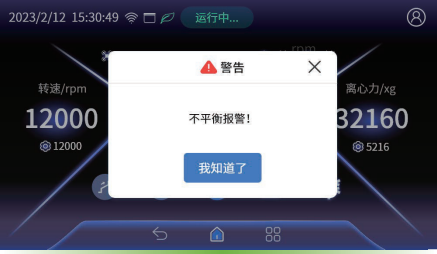
Program library
Program library is convenient for user to modify parameters and memorize collections.



Records query
The historical operation records and alarm records can be queried with one click, to ensure the traceability of the entire usage process.



E-Manual
Equipped with electronic instruction manual to assist operation grandly.



Balance monitoring
Electronic gyroscope automatically monitors balance and issues warning alerts.



Electronic level
Electronic level assists in installation and leveling, making installation easier and simpler.



Multi-level permissions
Administrators can grant access to guests or users.

Benchtop Low-speed Centrifuge



CT-D60

Scope of Application

Mainly used in scientific research platforms, clinics, hospital laboratories, blood transfusion departments, pathology departments, CDC microbiology laboratories, etc.; Commonly used to separate cells, blood, secretions, excretions, etc.

Product Features



Excellent Performance

The maximum speed: 6000rpm
The speed accuracy: ±1rpm
The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process.



Safety protection

Record query: one-click query of historical operating records and fault records.
Damping gas springs: offer smooth and controlled opening and closing of the centrifuge chamber, providing an extra layer of protection to users.
Alarm: rotor imbalance, door cover protection, overvoltage and overcurrent, communication failure alarm.
Stable operation: the amplitude of the whole machine is as low as 0.004mm, protecting the long-term stable operation of the machine.
Soft brake: prevent sample resuspension.

Various range of rotors for application flexibility

Compatible with both fixed-angle rotors and swing-out rotors, and equipped with a variety of hanging baskets and adapters, with capacities including 10ml, 15ml, 50ml, 100ml and various types of blood collection tube rotors.



Easy to operate

With instant centrifugation function and 9 acceleration and 10 deceleration stages to choose from, it can meet the needs of different centrifugation experiments.
The program settings are customizable, and 15 groups of parameter programs can be freely set and named as needed.
The display of speed, centrifugal force, temperature, rotor type, acceleration and deceleration temps, time and operation mode shows in time.



Convenient interaction



Intelligent operation control system

Administrators can grant guests/users access.



Program setting

Quick and easy for modifying programs and collecting memory.



Rotor identification

Equipped with automatic rotor identification and rotor parameter automatic switching functions, ensuring safe and convenient for daily operation.



Intuitive 7-Inch Touch Screen

It provides operators with user-friendly navigation through settings and features, making operation straightforward and minimizing time.

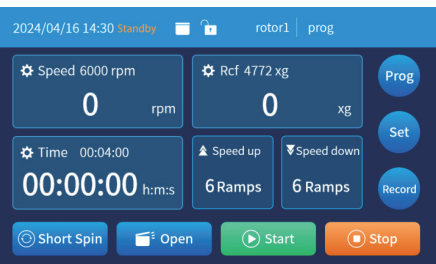
Intuitive Interface



Speed setting



Operation record



Short spin

Technical Parameters

Product model	Max. speed	Max. RCF	Max. capacity	Setting time range	Noise	Speed accuracy	Power	Weight	Dimension (W*D*H)
CT-D60	6000rpm	5103xg	6*100ml	1s~99h59min59s	≤63dB	±1rpm	240W	38kg	380*535*318mm

Technical Parameters

Rotor type	Fixed-angle Rotor				Swing-out Rotor	
Capacity	 6*100ml	 36*10ml	 6*50ml/10ml	 12*15ml	 4*8*3/5ml (Blood collection tube)	 4*100ml
Speed	4500rpm	4500rpm	5000rpm	6000rpm	4000rpm	4300rpm
Centrifugal force	3376xg	3331xg	3776xg	5498xg	2557xg	3052xg