

# Contents

## 1

### Vacuum Centrifugal Concentrators

ZLS-1, ZLS-2, ZLS-3, ZLS-4, ZLS-6 Vacuum Centrifugal Concentrators _____	09	CT-6, CT-40, CT-50 Cold Traps _____	12
--	----	-------------------------------------	----

## 2

### 71 Series

Customized High/Low Speed Inline Centrifuge Unit 13		7105TR, 7108TR Benchtop Low Speed Large Capacity Refrigerated Centrifuges _____	33
7124TR, 7122TR, 7120TR, 7116TR Benchtop High Speed Refrigerated Centrifuges _____	15	71-5804 Benchtop High/Low Speed Centrifuge _____	37
7120BR Benchtop High Speed Large Capacity Refrigerated Centrifuge _____	20	7105TB, DD5M Low Speed Large Capacity Centrifuges _____	40
7116MR Benchtop High Speed Micro Volume Refrigerated Centrifuge _____	24	7105T Benchtop Low Speed Centrifuge.....	44
7116T, 7118T, 7120T High Speed Centrifuges _____	27	7104T Benchtop Low Speed Centrifuge.....	46
7116M Benchtop High Speed Centrifuge _____	30		

## 3

### Large Capacity Centrifuges

LRM-I2L Ultra Large Capacity Refrigerated Centrifuge _____	48	HR26M, HR21M, HR20M High Speed Refrigerated Centrifuges _____	55
LR6M, LR10M Large Capacity Refrigerated Centrifuges _____	50	HR/T20MM Vertical High Speed Refrigerated Centrifuge _____	59
TL5R, TL6R, TL8R Vertical Low Speed Refrigerated Centrifuges _____	52		

## 4

### High Speed Centrifuges

3H Series Intelligent High Speed Refrigerated Centrifuges _____	63	HR/T16MM, TG16MW Benchtop High Speed Microcentrifuges _____	74
TGL20MW Benchtop Large Capacity High Speed Refrigerated Centrifuge _____	68	H/T16MM, H/T18MM, H/T20MM High Speed Centrifuges _____	76
HR/T16M, HR/T20M Benchtop High Speed Refrigerated Centrifuges _____	71		

## 5

### Low Speed Centrifuges

TDL5M, TDL6M, TDL8M Benchtop Low Speed Refrigerated Centrifuges _____	79	TDZ4, TDZ4-WS Benchtop Low Speed Centrifuges ..	89
TD6, TDZ6-WS Benchtop Low Speed Multi-rack Centrifuges _____	83	IH-4K, IH-6K, IH-10K, 800D Handheld Centrifuges	91
TD5A, TD5, TDZ5, TDZ5-WS Benchtop Low Speed Centrifuges _____	86	BE-6100 Microplate Centrifuge _____	91

## 6

### Professional Centrifuges

Automatic Decapping Centrifuge _____	92	Low Speed Multi-tube Rack Urine Sediment Centrifuge _____	96
Immunology Blood Typing Centrifuge _____	93	Phlebotomy Cart Refrigerated Centrifuge _____	97
Milk Fat Centrifuge _____	93	Pulp WRV Determination Centrifuge _____	97
Soil pH Curve Centrifuge _____	94	PRP, CGF Centrifuges _____	98
Capillary Centrifuge _____	95	Portable Centrifuge _____	100
Cytosmear Centrifuge _____	95	Filter Centrifuge _____	101
Oil Centrifuge _____	96		

## 7

### Featured Instruments

ES5000 Intelligent Trim Meter _____	102	Inline Grain/Oil/Chinese Herb Moisture Analyzer _	104
RH2010SF-I Fast Moisture Analyzer _____	103	Inline Sludge Moisture Analyzer _____	105

# Vacuum Centrifugal Concentrator — Concentration of Temperature-sensitive Samples



Vacuum Centrifugal Concentrators

## Methods & Principles ↘

Common methods for sample evaporation, drying, concentration and purification include:

- **Distillation and rotary evaporation methods** at high temperature and under nearly atmospheric pressure, **which can only process a single sample;**
- **The freeze-drying method** under low temperature and high vacuum conditions, which is **time-consuming, although sublimation can keep the sample activity;**
- Fast evaporation at low temperature by means of **thermo-vap sample concentrator, which can process only a small amount of samples, with high use cost and complicated operation;**
- Evaporation under vacuum conditions at room temperature by means of **vacuum centrifugation concentration, where the evaporation rate of the sample solvent is higher;**

The phenomenon of evaporation is an endothermic process. As water evaporates from a sample, it will take away the heat of the product so that the temperature of the product will be lowered, thus maintaining the properties and activity of the sample. However, to speed up the evaporation process, the equipment used needs to provide the heat (generally through cavity heating or infrared heating) to be absorbed in the evaporation. The method is especially suitable for concentrating and purifying heat-sensitive biological samples or clinical medicines.

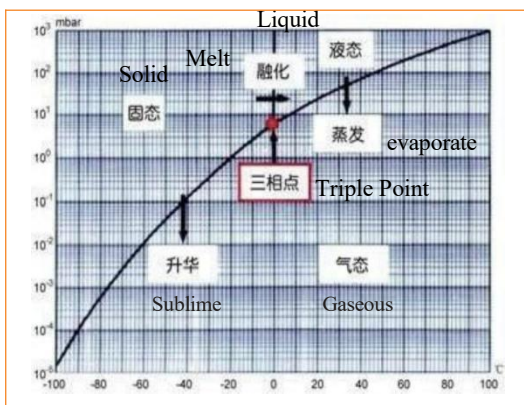
The vacuum centrifugal concentrator revolves at speeds of 1500~2000r/min, which generates centrifugal force that prevents sample dispersion and flash boiling during the preparation of high-concentration samples. This can prevent cross-contamination, sample loss, denaturation, activity reduction, oxidation and other problems. The product is particularly suitable for preparing sensitive biological samples, such as nucleic acids and proteins.

## Economical, Efficient Vacuum Centrifugal Concentrator

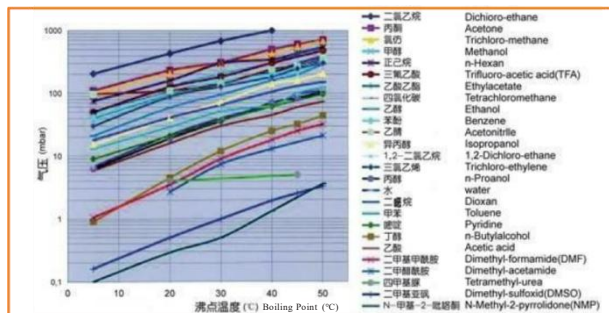
- No foaming of samples and minimal sample loss
- Simultaneous drying of multiple samples
- Sample all concentrated at the bottom of the centrifuge tube
- Suitable for drying samples of 1ml to 3000ml
- Repeatable drying by controlling process parameters such as rotor chamber temperature (providing evaporation energy) and vacuum (auto setting of optimal pressure)
- Safe and simple solvent recovery

## Scope of Application

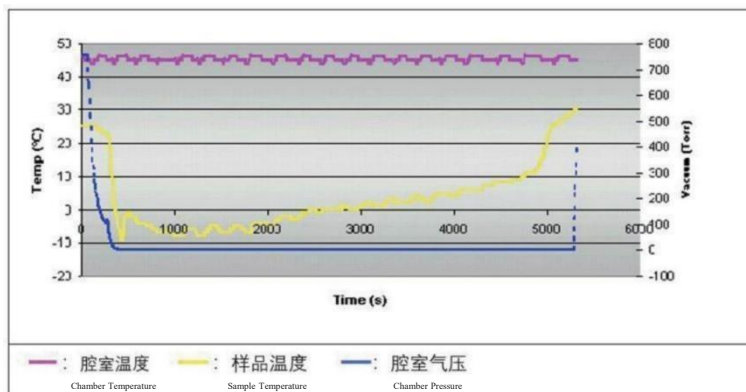
- DNA/RNA (the solvents are primarily water, ethanol, and methanol)
- Oligomers or peptides
- PCR products
- High-performance liquid chromatography (HPLC) products
- Synthesis and separation of organic substrates
- Storage and handling of substrates
- Concentration of protein
- Chemical composition
- High throughput screening (HTS)
- Analysis of food and environmental samples
- Toxicological identification and forensic identification
- General laboratory evaporation



Vapor Pressure Curve



Vapor Pressure Curve of General Organic Solvents



Temperature Change Diagram of Centrifuge Chamber and Samples

# ZLS-1, ZLS-2, ZLS-3, ZLS-4, ZLS-6 Vacuum Centrifugal Concentrators

## Major Fields of Application ↘

Our ZLS series vacuum centrifugal concentrators are able to quickly and safely evaporate water and organic solvent in samples. The processed samples can be conveniently used for various qualitative and quantitative analyses in areas such as chemicals, biochemicals, biological analysis, immune screening, food safety, residue analysis, etc. These devices are suitable for concentration of immunoglobulins, concentration of drug metabolites, solid phase extraction (SPE), pre- and post-processing of liquid chromatography, ADMET/toxicology, polymer chemistry, DNA/RNA purification and concentration, oligomerization, forensics/drug of abuse testing, and general lab concentration.



### Independent Design

Concentrators, vacuum pumps and cold traps are separate and can be freely combined for strong flexibility.

### Safe & Reliable

Early warning modules for over temperature, low pressure, and emergency stop.

### Vacuum Setting Precision

Vacuums start automatically at the set speed value, and the vacuum level can be controlled during operation within the set precision to enhance the optimal sublimation efficiency.

### Intelligent Pressure Relief Door

Smooth and stable one-button opening/closing; manual opening in case of shutdown or power outage.

## Product Benefits ↘

- The new XIUI3.0 operating system features microcomputer control, programmable operations, and direct drive by a DC variable frequency brushless motor for precise speed control.
- A 7" wide-angle LCD touch screen is available for digital input
- The built-in organic solvent vapor pressure curve charts display the detailed vapor pressure data of different organic solvents at different temperatures, helping users understand the evaporation characteristics of organic solvents, and preventing wrong

and easy to operate. It can display set and run parameters, as well as chamber pressure (mbar) in real time. The all-steel housing has corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that is safe while being visually appealing and allowing for a high recognition rate.

- **One-button preheating:** The products are fitted with the precise temperature control technology for fast heating and accurate temperature control, thus being capable of heating the chamber temperature to 60°C, quickly reaching and maintaining the set temperature.

(Applicable to ZLS-1/ZLS-2/ZLS-3)

- **One-button pre-cooling:** The products utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +60°C, quickly reaching the set temperature. The chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation. (Applicable to ZLS-4/ZLS-6)

- **Vacuum setting:** Vacuuming starts at the set speed value, and the vacuum level can be controlled during operation within the set precision to enhance sublimation efficiency and provide safe and efficient concentration without pollution, foam, or sample damage.

- **Automatic vacuum release:** When the instrument stops running or in case of power outage/shutdown, vacuum release will be automatic to ventilate with the external environment, and slow to protect samples from excessive positive and negative pressure. After complete release, the instrument will automatically open the cover.

operations or safety accidents due to lack of understanding.

- The 304 stainless steel seamlessly molded centrifuge chamber has undergone Teflon treatment for corrosion resistance, and thus can ensure the purity of sample solvents.

- A variety of rotors are available to meet different experimental throughput needs and suitable for the centrifugal concentration to pretreat samples such as nucleic acids and viruses.

- **Split design:** Independent accessories, free compatibility, flexibility in use.

- One-button linkage function for simpler and more convenient instrument operation.

- The polymethyl methacrylate cover plate is transparent and easy for observation, with an automatic door opening/closing design that is convenient and can prevent wrong operations caused by manual door opening/closing; in case of power outage, it can be powered by a battery to automatically open the cover plate.

- The products have built-in operation guide and early warning modules for over temperature, low pressure and emergency stop, which can help users improve efficiency, reduce the risk of wrong operations, and meet strict requirements for reliability of concentration effects.

- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	ZLS-1	ZLS-2	ZLS-3	ZLS-4	ZLS-6
RPM	1500r/min	2000r/min		2000r/min	
Max power	1kW	2.4kW	2.5kW	0.5kW	3.5kW
Max current	5A	11A	11A	2.5A	11A
Ambient temperature	0°C ~ +35°C				
Temperature control range	Room temperature ~ +60°C	Room temperature ~+60°C (+70°C, +80°C)		-20°C~+40°C	-20°C~+80°C
Timer range	1min-23h59min59s				
Door opening/closing	Manual	Auto		Manual	Auto
Preheating	Available			Available (preheating/precooling)	
One button linkage	Available				
Final vacuum	0.1mbar				
Auto pressure release	Available				
Vacuum level display	N/A	Available		N/A	Available
Vacuum interface	Φ10mm				
Vacuum pump (recommended)	Domestic diaphragm pump/oil pump, imported oil pump/diaphragm pump				
Cold trap (recommended)	CT-6/CT-40/CT-50				
Noise	≤50dB (A)			≤60dB(A)	
Power	AC220V/50Hz				
Weight	21kg	42kg	55kg	70kg	90kg
Dimensions (L×W×H)	500×460×280	400×540×350	480×600×410	710×630×380	490×660×380

## Rotor Components

62×1.5mL	12×10mL	6×50mL	6×250mL
			
<p>Fixed-angle Rotor</p> <p>Max. RPM: 1500r/min</p> <p>Rotor item number:</p> <p>ZLS-1 JZZ-022-0127 (1500)</p> <p>ZLS-3 JZZ-026-0152 (2000)</p> <p>Applicable to ZLS- 1/ZLS-2/ZLS-3/ ZLS-4/ZLS-6</p>	<p>Fixed-angle Rotor</p> <p>Max. RPM: 2000r/min</p> <p>Rotor item number: JZZ-026-0275</p> <p>Applicable to ZLS-2/ZLS-3/ZLS-4/ZLS-6</p>	<p>Fixed-angle Rotor</p> <p>Max. RPM: 2000r/min</p> <p>Rotor item number: JZZ-026-0001</p> <p>Applicable to ZLS-3</p>	<p>Fixed-angle Rotor</p> <p>Max. RPM: 2000r/min</p> <p>Rotor item number: JZZ-026-0134</p> <p>Compatible with 6×2×50mL/6×5×20mL adapters</p> <p>Applicable to ZLS-3</p>
Optional Rotors			
62×0.2mL	24×5mL	8×50mL+8×10mL	
102×1.5mL	18×10mL	10×50mL	
204×1.5mL	20×15mL	24×8×0.2mL (8-tube strips)	
12×5mL	45×15mL	2×96 holes	
CT-6 Cold Trap	CT-40 Cold Trap	Vacuum Pump/Diaphragm Pump	
			

# CT-6, CT-40, CT-50 Cold Traps

## Major Fields of Application ↘

These cold traps are rapid solvent capture systems for efficient condensation of solvent vapors. When they condense vapor into a liquid, the reduction of gaseous substances increases the vacuum of the system, thus speeding up the concentration process and significantly improving the performance of the vacuum concentration system.



## Product Benefits ↘

- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, displaying the set parameters and operating parameters at the same time.
- Sealed wide-mouth collection bottles made of soda-lime glass with good chemical resistance and optional capacity.
- The products utilize imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a, with a wide temperature control range: from -50°C to room temperature (CT- 50) (which can be set during operation);
- pre-cooling function (quickly cooling down to the set temperature); standby cooling function (maintaining the set temperature in the standby state).
- Closed circulation mode to avoid laboratory environmental pollution.
- Volume as small as 0.8m<sup>3</sup>, allowing for a collection area of up to 760cm<sup>2</sup>. High recovery efficiency with a max capture volume of 284ml/6H (absolute ethanol).

## Host Parameters ↘

Product Model	CT-6		CT-40		CT-50
Circulation method	Closed circulation				
Freezing method	Refrigeration compressor, eco-friendly refrigerants				
Max power	300W		320W		380W
Temperatures of working environments	15°C-30°C		15°C-30°C		15°C-30°C
Extreme temperature	-40°C		-40°C		-50°C
Adjustable temperature range	Room temperature to -40°C		Room temperature to -40°C		Room temperature to -45°C
Temperature control accuracy	±1°C				
Max capture volume for concentration and condensation	Medium: Water	260ml/12 hours	Temperature set at -15°C	300ml collection bottle recommended	
	Medium: Ethanol	284ml/6 hours	Temperature set at -35°C to -40°C	600ml collection bottle recommended	
Condensing area of the collection chamber	760 cm <sup>2</sup>				
Safety mechanism	Compressor overload protection, compressor timing protection, high-voltage switch protection, temperature self-regulation, defrosting				
Pagoda Interface	Φ12				
Collection bottle volume	200mL		300mL		600mL
Power	AC 220V 50Hz 15A		AC 220V 50Hz 15A		AC 220V 50Hz 15A
Weight	44kg		53kg		54kg
Dimensions (L×W×H)	340mm×440mm×630mm		250mm×580mm×560mm		250mm×580mm×560mm

# Customized High/Low Speed Inline Centrifuge Unit

## Major Fields of Application

The fully automatic centrifuge unit can be applied in special circumstances, remotely controlled by a computer to open/close the cover and start the instrument. It can pick up samples via a robotic arm, replacing manual execution of time-consuming, repetitive operation processes, and overcoming the risk of nearby operation of instruments in high-risk environments.

It is available with or without temperature control, and suitable for various microplates and blood collection tubes for centrifugation (customized). This product is an option for automated workstations in routine clinical diagnostics. It can be used for managing standard clinical samples as well as preparing cell and bacterial samples.



## Product Benefits

- **Precise positioning**

Precision of 360° with ±0.5° error

- **Meeting diversified needs**

It can meet the sample needs from micro to large volume and enable centrifuging at high or low speed. It can be used at controlled or room temperature to meet customers' needs for automated application and achieve experimental automation.

- **High reliability and easy integration**

The centrifuge can be integrated as a module into an automated system, with advantages such as easy integration, high availability and easy deployment to facilitate efficient remote interaction.

- **Control mode**

It supports communication via the RS485/MODBUS RTU protocol or Ethernet TCP/IP protocol.

- **Safe and pollution free**

The product has many protections, such as imbalance protection, overspeed protection, overtemperature protection, intelligent anti-pinch protection for the lid-lock, all-steel powder-coated housing, a 3-layer steel protective sleeve, and an austenitic 304 steel corrosion-resistant centrifuge chamber, to keep operators safe.

## Host Parameters

Product Model	TL5H	
Max. capacity	96×5mL blood collection tube (customizable)	
Max. RPM	3800r/min (customizable)	
Max. RCF	3181×g (customizable)	
Speed accuracy	±20r/min (customizable, multiples of 10)	
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Temperature control range	Room temperature	-20°C~+40°C
Temperature accuracy	±1°C	
Refrigeration system	Imported refrigerating compressor unit, fluorine-free refrigerant (R404a)	
Control and drive system	High torque DC motor, microcomputer control	
Noise	≤70dB (A)	
Power	AC220V 50Hz	
Total power	1.2kW	2.2kW
Weight	134kg	177kg
Window size	160×166mm (customizable)	
Dimensions (L×W×H)	556mm×820mm×700mm	



Customizable positioning  
centrifuge units according to  
users' actual needs

# 7124TR, 7122TR, 7120TR, 7116TR Benchtop High Speed Refrigerated Centrifuges

## Major Fields of Application

This series of models can be paired with more than ten different rotors and various adapters to meet application needs in major laboratories, clinical medicine, bacterial studies, protein precipitation, nucleic acid extraction, cellular/subcellular fractionation, and processing of environmentally friendly samples.



## Product Benefits




- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a DC variable frequency brushless motor for precise speed control.
- 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.
- The products utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temperature. The chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation.
- 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 -55°C - +200°C temperatures. 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 and electric support rod, allowing for smooth and stable automatic one-button opening and closing. In case of shutdown or power outage, it can be powered by a battery to automatically open the cover plate. The patented anti-pinch function can prevent injuring fingers by hasty operations.
- The Bluetooth and 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. They can store 99 groups of programs and be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation, thus meeting diverse experimental requirements.
- The hidden drainage function allows for easy expulsion of condensate water with a gentle squeeze, thereby preventing motor failure due to condensate water and extending the centrifuge's lifespan.
- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.







- 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.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0), and anti-pinch and object protection device for instrument covers (ZL 2022 20790897.2);
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.






## Host Parameters

Product Model	7124TR	7122TR	7120TR	7116TR
Max. capacity	4×100mL			
Max. RPM	24000r/min	22000r/min	20600r/min	16800r/min
Max. RCF	42048×g	35332×g	30554×g	22500×g
Speed accuracy	±20r/min (customizable, multiples of 10)			
Control and drive system	Microcomputer control, maintenance-free large-torque DC/ inverter brushless motor			
Display mode	7" wide-angle LCD touch screen			
Operation mode	Touch control (with local control optional)			
Rotor recognition	Automated loading and locking of rotor parameters (optional)			
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a			
Temperature control range	-20°C~+40°C			
Temperature control accuracy	±1°C			
Gears up/down	10 gears			
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation			
Total power	1kW			
Noise	≤65dB(A)			
Power	AC220V 50Hz			
Weight	74kg			
Dimensions (L×W×H)	505mm×650mm×376mm			

## Rotor Parameters

	7124TR	7122TR	7120TR	7116TR
<b>12×1.5mL</b>  Fixed-angle Rotor	Max. RPM: 24000r/min Max. RCF: 42048×g Rotor item number: JZZ-029-0225	Max. RPM: 22000r/min Max. RCF: 35332×g Rotor item number: JZZ-000-0052	Max. RPM: 20600r/min Max. RCF: 30554×g Rotor item number: JZZ-000-0052	Max. RPM: 16800r/min Max. RCF: 20586×g Rotor item number: JZZ-000-0052
<b>24×1.5mL</b>  Fixed-angle Rotor	Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-000-0268	Max. RPM: 15500r/min Max. RCF: 24240×g Rotor item number: JZZ-000-0268	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268
<b>48×1.5mL</b>  Fixed-angle Rotor	Max. RPM: 14500r/min Max. RCF: 23520×g Rotor item number: JZZ-000-0166	Max. RPM: 14500r/min Max. RCF: 23520×g Rotor item number: JZZ-000-0166	Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-000-0166	Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-000-0166

12×5mL	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 16000r/min Max. RCF: 19712×g Rotor item number: JZZ-000-0058	Max. RPM: 15500r/min Max. RCF: 18720×g Rotor item number: JZZ-000-0058	Max. RPM: 15000r/min Max. RCF: 17325×g Rotor item number: JZZ-000-0058	Max. RPM: 14000r/min Max. RCF: 15092×g Rotor item number: JZZ-000-0058
12×10mL	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 15000r/min Max. RCF: 22725×g Rotor item number: JZZ-000-0067	Max. RPM: 15000r/min Max. RCF: 22725×g Rotor item number: JZZ-000-0067	Max. RPM: 15000r/min Max. RCF: 22725×g Rotor item number: JZZ-000-0067	Max. RPM: 14000r/min Max. RCF: 19796×g Rotor item number: JZZ-000-0067
8×15mL (round-bottom)	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 13500r/min Max. RCF: 19656×g Rotor item number: JZZ-000-0070	Max. RPM: 13500r/min Max. RCF: 19656×g Rotor item number: JZZ-000-0070	Max. RPM: 13000r/min Max. RCF: 18083×g Rotor item number: JZZ-000-0070	Max. RPM: 12000r/min Max. RCF: 15408×g Rotor item number: JZZ-000-0070
8×15mL (conical-bottom)	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 13500r/min Max. RCF: 20384×g Rotor item number: JZZ-000-0069	Max. RPM: 13500r/min Max. RCF: 20384×g Rotor item number: JZZ-000-0069	Max. RPM: 13000r/min Max. RCF: 18590×g Rotor item number: JZZ-000-0069	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069
12×15mL (conical-bottom)	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 14000r/min Max. RCF: 23128×g Rotor item number: JZZ-001-0011	Max. RPM: 14000r/min Max. RCF: 23128×g Rotor item number: JZZ-001-0011	Max. RPM: 13000r/min Max. RCF: 19942×g Rotor item number: JZZ-001-0011	Max. RPM: 12000r/min Max. RCF: 16992×g Rotor item number: JZZ-001-0011
6×50mL (through-holes)	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 6000r/min Max. RCF: 3672×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3672×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3672×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3672×g Rotor item number: JZZ-000-0112

6×50mL	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 13000r/min Max. RCF: 20449×g Rotor item number: JZZ-000-0072	Max. RPM: 13000r/min Max. RCF: 20449×g Rotor item number: JZZ-000-0072	Max. RPM: 12000r/min Max. RCF: 17424×g Rotor item number: JZZ-000-0072	Max. RPM: 12000r/min Max. RCF: 17424×g Rotor item number: JZZ-000-0072
4×100mL	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 11000r/min Max. RCF: 13794×g Rotor item number: JZZ-000-0074	Max. RPM: 11000r/min Max. RCF: 13794×g Rotor item number: JZZ-000-0074	Max. RPM: 11000r/min Max. RCF: 13794×g Rotor item number: JZZ-000-0074	Max. RPM: 10000r/min Max. RCF: 11400×g Rotor item number: JZZ-000-0074
4×8×0.2mL PCR 8-tube strings	7124TR	7122TR	7120TR	7116TR
 <p>Fixed-angle Rotor</p>	Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: JZZ-000-0230	Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: JZZ-000-0230	Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: JZZ-000-0230	Max. RPM: 14000r/min Max. RCF: 15288×g Rotor item number: JZZ-000-0230
4×50mL	7124TR	7122TR	7120TR	7116TR
 <p>Swing-out Rotor</p>	Max. RPM: 4000r/min Max. RCF: 2656×g Rotor item number: SPZ-000-0018	Max. RPM: 4000r/min Max. RCF: 2656×g Rotor item number: SPZ-000-0018	Max. RPM: 4000r/min Max. RCF: 2656×g Rotor item number: SPZ-000-0018	Max. RPM: 4000r/min Max. RCF: 2656×g Rotor item number: SPZ-000-0018
4×100mL	7124TR	7122TR	7120TR	7116TR
 <p>Swing-out Rotor</p>	Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: SPZ-001-0168	Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: SPZ-001-0168	Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: SPZ-001-0168	Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: SPZ-001-0168

# 7120BR Benchtop High Speed Large Capacity Refrigerated Centrifuge

## Major Fields of Application

With an extraordinary experimental throughput of up to 4×750mL, this centrifuge is an ideal option for high-throughput applications. It can fast and efficiently freeze and centrifuge materials, thus being a great convenient tool for biochemistry, healthcare, food safety, life sciences, agricultural and forestry sciences, blood banks, etc.



## Product Benefits

- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- 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. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that reflects a sense of safety while being visually appealing, and allowing a high recognition rate.
- The products utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temperature. The chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation.
- 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 -55°C - +200°C temperatures. The aesthetically pleasing and hermetical 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 and electric support rod, allowing for smooth and stable automatic one-button opening and closing. In case of shutdown or power outage, it can be powered by a battery to automatically open the cover plate. The patented anti-pinch function can prevent injuring fingers by hasty operations.
- The Bluetooth/Type C interface function is 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. They can store 99 groups of programs and be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation, thus meeting diverse experimental requirements.

- The hidden drainage function allows for easy expulsion of condensate water with a gentle squeeze, thereby preventing motor failure due to condensate water and extending the centrifuge's lifespan.
- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.
- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 0.2mL to 750mL centrifuge tubes or reagent bottles; able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), horizontal centrifuge (ZL 2021 30608966.4), benchtop centrifuge (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0), and anti-pinch and object protection device for instrument covers (ZL 2022 20790897.2);
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.






## Host Parameters

Product Model	7120BR
Max. capacity	4×750mL
Max. RPM	20800r/min
Max. RCF	31150×g
Speed accuracy	±20r/min (customizable, multiples of 10)
Control and drive system	Microcomputer control, maintenance-free large-torque inverter brushless motor
Display mode	7" wide-angle LCD touch screen
Operation mode	Touch control (with local control optional)
Rotor recognition	Automated loading and locking of rotor parameters (optional)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	1.5kW
Noise	≤65dB(A)
Power	AC220V 50Hz
Weight	118kg
Dimensions (L×W×H)	835mm×630mm×450mm

## Rotor Parameters

<p>12×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 20800r/min Max. RCF: 31150×g Rotor item number: JZZ-002-0082</p>	<p>24×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-002-0269</p>	<p>48×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-002-0167</p>	<p>12×5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 15000r/min Max. RCF: 18000×g Rotor item number: JZZ-002-0002</p>
<p>16×5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 20972×g Rotor item number: JZZ-7102-0001</p>	<p>12×10mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 19796×g Rotor item number: JZZ-002-0083</p>	<p>12×15mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 12000r/min Max. RCF: 17712×g Rotor item number: JZZ-002-0003</p>	<p>6×50mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 13000r/min Max. RCF: 20449×g Rotor item number: JZZ-002-0084</p>

8×50mL (conical-bottom)	6×100mL	6×250 mL	4×8×0.2ml (8-tube strips)
 <b>Fixed-angle Rotor</b> Max. RPM: 11000r/min Max. RCF: 14883×g Rotor item number: JZZ-002-0090	 <b>Fixed-angle Rotor</b> Max. RPM: 11000r/min Max. RCF: 14641×g Rotor item number: JZZ-002-0087	 <b>Fixed-angle Rotor</b> Max. RPM: 8000r/min Max. RCF: 10176×g Rotor item number: JZZ-002-0258	 <b>Fixed-angle Rotor</b> Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: ZZ-002-0106

Swing-out Rotor	Tube Rack					
 <b>Swing-out Rotor</b> Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	5mL (ordinary tube)	 Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0046	5mL (blood collection tube)	 Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2832×g Rotor item number: SPZ-000-0045	15mL	 Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0287
	50mL	 Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: SPZ-000-0284	50mL	 Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283	100mL	 Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296

Swing-out Rotor	Tube Rack		4×500mL	4×750mL
 <b>Swing-out Rotor</b> Max. RPM: 4000r/min Max. RCF: 3392×g Rotor item number: SPZ-000-0274	5mL (blood collection tube)	Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: SPZ-000-0147	 <b>Swing-out Rotor</b> Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	 <b>Swing-out Rotor</b> Max. RPM: 4000r/min Max. RCF: 3536×g Rotor item number: SPZ-017-0186
	250mL (flat-bottom)	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2848×g Rotor item number: SPZ-000-0038		
	250mL (conical bottom)	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 3392×g Rotor item number: SPZ-007-0274		

2×2×96 holes	4×2×96 holes
 <b>Microplate Rotor</b> Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0145	 <b>Microplate Rotor</b> Max. RPM: 4000r/min Max. RCF: 3008×g Rotor item number: SPZ-002-0181

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL
500mL	18×5mL, 12×10mL, 8×15mL, 4×50mL, 1×100mL, 1×250mL
750mL	27×5mL, 15×10mL, 12×15mL, 7×50mL, 3×100mL, 1×300mL, 1×500mL

Customizable per customer needs

# 7116MR Benchtop High Speed Micro Volume Refrigerated Centrifuge

## Major Fields of Application ↘

With a large 7" touch screen, the instrument is easy to operate and can be lifted up and down fast and paired with PCR 8-tube strips for rapid precipitation and separation of DNA, RNA, protein and virus. It is commonly used for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular component separation, environmental sample processing, clinical trial sample processing, etc.



## Main Features: ↘

- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- 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.
- The products utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temperature. The chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation.
- They feature multiple audio/visual early warning protection functions for overspeed, over temperature, imbalance, wrong

operation, overcurrent, and overvoltage. 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 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. They can store 99 groups of programs and be programmable for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.

- The hidden drainage function allows for easy expulsion of condensate water with a gentle squeeze, thereby preventing motor failure due to condensate water and extending the centrifuge's lifespan.
- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.
- Forged aerospace aluminum rotors, suitable for centrifuge tubes of 0.2mL to 2.0mL, paired with PCR 8-tube strips.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7116MR
Max. capacity	48×1.5mL
Max. RPM	16500r/min
Max. RCF	22500×g
Speed accuracy	±20r/min (customizable, multiples of 10)
Control and drive system	Microcomputer control, maintenance-free large-torque inverter brushless motor
Display mode	7" wide-angle LCD touch screen
Operation mode	Touch control (with local control optional)
Rotor recognition	Automated loading and locking of rotor parameters (optional)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.60kW
Noise	≤65d B (A)
Power	AC220V 50Hz
Weight	51.5kg
Dimensions (L×W×H)	350mm×640mm×330mm

## Rotor Parameters

<p>12×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 16500r/min Max. RCF: 19856×g Rotor item number: JZZ-000-0052</p>	<p>24×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268</p>	
<p>48×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-000-0166</p>	<p>12×5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 15092×g Rotor item number: JZZ-000-0058</p>	<p>4×8×0.2mL (PCR 8-tube strings)</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: JZZ-000-0230</p>

# 7116T, 7118T, 7120T High Speed Centrifuges

## Major Fields of Application ↘

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 6×50mL fixed-angle rotors have been widely used in various fields.



## Product Benefits ↘

- 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, and overvoltage. The fluorosilicone rubber sealing ring, resistant to hydrogen, oil, acids and alkalis, is capable of long-time use at the temperature from  $-55^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$ . 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 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.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7116T	7118T	7120T
Max. capacity	4×100mL		
Max. RPM	16500r/min	18500r/min	20000r/min
Max. RCF	22500×g	24642×g	28800×g
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	AC220V 50Hz		
Weight	27.5kg		
Dimensions (L×W×H)	360mm×460mm×335mm		

## Rotor Parameters

12×1.5mL	7116T	7118T	7120T	24×1.5mL	48×1.5mL
	Max. RPM: 16500r/min Max. RCF: 19856×g Rotor item number: JZZ-000-0052	Max. RPM: 18500r/min Max. RCF: 24642×g Rotor item number: JZZ-000-0052	Max. RPM: 20000r/min Max. RCF: 28800×g Rotor item number: JZZ-000-0052	 Fixed-angle Rotor Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268	 Fixed-angle Rotor Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-000-0166
 Fixed-angle Rotor Max. RPM: 14000r/min Max. RCF: 15092×g Rotor item number: JZZ-000-0058	 Fixed-angle Rotor Max. RPM: 12000r/min Max. RCF: 14544×g Rotor item number: JZZ-000-0067	 Fixed-angle Rotor Max. RPM: 13000r/min Max. RCF: 18590×g Rotor item number: JZZ-000-0069	 Fixed-angle Rotor Max. RPM: 13000r/min Max. RCF: 18083×g Rotor item number: JZZ-000-0070	 Fixed-angle Rotor Max. RPM: 12000r/min Max. RCF: 17424×g Rotor item number: JZZ-000-0072	
 Fixed-angle Rotor Max. RPM: 6000r/min Max. RCF: 3672×g Rotor item number: JZZ-000-0112	 Fixed-angle Rotor Max. RPM: 8000r/min Max. RCF: 7296×g Rotor item number: JZZ-000-0074	 Fixed-angle Rotor Max. RPM: 15000r/min Max. RCF: 17550×g Rotor item number: JZZ-000-0230	 Swing-out Rotor Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: SPZ-001-0168		

# 7116M Benchtop High Speed Centrifuge

## Major Fields of Application ↘

This instrument is mainly used for rapid precipitation and separation of DNAs, RNAs, proteins and viruses, with application in bacteria and protein precipitation, nucleic acid extraction, cell/subcellular component separation, environmental sample processing, clinical trial sample processing, etc.



## Product Benefits ↘

- 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  $-55^{\circ}\text{C}$  -  $+200^{\circ}\text{C}$  temperatures. The aesthetically pleasing and hermetically compression-molded 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 door cover can be locked automatically by gently closing it. In case of shutdown or power outage, the door cover can be manually opened.
- 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. 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.

- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.
- Forged aerospace aluminum rotors, suitable for centrifuge tubes of 0.2 mL to 10 mL, paired with PCR 8-tube strips.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7116M
Max. capacity	12×10mL
Max. RPM	16500r/min
Max. RCF	22500×g
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 (with local control optional)
Rotor recognition	Automated loading and locking of rotor parameters (optional)
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.35kW
Noise	≤65d B (A)
Power	AC220V 50Hz
Weight	17.5kg
Dimensions (L×W×H)	260mm×390mm×305mm

## Rotor Parameters

12×1.5mL	24×1.5mL	48×1.5mL	10×5mL
			
Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor
Max. RPM: 16500r/min Max. RCF: 19856×g Rotor item number: JZZ-000-0052	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268	Max. RPM: 14000r/min Max. RCF: 21756×g Rotor item number: JZZ-000-0166	Max. RPM: 14000r/min Max. RCF: 14308×g Rotor item number: JZZ-000-0066
12×5mL	8×7mL	12×10mL	4×8×0.2mL (PCR 8-tube strings)
			
Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor
Max. RPM: 13500r/min Max. RCF: 14033×g Rotor item number: JZZ-000-0058	Max. RPM: 14000r/min Max. RCF: 14112×g Rotor item number: JZZ-000-0064	Max. RPM: 12000r/min Max. RCF: 14544×g Rotor item number: JZZ-000-0067	Max. RPM: 14000r/min Max. RCF: 15288×g Rotor item number: JZZ-000-0230

# 7105TR, 7108TR Benchtop Low Speed Large Capacity Refrigerated Centrifuges

## Major Fields of Application ↘

With an experimental throughput as high as 4×750mL, they are ideal devices for benchtop low-speed refrigerated high-throughput applications, with extraordinary versatility. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.



## Product Benefits ↘












- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- 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. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that reflects a sense of safety while being visually appealing, and allowing a high recognition rate.
- The products utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temperature. The chamber is embedded with copper pipes that comply with national standards for strong hot and cold exchange capabilities and thus can ensure constant-temperature centrifugation.
- 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 -55°C - +200°C temperatures. 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 and electric support rod, allowing for smooth and stable automatic one-button opening and closing. In case of shutdown or power outage, it can be powered by a battery to automatically open the cover plate. The patented anti-pinch function can prevent injuring fingers by hasty operations.

- The Bluetooth/Type C interface function is 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. They can store 99 groups of programs and be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation, thus meeting diverse experimental requirements.
- The hidden drainage function allows for easy expulsion of condensate water with a gentle squeeze, thereby preventing motor failure due to condensate water and extending the centrifuge's lifespan.
- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.
- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 750mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), horizontal centrifuge (ZL 2021 30608966.4), benchtop centrifuge (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0), and anti-pinch and object protection device for instrument covers (ZL 2022 20790897.2).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7105TR	7108TR
Max. capacity	4×750mL	
Max. RPM	6500r/min	8000r/min
Max. RCF	4800×g	6464×g
Speed accuracy	±20r/min (customizable, multiples of 10)	
Control and drive system	Microcomputer control, maintenance-free large-torque inverter brushless motor	
Display mode	7" wide-angle LCD touch screen	
Operation mode	Touch control (with local control optional)	
Rotor recognition	Automated loading and locking of rotor parameters (optional)	
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a	
Temperature control range	-20°C~+40°C	
Temperature control accuracy	±1°C	
Gears up/down	10 gears	
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Total power	1.5kW	
Noise	≤65dB(A)	
Power	AC220V 50Hz	
Weight	118kg	
Dimensions (L×W×H)	835mm×630mm×450mm	

## Rotor Parameters

12×10mL	7105TR	7108TR				
 <b>Fixed-angle Rotor</b>	Max. RPM: 6500r/min Max. RCF: 4284×g Rotor item number: JZZ-002-0083	Max. RPM: 8000r/min Max. RCF: 6464×g Rotor item number: JZZ-002-0083	 <b>Fixed-angle Rotor</b>	Max. RPM: 5500r/min Max. RCF: 3390×g Rotor item number: JZZ-008-0113	Max. RPM: 5500r/min Max. RCF: 3390×g Rotor item number: JZZ-008-0113	
7105TR, 7108TR						
Swing-out Rotor	Tube Rack					
 <b>Swing-out Rotor</b> Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	5mL (ordinary tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0046	5mL (blood collection tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2832×g Rotor item number: JZZ-000-0045	15mL 	Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0289
	15mL 	Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0287	50mL 	Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: JZZ-000-0284	50mL 	Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0283
	100mL 	Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: JZZ-000-0296	100mL 	Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3072×g Rotor item number: JZZ-000-0297		

7105TR, 7108TR

Swing-out Rotor	Tube Rack	
  Swing-out Rotor  Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: SPZ-000-0277	5mL (blood collection tube)  	Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: JZZ-000-0147
	250mL (flat-bottom)  	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2848×g Rotor item number: SPZ-000-0038

4×500mL	2×2×96 holes
  Swing-out Rotor  Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	  Microplate Rotor  Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0145

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL
500mL	18×5mL, 12×10mL, 8×15mL, 4×50mL, 1×100mL, 1×250mL
750mL	27×5mL, 15×10mL, 12×15mL, 7×50mL, 3×100mL, 1×300mL, 1×500mL

Customizable per customer needs

# 71-5804 Benchtop High/Low Speed Centrifuge

## Major Fields of Application

The benchtop high/low speed centrifuge is a powerful laboratory pretreatment instrument that combines the features of both high- and low-speed centrifuges to meet diverse experimental needs. The low-speed centrifuge section typically operates at 500–5000r/min and is suitable for separating large particles or substances with minimal density differences, such as cells, viruses, and proteins. It is widely used in the fields of biomedicine, chemistry, and food science, etc. In contrast, the high-speed centrifuge section can reach the speeds of 10000-18500r/min, making it ideal for separating small particles or substances with significant density differences, such as DNA and RNA, thereby further enhancing the precision and efficiency of experiments.



## Product Benefits
















- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a DC brushless motor for precise speed control.
- 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, and overvoltage. 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 Bluetooth and 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. They can store 99 groups of programs, with parameters modifiable during operation without the need to stop, and current parameters being automatically saved. They can be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.

- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 250mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	71-5804
Max. capacity	4×250mL
Max. RPM	18500r/min
Max. RCF	24642×g
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	0.6kW
Noise	≤65d B (A)
Power	AC220V 50Hz
Weight	45kg
Dimensions (L×W×H)	450mm×565mm×365mm

## Rotor Parameters

12×1.5mL	24×1.5mL	48×1.5mL	12×5mL	12×15mL
				
Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor
Max. RPM: 18500r/min Max. RCF: 24642×g Rotor item number: JZZ-002-0082	Max. RPM: 14000r/min Max. RCF: 19600×g Rotor item number: JZZ-002-0269	Max. RPM: 12000r/min Max. RCF: 15984×g Rotor item number: JZZ-002-0167	Max. RPM: 12000r/min Max. RCF: 11088×g Rotor item number: JZZ-000-0058	Max. RPM: 11500r/min Max. RCF: 16267×g Rotor item number: JZZ-002-0003
6×50mL (conical-bottom)	6×100mL	4×8×0.2ml (8-tube strips)	4×250mL (flat-bottom)	2×2×96 holes
				
Fixed-angle Rotor	Fixed-angle Rotor	Fixed-angle Rotor	Swing-out Rotor	Swing-out Rotor
Max. RPM: 11500r/min Max. RCF: 16002×g Rotor item number: JZZ-002-0084	Max. RPM: 10000r/min Max. RCF: 12100×g Rotor item number: JZZ-002-0087	Max. RPM: 13000r/min Max. RCF: 13182×g Rotor item number: JZZ-002-0106	Max. RPM: 4000r/min Max. RCF: 2848×g Rotor item number: SPZ-000-0038	Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: JZZ-000-0145
Swing-out Rotor	Tube Rack			
		Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0287		Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: SPZ-000-0284
Swing-out Rotor		Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296		Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283
Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296				

# 7105TB, DD5M Low Speed Large Capacity Centrifuges

## Major Fields of Application

The 7105TB benchtop low speed large capacity centrifuge is suitable for centrifuging various micro samples, and has many other applications, including academic research, medical institutions, biopharmaceuticals, agricultural research, and lab experiments at universities, offering an excellent cost-performance ratio.



## Product Benefits

- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- 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, and overvoltage. 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 Bluetooth and 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. They can store 99 groups of programs, with parameters modifiable during operation without the need to stop, and current parameters being automatically saved. They can be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.

- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 750mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.

- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop

centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).











- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.






## Host Parameters






Product Model	7105TB	DD5M
Max. capacity	4×750mL	6×500mL
Max. RPM	5500r/min	5000r/min
Max. RCF	4800×g	4800×g
Speed accuracy	±20r/min (customizable, multiples of 10)	
Control and drive system	Microcomputer control, maintenance-free large-torque inverter 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	0.8kW	
Noise	≤65d B (A)	
Power	AC220V 50Hz	
Weight	63.5kg	85kg
Dimensions (L×W×H)	510mm×610mm×405mm	580mm×740mm×800mm

## Rotor Parameters

12×10mL	7105TB	DD5M	12×15mL	7105TB	DD5M
	Max. RPM: 5000r/min Max. RCF: 2600×g Rotor item number: JZZ-008-0229	Optional		Max. RPM: 5000r/min Max. RCF: 2800×g Rotor item number: JZZ-008-0113	Max. RPM: 5000r/min Max. RCF: 2600×g/2800×g Rotor item number: JZZ-008-0113
Fixed-angle Rotor			Fixed-angle Rotor		

7105TB, DD5M						
Swing-out Rotor	Tube Rack					
 Swing-out Rotor Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	 5mL (ordinary tube)	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0046	 5mL (blood collection tube)	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2832×g Rotor item number: JZZ-000-0045	 15mL	Number of centrifuges: 15mL×16 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: JZZ-000-0292
	 15mL	Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0289	 15mL	Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0287	 50mL	Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: JZZ-000-0284
	 50mL	Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0283	 100mL	Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: JZZ-000-0296	 100mL	Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3072×g Rotor item number: JZZ-000-0297

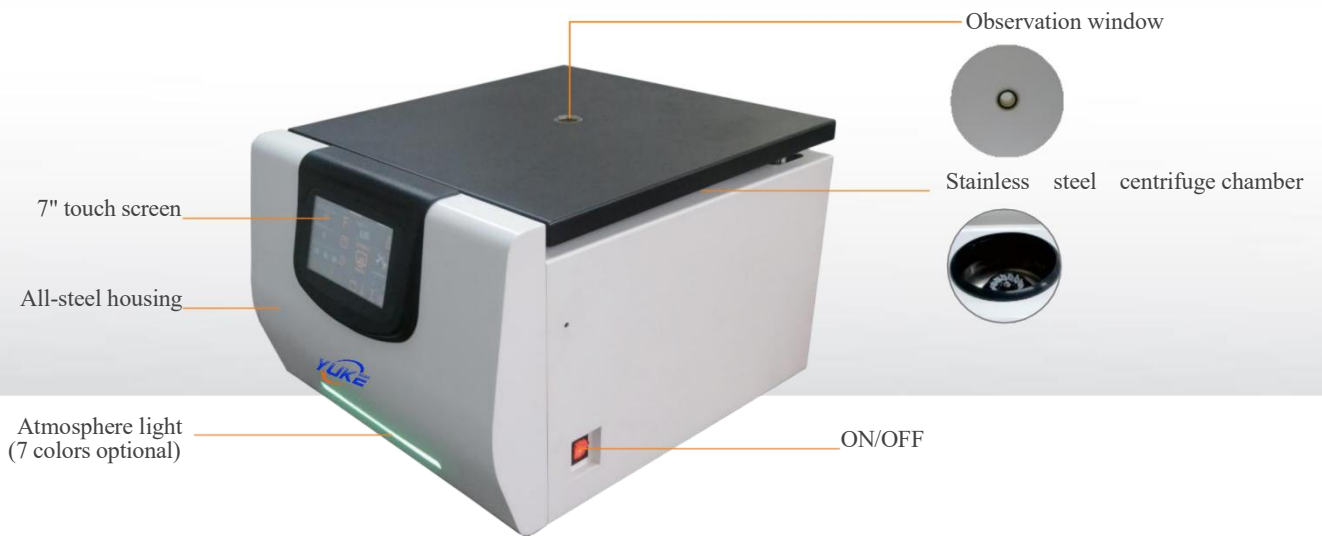
7105TB, DD5M		
Swing-out Rotor	Tube Rack	
 Swing-out Rotor Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: SPZ-000-0277	5mL (blood collection tube) 	Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: JZZ-000-0147
	250mL (flat-bottom) 	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2848×g Rotor item number: SPZ-000-0038
148×5 mL (vacuum blood collection tube)	7105TB	DD5M
 Swing-out Rotor	Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0190	Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0190
6×500mL	7105TB	DD5M
 Swing-out Rotor	N/A	Max. RPM: 3600r/min Max. RCF: 2960×g Rotor item number: SPZ-016-0025 (with hoods) Bucket item number: SPZ-016-0048 (without hoods) Standard hood
4×2×96 holes	7105TB	DD5M
 Microplate Rotor	Max. RPM: 4000r/min Max. RCF: 3008×g Rotor item number: SPZ-002-0181	Max. RPM: 4000r/min Max. RCF: 3000×g Rotor item number: JZZ-000-0145

7105TB, DD5M		
Swing-out Rotor	Tube Rack	
 Swing-out Rotor Max. RPM: 4000r/min Max. RCF: 3024×g Rotor item number: SPZ-000-0277	5mL (blood collection tube) 	Number of centrifuges: 5mL×124 holes Max. RPM: 4000r/min Max. RCF: 3584×g Rotor item number: SPZ-000-0277
	750mL 	Number of centrifuges: 750mL×4 holes Max. RPM: 4000r/min Max. RCF: 3536×g Rotor item number: SPZ-017-0186
4×500mL	7105TB	DD5M
 Swing-out Rotor	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039
2×2×96 holes	7105TB	DD5M
 Microplate Rotor	Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: JZZ-000-0145	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: JZZ-000-0145

# 7105T Benchtop Low Speed Centrifuge

## Major Fields of Application ↘

Favored by our customers, this is one of the best-selling models of Herexi Instrument. Paired with a variety of buckets and adapters, they are ideal for clinical testing and laboratory analysis. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.









## Product Benefits ↘

- 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, and overvoltage. 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 Bluetooth and 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. They can store 99 groups of programs, with parameters modifiable during operation without the need to stop, and current parameters being automatically saved. They can be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.
- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 250mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7105T
Max. capacity	4×250mL
Max. RPM	5500r/min
Max. RCF	4800×g
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 (with local control optional)
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.45kW
Noise	≤65d B (A)
Power	AC220V 50Hz
Weight	40.5kg
Dimensions (L×W×H)	450mm×565mm×365mm

## Rotor Parameters

12×10 mL through-hole rotor	12×15 mL through-hole rotor	76×5mL (vacuum blood collection tube)	4×250mL	2×2×96 holes	48 slots
					
Fixed-angle Rotor	Fixed-angle Rotor	Swing-out Rotor	Swing-out Rotor	Microplate rotor	Cytosmear rotor
Max. RPM: 5500r/min Max. RCF: 3120×g Rotor item number: JZZ-008-0229	Max. RPM: 5500r/min Max. RCF: 3360×g Rotor item number: JZZ-008-0113	Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147	Max. RPM: 4000r/min Max. RCF: 2848×g Rotor item number: SPZ-000-0038	Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: JZZ-000-0145	Max. RPM: 2000r/min Max. RCF: 772×g Rotor item number: JZZ-008-0002

Swing-out Rotor	Tube Rack					
 <p>Swing-out Rotor</p> <p>Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296</p>	 <p>5mL (ordinary tube)</p>	<p>Number of centrifuges: 5mL×48 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2368×g Rotor item number: SPZ-000-0046</p>	 <p>5mL (blood collection tube)</p>	<p>Number of centrifuges: 5mL×48 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2832×g Rotor item number: SPZ-000-0045</p>	 <p>15mL</p>	<p>Number of centrifuges: 15mL×16 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0292</p>
	 <p>15mL</p>	<p>Number of centrifuges: 15mL×24 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0289</p>	 <p>15mL</p>	<p>Number of centrifuges: 15mL×32 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0287</p>	 <p>50mL</p>	<p>Number of centrifuges: 50mL×4 holes</p> <p>Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: SPZ-000-0284</p>
	 <p>50mL</p>	<p>Number of centrifuges: 50mL×8 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283</p>	 <p>100mL</p>	<p>Number of centrifuges: 100mL×4 holes</p> <p>Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296</p>	 <p>100mL</p>	<p>Number of centrifuges: 100mL×8 holes</p> <p>Max. RPM: 4000r/min Max. RCF: 3072×g Rotor item number: SPZ-000-0297</p>

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL

Customizable per customer needs

# 7104T Benchtop Low Speed Centrifuge

## Major Fields of Application ↘

With excellent safety performance, superior quality and high-performance cost ratio, these centrifuges are routine equipment for separating and preparing suspensions. They are basic laboratory centrifugal instruments used in all kinds of laboratories, hospitals at all levels and universities, etc.











## Product Benefits ↘

- 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, and overvoltage. 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.
- There are 10 gears for acceleration/deceleration and two-stage damping for shock absorption, ensuring stable sample operation without resuspension. They can store 99 groups of programs, with parameters modifiable during operation without the need to stop, and current parameters being automatically saved. They can be programmable according to user needs for point control, timing, differential timing, density, and gradient centrifugation, thus meeting diverse experimental requirements.
- Patents owned: Herexi Network Intelligent Control System (Software Copyright Registration No. 9873780), benchtop centrifuge design patent (ZL 2021 30605592.0), centrifuge (ZL 2018 3030691.0).
- These products are supported by certifications including ISO 9001 (2015) and ISO 13485 (2016) and CFDA registration and production qualification.

## Host Parameters

Product Model	7104T
Max. capacity	4×100mL
Max. RPM	4000r/min
Max. RCF	2656×g
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 display
Operation mode	Touch control (with local control optional)
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.2kW
Noise	≤60dB (A)
Power	AC220V 50Hz
Weight	22 kg
Dimensions (L×W×H)	350mm×460mm×280mm

## Rotor Parameters

<p>18×10mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2240×g Rotor item number: JZZ-010-0139</p>	<p>24×10mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2320×g Rotor item number: JZZ-010-0140</p>	<p>12×15mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2304×g Rotor item number: JZZ-010-0135</p>	<p>8×20mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 1824×g Rotor item number: JZZ-010-0137</p>
<p>12×20 mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2304×g Rotor item number: JZZ-010-0138</p>	<p>6×50mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 1936×g Rotor item number: JZZ-010-0141</p>	<p>4×50mL</p>  <p>Swing-out Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2656×g Rotor item number: JZZ-010-0022</p>	<p>4×100mL</p>  <p>Swing-out Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 2464×g Rotor item number: JZZ-010-0044</p>

# RM-12L Ultra Large Capacity Refrigerated Centrifuge

With a capacity of 6x2,400mL, this centrifuge can separate 18 bags of 200mL whole blood or 12 bags of 400mL blood at one time. It is an ideal instrument for sample separation, precipitation, concentration, and preparation, mainly used in fields such as biochemistry, medical and health, food and safety, life science, agriculture and forestry science, animal husbandry science, blood bank, blood center, biological products, and pharmaceutical products. It is a high-tech product that aims to replace imported instruments and be exported in large quantities.



## Main Features ↴

- Mitsubishi PLC, Weinview touch screen and a high-torque variable frequency AC motor are used to ensure the stable operation with low noise and create a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- Touch control mode for displaying both the set parameters and running parameters, with an intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English).
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- The hood made of carbon fiber material with top-notch strength and details, is lightweight, reliable and patented.
- Easy-to-use mechanical locks suitable for various harsh environments (gently close the door, and the locking system will be triggered to lock the door securely).
- 12 levels speed-up and speed-down control; storage of up to 16 sets of user-defined programs; modification of control parameters of the running rotor at any time; display of speed rise and fall curve, centrifugal integral curve, and temperature curve.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	LRM-12L
Max. capacity	6×2400mL
Max. RPM	8000r/min
Max. RCF	14380×g
Speed accuracy	±30r/min (customizable, multiples of 10)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Number of running programs	16
Control and drive system	High torque variable frequency AC motor, microcomputer control
Total power	6.0kW
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤70dB (A)
Weight	450kg
Dimensions (L×W×H)	870mm×1090mm×1010mm

## Rotor Parameters

6×1000mL	12×1000mL	6×2400mL	Hood
			
<p>Cable fiber fixed-angle rotor</p> <p>Max. RPM: 8000r/min Max. RCF: 14380×g Rotor item number: JZZ-014-103-304</p>	<p>Swing-out Rotor</p> <p>Max. RPM: 4200r/min Max. RCF: 5680×g Rotor item number: SPZ-014-0242 Standard carbon fiber hood</p>	<p>Swing-out Rotor</p> <p>Max. RPM: 4200r/min Max. RCF: 6232×g Rotor item number: SPZ-014-0042 Standard carbon fiber hood</p>	<p>Carbon fiber hood</p> <p>The carbon fiber hood is lightweight and has high strength, corrosion and temperature resistance. It is press formed through high-temperature stamping with precise size to perfectly cover the rotor.</p>



# LR6M, LR10M Large Capacity Refrigerated Centrifuges

The centrifuges are widely used in fields such as healthcare (hospitals, CDCs, blood centers, animal husbandry and aquaculture, radioimmunity); research (universities, research institutes, R&D centers, laboratories); production (bioengineering, biopharmaceuticals, genetic engineering, biochemistry, plant extraction, blood preparation, food processing, petrochemical, milk fat separation).




## Main Features ↴


- Mitsubishi PLC, Weinview touch screen and a high-torque variable frequency AC motor are used to ensure the stable operation with low noise and create a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- Touch control mode for displaying both the set parameters and running parameters, with an intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Easy-to-use mechanical locks suitable for various harsh environments (gently close the door, and the locking system will be triggered to lock the door securely).
- 12 levels speed-up and speed-down control; storage of up to 16 sets of user-defined programs; modification of control parameters of the running rotor at any time; display of speed rise and fall curve, centrifugal integral curve, and temperature curve.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.


## Host Parameters

Product Model	LR10M	LR6M
Max. capacity	6×1000mL	6×1000mL
Max. RPM	10000r/min	6000r/min
Max. RCF	18203×g	6399×g
Speed accuracy	±30r/min (customizable, multiples of 10)	
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a	
Temperature control range	-20°C~+40°C	
Temperature control accuracy	±1°C	
Number of running programs	16	
Control and drive system	High torque variable frequency AC motor, microcomputer control	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Rotor recognition	Auto rotor identification (optional)	
Total power	5.7kW	4.0kW
Noise	< 65dB (A)	< 65dB (A)
Weight	280kg	270kg
Dimensions (L×W×H)	710mm×910mm×950mm	710mm×910mm×950mm


## Rotor Parameters

6×250mL	LR6M	LR10M
	Optional	Max. RPM: 10000r/min Max. RCF: 15093×g Rotor item number: JZZ-013-0104 Bio-isolated rotor cover
Fixed-angle Rotor		

6×500mL	LR6M	LR10M
	Max. RPM: 6000r/min Max. RCF: 6399×g Rotor item number: H015-003-093-301 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 11377×g Rotor item number: JZZ-013-0162 Bio-isolated rotor cover
Fixed-angle Rotor		

6×1000mL	LR6M	LR10M
	Optional	Max. RPM: 7000r/min Max. RCF: 11011×g Rotor item number: JZZ-013-0106 Bio-isolated rotor cover
Fixed-angle Rotor		

6×1000mL	LR6M	LR10M
	Optional	Max. RPM: 9000r/min Max. RCF: 18203×g Rotor item number: JZZ-014-103-304
Cable fiber fixed-angle rotor		

6×1000mL	LR6M	LR10M
	Max. RPM: 4200r/min Max. RCF: 5167×g Rotor item number: SPZ-015-0042 Standard hood	Optional
Swing-out Rotor		

# TL5R, TL6R, TL8R Vertical Low Speed Refrigerated Centrifuges

With an experimental throughput of up to 3L (4x750mL), these centrifuges are extraordinarily versatile with 13 sets of optional rotors. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.














## Main Features ↘

- With single-chip microcomputers, self-developed control boards and high-torque variable frequency AC motors, the centrifuge can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; modification of control parameters of the running rotor at any time.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	TL5R	TL6R	TL8R
Max. RPM	5500r/min	6500r/min	8000r/min
Max. RCF	4800×g	4800×g	6460×g
Max. capacity		4×750mL	
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a		
Temperature control range	-20°C~+40°C		
Temperature control accuracy	±1°C		
Speed accuracy	±30r/min (customizable, multiples of 10)		
Number of running programs	20		
Control and drive system	High torque variable frequency AC motor, microcomputer control		
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation		
Noise	≤65dB(A)		
Total power	2.0kW		
Weight	150kg		
Dimensions (L×W×H)	580mm×740mm×800mm		

## Rotor Parameters

12×10mL	TL5R	TL6R	TL8R		
 Fixed-angle Rotor	Optional	Max. RPM: 6500r/min Max. RCF: 4260×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 6460×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover		
12×15mL	TL5R	TL6R	TL8R		
 Fixed-angle Rotor	Max. RPM: 5500r/min Max. RCF: 3380×g Rotor item number: JZZ-008-0113	Max. RPM: 6000r/min Max. RCF: 4030×g Rotor item number: JZZ-008-0113	Max. RPM: 6000r/min Max. RCF: 4030×g Rotor item number: JZZ-008-0113		
TL5R, TL6R, TL8R					
Swing-out Rotor	Tube Rack				
 Swing-out Rotor  Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	5mL (ordinary tube)  Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046	2mL/5mL (vacuum blood collection tube)  Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045	10mL/15mL  Number of centrifuges: 15mL×16 holes Max. RPM: 5000r/min Max. RCF: 4620×g Rotor item number: 15ml SPZ-000-0292 10ml SPZ-000-0294		
	10mL/15mL  Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0289 10ml SPZ-000-0290	10mL/15mL  Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286	50mL  Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283		
	100mL  Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	100mL  Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297			

TL5R, TL6R, TL8R		
Swing-out Rotor	Tube Rack	
 <p>Swing-out Rotor Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274</p>	 2mL/5mL (blood collection tube)	Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147
	 250mL (flat-bottom)	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038
	 250mL (conical-bottom)	Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274

TL5R	TL6R	TL8R
Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0190	Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0190	Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0190
Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039
Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039
Max. RPM: 3600r/min Max. RCF: 2960×g Rotor item number: SPZ-016-0025	Optional	Optional
Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145
Max. RPM: 4000r/min Max. RCF: 3000×g Rotor item number: SPZ-002-0181	Max. RPM: 4000r/min Max. RCF: 3000×g Rotor item number: SPZ-002-0181	Max. RPM: 4000r/min Max. RCF: 3000×g Rotor item number: SPZ-002-0181

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL
500mL	18×5mL, 12×10mL, 8×15mL, 4×50mL, 1×100mL, 1×250mL
750mL	27×5mL, 15×10mL, 12×15mL, 7×50mL, 3×100mL, 1×300mL, 1×500mL

Customizable per customer needs

# HR26M, HR21M, HR20M High Speed Refrigerated Centrifuges








## Main Features








- Mitsubishi PLC, Weinview touch screen and a high-torque variable frequency AC motor are used to ensure the stable operation with low noise and create a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- Touch control mode for displaying both the set parameters and running parameters, with an intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Easy-to-use mechanical locks suitable for various harsh environments (gently close the door, and the locking system will be triggered to lock the door securely).
- 12 levels speed-up and speed-down control; storage of up to 16 sets of user-defined programs; modification of control parameters of the running rotor at any time; display of speed rise and fall curve, centrifugal integral curve, and temperature curve.
- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 1.5mL to 1000mL centrifuge tubes or reagent bottles.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters









Product Model	HR26M	HR21M	HR20M
Max. capacity	4×1000mL	4×1000mL	6×500mL
Max. RPM	25000r/min	21000r/min	20000r/min
Max. RCF	64465×g	53741×g	48745×g
Speed accuracy	±30r/min (customizable, multiples of 10)		
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a		
Temperature control range	-20°C~+40°C		
Temperature control accuracy	±1°C		
Number of running programs	16		
Control and drive system	High torque variable frequency AC motor, microcomputer control		
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation		
Rotor recognition	Auto rotor identification (optional)		
Noise	≤65dB(A)		
Total power	4.0kW	4.0kW	4.0kW
Weight	260kg	240kg	240kg
Dimensions (L×W×H)	710mm×910mm×950mm	710mm×910mm×950mm	

## Rotor Parameters

	HR26M	HR21M	HR20M
<b>24x1.5/2.0mL</b>  Fixed-angle Rotor	Max. RPM: 25000r/min Max. RCF: 58695×g Rotor item number: JZZ-012-0269 Bio-isolated rotor cover Titanium alloy rotor	Optional	Optional
<b>30×1.5mL</b>  Fixed-angle Rotor	Max. RPM: 23000r/min Max. RCF: 64465×g Rotor item number: JZZ-012-0110 Bio-isolated rotor cover	Max. RPM: 21000r/min Max. RCF: 53741×g Rotor item number: JZZ-012-0110 Bio-isolated rotor cover	Max. RPM: 20000r/min Max. RCF: 48745×g Rotor item number: JZZ-012-0110 Bio-isolated rotor cover
<b>16×10 mL</b>  Fixed-angle Rotor	Max. RPM: 21000r/min Max. RCF: 48811×g Rotor item number: JZZ-012-0094 Bio-isolated rotor cover	Max. RPM: 21000r/min Max. RCF: 48811×g Rotor item number: JZZ-012-0094 Bio-isolated rotor cover	Max. RPM: 20000r/min Max. RCF: 44272×g Rotor item number: JZZ-012-0094 Bio-isolated rotor cover
<b>18×10mL (titanium alloy)</b>  Fixed-angle Rotor	Max. RPM: 23000r/min Max. RCF: 58551×g Rotor item number: JZZ-012-0271 Bio-isolated rotor cover	Optional	Optional
<b>20×15mL (conical-bottom)</b>  Fixed-angle Rotor	Max. RPM: 14000r/min Max. RCF: 26295×g Rotor item number: JZZ-012-0075 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 26295×g Rotor item number: JZZ-012-0075 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 26295×g Rotor item number: JZZ-012-0075 Bio-isolated rotor cover

6×50mL (conical-bottom)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 20000r/min Max. RCF: 41589×g Rotor item number: JZZ-012-0041 Bio-isolated rotor cover	Max. RPM: 20000r/min Max. RCF: 41589×g Rotor item number: JZZ-012-0041 Bio-isolated rotor cover	Max. RPM: 18000r/min Max. RCF: 33687×g Rotor item number: JZZ-012-0041 Bio-isolated rotor cover
6×50mL (round-bottom)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 21000r/min Max. RCF: 46346×g Rotor item number: JZZ-012-0262 Bio-isolated rotor cover	Max. RPM: 21000r/min Max. RCF: 46346×g Rotor item number: JZZ-012-0262 Bio-isolated rotor cover	Max. RPM: 20000r/min Max. RCF: 42036×g Rotor item number: JZZ-012-0262 Bio-isolated rotor cover
8×50mL (round-bottom)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 16000r/min Max. RCF: 28048×g Rotor item number: JZZ-012-0097 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 28048×g Rotor item number: JZZ-012-0097 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 28048×g Rotor item number: JZZ-012-0097 Bio-isolated rotor cover
8×50mL (round-bottom) (titanium alloy)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 21000r/min Max. RCF: 48318×g Rotor item number: JZZ-012-0097 Bio-isolated rotor cover	Optional	Optional
8×50mL (conical-bottom)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 16000r/min Max. RCF: 30052×g Rotor item number: JZZ-012-0098 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 30052×g Rotor item number: JZZ-012-0098 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 30052×g Rotor item number: JZZ-012-0098 Bio-isolated rotor cover
8×100mL (round-bottom)	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 14000r/min Max. RCF: 25637×g Rotor item number: JZZ-012-0099 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 25637×g Rotor item number: JZZ-012-0099 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 18837×g Rotor item number: JZZ-012-0099 Bio-isolated rotor cover
6×250mL	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 14000r/min Max. RCF: 29583×g Rotor item number: JZZ-012-0102 Bio-isolated rotor cover	Max. RPM: 13000r/min Max. RCF: 25508×g Rotor item number: JZZ-012-0102 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 21734×g Rotor item number: JZZ-012-0102 Bio-isolated rotor cover
6×500mL	HR26M	HR21M	HR20M
 <p>Fixed-angle Rotor</p>	Max. RPM: 8000r/min Max. RCF: 11377×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 11377×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 11377×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover



6×500mL (imported bottle)		Fixed-angle Rotor
6×500mL (imported bottle)		Cable fiber fixed-angle rotor
4×1000mL		Fixed-angle Rotor
1000mL		Continuous flow rotor
3000mL		Continuous flow rotor
6×50mL		Swing-out Rotor
4×750mL		Swing-out Rotor
4×2×96 holes		Microplate rotor

HR26M	HR21M	HR20M
Max. RPM: 10000r/min Max. RCF: 17776×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover	Max. RPM: 10000r/min Max. RCF: 17776×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover	Max. RPM: 10000r/min Max. RCF: 17776×g Rotor item number: JZZ-012-0105 Bio-isolated rotor cover
HR26M	HR21M	HR20M
Max. RPM: 12000r/min Max. RCF: 25597×g Rotor item number: JZZ-012-073 Bio-isolated rotor cover	Max. RPM: 11000r/min Max. RCF: 21509×g Rotor item number: JZZ-012-073 Bio-isolated rotor cover	Optional
HR26M	HR21M	HR20M
Max. RPM: 8000r/min Max. RCF: 12594×g Rotor item number: JZZ-012-0040 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 12594×g Rotor item number: JZZ-012-0040 Bio-isolated rotor cover	Optional
HR26M	HR21M	HR20M
Max. RPM: 14000r/min Max. RCF: 21475×g Rotor item number: JZZ-033-0249	Max. RPM: 14000r/min Max. RCF: 21475×g Rotor item number: JZZ-033-0249	Max. RPM: 14000r/min Max. RCF: 21475×g Rotor item number: JZZ-033-0249
HR26M	HR21M	HR20M
Max. RPM: 8000r/min Max. RCF: 9445×g Rotor item number: JZZ-033-0259	Max. RPM: 8000r/min Max. RCF: 9445×g Rotor item number: JZZ-033-0259	Max. RPM: 8000r/min Max. RCF: 9445×g Rotor item number: JZZ-033-0259
HR26M	HR21M	HR20M
Optional	Max. RPM: 10000r/min Max. RCF: 15680×g Rotor item number: With wind hood	Max. RPM: 10000r/min Max. RCF: 15680×g Rotor item number: With wind hood
HR26M	HR21M	HR20M
Max. RPM: 4000r/min Max. RCF: 3536×g Rotor item number: SPZ-012-0240	Max. RPM: 4000r/min Max. RCF: 3536×g Rotor item number: SPZ-012-0240	Optional
HR26M	HR21M	HR20M
Max. RPM: 4000r/min Max. RCF: 3166×g Rotor item number: SPZ-002-0241	Max. RPM: 4000r/min Max. RCF: 3166×g Rotor item number: SPZ-002-0241	Optional

# HR/T20MM Vertical High Speed Refrigerated Centrifuge

With an extraordinary experimental throughput of up to 4x750mL, HR/T20MM is an ideal floor-standing centrifuge with a high speed and high throughput as well as extraordinary versatility. It is an ideal instrument for sample separation, precipitation, concentration, and preparation, mainly used in fields such as biochemistry, medical and health, food and safety, life science, agriculture and forestry science, animal husbandry science, blood bank, blood center, biological products, and pharmaceutical products.

In 2016, HR/T20MM won the title of Excellent China-made Instruments granted by [www.instrument.com.cn](http://www.instrument.com.cn).



## Main Features









- With single-chip microcomputers, self-developed control boards and high-torque variable frequency AC motors, the centrifuge can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, touch screen keys, special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; modification of control parameters of the running rotor at any time.

- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 1.5 mL to 750 mL centrifuge tubes or reagent bottles, and are able to centrifuge all types of MTP microplates, PCR plates, cell culture plates, and deep well plates.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters






Product Model	HR/T20MM
Max. capacity	4×750mL
Max. RPM	21000r/min
Max. RCF	31750×g
Standard rotor	12x1.5/2.0mL
Speed accuracy	±30r/min (customizable, multiples of 10)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Number of running programs	20
Control and drive system	High torque variable frequency AC motor, microcomputer control
Total power	2.0kW
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤65dB(A)
Rotor recognition	Auto rotor identification (optional)
Weight	150kg
Dimensions (L×W×H)	580mm×740mm×800mm

## Rotor Parameters

12×1.5mL/2.0mL	24×1.5mL/2.0mL	12×10mL	8×15 mL (conical-bottom)
 <p>Fixed-angle Rotor</p> <p>Max. RPM: 21000r/min Max. RCF: 31750×g Rotor item number: JZZ-002-0082</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-002-0269 Bio-isolated rotor cover</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 15000r/min Max. RCF: 22720×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-002-0080 Bio-isolated rotor cover</p>
6×50mL (conical-bottom)	8×50mL (conical-bottom)	8×50mL (round-bottom)	6×100mL
 <p>Fixed-angle Rotor</p> <p>Max. RPM: 12000r/min Max. RCF: 17420×g Rotor item number: JZZ-002-0084 Bio-isolated rotor cover Optional conical-to-round bottom adapter</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 11000r/min Max. RCF: 14880×g Rotor item number: JZZ-002-0090 Bio-isolated rotor cover</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 11000r/min Max. RCF: 14880×g Rotor item number: JZZ-002-0086 Bio-isolated rotor cover</p>	 <p>Fixed-angle Rotor</p> <p>Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-002-0087 Bio-isolated rotor cover</p>

6×250mL	4×500mL	4×750mL
		
<b>Fixed-angle Rotor</b>	<b>Swing-out Rotor</b>	<b>Swing-out Rotor</b>
Max. RPM: 8000r/min Max. RCF: 10170×g Rotor item number: JZZ-002-0258 Bio-isolated rotor cover	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	Max. RPM: 4000r/min Max. RCF: 3530×g Rotor item number: SPZ-017-0186

Swing-out Rotor	Tube Rack					
 <b>Swing-out Rotor</b>  Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	 5mL (ordinary tube)	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046	 .5mL (blood collection tube)	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045	 10mL/15mL	Number of centrifuges: 15mL×16 holes Max. RPM: 5000r/min Max. RCF: 4620×g Rotor item number: 15ml SPZ-000-0292 10ml SPZ-018-0294
	 10mL/15mL	Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0289 10ml SPZ-000-0290	 10mL/15mL	Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286	 50mL	Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4620×g Rotor item number: SPZ-000-0284
	 50mL	Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283	 100mL	Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	 100mL	Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297

Swing-out Rotor	Tube Rack	2×2×96 holes	4×2×96 holes
 <b>Swing-out Rotor</b>  Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274	 250mL (flat-bottom)	 <b>Microplate rotor</b>  Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	 <b>Microplate rotor</b>  Max. RPM: 4000r/min Max. RCF: 3000×g Rotor item number: SPZ-002-0181
	 250mL (conical-bottom)		

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL

Customizable per customer needs

# 3H Series Intelligent High Speed Refrigerated Centrifuges

With a variety of optional fix-angle rotors and swing-out rotors and up to 100 sets of custom programs, the 3H series are classic Herexi centrifuges that are extraordinarily versatile. They are used for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular fractionation, and environmental sample processing.

The series won the Silver Award for Independent Innovation granted by the China Instrument Manufacturer Association in 2010.



## Main Features




- With single-chip microcomputers, self-developed control boards and high-torque AC/DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Exquisite industrial appearance design with a novel and artistic diamond shape, more suitable for placement in the corner, saving the limited bench space of labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 100 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).

- Multi-specification forged aerospace aluminum rotors (fixed-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, and cell culture plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM	24000r/min	20600r/min	16800r/min	12000r/min
Max. RCF	41470×g	30554×g	22500×g	13220×g
Standard rotor	12x1.5/2.0mL (titanium alloy)	12x1.5/2.0mL	12x1.5/2.0mL	24x1.5/2.0mL
Max. capacity	4×100mL			
Speed accuracy	±30r/min (customizable, multiples of 10)			
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a			
Control and drive system	High torque AC/DC brushless motor, microcomputer control			
Temperature control range	-20°C~+40°C			
Temperature control	±1°C			
Number of running	100			
Total power	1.5kW			
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation			
Noise	≤65dB(A)			
Rotor recognition	Auto rotor identification (optional)			
Weight	75kg			
Dimensions (L×W×H)	710mm×630mm×370mm			

## Rotor Parameters

12x1.5/2.0mL	3H24RI	3H20RI	3H16RI	3H12RI
 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 24000r/min Max. RCF: 41470×g Rotor item number: JZZ-029-0225 Titanium alloy rotor	Max. RPM: 20600r/min Max. RCF: 30554×g Rotor item number: JZZ-000-0052	Max. RPM: 16800r/min Max. RCF: 20320×g Rotor item number: JZZ-000-0052	Max. RPM: 12000r/min Max. RCF: 10360×g Rotor item number: JZZ-000-0052
12×1.5mL	3H24RI	3H20RI	3H16RI	3H12RI
 <p><b>Fixed-angle Rotor</b></p>	Optional	Max. RPM: 20800r/min Max. RCF: 31150×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	Max. RPM: 16800r/min Max. RCF: 20320×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 10360×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover
24x1.5/2.0mL	3H24RI	3H20RI	3H16RI	3H12RI
 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	Max. RPM: 11500r/min Max. RCF: 13220×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover



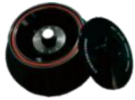
48×1.5mL



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166	Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166	Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166	Optional

12×5mL



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 15000r/min Max. RCF: 17320×g Rotor item number: JZZ-000-0058	Max. RPM: 15000r/min Max. RCF: 17320×g Rotor item number: JZZ-000-0058	Max. RPM: 14000r/min Max. RCF: 15090×g Rotor item number: JZZ-000-0058	Max. RPM: 12000r/min Max. RCF: 11080×g Rotor item number: JZZ-000-0058

12×10mL



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 15000r/min Max. RCF: 22720×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 19790×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover	Max. RPM: 11000r/min Max. RCF: 12220×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover

12×15mL/10mL (through-holes)



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226

8×15mL (conical-bottom)



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover	Optional

8×15mL (round-bottom)



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover	Optional

12×15mL (conical-bottom)



Fixed-angle Rotor

3H24RI	3H20RI	3H16RI	3H12RI
Max. RPM: 14000r/min Max. RCF: 23120×g Rotor item number: JZZ-001-0011 Bio-isolated rotor cover	Max. RPM: 13000r/min Max. RCF: 19940×g Rotor item number: JZZ-001-0011 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 16990×g Rotor item number: JZZ-001-0011 Bio-isolated rotor cover	Optional

<p>6×50mL</p>	<p>3H24RI</p> <p>Max. RPM: 12000r/min Max. RCF: 17420×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter</p>	<p>3H20RI</p> <p>Max. RPM: 12000r/min Max. RCF: 17420×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter</p>	<p>3H16RI</p> <p>Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter</p>	<p>3H12RI</p> <p>Max. RPM: 10000r/min Max. RCF: 12100×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter</p>
<p>6×50mL (through-holes)</p>	<p>3H24RI</p> <p>Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112</p>	<p>3H20RI</p> <p>Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112</p>	<p>3H16RI</p> <p>Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112</p>	<p>3H12RI</p> <p>Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112</p>
<p>4×100mL (round-bottom)</p>	<p>3H24RI</p> <p>Max. RPM: 11000r/min Max. RCF: 13790×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover</p>	<p>3H20RI</p> <p>Max. RPM: 10000r/min Max. RCF: 11400×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover</p>	<p>3H16RI</p> <p>Max. RPM: 9000r/min Max. RCF: 9230×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover</p>	<p>3H12RI</p> <p>Max. RPM: 8000r/min Max. RCF: 7290×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover</p>
<p>4×50mL</p>	<p>3H24RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2650×g Rotor item number: SPZ-000-0018</p>	<p>3H20RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2650×g Rotor item number: SPZ-000-0018</p>	<p>3H16RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2650×g Rotor item number: SPZ-000-0018</p>	<p>3H12RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2650×g Rotor item number: SPZ-000-0018</p>
<p>4×100mL</p>	<p>3H24RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168</p>	<p>3H20RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168</p>	<p>3H16RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168</p>	<p>3H12RI</p> <p>Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168</p>

# TGL20MW Benchtop Large Capacity High Speed Refrigerated Centrifuge

TGL20MW has an extraordinary experimental throughput. With an experimental throughput as high as 4×500mL, they are ideal devices for high-throughput applications, with extraordinary versatility. It is an ideal instrument for sample separation, precipitation, concentration, and preparation, mainly used in fields such as biochemistry, medical and health, food and safety, life science, agriculture and forestry science, animal husbandry science, blood bank, blood center, biological products, and pharmaceutical products. It is a high-tech product that aims to replace imported instruments and be exported in large quantities.











## Main Features ↘

- With single-chip microcomputers, self-developed control boards and high-torque variable frequency AC motors, the centrifuge can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 0.2mL to 250mL centrifuge tubes or reagent bottles; able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.









## Host Parameters




Product Model	TGL20MW
Max. capacity	4×500mL
Max. RPM	20600r/min
Max. RCF	30550×g
Speed accuracy	±30r/min (customizable, multiples of 10)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Number of running programs	20
Control and drive system	High torque variable frequency AC motor, microcomputer control
Total power	1.8kW
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤65dB(A)
Rotor recognition	Auto rotor identification (optional)
Weight	110kg
Dimensions (L×W×H)	810mm×640mm×440mm

## Rotor Parameters

<p>12×1.5mL/2.0mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 20600r/min Max. RCF: 30550×g Rotor item number: JZZ-002-0082</p>	<p>24×1.5mL/2.0mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 16000r/min Max. RCF: 25600×g Rotor item number: JZZ-002-0269 Bio-isolated rotor cover</p>	<p>10×5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 16000r/min Max. RCF: 18680×g Rotor item number: JZZ-002-0091 Bio-isolated rotor cover</p>	<p>12×10mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 14000r/min Max. RCF: 19790×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover</p>
<p>12×15mL (conical-bottom)</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 12000r/min Max. RCF: 17712×g Rotor item number: JZZ-002-0003 Bio-isolated rotor cover</p>	<p>6×50mL (conical-bottom)</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 12000r/min Max. RCF: 17420×g Rotor item number: JZZ-002-0084 Bio-isolated rotor cover Optional conical-to-round adapter</p>	<p>8×50mL (conical-bottom)</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 11000r/min Max. RCF: 14880×g Rotor item number: JZZ-002-0090 Bio-isolated rotor cover Optional conical-to-round adapter</p>	<p>48×1.5mL</p>  <p>Fixed-angle Rotor</p> <p>Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-002-0167 Bio-isolated rotor cover</p>

6×100mL	6×250mL	4×500mL	2×2×96 holes
 <b>Fixed-angle Rotor</b>  Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-002-0087 Bio-isolated rotor cover	 <b>Fixed-angle Rotor</b>  Max. RPM: 8000r/min Max. RCF: 10170×g Rotor item number: JZZ-002-0258 Bio-isolated rotor cover	 <b>Swing-out Rotor</b>  Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	 <b>Microplate rotor</b>  Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145

Swing-out Rotor	Tube Rack					
 <b>Swing-out Rotor</b>  Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	5mL (ordinary tube)  Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046	5mL (blood collection tube)  Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045	10mL/15mL  Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286	50mL  Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283	100mL  Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	
	50mL  Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4620×g Rotor item number: SPZ-000-0284	100mL  Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297				

Swing-out Rotor	Tube Rack				
 <b>Swing-out Rotor</b>  Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274	5mL (blood collection tube)  Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147	250mL (flat-bottom)  Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038	250mL (conical-bottom)  Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274		

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL

Customizable per customer needs

# HR/T16M, HR/T20M Benchtop High Speed Refrigerated Centrifuges

These are ideal high speed refrigerated centrifuges for insufficient budgets. They are ideal instruments for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular fractionation, environmental sample processing, and clinical test sample processing in the fields of biochemistry, health care, food safety, life science, agriculture and forestry, animal husbandry, blood center, blood bank, biological products, pharmaceutical products, etc.









## Main Features







- With single-chip microcomputers, self-developed control boards and high-torque AC/DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, and standby cooling function to maintain the set temperature in the standby state.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, securing optimal centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Exquisite industrial appearance design with a novel and artistic diamond shape, more suitable for placement in the corner, saving the limited bench space of labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	HR/T16M	HR/T20M
Max. RPM	16000r/min	20000r/min
Max. RCF	22500×g	28800×g
Max. capacity	4×100mL	
Standard rotor	12x1.5/2.0mL	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a	
Control and drive system	High torque AC/DC brushless variable frequency motor, microcomputer control	
Temperature control range	-20°C~+40°C	
Temperature control accuracy	±1°C	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Noise	≤65dB(A)	
Power	1.5kW	
Total power	AC220V 50Hz	
Weight	73kg	
Dimensions (L×W×H)	710mm×630mm×370mm	

## Rotor Parameters

12×1.5mL	HR/T16M	HR/T20M	12×1.5mL/2.0mL	HR/T16M	HR/T20M
 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 16000r/min Max. RCF: 18430×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	Max. RPM: 20000r/min Max. RCF: 28800×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 16000r/min Max. RCF: 18430×g Rotor item number: JZZ-000-0052	Max. RPM: 20000r/min Max. RCF: 28800×g Rotor item number: JZZ-000-0052
24×1.5mL/2.0mL	HR/T16M	HR/T20M	10×5mL	HR/T16M	HR/T20M
 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 13000r/min Max. RCF: 12330×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover	Max. RPM: 16000r/min Max. RCF: 18680×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover
48×1.5mL	HR/T16M	HR/T20M	12×10mL	HR/T16M	HR/T20M
 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover	Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover	 <p><b>Fixed-angle Rotor</b></p>	Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover

12×10 mL (through-holes)	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: JZZ-000-0226
8×15 mL (conical-bottom)	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069
6×50 mL (through-holes)	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112
8×15 mL (round-bottom)	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070
6×50 mL (conical-bottom)	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round bottom adapter bottom	Max. RPM: 12000r/min Max. RCF: 17420×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round bottom adapter bottom
4×100 mL	HR/T16M	HR/T20M
 <b>Fixed-angle Rotor</b>	Max. RPM: 9000r/min Max. RCF: 9230×g Rotor item number: JZZ-000-0074	Max. RPM: 9000r/min Max. RCF: 9230×g Rotor item number: JZZ-000-0074

# HR/T16MM, TG16MW Benchtop High Speed Microcentrifuges

With a delicate and compact design, these microcentrifuges can be paired with PCR 8-tube strips for rapid precipitation and separation of DNA, RNA, protein and virus. They are commonly used for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular component separation, environmental sample processing, clinical trial sample processing, etc.












## Main Features ↘

- With single-chip microcomputers, self-developed control boards, high-torque AC brushless variable frequency motors and the fastest time of 25s in speed up and down, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, and standby cooling function to maintain the set temperature in the standby state (suitable for HR/T16MM).
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- One of the smallest high-speed centrifuges in China, saving benchtop space in laboratories.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Forged aerospace aluminum rotors, suitable for centrifuge tubes of 0.2mL to 2.0mL, paired with PCR 8-tube strips.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	HR/T16MM	TG16MW
Max. capacity	48x1.5mL/2.0mL	12×10mL
Max. RPM	16500r/min	16500r/min
Max. RCF	22500×g	19600×g
Speed accuracy	±30r/min (customizable, multiples of 10)	±30r/min (customizable, multiples of 10)
Control and drive system	High torque AC brushless variable frequency motor, microcomputer control	High torque AC brushless variable frequency motor, microcomputer control
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a	No refrigeration
Temperature control range	-20°C~+40°C	
Temperature control accuracy	±1°C	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	1.5kW	0.35kW
Noise	≤65dB(A)	≤65dB(A)
Power	AC220V 50Hz	AC220V 50Hz
Weight	48kg	18kg
Dimensions (L×W×H)	350mm×680mm×300mm	260mm×380mm×310mm

## Rotor Parameters

12×1.5mL	HR/T16MM	TG16MW	12×1.5mL/2.0mL	HR/T16MM	TG16MW			
 Fixed-angle Rotor	Max. RPM: 16500r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	Max. RPM: 16500r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0276 Bio-isolated rotor cover	 Fixed-angle Rotor	Max. RPM: 16500r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0227	Max. RPM: 16500r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0227			
24×1.5mL/2.0mL	HR/T16MM	TG16MW	48×1.5mL	HR/T16MM	TG16MW			
 Fixed-angle Rotor	Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover	 Fixed-angle Rotor	Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover	N/A			
10×5mL	HR/T16MM	TG16MW	12×5mL	HR/T16MM	TG16MW			
 Fixed-angle Rotor	Max. RPM: 14000r/min Max. RCF: 14300×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover	Max. RPM: 14000r/min Max. RCF: 14300×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover	 Fixed-angle Rotor	Max. RPM: 13500r/min Max. RCF: 14030×g Rotor item number: JZZ-000-0058	Max. RPM: 13500r/min Max. RCF: 14030×g Rotor item number: JZZ-000-0058			
8×7mL	HR/T16MM	TG16MW	12×10mL	HR/T16MM	TG16MW	4×8×0.2mL	HR/T16MM	TG16MW
 Fixed-angle Rotor	N/A	Max. RPM: 14000r/min Max. RCF: 14110×g Rotor item number: JZZ-000-0064 Bio-isolated rotor cover	 Fixed-angle Rotor	N/A	Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover	 PCR 8-strip tube	N/A	Max. RPM: 13000r/min Max. RCF: 13180×g Rotor item number: JZZ-000-0230

# H/T16MM, H/T18MM, H/T20MM High Speed Centrifuges

These large-capacity centrifuges (50mL) can centrifugate samples at a high speed ( $\geq 16500\text{r/min}$ ). Paired with 13 types of rotors and a variety of adapters, these versatile instruments meet the diversified needs of customers. Among the rotors, the 6×50mL fixed-angle rotors have been widely used in various fields.








## Main Features

- With single-chip microcomputers, self-developed control boards and high-torque DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- A wide voltage range design of 100V-230V improves the adaptability of the centrifuge to voltage (optional).
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- 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, and cell culture plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	H/T16MM	H/T18MM	H/T20MM
Max. RPM	16500r/min	18500r/min	20000r/min
Max. RCF	19600×g	24640×g	28800×g
Max. capacity	4×100mL		
Speed accuracy	±30r/min (customizable, multiples of 10)		
Control and drive system	High torque AC brushless motor, microcomputer control		
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation		
Noise	≤60dB		
Power	AC220V 50Hz		
Total power	0.5kW		
Weight	35kg		
Dimensions (L×W×H)	500mm×470mm×330mm		

## Rotor Parameters

	H/T16MM	H/T18MM	H/T20MM
<p>12x1.5/2.0mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 16500r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0052</p>	<p>Max. RPM: 18500r/min Max. RCF: 24640×g Rotor item number: JZZ-000-0052</p>	<p>Max. RPM: 20000r/min Max. RCF: 28800×g Rotor item number: JZZ-000-0052</p>
<p>24×1.5mL/2.0mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 14000r/min Max. RCF: 19600×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover</p>	<p>Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover</p>	<p>Max. RPM: 15000r/min Max. RCF: 22500×g Rotor item number: JZZ-000-0268 Bio-isolated rotor cover</p>
<p>48x1.5mL/2.0mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover</p>	<p>Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover</p>	<p>Max. RPM: 13000r/min Max. RCF: 18750×g Rotor item number: JZZ-000-0166 Bio-isolated rotor cover</p>
<p>10×5mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 14000r/min Max. RCF: 14300×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover</p>	<p>Max. RPM: 14000r/min Max. RCF: 14300×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover</p>	<p>Max. RPM: 14000r/min Max. RCF: 14300×g Rotor item number: JZZ-000-0066 Bio-isolated rotor cover</p>
<p>12×10mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover</p>	<p>Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover</p>	<p>Max. RPM: 12000r/min Max. RCF: 14540×g Rotor item number: JZZ-000-0067 Bio-isolated rotor cover</p>

8×15 mL (conical-bottom)	 Fixed-angle Rotor
8×15 mL (round-bottom)	 Fixed-angle Rotor
6×50 mL (conical-bottom)	 Fixed-angle Rotor
6×50 mL (through-holes)	 Fixed-angle Rotor
4×100 mL (round-bottom)	 Fixed-angle Rotor
4×100 mL	 Swing-out Rotor

H/T16MM	H/T18MM	H/T20MM
Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15840×g Rotor item number: JZZ-000-0069 Bio-isolated rotor cover
H/T16MM	H/T18MM	H/T20MM
Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover	Max. RPM: 12000r/min Max. RCF: 15400×g Rotor item number: JZZ-000-0070 Bio-isolated rotor cover
H/T16MM	H/T18MM	H/T20MM
Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter	Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter	Max. RPM: 11000r/min Max. RCF: 14640×g Rotor item number: JZZ-000-0072 Bio-isolated rotor cover Optional conical-to-round adapter
H/T16MM	H/T18MM	H/T20MM
Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112	Max. RPM: 6000r/min Max. RCF: 3670×g Rotor item number: JZZ-000-0112
H/T16MM	H/T18MM	H/T20MM
Max. RPM: 8000r/min Max. RCF: 7296×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 7296×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 7296×g Rotor item number: JZZ-000-0074 Bio-isolated rotor cover
H/T16MM	H/T18MM	H/T20MM
Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168	Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168	Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-001-0168

# TDL5M, TDL6M, TDL8M Benchtop Low Speed Refrigerated Centrifuges

Extraordinary experimental throughput and ergonomic design. With an experimental throughput as high as 4×500mL, they are ideal devices for benchtop low-speed refrigerated high-throughput applications, with extraordinary versatility. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.



## Main Features


- With single-chip microcomputers, self-developed control boards and high-torque AC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- The products utilize imported fluorine-free refrigerating compressor units and eco-friendly refrigerant R404a, with a wide temperature control range: -20°C to +40°C, which can be set during the centrifuge's operation, pre-cooling function that can quickly cool down to the set temperature, standby cooling function to maintain the set temperature in the standby state, and heating and defrosting function.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Stainless steel centrifugal chamber equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.


- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 500mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters







Product Model	TDL5M	TDL6M	TDL8M
Max. RPM	5500r/min	6500r/min	8000r/min
Max. RCF	4800×g	4800×g	6460×g
Max. capacity	4×500mL		
Refrigeration system	Imported fluorine-free refrigeration compressor unit		
Temperature control range	-20°C~+40°C		
Temperature control accuracy	±1°C		
Speed accuracy	±30r/min (customizable, multiples of 10)		
Number of running programs	20		
Total power	1.8kW		
Control and drive system	High torque AC brushless motor, microcomputer control		
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation		
Noise	≤65dB(A)		
Weight	110kg		
Dimensions (L×W×H)	760mm×630mm×400mm		

## Rotor Parameters

12×10mL	TDL5M	TDL6M	TDL8M
 <p>Fixed-angle Rotor</p>	Optional	Max. RPM: 6500r/min Max. RCF: 4260×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover	Max. RPM: 8000r/min Max. RCF: 6460×g Rotor item number: JZZ-002-0083 Bio-isolated rotor cover

12×15mL (through-holes)	TDL5M	TDL6M	TDL8M
 <p>Fixed-angle Rotor</p>	Max. RPM: 5500r/min Max. RCF: 3380×g Rotor item number: JZZ-008-0113	Max. RPM: 6000r/min Max. RCF: 4030×g Rotor item number: JZZ-008-0113	Max. RPM: 6000r/min Max. RCF: 4030×g Rotor item number: JZZ-008-0113

TDL5M, TDL6M, TDL8M						
Swing-out Rotor	Tube Rack					
 <p>Swing-out Rotor</p> <p>Max. RPM: 5000r/min                      Max. RCF: 4800×g                      Rotor item number:                      SPZ-000-0296</p>	5mL (ordinary tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046	5mL (blood collection tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045	10mL/15mL 	Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0289 10ml SPZ-000-0290
	10mL/15mL 	Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286	50mL 	Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4620×g Rotor item number: SPZ-000-0284	50mL 	Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283
	100mL 	Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	100mL 	Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297		

TDL5M, TDL6M, TDL8M						
Swing-out Rotor	Tube Rack					
 <p>Swing-out Rotor</p> <p>Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274</p>	5mL (blood collection)		250mL (flat-bottom)		250mL (conical-bottom)	
		Number of centrifuges: 5mL×76 holes Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147		Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038		Number of centrifuges: 250mL×4 holes Max. RPM: 4000r/min Max. RCF: 3390×g Rotor item number: SPZ-000-0274
4×500mL	TDL5M		TDL6M		TDL8M	
 <p>Swing-out Rotor</p>	Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039		Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039		Max. RPM: 4000r/min Max. RCF: 3360×g Rotor item number: SPZ-000-0039	
2×2×96 holes	TDL5M		TDL6M		TDL8M	
 <p>Microplate rotor</p>	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145		Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145		Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	
Tube Rack	Adapter					
10mL	1×1.5/2mL, 1×5mL					
15mL	1×1.5/2mL, 1×5mL, 1×10mL					
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL					
100mL	3×1.5/2mL, 4×5mL, 1×50mL					
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL					
500mL	18×5mL, 12×10mL, 8×15mL, 4×50mL, 1×100mL, 1×250mL					
Customizable per customer needs						

# TD6, TDZ6-WS Benchtop Low Speed Multi-rack Centrifuges

Favored by our customers, this is one of the best-selling models of Herexi Instrument. Paired with a variety of buckets and adapters, they are ideal for clinical testing and laboratory analysis. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.



## Main Features















- With single-chip microcomputers, self-developed control boards and high-torque DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- A wide voltage range design of 100V-230V improves the adaptability of the centrifuge to voltage (optional).
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).

- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 250mL ( $\leq 100\text{mL}$  for TDZ6-WS) centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	TD6	TDZ6-WS
Max. capacity	4×250mL	4×100mL
Max. RPM	6000r/min	
Max. RCF	4800×g	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Control and drive system	High torque AC brushless motor, microcomputer control	
Total power	0.5kW	
Noise	≤65dB(A)	
Power	AC220V 50Hz	
Weight	35kg	
Dimensions (L×W×H)	600mm×540mm×360mm	

## Rotor Parameters

12×10mL/15mL	TD6	TDZ6-WS	76×2mL/5mL (vacuum blood collection tube)	TD6	TDZ6-WS	
 Fixed-angle Rotor	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: 10ml JZZ-008-0229 15ml JZZ-008-0113	Max. RPM: 6000r/min Max. RCF: 3740×g Rotor item number: 10ml JZZ-008-0229 15ml JZZ-008-0113	 Swing-out Rotor	Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147	Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147	
TD6, TDZ6-WS						
Swing-out Rotor		Tube Rack				
 Swing-out Rotor  Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	5mL (ordinary tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046	5mL (blood collection tube) 	Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045	10mL/15mL 	Number of centrifuges: 15mL×16 holes Max. RPM: 5000r/min Max. RCF: 4625×g Rotor item number: 15ml SPZ-000-0292 10ml SPZ-018-0294
	10mL/15mL 	Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0289 10ml SPZ-000-0290	10mL/15mL 	Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286	50mL 	Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4600×g Rotor item number: SPZ-000-0284
	50mL 	Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283	100mL 	Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296	100mL 	Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297 <b>Applicable to TD6</b>
4x250mL (flat-bottom)	TD6	TDZ6-WS	2×2×96 holes	TD6	TDZ6-WS	
 Swing-out Rotor	Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038	Optional	 Microplate rotor	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145	
Tube Rack		Adapter				
10mL		1×1.5/2mL, 1×5mL				
15mL		1×1.5/2mL, 1×5mL, 1×10mL				
50mL		3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL				
100mL		3×1.5/2mL, 4×5mL, 1×50mL				
250mL		12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL				
Customizable per customer needs						

# TD5A, TD5, TDZ5, TDZ5-WS Benchtop Low Speed Centrifuges

Favored by our customers, this is one of the best-selling models of Herexi Instrument. Paired with a variety of buckets and adapters, they are ideal for clinical testing and laboratory analysis. They are widely used in experiments and scientific research in the fields of biology, chemistry, medicine, agriculture and forestry, food safety, blood stations, clinical trials, etc.



## Main Features ↘

- With single-chip microcomputers, self-developed control boards and high-torque DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- A wide voltage range design of 100V-230V improves the adaptability of the centrifuge to voltage.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Paired with forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, the centrifuges are suitable for 0.2mL to 250mL centrifuge tubes or reagent bottles and are able to centrifugate all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	TD5A	TD5	TDZ5	TDZ5-WS
Max. RPM	5500r/min	5000r/min	5000r/min	5000r/min
Max. RCF	4800×g	4800×g	4800×g	4800×g
Max. capacity	4×250mL	4×250mL	8×100mL	4×100mL
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation			
Speed accuracy	±30r/min (customizable, multiples of 10)			
Control and drive system	High torque AC brushless motor, microcomputer control			
Noise	≤65dB(A)			
Power	AC220V 50Hz			
Total power	0.5kW	0.5kW	0.5kW	0.35kW
Weight	35kg	35kg	35kg	25kg
Dimensions (L×W×H)	600×540×360mm	600×540×360mm	600×540×360mm	500×400×300mm

## Rotor Parameters

	TD5A	TD5	TDZ5	TDZ5-WS
<p>12×10mL/15mL</p>  <p>Fixed-angle Rotor</p>	<p>Max. RPM: 5500r/min Max. RCF: 3140×g Rotor item number: 10ml JZZ-008-0229 15ml JZZ-008-0113</p>	Optional	Optional	<p>Max. RPM: 5000r/min Max. RCF: 2600×g/2800×g Rotor item number: 10ml JZZ-008-0229 15ml JZZ-008-0113</p>
<p>24×10mL</p>  <p>Fixed-angle Rotor</p>	Optional	Optional	Optional	<p>Max. RPM: 4000r/min Max. RCF: 2320×g Rotor item number: JZZ-008-0188</p>
<p>12×20 mL</p>  <p>Fixed-angle Rotor</p>	Optional	Optional	Optional	<p>Max. RPM: 4000r/min Max. RCF: 2300×g Rotor item number: JZZ-008-0187</p>

TD5A, TD5, TDZ5, TDZ5-WS

Swing-out Rotor	Tube Rack					
 <p>Swing-out Rotor</p> <p>Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296</p>	<p>5mL (ordinary tube)</p>  <p>Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0046 Applicable to TD5A/TD5/TDZ5</p>	<p>5mL (blood collection tube)</p>  <p>Number of centrifuges: 5mL×48 holes Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0045 Applicable to TD5A/TD5/TDZ5</p>	<p>15mL</p>  <p>Number of centrifuges: 15mL×16 holes Max. RPM: 4000r/min Max. RCF: 2764×g Rotor item number: SPZ-000-0292 Applicable to TDZ5-WS</p>	<p>10mL/15mL</p>  <p>Number of centrifuges: 15mL×24 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0289 10ml SPZ-000-0290 Applicable to TD5A/TD5/TDZ5</p>	<p>10mL/15mL</p>  <p>Number of centrifuges: 15mL×32 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: 15ml SPZ-000-0287 10ml SPZ-000-0286 Applicable to TD5A/TD5/TDZ5</p>	<p>50mL</p>  <p>Number of centrifuges: 50mL×4 holes Max. RPM: 5000r/min Max. RCF: 4600×g Rotor item number: SPZ-000-0284</p>
	<p>50mL</p>  <p>Number of centrifuges: 50mL×8 holes Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0283 Applicable to TD5A/TD5/TDZ5</p>	<p>100mL</p>  <p>Number of centrifuges: 100mL×4 holes Max. RPM: 5000r/min Max. RCF: 4800×g Rotor item number: SPZ-000-0296</p>	<p>100mL</p>  <p>Number of centrifuges: 100mL×8 holes Max. RPM: 4000r/min Max. RCF: 3070×g Rotor item number: SPZ-000-0297 Applicable to TD5A/TD5/TDZ5</p>			

TD5A	TD5	TDZ5	TDZ5-WS
<p>Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147</p>	<p>Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147</p>	<p>Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0147</p>	N/A
<p>Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038</p>	<p>Max. RPM: 4000r/min Max. RCF: 2840×g Rotor item number: SPZ-000-0038</p>	Optional	N/A
<p>Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145</p>	<p>Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145</p>	<p>Max. RPM: 4000r/min Max. RCF: 2360×g Rotor item number: SPZ-000-0145</p>	Optional

Tube Rack	Adapter
10mL	1×1.5/2mL, 1×5mL
15mL	1×1.5/2mL, 1×5mL, 1×10mL
50mL	3×1.5/2mL, 1×5mL, 1×10mL, 1×10mL, 1×15mL, 1×20mL, 1×30mL
100mL	3×1.5/2mL, 4×5mL, 1×50mL
250mL	12×1.5/2mL, 9×5mL, 7×10mL, 1×50mL, 1×100mL
Customizable per customer needs	

# TDZ4, TDZ4-WS Benchtop Low Speed Centrifuges

With excellent safety performance, superior quality and high-performance cost ratio, these centrifuges are routine equipment for separating and preparing suspensions. They are basic laboratory centrifugal instruments used in all kinds of laboratories, hospitals at all levels and universities, etc.











## Main Features

- With single-chip microcomputers, self-developed control boards and high-torque DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- Early warning functions such as overspeed, overheating, imbalance, and the specially combined vibration absorbing device ensure the motor runs smoothly and safely and prevent samples from resuspending, securing optimal centrifugal effect.
- A wide voltage range design of 100V-230V improves the adaptability of the centrifuge to voltage (optional).
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters

Product Model	TDZ4	TDZ4-WS
Max. RCF	2320×g	2650×g
Max. capacity	24×10mL	4×100mL
Max. RPM	4000r/min	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Control and drive system	High torque AC brushless motor, microcomputer control	
Total power	0.2kW	
Noise	≤60dB(A)	
Power	AC220V 50Hz	
Weight	20kg	
Dimensions (L×W×H)	500mm×470mm×280mm	

## Rotor Parameters

18×10mL	TDZ4	24×10mL	TDZ4	12×15mL	TDZ4
	Max. RPM: 4000r/min Max. RCF: 2240×g Rotor item number: JZZ-010-0139		Max. RPM: 4000r/min Max. RCF: 2320×g Rotor item number: JZZ-010-0140		Max. RPM: 4000r/min Max. RCF: 2300×g Rotor item number: JZZ-010-0135
8×20mL	TDZ4	12×20 mL	TDZ4	6×50mL	TDZ4-WS
	Max. RPM: 4000r/min Max. RCF: 1820×g Rotor item number: JZZ-010-0137		Max. RPM: 4000r/min Max. RCF: 2300×g Rotor item number: JZZ-010-0138		Max. RPM: 4000r/min Max. RCF: 1930×g Rotor item number: JZZ-010-0141
4×50mL	TDZ4-WS	4×100mL	TDZ4-WS		
	Max. RPM: 4000r/min Max. RCF: 2650×g Rotor item number: SPZ-010-0022		Max. RPM: 4000r/min Max. RCF: 2460×g Rotor item number: SPZ-010-0044		



# 1H-4K, 1H-6K, 1H-10K, 800D Handheld Centrifuges

## Main Features

- Delicate in appearance and small in volume, easy to operate and highly stable.
- All-steel housing, tailored aluminum alloy rotors, low noise, and small vibrations. (800 Series only)
- Timing function. (800 Series only)
- Patented mute technology allows the machine to operate at ultra-low noise. (1H Series only)
- Micro DC motors and carbon fiber rotors. (1H Series only)



## Host Parameters

Product Model	1H-4K	1H-6K	1H-10K	800D
Max. RPM	4000r/min	6000r/min	10000r/min	4000r/min
Max. RCF	900×g	2000×g	5000×g	1430×g
Rotor configuration	6×1.5/0.5/0.2mL	6×1.5/0.5/0.2mL	6×1.5/0.5/0.2mL	6×20mL
		2×8×0.2mL	2×8×0.2mL	
Dimensions (L×W×H)	170mm×150mm×130mm			250(Φ)×270(h)mm
Weight	1.25 kg			2.5kg

# BE-6100 Microplate Centrifuge

## Main Features

- This compact, economical and mini BE-6100 Microplate Centrifuge is an instantaneous centrifuge specially designed for 96-well microplates, which can quickly spin down droplets.
- Most microplate centrifuges on the market are bulky, taking up a lot of lab space.
- This microplate centrifuge has a unique and compact design. It only takes up 210\*190 mm of space.
- The microplate is installed vertically into the rotor by the slot on top of the centrifuge. Under the action of surface tension, the liquid is kept on the bottom of the microplate, so we don't need to worry about liquid leakage.
- If you press the button at the front of the centrifuge, the rotor instantly accelerates to 2,500 rpm, but if you release it, the rotor stops.



## Host Parameters

Name	Mini Microplate Centrifuge	Centrifugal Force	500×g
Model	BE-6100	Rotor	Vertically installed
Capacity	Two 96-well PCR plates	Standard Configuration	Contains 2 96-well PCR plates
Power	110V-220V/50-60HZ	Dimensions (L×W×H)	210mm×190mm×190mm
Power	20W	Weight	3kg
RPM	2500r/min		

# Automatic Decapping Centrifuge

The automatic decapping centrifuge is a conventional laboratory centrifugal machine that automatically removes the caps from the vacuum blood collection tubes during centrifugation. This centrifuge is specially designed for hospitals, blood stations, as well as institutions of radiological immunology and nuclear medicine. It completes automatic decapping and centrifugation in one fell swoop, addressing problems for hospitals in the process of centrifugating the vacuum blood collection tubes, such as the low manual decapping efficiency and the higher risk of bacteria infection during the blood resuspension caused by the vibrations generated when pulling out the tube.



The automatic decapping centrifuge is widely used in scientific research, education and production departments of clinical medicine, biochemistry, immunology, blood stations, pharmaceuticals, etc. Four specifications of 48-, 76-, 128- and 148-tube centrifuges are available for various requirements. In addition, there are room temperature models and refrigerated models to meet the experimental needs.

## Host Parameters

Product Model	7105T	7105TB	DD5M	TL5R
Number of blood collection tubes to be centrifuged	48	48/76/124/148	124/148	124/148
Max. RPM	4000r/min	4000r/min	4000r/min	4000r/min
Max. RCF	2830×g	3020×g	3580×g	3580×g
Refrigeration system				Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	No refrigeration			-20°C~+40°C
Temperature control accuracy				±1°C
Total power	0.45kW	0.8kW	1.0kW	2.0kW
Weight	40.5kg	63.5kg	85kg	150kg
Noise	≤65dB(A)	≤65dB(A)	≤65dB(A)	≤65dB(A)
Speed accuracy	±20r/min (customizable, multiples of 10)		±30r/min (customizable, multiples of 10)	
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation		1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Number of running programs	20			
Control and drive system	Microcomputer control, maintenance-free large-torque DC brushless motor		High torque variable frequency AC/DC motor, microcomputer control	
Dimensions (L×W×H)	450mm×565mm×365mm	510mm×610mm×405mm	580mm×740mm×800mm	

## Rotor Parameters

48 × 5mL/2mL (decapping)	76 × 5mL/2mL (decapping)	124 × 5mL/2mL (decapping)	148 × 5mL (decapping)
			
Swing-out Rotor	Swing-out Rotor	Swing-out Rotor	Swing-out Rotor
Max. RPM: 4000r/min Max. RCF: 2830×g Rotor item number: SPZ-000-0273	Max. RPM: 4000r/min Max. RCF: 3020×g Rotor item number: SPZ-000-0255	Max. RPM: 4000r/min Max. RCF: 3580×g Rotor item number: SPZ-016-0169	Max. RPM: 4000r/min Max. RCF: 3520×g Rotor item number: SPZ-016-0189

# Immunology Blood Typing Centrifuge



The immunology blood typing centrifuge is developed by Herexi for blood group serology, routine blood group tests, microcolumn gel tests, red blood cell washing, immunoassay, etc. SERO rotor is used for red blood cell washing, HLA rotor for lymphocyte washing, blood group card rotor for blood group serology, routine blood group tests, red blood cell washing and microcolumn gel tests.

## Host Parameters

Product Model	H/T12MM		
Rotor types	Rotor for red blood cell washing	Rotor for lymphocyte washing	Blood group card rotor
Max. RPM	/	/	2200r/min
Rotor capacity	12×7mL	12×(0.25-1mL)	12 cards
Max. RCF	1000×g	2000×g	540×g
Speed accuracy	±20r/min (customizable, multiples of 10)		
Control and drive system	Microcomputer control, maintenance-free large-torque DC brushless motor		
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation		
Noise	≤65dB(A)		
Power	AC220V 50Hz		
Total power	0.2kW		
Weight	22kg		
Dimensions (L×W×H)	350mm×460mm×280mm		

A variety of functional blood centrifuges are customized based on the customer's requirements.

## Rotor Parameters

<b>SERO rotor for red blood cell washing</b> 	Centrifugal force: 500×g Centrifugation time: 60s Purpose: Blood typing, observation of blood cell agglutination reaction Centrifugal force: 1000×g Centrifugation time: 15s Purpose: Cross-resistant adaptive experiment, antiglobulin test Centrifugal force: 1000×g Centrifugation time: 60s Purpose: Blood cell washing, extraction of serum and plasma
<b>HLA rotor for lymphocyte washing</b> 	Centrifugal force: 2000×g Centrifugation time: 180s Purpose: Lymphocyte separation, culture cell separation Centrifugal force: 1000×g Centrifugation time: 3s Purpose: BBlood platelet removal (thrombin treatment) Centrifugal force: 1000×g Centrifugation time: 60s Purpose: Lymphocyte washing
<b>Blood group card rotor</b> 	Max. RPM: 2200r/min Max. RCF: 540×g Rotor item number: SPZ-010-0236 Main purpose: 6-column, 8-column mini blood group card, 12 cards



# Milk Fat Centrifuge

The analysis technique for hygiene conditions of milk and dairy products consumes less time and organic reagents during the test, suitable for rapid testing in the production process, and measurement and analysis of fat in milk and dairy products following centrifugation by the Gerber Method. With heating and thermostat functions, the centrifuge can be maintained at a temperature higher than 50°C, which not only reduces the time of sample water bath, but also renders the test results more reliable. As a common instrument for dairy product testing, the benchtop milk fat centrifuge is suitable for physical and chemical testing by producers of dairy products.

It is applicable to Gerber butyrometers specified in the *National Food Safety Standard — Determination of Fat in Foods* (GB 5009.6-2016) for measuring fat content using the Gerber method.

## Host Parameters

Product Model	TLW5R	TLW5
Turntable form	Angle-type	
Number of centrifuge tubes	8 Gerber butyrometers	
Max. RPM	1500r/min	
Max. RCF	420×g	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Control and drive system	High torque DC motor, microcomputer control	
Temperature setting range	Room temperature ~ +65°C	or no heating
Total power	1.5kW	0.4kW
Noise	≤60dB(A)	
Power	AC220V 50Hz	
Weight	35kg	
Dimensions (L×W×H)	415mm×520mm×330mm	

# Soil pF Curve Centrifuge

The soil pF-curve is determined by the relationship between soil suction, volume-weight and gravimetric water content. With these three elements, a highly accurate soil water characteristic curve, or pF-curve is thus obtained. Generally, the soil water characteristic curve is measured by methods such as the pressure membrane (chamber) and the centrifuge. The centrifuge method is widely used in fields like soil water dynamics simulation, meteorology and climatology, soil geography, hydrology, and agricultural science and technology as it is easier to operate and less time-consuming, and has a wider measurable suction range.



## Host Parameters

Product Model	HR21M
Max. capacity	4×100mL
Max. RCF	14758×g
Max. RPM	10000r/min
Measurement range	pF 2.0-4.2 (0.1 bar-15 bar)
Samples	4/time
Speed accuracy	±30r/min (customizable, multiples of 10)
Number of running programs	16
Control and drive system	High torque variable frequency AC motor, microcomputer control
Compressor	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	4.0kW
Power	AC220V/50Hz/30A
Noise	≤65dB (A)
Weight	240kg
Dimensions (L × W × H)	710mm×910mm×950mm

## Rotor Parameters

Soil dehydrating rotor	
	Rotor capacity: 4×100mL Max. RPM: 10000r/min Max. RCF: 14758×g Container dimension: φ50×51mm Number of dehydrating containers: 4 Rotor item number: JZZ-012-0161

# Capillary Centrifuge

The capillary centrifuge is used in the measurement of hematocrit values and the centrifugation of trace blood and solution.

## Host Parameters

Product Model	H/T12MM
Max. RPM	12000r/min
Max. RCF	13960×g
Speed accuracy	±30r/min (customizable, multiples of 10)
Control and drive system	High torque AC brushless motor, microcomputer control
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤60dB(A)
Power	AC220V 50Hz
Total power	0.4kW
Weight	35kg
Dimensions (L×W×H)	550mm×440mm×330mm

A variety of functional blood centrifuges are customized based on the customer's requirements.

# Cytosmear Centrifuge


Since being suitable for the centrifugation of smear of all humoral cells (ascites, sputum, pericardial fluid, urine, synovial fluid, cerebrospinal fluid, puncture fluid, bronchial fluid, etc.), the cytosmear centrifuge is widely applied in immunohematology laboratories, testing rooms and research labs. It can be used for red cell serological testing, identification of antigens and antibodies, as well as judgment of Coombs test results. It is an essential instrument for analyzing Pap smear, TCT, and body fluid in hospitals, laboratories, blood stations, medical schools and medical research institutions.

## Host Parameters

Product Model	7104T
Max. RPM	4000r/min
Max flaking capacity	12 cards
Max. RCF	1370×g
Speed accuracy	±20r/min (customizable, multiples of 10)
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Control and drive system	Microcomputer control, maintenance-free large-torque DC brushless motor
Power	AC220V 50Hz
Power	0.2kW
Weight	22kg
Dimensions (L x W x H)	350mm×460mm×280mm



## Rotor Parameters

Capillary rotor	24 slots	36 slots
	Max. RPM: 12000r/min Max. RCF: 13960×g 24 Rotor item number: JZZ-000-0146	Max. RPM: 10000r/min Max. RCF: 12300×g 24 Rotor item number: JZZ-000-0275



## Rotor Parameters

Cytosmear rotor 12 slots	
	Max. RPM: 2500r/min Max. RCF: 1370×g Rotor item number: JZZ-010-0142 12 slots

# Oil Centrifuge

Designed in line with the *Test Method for Water and Sediment in Crude Oil by the Centrifuge Method* (GB/T6533-2012), this centrifuge is an ideal moisture determination instrument for the oil exploitation industry and R&D institutions, which measures the water and sediment in crude oil by the centrifuge method.

## Host Parameters

Product Model	TD5T	LT6Y
Max. RCF	2960×g	3370×g
Max. RPM	4000r/min	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Motor	High torque variable frequency AC/DC motor, microcomputer control	
Temperature control range	Room temperature ~ +70°C	
Temperature control accuracy	±2°C	
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation	
Power	AC220V 50Hz	
Noise	≤65dB(A)	≤65dB(A)
Weight	35kg	70kg
Dimensions (L x W x H)	600mm×540mm×360mm	580mm×740mm×800mm



## Rotor Parameters

24×15mL	TD5T, LT6Y
	Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: SPZ-000-0236 Tube rack item number: SPZ-000-0289
16×25mL	LT6Y
	Max. RPM: 4000r/min Max. RCF: 3370×g Rotor item number: SPZ-021-0047
4×100mL	LT6Y
	Max. RPM: 2500r/min Max. RCF: 1590×g Rotor item number: SPZ-021-0001

# Low Speed Multi-tube Rack Urine Sediment Centrifuge

## Host Parameters


Product Model	TDZ5
Max. RPM	4000r/min
Max. capacity	4×8×15mL
Max. RCF	2960×g
Speed accuracy	±30r/min (customizable, multiples of 10)
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Control and drive system	High torque AC brushless motor, microcomputer control
Total power	0.45kW
Power	AC220V 50Hz
Weight	25kg
Dimensions (L x W x H)	600mm×540mm×360mm

Rotors and adapters are customizable according to the customer's requirements.



As a supporting device for urine sediment analyzer, with high efficiency, large number of tubes, and excellent separation effect, this centrifuge is widely applied in fields like clinical medicine, biochemistry, and immunology.

## Rotor Parameters

32×15mL	
	Max. RPM: 4000r/min Max. RCF: 2960×g Rotor item number: JZZ-000-0032

# Phlebotomy Cart Refrigerated Centrifuge

Installed in all kinds of blood collection vehicles, this centrifuge is equipped with 12x5mL special rotors (suitable for vacuum blood collection tubes and nucleic acid centrifuge tubes, etc.). Its secure chassis design with suction cups can prevent any hidden danger of machine movement when traveling.

## Host Parameters

Product Model	LR5M	
Max. capacity	12x5mL	8x10mL
Max. RPM	5000r/min	
Max. RCF	4090xg	
Speed accuracy	±30r/min (customizable, multiples of 10)	
Control and drive system	High torque AC brushless motor, microcomputer control	
Compressor	Fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a	



Temperature control range	-20°C~+40°C
Temp. accuracy	±2°C
Timer range	1min-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.6kW
Power	AC220V 50Hz
Weight	52.5 kg
Dimensions (L×W×H)	340mm×562mm×396mm

# Pulp WRV Determination Centrifuge

## Host Parameters

Product Model	7105T
Max. RPM	5000r/min
Max. RCF	4800xg
Max. capacity	4x250mL
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Speed accuracy	±20r/min (customizable, multiples of 10)
Number of running programs	20
Control and drive system	Microcomputer control, maintenance-free large-torque DC brushless motor
Total power	0.45kW
Noise	≤65dB
Power	AC220V 50Hz
Weight	40.5kg
Dimensions (L×W×H)	450mm×565mm×365mm

The Pulp WRV Determination Centrifuge manufactured by Herexi Instrument is a laboratory instrument for measuring pulp water retention performance based on the standard method in GB/T 29286-2012.



## Rotor Parameters

Product Name	Capacity	7105T	
		Max. RPM	Max. RCF
Swing-out Rotor	4x250mL	4000r/min	2840xg
Filter cup	Quantitative	4000r/min	2780xg



# PRP, CGF Centrifuges

PRP (Platelet-Rich Plasma) and CGF (Concentrate Growth Factors) centrifuges are commonly used instruments in medical and beauty fields. They can utilize the centrifugation technology to extract substances enriched with platelets or growth factors from blood.



## Main 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.
- The stainless steel centrifugal chamber and all-steel housing make the centrifuge sturdy and durable. It also features low noise, minimal temperature rise, safety, and reliability.
- It has four preset variable speed centrifugation programs (CGF, PRP, A-PRF, and i-PRF), which can be activated with a single touch and meet different needs.
- A 7-inch wide-angle touchscreen with digital input allows real-time display of operation parameters on the interface. It has a parameter storage function that is convenient for users to set the speed, time, and other operation parameters.
- The 10-level speed ramp-up/down control maintains a stable rotational speed, thus ensuring the stability and reliability during the centrifugation process and enhancing the centrifugation effect.
- It has multiple warning functions, such as overspeed, overtemperature, and imbalance detection, which can promptly alert users in case of abnormalities and ensure experimental safety.
- 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.

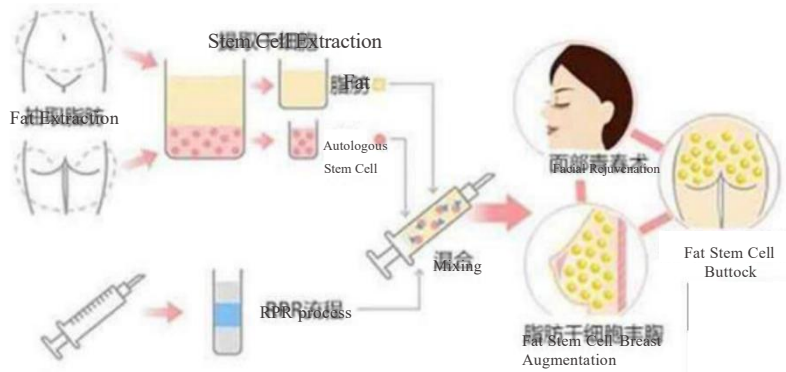
## Host Parameters

Product Model	7104T			
Max. capacity	8×20mL			
Max. RPM	4000r/min			
Speed accuracy	±20r/min (customizable, multiples of 10)			
Variable speed program	One-stage speed shift	Two-stage speed shift	Three-stage speed shift	Four-stage speed shift
GCF	Speed: 2600r/min Time: 2min	Speed: 2300r/min Time: 4min	Speed: 2600r/min Time: 4min	Speed: 2850r/min Time: 3min
PRP	A blood sample anticoagulated with 5% EDTA is centrifuged at 1800 rpm for 10 minutes at room temperature. After centrifugation, the upper layer will be platelet-rich plasma while the lower layer will be compressed leukocytes and red blood cells. The platelet-rich plasma is then transferred to a plastic test tube and subjected to a second centrifugation at 3000 rpm for 5 minutes.			
A-PRF	Speed: 2000rpm Time: 10min			
i-PRF	Speed: 3000rpm Time: 6min			
Display mode	7" wide-angle LCD touch screen			
Operation mode	Touch control			
Gears up/down	10 gears			
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation			
Noise	≤60d B (A)			
Power	AC220V 50Hz			

The centrifugal program can be adjusted according to experimental requirements

## PRP Centrifuge

- Purpose and principle: It is used to extract platelet-rich plasma from human blood plasma. PRP contains various growth factors, which will be released from the  $\alpha$ -granules within the platelets when mixed with calcium chloride and thrombin.
- Areas of applications: It is widely used in medical fields such as orthopedics, dentistry, and aesthetic medicine to facilitate tissue repair and regeneration.

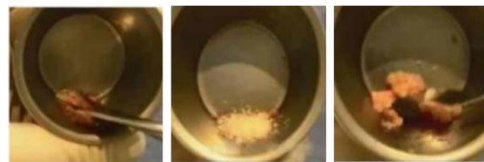


Rotors and adapters are customizable according to the customer's requirements.  
 Equipped with regular customizable syringe rotors for regular syringes of 10mL, 20mL, and 50mL.  
 Equipped with special customizable rotors in PRP package for separation and extraction of various PRP tubes.

## CGF Centrifuge

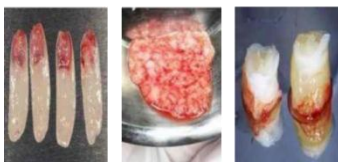
- Purpose and principle: The CGF centrifuge is a specific variable-speed centrifuge used to separate highly concentrated growth factors and fibrin from venous blood. The CGF preparation process does not require the addition of any chemicals or allergenic additives, and it can yield higher tensile strength, more growth factors, and better viscosity.
- Areas of applications: It is widely used in medical fields, particularly dentistry and cosmetology. The abundant growth factors and fibrin in CGF have a significant effect on promoting the regeneration of bone tissue, soft tissue, and skin.

### Fusion of Fibrin Particles with Artificial Bone Powder



CGF clots are scissored and mixed with bone powder. This mixture can be used for maxillary sinus lift procedures, thereby promoting the bone mass increment at the base of the maxillary sinus and creating better conditions for implantation.

### Three Clinical Application Forms



Fibrin Membranes Fibrin Particles Fibrin Clots

### Fibrin Membrane Preparation Process



After centrifugation, the fibrin clot is taken out, and the plasma part is peeled off. The clot is placed into the preparation kit box, where it is compressed under the force of gravity using a forming plate. This process can squeeze out the contained serum and make the fibrin more compact. After 10 minutes, take it out and the fibrin membrane is formed.

## CGF-specific centrifuge tubes

Tube material	Dimensions (mm)	Capacity (ml)	Color	Additive	Useful life (year)	Status
Glass	16×100	7/8/9/10	Red	N/A	2	Gel
Plastic	16×100	7/8/9/10	White	N/A	1	Liquid
Plastic	16×100	7/8/9/10	Green	Heparin sodium	1	Liquid

# Portable Centrifuge

The portable centrifuge can well satisfy the outdoor field-testing needs, such as determination of total phosphorus in surface water, material analysis, food safety inspection, clinical examinations, academic research and other scientific demands in various other areas. Conforming to HJ91.2-2022 "Technical specification for surface water environmental quality monitoring", it can also customize rotor on demand.



## Main Features ↘

- Supported by the dual-mode operations, it can be controlled both by a WeChat Mini Program to address the issue of nearby operation in a high-risk environment, and by the instrument panel.
- Data acquisition and monitoring can be automatically executed during spinning.
- With microcomputers, self-developed control boards and high-torque AC/DC brushless motors, these concentrators can run stably with low noise, allowing for a comfortable laboratory environment.
- It has the multiple alarm functions for over speed, over temperature, over pressure, imbalance and under pressure.
- The integrated design is portable, enabling pretreatment before use on site.
- Characterized by strong endurance and long durability, it can run continuously for more than 8 hours (at the temperature of 20°C and the humidity of 75%).
- It is easy to operate and error-proof (the centrifuge cannot be started when the cover isn't closed).
- The centrifugal chambers are made of alloy aluminum that has undergone an anodic electrophoresis surface treatment and thus can be resistant to most chemical reagents and solvents.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Host Parameters ↘

Product Model	HX5316
Portable centrifuge Max. RPM	4000r/min (customizable)
Max. RCF	2578×g (customizable)
Max. capacity	4x250ml (customizable)
Timer range	1 min-23h59min59s
Power	AC220V 50Hz
Total power	0.35kW
Noise	≤40dB
Weight	28kg
Dimensions (L×W×H)	580mm×440mm×285mm

# Filter Centrifuge

The filter centrifuge features a perforated drum inserted with a filter, such as filter cloth, metal wire mesh or sieve. The suspension flows from inside to outside through the filter and drum, allowing solid materials to be filtered out. The types of filtered material depend on those of centrifuge, commonly including: screen/scroll centrifuge, pusher centrifuge, inverting filter centrifuge, swing centrifuge.



## Main Features

- With single-chip microcomputers, self-developed control boards and high-torque DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
- Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.
- TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages (Chinese, English, Russian, Portuguese).
- Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.
- Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.
- A wide voltage range design of 100V-230V improves the adaptability of the centrifuge to voltage (optional).
- Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).
- 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).
- Forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## Nine Characteristics

- Featuring washing, spin-drying dehydration, concentration, and filtering functions;
- TFT true color large LCD touch screen with intelligent control, simple and convenient for operation, touch panel, simultaneous display of set parameters and run parameters;
- Preset speed and time to meet the requirements of each stage;
- Filter centrifuge equipped with a vibration reduction device, enabling automatic balancing, and low noise;
- Electromechanical integrated silent door lock;
- Solving the problem of low efficiency in pressure filtration and vacuum filtration;
- Filter centrifuge with an all-stainless steel window, strong corrosion resistance;
- Attractive appearance, lightweight, high efficiency;
- Dryness level above 90%.

## Host Parameters

Product Model	TD5-1
Max separation capacity	1000ml
Max. RPM	4000r/min
Max. RCF	2200×g
Speed accuracy	±30r/min
Control and drive system	High torque DC/AC variable frequency motor, microcomputer control

Timer range	1-99h59min
Power	AC220V 50Hz
Noise	≤60 dB
Max. capacity	8-10L/min
Weight	35kg
Dimensions (L×W×H)	500mm×440mm×330mm

# ES5000 Intelligent Trim Meter

With the widespread use of blood component transfusions and the full utilization of resources, the need for blood component preparation has increased dramatically. Large-capacity low-temperature centrifuges are widely used in the process of blood component preparation. The blood bags, if not trimmed upon collection, will accelerate wear of machine, and increase noise and vibration, both of which will have direct impact on the quality of platelets and concentrated red blood cells. Therefore, blood trim is an important prerequisite for ensuring separation quality.



## Main Features

- Microcomputer processing technology, procedural memory, high precision.
- Intuitive display in Chinese language on large LCD screen.
- Mutually independently controlled tray weighing systems.
- Direct display of weight and weight difference on each tray.
- Configurable specific gravity factors, enabling easy conversion between g and ml.
- Various specifications of special weights for primary weighted balance.
- Anti-corrosive stainless steel weighing trays, durable and easy to clean.
- Sound and light prompts for balancing.

## Host Parameters

Product Name	ES5000-4	ES5000-6
Number of trays	4	6
Max weight capacity × scale resolution (g)	1000×1 (weighing range: 0~5000g, with 1000g as the standard configuration)	
Repeatability	±1g	
Linear	±1g	
Tare range	0 ~ Max weight capacity	
Stabilization time	3S	
Sensitivity drift	±0.005%/°C	
Ambient temperature	10~35°C	
Power	AC220V, 50Hz	
Tray size	168×128mm	
Dimensions (L×W×H)	565mm×320mm×90mm	795mm×320mm×90mm

# RH2010SF-I Fast Moisture Analyzer

The fast moisture analyzer is a high-tech, high-precision, and high-efficiency specialized instrument for moisture detection, specifically designed to meet the needs of various industries for rapid and accurate measurement of material moisture content. Utilizing advanced microwave transmission method and intelligent algorithm, this instrument can accurately measure the moisture content of samples in solid, liquid, and semi-solid states in an extremely short time. It is widely used in areas such as latex, agriculture, food, chemicals, and textiles, and has become an indispensable tool for quality control, production monitoring, and scientific research.



## Main Features

- The fast moisture analyzer is an intelligent instrument for rapid measurement of moisture contents in specific substances. It only takes 2-3 seconds for one measurement, realizing the digitalization of a particular substance content.
- This instrument draws correct results by utilizing water molecules and solid matter in a specific substance to measure the different reactions of microwaves at different temperatures, using a computer to perform quick correction calculations, and displaying them digitally.
- Built-in with a temperature compensation system, the analyzer can automatically correct for the impact of environmental temperatures on the measurement results, thus ensuring the accuracy of the data.
- A computer is used to control the waveguide oscillator to radiate microwaves with fixed frequency and fixed intensity and match the sample under test.
- Its compact design makes it lightweight and small size, thereby being easily portable for on-site detection.
- The instrument also features an intuitive and easy-to-understand touch screen operation interface that enables users to complete measurement setting, start measurement and view results in just a few steps.
- It has a data storage function and supports multiple data transfer methods such as USB and Bluetooth, which is convenient for data management and analysis.
- An automatic feeder is applied to feed the substance to be measured into the measuring tube uniformly and stably, thus minimizing the uncertainty errors caused by manual operation.
- The measured substance will be recovered after measurement to minimize the waste of raw materials.

## Host Parameters

Product Model	RH2010SF-I
Measurement range	0-100%
Effectively measured content	0-100%
Display resolution	0.01% or 0.1%
Measuring accuracy	±1% or set based on customer requirements
Read mode	7" wide-angle touch screen, digital display
Measurable substance	Moisture content in latex, milk, juice, coating materials, daily used chemical and grain

The software can be customized based on the substance to be measured required by the customers to enable fast, accurate and reliable measurement results

# Inline Grain/Oil/Chinese Herb Moisture Analyzer

The inline grain and oil moisture analyzer follows the advanced microwave transmission principle to quickly and accurately measure the moisture content in grains/oils without the need for sample pretreatment, hence saving the user's time. The instrument also features rapid measurement, high precision and simple operation, making grain/oil testing more efficient.



## Main Features ↘

- It can quickly and intelligently determine the moisture content of grains/Chinese herbs, with the time of a single measurement less than one minute, thus achieving digitalization of specific substance content.
- This instrument draws correct results by utilizing water molecules, solid matters, etc. in grains/oils/Chinese herbs to measure the different reactions of microwaves at different temperatures and using a computer to perform quick correction calculations.
- A computer is used to control the waveguide oscillator to radiate microwaves with fixed frequency and fixed intensity and match the sample under test.
- Correct measurement results can be displayed visually with advanced digital technology.
- An automatic feeder is applied to feed the substance to be measured into the measuring tube uniformly and stably, thus minimizing the uncertainty errors caused by manual operation.
- After measurement, the instrument can automatically recover grains/oils/Chinese herbs to maximize labor cost savings.

## Host Parameters ↘

Product Model	Inline Grain & Oil Moisture Analyzer	Inline Chinese Herb Moisture Analyzer
Measurement range	Grain samples between 5%-20%	Chinese herb samples between 5%-20%
Measuring accuracy	±2%	2%-3%
Display resolution		0.1%
Read mode	Computer, instrument screen	7" display screen
Time of single measurement	Display of microwave or moisture content value once every 60 seconds	
Measurement method		Lab measurement (manual)
Measurement environment		20-30°C
Weight	37kg	8kg
Dimensions (L×W×H)	615mm×365mm×420mm	442mm×485mm×180mm

# Inline Sludge Moisture Analyzer

The inline sludge moisture analyzer follows the advanced microwave transmission principle to quickly and accurately measure the moisture content in sludge. The instrument is simple to operate, does not require sample crushing, and directly shows measurement results on the display screen, helping to easily save energy and reduce emissions as well as operating costs.



## Main Features

- It can quickly and intelligently determine the moisture content of various types of sludge, with the time of a single measurement less than one minute, thus achieving digitalization of specific substance content.
- This instrument draws correct results by utilizing water molecules and solid matters in sludge to measure the different reactions of microwaves at different temperatures and using a computer to perform quick correction calculations.
- A computer is used to control the waveguide oscillator to radiate microwaves with fixed frequency and fixed intensity and match the sample under test.
- Correct measurement results can be displayed visually with advanced digital technology.
- An automatic feeder is applied to feed the substance to be measured into the measuring tube uniformly and stably, thus minimizing the uncertainty errors caused by manual operation.
- After measurement, the instrument can automatically recover slug to maximize labor cost savings.

## Host Parameters

Product Model	Inline Sludge Moisture Analyzer	
Measurement range	20-40%, 60-80%	
Measuring accuracy	2%-3%	
Display resolution	0.1%	
Read mode	7" display screen	
Measurement method	Lab measurement (manual)	
Measurement environment	20-50°C (with temperature compensation per on-site conditions)	
Weight	10kg	
Type A (sludge) Dimensions (L×W×H)	320mm×135mm×320mm	Split design: 400mm×75mm×390mm
Type B (granular sludge) Dimensions (L×W×H)	500mm×185mm×700mm	