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## The Series of Centrifuge and Concentrator



湖南赫西仪器装备有限公司  
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# We Keep Innovating

Hunan Herexi Instruments & Equipment Co., Ltd is a professional high-tech Company, engaged in research & development, manufacturing and marketing of laboratory instruments. Senior management and technicians of our company have participated in the establishment of national development planning for scientific instruments from the fifth to seventh five-year plans, and the establishment of national standards of high speed refrigerated centrifuge. With the tenet "Quality is Life.", our company has established an impeccable quality management system, and taken the lead of our industry in passing the ISO9001:2008 quality management system certification, CE compliant and ISO13485 medical apparatus and instruments quality management system certification.

Main products of our company includes more than 40 types of 7 series: high speed refrigerated centrifuge, extra large refrigerated centrifuge, low speed refrigerated centrifuge, normal temperature centrifuge, crude oil moisture test centrifuge, vacuum centrifuge enrichment system, and Herexi 3HRI intelligent high speed refrigerated centrifuges. In particular, the Herexi 3HRI intelligent high speed refrigerated centrifuges independently researched by our company has reached world advanced level. Products of our company are widely applied in the fields of manufacturing and scientific research, such as military industry, science research institutions, institutions of higher education, central blood banks, hospitals, biological products, pharmacy, bio-chemical examination, agricultural science, environmental protection, petrification, etc.

Our company adheres to the tenet of "Quality is Life, Trustworthiness is Root, First-class Service, and Credibility First", and strives to develop scientific instruments and equipment up to and over the advanced world level.





# Catalog

## Table-Type High-Speed Centrifuge

- 2 3H Series Intelligent High-Speed Refrigerated Centrifuge
- 4 TGL20MW Table-Type Large-Capacity High-Speed Refrigerated Centrifuge
- 6 HR/T16M, HR/T20M Table-Type High-Speed Refrigerated Centrifuge
- 7 HR-T16MM Micro High-Speed Refrigerated Centrifuge
- 8 TG16MW Table-Type High-Speed Centrifuge
- 9 H/T12MM, H/T16MM, H/T18MM Table-Type High-Speed Centrifuge

## Table-Type Low-Speed Centrifuge

- 10 TDL5M/6M/8M Table-Type Low-Speed Refrigerated Centrifuge
- 11 DD5/DD5M Automatic Uncovering Centrifuge
- 12 DD5 Table-Type Large-Capacity Low-Speed Centrifuge
- 13 TD6/TDZ6-WS Table-type low speed Multi-place-carrier centrifuge
- 14 TD5A/TD5 Table-Type Low-Speed Centrifuge
- 15 TDZ5/TDZ5-WS Table-Type Low-Speed Centrifuge
- 16 TD4/TDZ4/TDZ4-WS Table-Type Low-Speed Centrifuge

## Vertical Type High-Speed Refrigerated Centrifuge

- 17 HR26M High-Speed Refrigerated Centrifuge
- 18 HR/T20MM Vertical Type High-Speed Refrigerated Centrifuge
- 20 HR21M/HR20M High-Speed Refrigerated Centrifuge

## Vertical Type L-Speed Refrigerated Centrifuge

- 21 LR10M High-Speed Large-Capacity Refrigerated Centrifuge
- 22 LRM-12L Super-Capacity Refrigerated Centrifuge
- 23 LR6M/LR7M/LR8M Low-Speed Large-Capacity Refrigerated Centrifuge
- 24 TL5R/TL6R/TL8R Vertical Type Low-Speed Refrigerated Centrifuge
- 26 LR5M (Refrigerated) /DD5M (Normal temperature) Low-Speed Large-Capacity Refrigerated Centrifuge

## Petroleum Centrifuge

- 27 TD5T/LT6Y Petroleum Centrifuge

## Vacuum Concentrator Centrifuge

- 28 ZLS-1/ ZLS-2 Vacuum Concentrator Centrifuge
- 29 ZLS-3 Vacuum Concentrator Centrifuge



## 3H Series Intelligent High-Speed Refrigerated Centrifuge

As an advanced intelligent device, 3H Series Intelligent High-Speed Refrigerated Centrifuge is widely applicable in a variety of fields such as biochemistry, medical treatment and public health, food safety, life science, forestry, animal husbandry, blood banks, blood stations, biological products and pharmaceutical products. It is the ideal equipment for separation, precipitation, concentration and preparation of samples and a high-tech product that can compare favorably with import ones and be exported in large quantities.



### Features

- Using a brushless motor with high torque and variable frequency which is controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- The design of the whole machine is in line with the ergonomics, with streamlining sculpt. With a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly. With triple protective layers of steel bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- Rotors at rest will be in standby and cool down.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 100 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.
- Maximum rotation speed: 30000r/min, Maximum centrifugal force: 62400 × g.

## 3H Series Intelligent High-Speed Refrigerated Centrifuge

### Technical Parameters

Model	3H26RI	3H24RI	3H20RI	3H16RI	3H12RI
Maximum capacity	4 × 100ml Swing Bucket Rotor				
Maximum rotate speed (r/min)		24000	20800	16800	12000
Maximum centrifugal force (× g)		39900	30000	19600	12300
Standard rotor	12 × 1.5/2.0 ml (Titanium alloy)	12 × 1.5 /2.0ml (Titanium alloy)	12 × 1.5 /2.0ml	12 × 1.5 /2.0ml	24 × 1.5 /2.0ml
Rotate speed precision	± 50r/min				
Refrigeration system	Import fluoride-free compressor and control valve				
Temperature control range	- 20℃ ~ +40℃				
Temperature control precision	± 1℃				
Operation programmes	100				
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive				
Total power	1.5kw				
Timer range	0-99h59min				
Noise	≤65dB				
Rotor identification	Automatic rotor identification function				
Weight	75kg				
Dimension (L × W × H)	710 × 630 × 350mm				

Product Name	Capacity	3H24RI		3H20RI		3H16RI		3H12RI	
		Rotate Speed	Centrifugal Force	Rotate Speed	Centrifugal Force	Rotate Speed	Centrifugal Force	Rotate Speed	Centrifugal Force
Angle rotor	12 × 1.5/2.0ml	24000	39900	20800	30000	16800	19600	12000	10000
	24 × 1.5/2.0ml	16000	23800	14000	18180	14000	18180	11500	12300
	18 × 1.5ml	16000	17700	16000	17700	14000	13600		
	30 × 1.5ml	12000	15300	12000	15300	11000	12900		
	48 × 0.5ml	13500	17500	13000	16300	12000	13800		
	10 × 5ml	20000	27700	16000	17700	13000	11700	12000	10000
	12 × 10ml/5ml	15000	21600	14000	18800	12000	13400	12000	13400
	8 × 15ml	12000	14800	12000	14800	12000	14800		
	6 × 50ml	12000	13800	12000	13800	11000	11600	10000	9600
Swing rotor	4 × 100ml	11000	11720	10000	10500	9000	8500	8000	6700
	4 × 100ml	4000	2140	4000	2100	4000	2100		
	12 × 10ml	4000	2330	4000	2330	4000	2330		
	4 × 50ml	4000	2150	4000	2150	4000	2150	4000	2150
Swing ELISA plate rotor	2 × 2 × 48holes	6000	3200	6000	3200	6000	3200	6000	3200

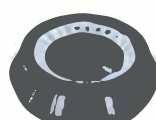
### Optional fittings



12 × 1.5/2.0ml



18 × 1.5/2.0ml



24 × 1.5/2.0ml



10 × 5ml



8 × 7ml



12 × 10ml



8 × 15ml



6 × 50ml

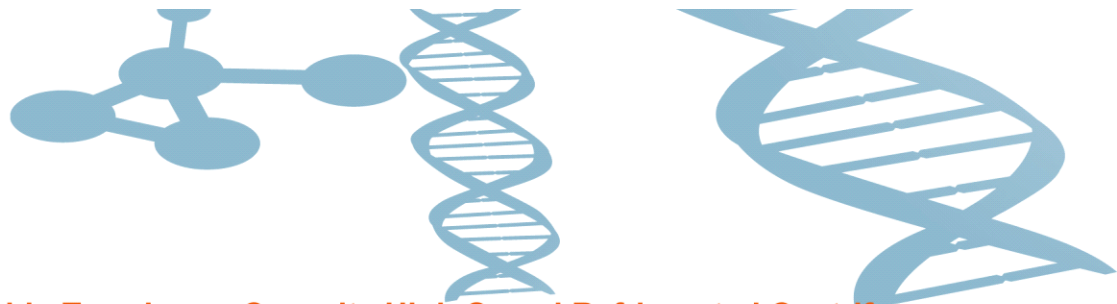


4 × 100ml



4 × 50ml





## TGL20MW Table-Type Large-Capacity High-Speed Refrigerated Centrifuge

Mainly applied in a variety of fields such as biochemistry, medical treatment and public health, food safety, life science, forestry, animal husbandry, blood banks, blood stations, biological products and pharmaceutical products. It is the ideal equipment for separation, precipitation, concentration and preparation of samples and a high-tech product that can compare favorably with import ones and be exported in large quantities.



### Features

- Use a brushless motor with high torque and variable frequency which is controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- The design of the whole machine is in line with the ergonomics. With a streamline design, a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly. With triple protective layers of steel bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- Rotors at rest will be in standby and cool down.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 20 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.
- Maximum rotation speed: 20600r/min, Maximum capacity: 4 × 300ml.

### Technical Parameters

Model	TGL20MW
Maximum capacity	Swing bucket rotor4 × 300ml
Maximum rotation Speed (r/min)	20600
Maximum centrifugal force (× g)	29400
Standard rotor	12 × 1.5/2.0ml
Revolving speed precision	± 50r/min
Refrigeration system	Import fluoride-free compressor
Temperature control range	- 20℃ ~ +40℃
Temperature control precision	± 1℃
Operation programmes	20
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Total power	1.8kw
Timer range	0-99h59min
Noise	≤65dB
Rotor identification	Automatic rotor identification function
Weight	110kg
Dimension(L × W × H)	630 × 760 × 400mm

# TGL20MW Table-Type Large-Capacity High-Speed Refrigerated Centrifuge

Product Name	Capacity	Rotation Speed (r/min)	Centrifugal Force( $\times g$ )
Angle rotor	12 $\times$ 1.5/2.0ml	20600	29400
	24 $\times$ 1.5/2.0ml	14000	18180
	12 $\times$ 10ml	14000	18800
	8 $\times$ 15ml	12000	14800
	6 $\times$ 50ml	12000	13800
	8 $\times$ 50ml	10000	10500
	4 $\times$ 100ml	10000	10500
	6 $\times$ 100ml	11000	14520
Swing rotor	4 $\times$ 50ml	5000	4600
	4 $\times$ 100ml	5000	4800
	8 $\times$ 50ml	4000	2810
	32 $\times$ 15ml	4000	2810
	32 $\times$ 10ml	4000	2810
	48 $\times$ 5ml/2ml ( Vacuum Tube )	4000	2940
	76 $\times$ 5ml/2ml ( Vacuum Tube )	4000	3100
	4 $\times$ 250ml	4000	3290
Adapter	8 $\times$ 50ml		
	4 $\times$ 6 $\times$ 15ml		
	4 $\times$ 8 $\times$ 10ml		
	4 $\times$ 10 $\times$ 5ml		
Swing ELISA plate rotor	2 $\times$ 2 $\times$ 96孔	4000	2360

## Optional fittings



12  $\times$  1.5/2.0ml



24  $\times$  1.5/2.0ml



12  $\times$  10ml



8  $\times$  15ml



6  $\times$  100ml



4  $\times$  250ml



32  $\times$  15ml



8  $\times$  50ml



4  $\times$  100ml



Micro-plate Rotor



## HR/T16M、HR/T20M Table-Type High-Speed Refrigerated Centrifuge

HR/T series are applicable in a variety of fields such as biochemistry, medical treatment and public health, food safety, life science, forestry, animal husbandry, blood banks, blood stations, biological products and pharmaceutical products, etc. for separation, precipitation, concentration and preparation of samples.



### Technical Parameters

Model	HR/T20M	HR/T16M
Maximum capacity	4 × 100ml	
Maximum rotation Speed (r/min)	20000	16000
Maximum centrifugal force (× g)	27700	17700
Standard rotor	12 × 1.5/2.0ml	12 × 1.5/2.0ml
Revolving speed precision	± 50r/min	
Refrigeration system	Import fluoride-free compressor and control valve	
Temperature control range	- 20℃ ~ +40℃	
Temperature control precision	± 1℃	
Timer range	0-99h59min	
Noise	≤65dB	
Total power	1.5kw	
Power supply	AC220V 50Hz	
Weight	75kg	
Dimension(L × W × H)	710 × 630 × 350mm	

Product Name	Capacity	HR/T20M		HR/T16M	
		Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force
Angle rotor	12 × 1.5/2.0ml	20000	27700	16000	17700
	10 × 5ml	16000	17700	13000	11700
	24 × 1.5/2.0ml	14000	18180	14000	18180
	12 × 10ml/5ml	12000	13400	12000	13400
Swing rotor	6 × 50ml	12000	13800		
	12 × 10ml	4000	2330		
	4 × 10ml	6000	3200		
Swing ELISA plate rotor	2 × 2 × 48holes	3000	1400		

### Features

- The design of the whole machine is in line with the ergonomics, with a streamline design, better looking and more efficient.
- Featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- Use a brushless motor with high torque and variable frequency, with special combination of shock absorbers to keep the motor running smoothly.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- With multiple protection measures such as over heat and imbalance to ensure personnel and equipment safety.
- With triple protective layers of steel bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- With an imported fluoride-free refrigeration compressor unit to achieve fast refrigeration, high efficiency, excellent temperature control precision and reduced noise, hence steady and reliable.
- With the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 20 kinds of operating modes for the user to programme and use freely.
- 9 levels for speed-up/speed-down control.
- Maximum rotation speed: 20000r/min, Maximum centrifugal force: 27700 × g.

### Optional fittings





## HR/T16MM HR-T16MM Micro High-Speed Refrigerated Centrifuge

### Features

- One of China's smallest high-speed centrifuges, it can help save the limited room of the lab.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, touchable/Push-botton operation models for simultaneous control.
- Automatically record the operational parameters; can be directly started by RCF.
- Using a brushless motor with high torque and variable frequency which is controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- Standby and cool-down function to ensure constant refrigeration when the machine is in standby.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Unique refrigeration system to ensure the temperature at the maximum rotation speed remains below 4℃.
- Able to provide 20 kinds of operating modes for the user to programme and use freely.
- With 10 levels for speed-up/speed-down control, the optimal speed-up and speed-down time is 25 seconds.



### Technical Parameters

Model	HR/T16MM
Maximum capacity	24 × 1.5/2.0ml
Maximum rotation Speed (r/min)	16500
Maximum centrifugal force (× g)	18780
Standard rotor	12 × 1.5/2.0ml
Revolving speed precision	± 50r/min
Refrigeration system	Import fluoride-free compressor and control valve
Temperature control range	- 20℃ ~ 40℃
Temperature control precision	± 1℃
Operation programmes	20
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Timer range	0-99h59min
Noise	≤58dB
power supply	AV220V 50Hz

### Optional fittings



12 × 1.5/2.0ml



24 × 1.5/2.0ml

Product Name	Capacity	Rotation Speed	Centrifugal Force
Angle rotor	12 × 1.5/2.0ml	16500	18780
	24 × 1.5/2.0ml	13500	17000



## TG16MW TG16MW Table-Type High-Speed Centrifuge

This series of centrifuges can be widely applied for tests featured by a small quantity of samples, a big number of procedures, large centrifuge force, and low requirements on temperature, including those performed by labs in such fields as biochemistry, genetic engineering, forestry, food and health as well as hospitals and other scientific research organizations.

### Features

- The design of the whole machine is in line with the ergonomics. With a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- Driven by a variable-frequency brushless motor to achieve quiet and clean operation.
- With a dedicated key indicating the centrifugal force.
- With a motor gate lock mute mechanical & electrical integration.
- Designed with a shock absorber to reduce vibration and achieve smooth running.
- 10 speed-up and speed-down options; the optimal speed-up time is 30 seconds, the optimal speed-down time 30 seconds.
- Rotors and adapters can be tailor-made according to customers' requirements.
- Functions can be customized according to customer's needs; man-machine interaction is direct and pragmatic.
- Can store 20 user programmes.

### Optional fittings



12 × 1.5/2.0ml



24 × 1.5/2.0ml



10 × 5ml



12 × 10ml



### Technical Parameters

Product Name	TG16MW
Maximum rotation Speed (r/min)	16500
Maximum centrifugal force (×g)	18780
Maximum capacity	12 × 10ml
Timer range	0-99h59min
Operation programmes	20
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Total Power	350w
Noise	≤65dB
Power supply	AC220V 50Hz
Capacity	17kg
Dimension	380 × 260 × 310mm

Product Name	Capacity	Maximum rotation Speed (r/min)	Maximum relative centrifugal force (×g)
Angle rotor	12 × 1.5/2.0ml	16500	18780
	18 × 1.5ml	15000	17770
	24 × 1.5/2.0ml	14000	18180
	10 × 5ml	14000	13520
	8 × 7ml	14000	12340
	12 × 10ml	12000	13400



# H/T12MM、H/T16MM、H/T18MM

## Table-Type High-Speed Centrifuge

This series of centrifuges can be widely applied for tests featured by a small quantity of samples, a big number of procedures, large centrifuge force, and low requirements on temperature, including those performed by labs in such fields as biochemistry, genetic engineering, forestry, food and health as well as hospitals and other scientific research organizations.



### Features

- The design of the whole machine is in line with the ergonomics. With a streamline design, a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- Driven by a variable-frequency brushless motor to achieve quiet and clean operation.
- With a dedicated key indicating the centrifugal force.
- With a motor gate lock mute mechanical & electrical integration.
- Designed with a shock absorber to reduce vibration and achieve smooth running.
- Rotors and adapters can be tailor-made according to customers' requirements.
- Functions can be customized according to customer's needs; man-machine interaction is direct and pragmatic.
- Can store 20 user programmes.

### Optional fittings



12 × 1.5/2.0ml

12 × 10ml

6 × 50ml

### Technical Parameters

Model	H/T12MM	H/T16MM	H/T18MM
Maximum rotation Speed(r/min)	12000	16500	18500
Maximum centrifugal force(×g)	13800	18780	23610
Maximum capacity	6 × 50ml		
Timer range	0-99h59min		
Operation programmes	20		
Total power	350w		
Noise	≤65dB		
Power supply	AC220V 50Hz		
Weight	35kg		
Dimension	500 × 440 × 330mm		

H/T12MM	Capacity	Maximum rotation Speed(r/min)	Maximum relative centrifugal force(×g)
Capillary rotor	12capillaries	12000	
	24capillaries	12000	
	36capillaries	12000	
Angle rotor	12 × 10ml	12000	13850
	6 × 50ml	10000	9620
	24 × 1.5/2.0ml	11000	11230

H/T16MM	Capacity	Maximum rotation Speed r/min )	Maximum relative centrifugal force ×g
Angle rotor	12 × 1.5/2.0ml	16500	18780
	18 × 1.5/2.0ml	15000	17770
	24 × 1.5/2.0ml	14000	18180
	10 × 5ml	13500	12570
	8 × 15ml	13500	11480
	12 × 10ml/5ml	12000	13400
	6 × 50ml	11000	11610
Swing rotor	6 × 50ml	6000	3460
	12 × 10ml	4000	2330
	2 × 2 × 48holes	3000	1400

H/T18MM	Capacity	Maximum rotation Speed r/min	Maximum relative centrifugal force ×g
Angle rotor	12 × 1.5/2.0ml	18500	23610
	18 × 1.5/2.0ml	15000	17770
	24 × 1.5/2.0ml	14000	18180
	10 × 5ml	14000	13520
	8 × 15ml	12000	14800
	12 × 10ml/5ml	12000	13400
	6 × 50ml	11000	11610
Swing rotor	6 × 50ml	6000	3460
	12 × 10ml	4000	2330
	2 × 2 × 48holes	3000	1400



## TDL5M/6M/8M Table-Type Low-Speed Refrigerated Centrifuge

### Features

- With TFT true-color LCD widescreen touch monitor featured by intelligent control, touchable/Push-button operation models for simultaneous control.
- Automatically record the operational parameters; can be directly started by RCF.
- Use a brushless motor with high torque and variable frequency, with special combination of shock absorbers to keep the motor running smoothly.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- With triple protective layers of steel bushings to achieve secure and reliable operation.
- Rotors at rest will be in standby and cool down.
- With the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 20 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.



### Optional fittings



### Technical Parameters

Model	TDL5M	TDL6M	TDL8M
Maximum capacity	Swing rotor 4 × 300ml		
Maximum rotation Speed (r/min)	5500	6500	8000
Maximum centrifugal force (× g)	4800	4800	5940
Revolving speed precision	± 50r/min		
Refrigeration system	Import fluoride-free compressor		
Temperature control range	- 20℃ ~ +40℃		
Temperature control precision	± 1℃		
Operation programmes	20		
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive		
Total Power	1.8kw		
Timer range	0-99h59min		
Noise	≤65dB		
Weight	110kg		
Dimension (L × W × H)	630 × 760 × 400mm		

Product Name	Capacity	TDL5M		TDL6M		TDL8M	
		Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force
Angle rotor	12 × 10ml	5500	4328	6500	3920	8000	5940
Swing rotor	12 × 15ml	5000	4500	5000	4500	5000	4500
	24 × 10ml	5000	4500	5000	4500	5000	4500
	4 × 250ml	4000	3290	4000	3290	4000	3290
adapter	8 × 50ml						
	24 × 15ml						
	32 × 10ml						
	40 × 5ml						
Swing rotor	4 × 50ml	5000	4600	5000	4600	5000	4600
	4 × 100ml	5000	4800	5000	4800	5000	4800
	8 × 50ml	4000	2810	4000	2810	4000	2810
	32 × 15ml	4000	2810	4000	2810	4000	2810
	32 × 10ml	4000	2810	4000	2810	4000	2810
	48 × 5ml/2ml ( Vacuum Tube )	4000	2940	4000	2940	4000	2940
	76 × 5ml/2ml ( Vacuum Tube )	4000	3100	4000	3100	4000	3100
Swing ELISA plate rotor	2 × 2 × 96holes	4000	2360	4000	2360	4000	2360



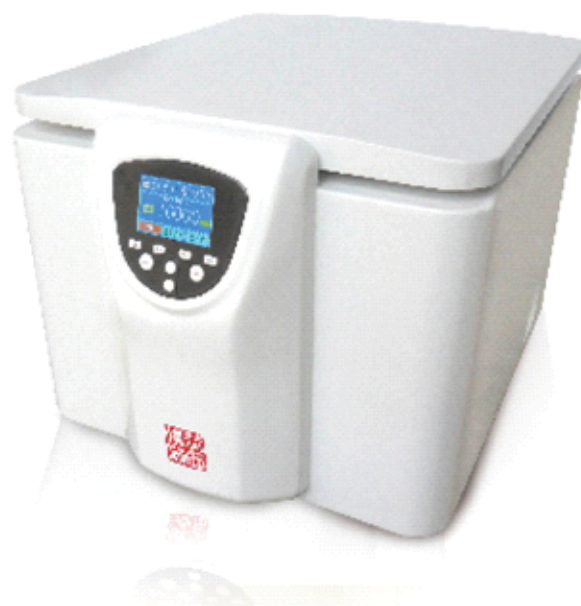
## DD5 Table-Type Large-Capacity Low-Speed Centrifuge

This machine is suitable for separation of different types of fluid done in biological, chemical, radioactive and immunity labs as well as for applications in pharmaceutical and biological products.

### Technical Parameters

Maximum rotation Speed (r/min)	5000r/min
Maximum centrifugal force (×g)	4800×g
Maximum capacity	4×500ml
Timer range	0-99min/Constant / temporary centrifugation
Noise	≤65dB
Power supply	AC220V 50Hz
Weight	50kg
Dimension(L×W×H)	586×644×370mm

Product Name	Capacity	Rotation Speed (r/min)	Centrifugal Force (×g)
Angle rotor	12×10ml	5000	3570
Swing rotor	4×500ml(round cup)	4000	3760
adapter	4×250ml/300ml		
	4×100ml		
	12×50ml		
	32×15ml		
	48×10ml		
Swing rotor	72×5ml		
	148×5ml/2ml (Vacuum Vascular)	4000	2900
	48×5ml/2ml (Vacuum Vascular)	4000	2950
	76×5ml/2ml (Vacuum Vascular)	4000	3100
	12×15ml	5000	4500
	24×10ml	5000	4500
	4×100ml	5000	4800
	8×50ml	4000	2810
	32×15ml	4000	2810
	32×10ml	4000	2810
Swing ELISA plate rotor	2×2×96holes	4000	2360



### Features

- The design of the whole machine is in line with the ergonomics, with streamlining sculpt, better looking and more efficient.
- Microcomputer-controlled; with a TFT true-color LCD widescreen touch monitor / digital indicator to meet different customers' requirements.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- Variable -frequency brushless motor that is maintenance- and dust-free to achieve quiet and clean operation.
- 10 levels for speed-up/speed-down control.
- With a dedicated key for indicating the centrifugal force; parameters adjustable at any time during the operation with no need to shut off the machine.
- With a motor gate lock mute mechanical & electrical integration.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.
- A variety of swing rotors and angle rotors applicable for universal tubes and microtiter plates to be chosen by customers.
- Can store 20 user programmes.

### Optional fittings



4 × 500ml



4 × 250ml



32 × 15ml



8 × 50ml



4 × 100ml



Micro-plate rotor

## TD6/TDZ6-WS Table-type low speed Multi-place-carrier centrifuge

The centrifuge is widely applied in science and research units of biology, chemistry, radio-immunity, medicine, pharmacy, food and environmental protection, to make separation of biological product and blood sample.

### Technical Parameters

Product Name	TD6	TDZ6-WS
Maximum rotation Speed (r/min)	6000	6000
Maximum centrifugal force (×g)	5140	5140
Maximum capacity	4 × 250ml	4 × 100ml
Timer range	0-99h59min/Constant / temporary centrifugation	
Total power	500w	
Noise	≤65dB	
Power supply	AC220V 50Hz	
Weight	35kg	
Dimension (L × W × H)	600 × 540 × 360mm	

TD6	Capacity	Rotation Speed(r/min)	Centrifugal Force(×g)
Angle rotor	12 × 10ml	6000	5140
Swing rotor	16 × 15ml	5000	4400
	24 × 10ml	4000	2810
	4 × 250ml	4000	3290
adapter	8 × 50ml		
	24 × 15ml		
	32 × 10ml		
Swing rotor	40 × 5ml		
	4 × 50ml	5000	4600
Swing rotor	4 × 100ml	5000	4800
Swing ELISA plate rotor	2 × 2 × 96 holes	4000	2360

TDZ6-WS	Capacity	Rotation Speed(r/min)	Centrifugal Force(×g)
Angle rotor	12 × 10ml	6000	5140
Swing rotor	4 × 50ml	5000	4600
	4 × 100ml	5000	4800
	8 × 50ml	4000	2810
	32 × 15ml	4000	2810
	32 × 10ml	4000	2810
	48 × 5ml/2ml (Vacuum Vascular)	4000	2940
	76 × 5ml/2ml (Vacuum Vascular)	4000	3100
Swing ELISA plate rotor	2 × 2 × 96 holes	4000	2360



### Features

- The design of the whole machine is in line with the ergonomics, with streamlining sculpt. With a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- Microcomputer-controlled; with a TFT true-color LCD widescreen touch monitor / digital indicator to meet different customers' requirements.
- Variable -frequency brushless motor that is maintenance- and dust-free to achieve quiet and clean operation.
- 10 kinds of speed-up and speed-down options. Can store 20 user program which can be directly used by the user. The program previously used will be running when the machine is started.
- With a dedicated key for indicating the centrifugal force.
- With a motor gate lock mute mechanical & electrical integration.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.
- A variety of swing rotors and angle rotors applicable for universal tubes and microtiter plates to be chosen by customers. Pictures of the rotor can be shown during the operation to make the running more human-centered.
- Functions can be customized according to customers' needs; man-machine interaction is direct and pragmatic.

### Optional fittings







## TD5A/TD5 Table-Type Low-Speed Centrifuge

This series is widely applicable in experiments and scientific researches of various fields such as biochemistry, chemistry, medicine and pharmacology, agriculture and forestry science, food safety, blood stations, clinical test, etc.



### Features

- Enhanced ergonomics to achieve a streamline design that is safe, aesthetic and practical.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- Variable -frequency brushless motor that is maintenance- and dust-free.
- 10 kinds of speed-up and speed-down options. Can store 20 user program which can be directly used by the user. The program previously used will be running when the machine is started.
- With a dedicated key for indicating the centrifugal force.
- With a motor gate lock mute mechanical & electrical integration.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.
- A variety of swing rotors and angle rotors applicable for universal tubes and microtiter plates to be chosen by customers. Pictures of the rotor can be shown during the operation to make the running more human-centered.

### Technical Parameters

Product Name	TD5A	TD5
Maximum rotation Speed (r/min)	5500	5000
Maximum centrifugal force (× g)	4800	4800
Maximum capacity	4 × 250ml	4 × 250ml
Timer range	0-99h59min/Constant / temporary centrifugation	
Operation programmes	20	
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive	
Total Power	500w	
Noise	≤65dB	
Power supply	AC220V 50Hz	
Weight	35kg	
Dimension ((L × W × H)	600 × 540 × 360mm	

Product Name	Capacity	TD5A		TD5	
		Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force
Angle rotor	12 × 10ml	5500	4328		
Swing rotor	12 × 15ml	5000	4500		
	24 × 10ml	5000	4500		
	4 × 250ml	4000	3290	4000	3290
adapter	8 × 50ml				
	24 × 15ml				
	32 × 10ml				
	40 × 5ml				
Swing rotor	4 × 50ml	5000	4600	5000	4600
	4 × 100ml	5000	4800	5000	4800
	8 × 50ml	4000	2810	4000	2810
	24 × 15ml	4000	2810	4000	2810
	32 × 15ml	4000	2810	4000	2810
	32 × 10ml	4000	2810	4000	2810
	48 × 5ml/2ml (Vacuum Vascular)	4000	2940	4000	2940
	76 × 5ml/2ml (Vacuum Vascular)	4000	3100	4000	3100
Swing ELISA plate rotor	2 × 2 × 96holes	4000	2360	4000	2360

### Optional fittings



12 × 10ml



4 × 250ml



32 × 15ml



8 × 50ml



48 × 5ml



Micro-plate rotor

## TDZ5/TDZ5-WS Table-Type Low-Speed Centrifuge



### Features

- Enhanced ergonomics to achieve a streamline design that is safe, aesthetic and practical.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- Variable –frequency brushless motor that is maintenance- and dust-free.
- 10 kinds of speed-up and speed-down options. Can store 20 user program which can be directly used by the user. The program previously used will be running when the machine is started.
- With a dedicated key for indicating the centrifugal force.
- With a motor gate lock mute mechanical & electrical integration.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.

### Technical Parameters

Model	TDZ5	TDZ5-WS
Maximum capacity(r/min)	4 × 100ml	4 × 100ml
Maximum rotation Speed (r/min)	5000	5000
Maximum centrifugal force (× g)	4600	3580
Rotation speed precision	± 50r/min	
Timer range	0-99h59min	
Operation programmes	20	
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive	
Total Power	450W	350W
Power supply	AC220V 50Hz	
Noise	≤65dB	
Dimension (L × W × H)	600 × 540 × 360mm	500 × 450 × 280mm
Weight	35kg	25kg

### Optional fittings



12 × 10ml



32 × 15ml



8 × 50ml



48 × 5ml

Product Name	Capacity	TDZ5		TDZ5-WS	
		Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force
Angle rotor	12 × 15ml			5000	3580
	18 × 10ml			4000	2600
	24 × 10ml			4000	2600
Swing rotor	4 × 50ml	5000	4600	4000	2100
	4 × 100ml	5000	4800	4000	2100
	8 × 50ml	4000	2810		
	16 × 15ml			4000	2810
	32 × 15ml	4000	2810		
	32 × 10ml	4000	2810		
	48 × 5ml/2ml (Vacuum Vascular)	4000	2940		
	76 × 5ml/2ml (Vacuum Vascular)	4000	3100		

## TD4/TDZ4/TDZ4-WS Table-Type Low-Speed Centrifuge

A standard piece of equipment used for separation and preparation of liquids laden with suspended matter, this machine is suitable for applications in labs and research institutes in such fields as biochemistry, medical science, pharmacy, clinical trials, food and environment protection.

### Features

- The design of the whole machine is in line with the ergonomics, with streamlining sculpt. With a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- Microcomputer-controlled; with a TFT true-color LCD widescreen touch monitor / digital indicator.
- Driven by a variable-frequency brushless motor to achieve quiet and clean operation.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.
- Rotors and adapters can be tailor-made according to customers' requirements.
- Functions can be customized according to customer's needs; man-machine interaction is direct and pragmatic.



8 × 20ml



24 × 10ml



### Technical Parameters

Product Name	TD4	TDZ4	TDZ4-WS
Maximum rotation Speed (r/min)	4000		
Maximum centrifugal force (× g)	2200	2600	2100
Maximum capacity	8 × 20ml	12 × 20ml, 18 × 10ml 24 × 10ml	4 × 50ml, 4 × 100ml 12 × 15ml
Rotation speed precision	± 30R/min		
Timer range	0-99h59min/Constant / temporary centrifugation		
Noise	≤60dB		
Power supply	AC220V 50Hz		
Weight	18kg	20kg	
Dimension (L × W × H)	380 × 260 × 310mm	500 × 450 × 280mm	



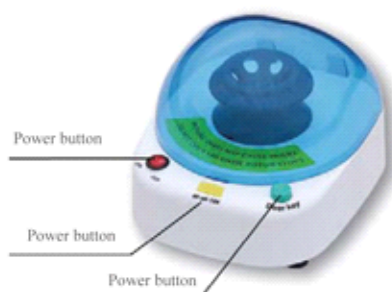
## Mini Centrifuge

### Features

- Exquisite appearance, attractive coloring, streamline design, and small size.
- Wearable, durable, safe and reliable
- Micro DC motor and carbon-fiber rotor, combined with patented silence technology to reduce the operating noise to the minimum.

### Technical Parameters

Model	1H4K	1H6K	1H10K
Maximum rotation Speed (r/min)	4000r/min	6000r/min	10000r/min
Maximum centrifugal force (× g)	900 × g	2000 × g	5000 × g
Rotor Configuration	6 × 1.5/0.5/0.2ml	6 × 1.5/0.5/0.2ml 2 × 8 × 0.2ml	6 × 1.5/0.5/0.2ml 2 × 8 × 0.2ml
Dimension (L × W × H)	170 × 150 × 130mm	170 × 150 × 130mm	170 × 150 × 130mm
Weight	1.25kg	1.25kg	1.25kg



## 800 Bench top Low Speed Centrifuge

Apply to health care, biochemistry, laboratories, factories and other units of the eyelids precipitation separation.

### Feature

- Exquisite appearance, small size, easy operation and stable performance.
- Stainless steel shell, made from aluminum alloy rotor, low noise and vibration.
- 800E has a timer function and cover switching safety devices, human and machine safety.



Product Name	800	800E
Maximum rotation Speed (r/min)	4000	4000
Maximum centrifugal force (× g)	1790	1790
Maximum capacity	6 × 20ml	6 × 20ml
Rotor style	Angle rotor	Angle rotor
Time range	No	0~30min
Adjust speed	Yes	Yes
Power	AC220V 50Hz	AC220V 50Hz
Weight	4.7kg	5.0kg
Dimension (L×W×H)	250 (Φ) × 270 (h) mm	250 (Φ) × 270 (h) mm

## HR26M High-Speed Refrigerated Centrifuge

### Features

- AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Imported variable frequency drive system and automatic control system to ensure steady and reliable operation.
- France-based Tecumseh's compressor unit is used for the refrigeration system which allows free temperature adjustment and achieves high-precision temperature controls and reduced noise.
- Maximum capacity  $4 \times 1000\text{ml}$ .
- Multiple protections such as overheat, hypervelocity, electronic locking, and imbalance.
- Metallic structure with a stainless steel cavity, hence strong and durable.
- Intelligent interface featured by a TFT true-color LCD widescreen touch monitor, microcomputer control and simultaneous indication of both the set parameters and operation ones.
- With 16 operation programs to be set by the user and the control parameters of the rotor to be modified at any time.
- Operations can be programmed; 10 levels of speed-up and speed-down time limits for the user to choose freely.
- Can indicate the ascending and declining curves of the rotor, the centrifugal integral curves and the temperature curves.

### Optional fittings



6 × 50ml



6 × 500ml



4 × 1000ml



### Technical Parameters

Model	HR26M
Maximum capacity	$4 \times 1000\text{ml}$
Maximum rotation Speed(r/min)	25000
Maximum centrifugal force( × g)	64983
Standard rotor	$24 \times 1.5/2.0\text{ml}$
Revolving speed precision	$\pm 30\text{r/min}$
Refrigeration system	Import fluoride-free compressor and control valve
Temperature control range	$-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Temperature control precision	$\pm 1^{\circ}\text{C}$
Timer range	0-99h59min
Noise	$\leq 65\text{dB}$
Power supply	AC220V 50Hz
Weight	260kg
Dimension (L × W × H)	$840 \times 730 \times 960\text{mm}$

Product Name	Capacity	Maximum rotation Speed	Maximum centrifugal force
Angle rotor	$24 \times 1.5/2.0\text{ml}$	25000	64983
	$18 \times 10\text{ml}$	23000	60460
	$8 \times 50\text{ml}$	21000	52356
	$4 \times 250\text{ml}$	15000	33800
	$6 \times 250\text{ml}$	14000	30070
	$6 \times 500\text{ml}$	10000	17700
	$4 \times 1000\text{ml}$	8000	12040



## HR/T20MM Free Standing Type High-Speed Refrigerated Centrifuge

Mainly applied in a variety of fields such as biochemistry, medical treatment and public health, food safety, life science, forestry, animal husbandry, blood banks, blood stations, biological products and pharmaceutical products. It is the ideal equipment for separation, precipitation, concentration and preparation of samples and a high-tech product that can compare favorably with import ones and be exported in large quantities.

### Features

- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- Use a brushless motor with high torque and variable frequency which is controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- The design of the whole machine is in line with the ergonomics. With a streamline design, a complete steel structure and a stainless steel centrifuge cavity, it is safer, better looking and more efficient.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly. With triple protective layers of steel bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- Rotors at rest will be in standby and cool down.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- With a motor gate lock mute mechanical & electrical integration.
- Able to provide more than 20 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.
- Maximum rotation speed: 20600r/min, Maximum capacity: 4 × 750ml.



### Technical Parameters

Model	HR/T20MM
Maximum capacity	Swing bucket rotor 4 × 750ml
Maximum rotation Speed (r/min)	20600
Maximum centrifugal force (× g)	29400
Standard rotor (Titanium alloy)	12 × 1.5/2.0ml
Revolving speed precision	± 50r/min
Refrigeration system	Import fluoride-free compressor
Temperature control range	-20℃ ~ +40℃
Temperature control precision	± 1℃
Operation programmes	20 groups
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Total power	2.0kw
Timer range	0-99h59min
Noise	≤ 65dB
Rotor identification	Automatic rotor identification function
Weight	150kg
Dimension (L × W × H)	710 × 560 × 770mm



# HR/T20MM Free Standing Type High-Speed Refrigerated Centrifuge

Product Name	Capacity	HR/T20MM	
		Rotation Speed (r/min)	Centrifugal Force(×g)
Angle rotor	12 × 1.5/2.0ml	20600	29400
Swing rotor	4 × 750ml	4000	3500
	4 × 500ml	4000	3580
Adapter	4 × 250ml		
	4 × 8 × 15ml		
	4 × 12 × 10ml		
	4 × 3 × 50ml		
	4 × 19 × 5ml (Vacuum Vascular)		
Angle rotor	24 × 1.5/2.0ml	14000	18180
	12 × 10ml	14000	18800
	8 × 15ml	12000	14800
	6 × 50ml	12000	13800
	8 × 50ml	10000	10500
	4 × 100ml	10000	10500
	6 × 100ml	11000	14520
	6 × 250ml	8000	9200
Micro-plate rotor	2 × 2 × 96 holes	4000	2360

## Optional fittings



12 × 1.5/2.0ml



24 × 1.5/2.0ml



12 × 10ml



8 × 15ml



6 × 50ml



4 × 100ml



6 × 100ml



4 × 750ml



4 × 500ml



4 × 250ml



ELISA plate rotor



4 × 250ml



32 × 15ml



76 × 5ml (Vacuum Vascular)

## LR10M High-Speed Large-Capacity Refrigerated Centrifuge

### Features

- AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Imported variable frequency drive system and automatic control system to ensure steady and reliable operation.
- Import compressor unit is used for the refrigeration system which allows free temperature adjustment and achieves high-precision temperature controls and reduced noise.
- Maximum capacity  $6 \times 1000\text{ml}$ , maximum rotation speed 10000 rpm.
- Multiple protections such as overheat, hypervelocity, electronic locking, and imbalance.
- Metallic structure with a stainless steel cavity, hence strong and durable.
- Intelligent interface featured by a TFT true-color LCD widescreen touch monitor, microcomputer control and simultaneous indication of both the set parameters and operation ones.
- With 16 operation programs to be set by the user and the control parameters of the rotor to be modified at any time.
- Operations can be programmed; 10 levels of speed-up and speed-down time limits for the user to choose freely.
- Can indicate the ascending and declining curves of the rotor, the centrifugal integral curves and the temperature curves.



### Technical Parameters

Model	LR10M
Maximum capacity	$6 \times 1000\text{ml}$
Maximum rotation Speed (r/min)	10000 r/min
Maximum centrifugal force ( $\times g$ )	$18300 \times g$
Revolving speed precision	$\pm 50\text{r/min}$
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Compression engine	Import high-performance compressor
Operation programmes	16
Temperature control range	$-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Temperature control precision	$\pm 1^{\circ}\text{C}$
Timer range	0-99h59min
Total power	5.7KW
Noise	AC220V 50Hz
Noise	$<68\text{dB (A)}$
Dimension (L $\times$ W $\times$ H)	$840 \times 730 \times 950\text{mm}$
Weight	280kg

### Optional fittings



Product Name	Capacity	Rotation Speed( r/min)	Centrifugal Force( $\times g$ )
Angle rotor	$6 \times 300\text{ml}$	10000	18300
	$6 \times 500\text{ml}$	8000	11800
	$6 \times 1000\text{ml}$	7000	11500
Swing rotor	$6 \times 1000\text{ml}$	4200	5100



## LRM-12L Super-Capacity Refrigerated Centrifuge

Widely applicable in fields including medical treatment (such as hospitals, treatment and control centers, blood centers, husbandry, aquaculture, radiation and immunization), researching (institutions of higher education, research institutes, R&D centers and labs) and production (such as bioengineering, bio-pharmacy, genetic engineering, biochemistry, plant extraction, blood preparation, food processing, petrochemical engineering and cream separation).

### Features

- AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Imported variable frequency drive system and automatic control system to ensure steady and reliable operation.
- Import compressor unit is used for the refrigeration system which allows free temperature adjustment and achieves high-precision temperature controls and reduced noise.
- With the capacity  $6 \times 2400\text{ml}$  or able to separate 18 bags of  $400\text{ml}$  whole blood at a time.
- Multiple protections such as overheat, hypervelocity, electronic locking, and imbalance. With four protective layers of bushings to achieve secure and reliable operation as well as personnel and equipment safety.
- Intelligent interface featured by a TFT true-color LCD widescreen touch monitor, microcomputer control and simultaneous indication of both the set parameters and operation ones.
- With 16 operation programs to be set by the user and the control parameters of the rotor to be modified at any time.
- Operations can be programmed; 10 levels of speed-up and speed-down time limits for the user to choose freely, able to minimize the sample's heavy suspension
- Can indicate the ascending and declining curves of the rotor, the centrifugal integral curves and the temperature curves.



### Technical Parameters

Model	LRM-12L
Maximum capacity	$6 \times 3 \times 400\text{ml}$ or $6 \times 2400\text{ml}$
Maximum rotation Speed (r/min)	4600 r/min
Maximum centrifugal force ( $\times g$ )	$7060 \times g$
Revolving speed precision	$\pm 50\text{r/min}$
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive
Compression engine	Import high-performance compressor
Operation programmes	16
Temperature control range	$-20^\circ\text{C} \sim +40^\circ\text{C}$
Temperature control precision	$\pm 1^\circ\text{C}$
Timer range	0-99h59min
Total power	6KW
Power supply	AC220V 50Hz
Noise	$< 68\text{dB (A)}$
Dimension (L $\times$ W $\times$ H)	$860 \times 960 \times 1200\text{mm}$
Weight	450kg

### Optional fittings

6  $\times$  2400ml6  $\times$  2  $\times$  1000ml

Cup set

Product Name	Capacity	Rotation Speed	Centrifugal Force
Swing rotor	$6 \times 2 \times 1000\text{ml}$	4200	5900
	$6 \times 2400\text{ml}$	4600	7060



## ES5000 Intelligent Electronic Balance

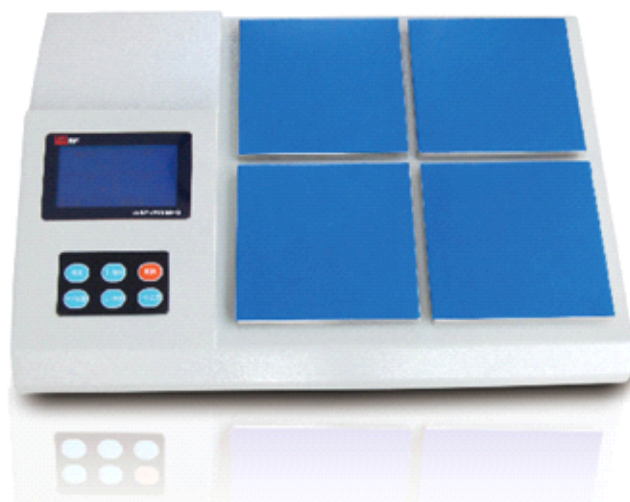
ES5000 Intelligent Electronic Balance, a good helper for blood component separation, centrifuge the best partner. With the rapid increase of the number of configurations of the blood component, in the preparation of the program, common using a large capacity low temperature centrifuge. After blood collection, blood bags can not be completely the same amount, supporting the use of centrifuge ES5000 intelligent balancing, accurate and efficient configuration, so as to ensure the quality of blood separation and to improve the life of the centrifuge, blood components prepared professional ideal equipment.

### Feature:

- Series of products to meet a variety of weighing needs
- Large capacity of the tray easy for set the sample.
- Easy operation, reading number directly.
- Micro control, precision measure.
- One machine with two functions, not only can measure also can be weighed

### Balancing instrument dedicated with heavy weights

1. Selection of high quality silicone rubber, non-toxic and tasteless
  2. Monolithic precision 0.1g, total weight 49g.
- Including: 2x3g 2x4g 1x5g 1x10g 1x20g



### Technical Parameters

Product Name	ES5000-2	ES5000-4	ES5000-6
Single weight fo tray	5000g	5000g	5000g
Number of tray	2	4	6
Readable resolution	1g	1g	1g
Repeatable	1g	1g	1g
Linear	1g	1g	1g
Use of the environment	10-35℃	10-35℃	10-35℃
Sensitivity drift	0.005%	0.005%	0.005%
Stable time	1.5s	1.5s	1.5s
Single tray demission	175X175	175X175	175X175
Power	AC220V50Hz	AC220V50Hz	AC220V50Hz
Demission(mm)	365×440×110	550×400×110	735×400×110

# LR6M/LR7M/LR8M Low-Speed Large-Capacity Refrigerated Centrifuge



## Features

- AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Imported variable frequency drive system and automatic control system to ensure steady and reliable operation.
- France-based Tecumseh's compressor unit is used for the refrigeration system which allows free temperature adjustment and achieves high-precision temperature controls and reduced noise.
- Maximum capacity 6 × 1000ml, Swing rotor.
- Multiple protections such as overheat, hypervelocity, electronic locking, and imbalance.
- Metallic structure with a stainless steel cavity, hence strong and durable.
- Intelligent interface featured by a TFT true-color LCD widescreen touch monitor, microcomputer control and simultaneous indication of both the set parameters and operation ones.
- With 16 operation programs to be set by the user and the control parameters of the rotor to be modified at any time.
- Operations can be programmed; 10 levels of speed-up and speed-down time limits for the user to choose freely.
- Can indicate the ascending and declining curves of the rotor, the centrifugal integral curves and the temperature curves.

## Technical Parameters

Model	LR6M	LR7M	LR8M
Maximum capacity	6 × 1000ml	6 × 1500ml	6 × 1500ml
Maximum rotation Speed(r/min)	6000	7000	8000
Maximum centrifugal force(×g)	6680	8620	11260
Revolving speed precision	± 50r/min		
motor	Variable Frequency Motor		
Compression engine	Import high-performance compressor		
Control mode	PC control		
Operation programmes	16		
Temperature control range	-20℃ ~ +40℃		
Temperature control precision	± 1℃		
Timer range	0-99h59min		
Total power	4.0kw		
Power supply	AC220 V/50 Hz 30A		
Noise	<68dB(A)		
Dimension (L × W × H)	840 × 730 × 950 mm		
Capacity	270kg		

## Optional fittings



6 × 1000ml



6 × 500ml

Product Name	Capacity	LR6M		LR7M		LR8M	
		Rotation Speed (r/min)	Centrifugal Force (×g)	Rotation Speed(r/min)	Centrifugal Force(×g)	Rotation Speed(r/min)	Centrifugal Force(×g)
Angle rotor	6 × 500ml	6000	6680	7000	8620	8000	11260
Swing rotor	6 × 1000ml	4200	5100				
	4 × 1000ml	4000	4050	4000	4050	4000	4050



# LR5M(Refrigerated)/DD5M(Normal temperature)

## Low-Speed Large-Capacity Refrigerated Centrifuge

### Features

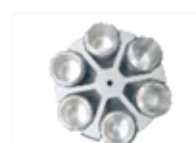
- Use AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- The design of the whole machine is in line with the ergonomics. With a streamline design, a complete steel structure and a stainless steel centrifuge cavity.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- Able to provide 20 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.
- Maximum rotation speed: 5000r/min Maximum capacity: 6 × 500ml.



### Technical Parameters

Model	LR5M	DD5M
Maximum capacity	6 × 500ml	6 × 500ml
Maximum rotation Speed (r/min)	5000 r/min	
Maximum centrifugal force (× g)	4390 × g	
Revolving speed precision	± 50r/min	
Control and drive systems	AV Variable Frequency Motor, Microcomputer control	
Compression engine	Import compressor, CFCfree refrigerant	No refrigeration
Operation programmes	20	
Temperature control range	-20℃ ~ +40℃	
Temperature control precision	± 1℃	
Timer range	0-99h59min	
Total power	2.0kw	0.8kw
Noise	≤65dB (A)	
Dimension (L × W × H)	740 × 620 × 900mm	
Weight	180kg	85kg

### Optional fittings



6 × 500ml



4 × 500ml



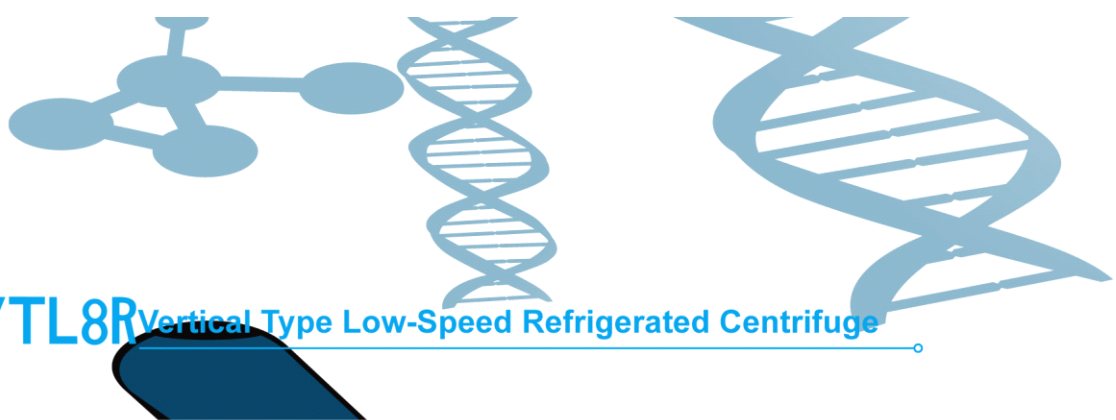
32 × 15ml



Micro-plate rotor

	Capacity	Rotation Speed( r/min)	Centrifugal Force(×g)
Swing rotor	148 × 7ml	4000	3780
	6 × 500ml	3600	2980
	4 × 500ml	4000	3780
	4 × 250ml	4000	3600
	4 × 100ml	5000	4390
	32 × 15ml	4000	2810
	8 × 50ml	4000	2810
	48 × 5ml	4000	2810
	76 × 5ml	4000	2810
	2 × 2 × 96holes	4000	2360
Swing ELISA plate rotor	2 × 2 × 96holes	4000	2360





## TL5R/TL6R/TL8R Vertical Type Low-Speed Refrigerated Centrifuge

TLR series table-type large capacity refrigerated centrifuge, up to  $4 \times 750\text{ml}$ , is widely applied in biochemistry product, science and research, teaching, food safety, health and medicine, blood station, hospital, molecular biotechnology, environmental protection.



### Features

- Use AV motor of variable frequency and high torque, free from contamination caused by carbon dust, which helps to prolong the service life.
- Controlled by an SCM of Microchip's dsPIC30F Series and driven by a special driver module of FAIRCHILD's FSBB30CH Series to ensure the circuit's reliability.
- With TFT true-color LCD widescreen touch monitor featured by intelligent control, easy and convenient operation, a touch panel and a simultaneous indication of both the set parameters and operation ones.
- The design of the whole machine is in line with the ergonomics. With a streamline design, a complete steel structure and a stainless steel centrifuge cavity.
- With multiple protection measures such as super speed, over heat and imbalance as well as a special combination of shock absorbers to keep the motor running smoothly.
- With a dedicated key indicating the centrifugal force which has the inching function for momentary centrifugation.
- Able to provide 20 kinds of operating modes for the user to programme and use freely.
- 10 levels for speed-up/speed-down control.
- Maximum rotation speed: 8000r/min Maximum capacity:  $4 \times 750\text{ml}$ .

### Technical Parameters

Model	TL5R	TL6R	TL8R
Maximum capacity	Swing bucket rotor $4 \times 750\text{ml}$		
Maximum rotation Speed (r/min)	5500	6500	8000
Maximum centrifugal force ( $\times g$ )	4800	4800	5940
Rotation speed precision	$\pm 50\text{r/min}$		
Refrigeration system	Import fluoride-free compressor		
Temperature control range	$-20^\circ\text{C} \sim +40^\circ\text{C}$		
Temperature control precision	$\pm 1^\circ\text{C}$		
Operation programmes	20		
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive		
Total power	2.0kw		
Timer range	0-99h59min		
Noise	$\leq 65\text{dB}$		
Rotor identification	Automatic rotor identification function		
Weight	150kg		
Dimension (L $\times$ W $\times$ H)	710 $\times$ 560 $\times$ 770mm		

# TL5R/TL6R/TL8R Free Standing Type Low-Speed Refrigerated Centrifuge

Product Name	Capacity	TL5R		TL6R		TL8R	
		Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force	Rotation Speed	Centrifugal Force
Angle rotor	12 × 10ml	5500	3580	6500	3920	8000	5940
Swing rotor	4 × 750ml	4000	3500	4000	3500	4000	3500
Swing rotor	4 × 500ml(Round cup )	4000	3780	4000	3780	4000	3780
Adapter	4 × 250ml/300ml						
	4 × 100ml						
	12 × 50ml						
	36 × 15ml						
	72 × 10ml						
	72 × 5ml						
Swing rotor	148 × 5ml/2ml (Vacuum Vascular)	4000	2900	4000	2900	4000	2900
	48 × 5ml/2ml (Vacuum Vascular)	4000	2950	4000	2950	4000	2950
	76 × 5ml/2ml (Vacuum Vascular)	4000	3100	4000	3100	4000	3100
	16 × 15ml	5000	4500	5000	4500	5000	4500
	4 × 100ml	5000	4800	5000	4800	5000	4800
	24 × 10ml	4000	2810	4000	2810	4000	2810
	8 × 50ml	4000	2810	4000	2810	4000	2810
	32 × 15ml	4000	2810	4000	2810	4000	2810
	32 × 10ml	4000	2810	4000	2810	4000	2810
Swing <b>Micro-plate</b> rotor	2 × 2 × 96holes	4000	2360	4000	2360	4000	2360

## Optional fittings



4 × 750ml



4 × 500ml



4 × 250ml



32 × 15ml



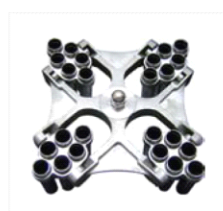
ELISA plate rotor



4 × 100ml



8 × 50ml



24 × 10ml



76 × 5ml (Vacuum Vascular)



32 × 15ml

## DD5/DD5M Automatic Uncovering Centrifuge

### Features

- The design of the whole machine is in line with the ergonomics, with streamlining sculpt, better looking and more efficient.
- Microcomputer-controlled; with a TFT true-color LCD widescreen touch monitor / digital indicator to meet different customers' requirements.
- With a complete steel structure and a stainless steel centrifuge cavity, it is sturdy and durable.
- Variable-frequency brushless motor that is maintenance- and dust-free to achieve quiet and clean operation.
- 10 levels for speed-up/speed-down control.
- With a dedicated key for indicating the centrifugal force; parameters adjustable at any time during the operation with no need to shut off the machine.
- With a motor gate lock mute mechanical & electrical integration.
- Multiple layers of shock absorbers with the function of automatic balancing to achieve smooth operation.
- A variety of swing rotors and angle rotors applicable for universal tubes and microtiter plates to be chosen by customers.
- Can store 20 user programmes.

### Optional fittings



48 × 7/5ml



76 × 7/5ml



124 × 7/5ml



### Technical Parameters

Model	DD5 (Uncovering)	DD5M (Uncovering)
Maximum capacity	4 × 500ml	4 × 500ml
Separation numbers of blood collection tube	76cigarettes	96cigarettes
Maximum rotation Speed (r/min)	4000r/min	4000r/min
Maximum centrifugal force (×g)	3780 × g	3780 × g
Revolving speed precision	± 50r/min	± 50r/min
Control and drive systems	AV Variable Frequency Motor, Microcomputer control, Direct drive	
Operation programmes	20	
Timer range	0-99h59min	
Power supply	AC220V 50Hz	
Noise	≤65dB (A)	
Total power	800w	1000w
Dimension (L × W × H)	586 × 644 × 370mm	710 × 560 × 770mm
Weight	50kg	75kg



# H/T12MM Blood Centrifuge

## Feature

- Blood centrifuge is a test for blood group serology, blood type routine test, micro surgery Gel, erythrocyte washing and immunoassay development dedicated centrifuge. Set a variety of different test procedures, control precision, easy to use.

## Specification Parameters

Max Speed (r/min)	4000r/min
Max RCF (×g)	2200Xg
Power	220V 50HZ
Total Power	200W
Dimension (L×W×H)	500×450×280
Weight	20Kg



Rotor Name				Applications
Red blood cell cleaning SERO rotor	1	500	60	Blood determination, hemagglutination reflect observed
	2	1000	15	Cross-suitability experiment, engage ball prime experiment
	3	1000	60	The extraction of the blood cell washing, serum, plasma
The lymphocyte cleaning HLS rotor	4	2000	180	Lymphocytes were isolated, cultured cell separation
	5	1000	3	Removal of platelets (thrombin)
	6	1000	60	Lymphocyte cleaning
Blood type card rotor	7	2500		6 and 8 associated column the micro blood type card, 24 cards

Note: Could according to customer's request to modify the rotor.

## Option fittings





## TLW5R Table-type Daisy Centrifuge

TLW5R Table type Dairy centrifuge is the special equipment for milk and dairy standard for analytical methods. Applicable to pasteurization, cover Bo law to separate fat milk and dairy products, measurement and analysis. Having the function of heating thermostat, and the temperature was maintained at 50 °C or more, which not only can reduce the time of the sample water bath, as well as the test results more reliable. Mainly applicable in dairy enterprises for testing, is commonly used in dairy inspection equipment.

### Feature

- With TFT true-color LCD wide-screen touch monitor.
- Intelligent micro control, easy and convenient operation
- Perfect design, easy and convenient operation.



Product Name	TLW5R
Rotor style	Angle
Centrifugal tubes	8 tubes
Maximum speed	1500rpm
Maximum RCF	504×g
Speed precision	±50r/min
Temp.Range	Room Temp +10℃~65℃
Time Range	0-99h59min
Control and driven system	Frequency motor, micro control, direct drive
Total power	1.5KW
Noise	≤60dB
Power	AC220V 50Hz
Weight	35kg
Dimensions (L×W×H)	520×415×330

## TD5T/LT6Y Petroleum centrifuge

### Feature

- TD5T/LY6Y petroleum centrifuge is specially designed for measuring water and deposit in petroleum, in line with GB/T6533-86 standards. It can be used for measuring water and deposit of the crude oil by separation method of centrifuge, as an ideal separation facility of water determination for oil exploitation and research units. Even and fast heating with high precision control.
- Controlled by the microcomputer and driven by the brushless DC motor of variable frequency and high torque, steady speed, reduced motor noise and no need of daily maintenance.
- Steel-made structure with protections of hypervelocity and imbalance to ensure the safety of the user and the machine.
- Two ways of display including PLC and LED for the user to choose, control parameters such as speed, temperature, and duration can be freely set by the user and changed during the operation to achieve easier application.



### Specification Parameters

	TD5T	LT6Y
Maximum capacity	4×250ml	4×8×15ml
Maximum rotate speed	5000r/min	5000r/min
Maximum RCF	4200×g	4200×g
Rotate speed precision	±50r/min	±50r/min
Motor		
Control temperature range	+10℃~70℃	+10℃~80℃
Temperature control precision	±2℃	±2℃
Time range	0-99h59min	0-99h59min
Noise	≤60dB	≤65dB
Power	AC220V 50Hz	AC220V 50Hz
Weight	50kg	70kg
Dimension(LxWxH)	600×540×360mm	600×490×760mm





## ZLS-1/ZLS-2 Vacuum Concentrator Centrifuge

Vacuum concentrator centrifuges of ZLS Series combine functions of centrifugation, vacuumizing and heating to effectively evaporate solutions and efficiently recycle biological or analytical samples with wide applications in such fields as life science, chemistry and pharmacy.



### centrifugal concentration system components

Vacuum Centrifugal Concentrator

Concentrated rotor

Cold trap

Vacuum pump

Filter

Condensate bottle

### Features

- With a TFT true-color LCD widescreen touch monitor, intelligent microprocessor control, and an easy and direct operation interface.
- Aluminum-alloy-made drying room, the inside of which is covered with an corrosion-resistant coating.
- Maintenance-free and non-contact drive and rotation system.
- Exquisite design; easy operation; convenient operation.
- Multiple options of different types of rotors which are compatible with the machine.
- Transparent covering favorable for observing the operation status.
- Condensation time: 0~99h59min.
- Able to be used in combination with the cold trap.

### Optional fittings



62 × 1.5ml



12 × 10ml



6 × 50ml

### Technical Parameters

	ZLS-1	ZLS-2
Rotor capacity	1.5ml × 62	10ml × 12 or 50ml × 6
Rotation speed (r/min)	1350	1500
temperature range	room temperature ~ 55 °C or no temperature increase	room temperature ~ 60 °C or no temperature increase
Vacuum pump	optional	optional
Dimensions (L × W × H)	500 × 490 × 280mm	500 × 490 × 280mm

## ZLS-3 Vacuum Concentrator Centrifuge



### Features

- With a TFT true-color LCD widescreen touch monitor, intelligent microprocessor control, and an easy and direct operation interface.
- Aluminum-alloy-made drying room, the inside of which is covered with an corrosion-resistant coating.
- Maintenance-free and non-contact drive and rotation system.
- Exquisite design; easy operation; convenient operation.
- Multiple options of different types of rotors which are compatible with the machine.
- Transparent covering favorable for observing the operation status.
- Condensation time: 0-99h59min.
- Able to be used in combination with the cold trap.
- Maximum condensation capacity.

### Technical Parameters

ZLS-3	
Rotor capacity	250ml × 6 (50ml × 6 × 2 or 20ml × 6 × 5 adapter)
Rotation speed (r/min)	2000r/min
temperature range	room temperature ~60℃ or no temperature increase
Vacuum pump	optional
Dimensions (L × W × H)	600 × 540 × 360mm

### Optional fittings



6 × 250ml



6 × 5 × 20ml

## Cold Trap

The evaporation rate is influenced by the energy that has been absorbed and the speed of the vacuum pump. A relatively large evaporation surface area of a sample, rather than the sample capacity and quantity, is the bottleneck that affect the efficiency of the vacuum pump. Therefore, instead of using bigger vacuum pumps, employ the cold trap more efficiently. The application of the cold trap helps to condense vapors on the one hand and enhance the evaporation density of organic solutions for better condensation.

### Features

- Circulation: hermetic circulation
- Temperature range: normal temperature -50℃
- Volume: 4L
- Temperature adjustment:  $\pm 1^{\circ}\text{C}$
- Compressor coolant: R404a  $\pm 1^{\circ}\text{C}$
- TFT true-color touch widescreen indicating the temperature of the cold trap



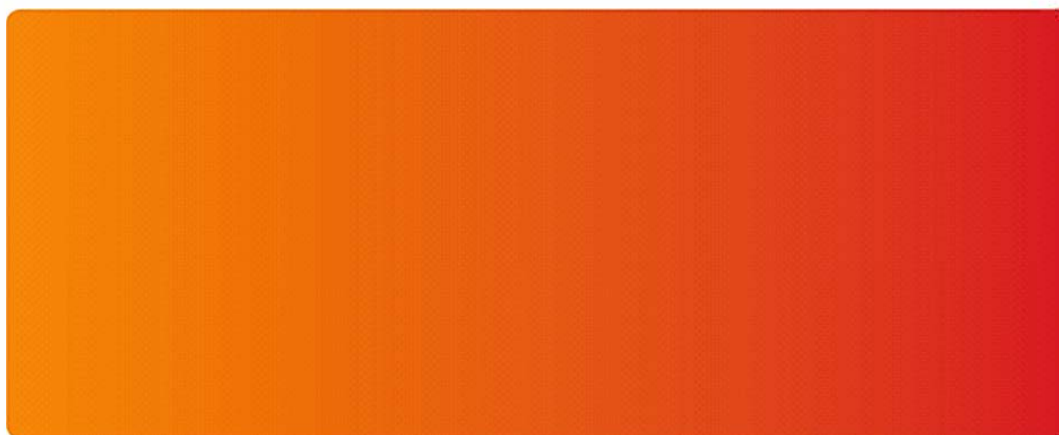


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