



## Centrifuges Product Catalogue

### **CHANGSHA XIANGZHI CENTRIFUGE INSTRUMENT CO.,LTD.**

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**CHANGSHA XIANGZHI CENTRIFUGE INSTRUMENT CO.,LTD.**

## Enterprise Article



**Changsha Xiangzhi Centrifuge Instrument Co.,Ltd**

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## Company Profile

Changsha Xiangzhi Centrifuge Instrument Co., Ltd is a professional supplier and manufacturer of centrifuges. Our professional team engaged in R & D, manufacturing, marketing, sales and service have been concentrated in providing our global customers with not only reliable products, but also satisfactory training, after-sales service, technical support and long-term supply of our products' parts. Our company has already passed ISO 9001:2008 & ISO 13485 Certificate of International Quality Management System and international safety certificate CE. The effective implementation of quality system guarantees ultimately the stability of product quality, reliable after-sale service.

In last century, our company had the experience to cooperate with Tomy Company and American Beckman Company in technology field, which improve the technology level of our designing and manufacturing centrifuge to international level.

Our clients have always seen us in uptime mode, the only thing that has remained unchanged since our inception. Trust that can never be quantified, with XIANGZHI centrifuge brand familiarity increased in the industry, we make great effort to expand the market both at home and abroad, our products have already been exported to more than 36 countries, such as America, Italy, Chile, Turkey, India, Mexico, Indonesia etc. There are 4 centrifuge assembly lines, which have improved the annual centrifuge production capacity from 4000 sets to 9000 sets. We can develop new items according to our customer's requirements, and will uphold this trust reposed on us and strive to deliver the best.



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## Ultra High Capacity Refrigerated Centrifuge

### Model: DLM12L

Compact refrigerated floor standing centrifuge is specially designed for universal use in blood banks, clinical laboratories, a serology investigations, molecular biology, serum separation, pharmaceutical applications, where repeatability, precision and reliability of speed, time, temperature, acceleration and deceleration are significant factors in obtaining perfect separations of the distinct blood fractions.

### Features:

- ☆ With silent-block and shock absorbers that guarantees smooth and quiet operations without vibrations.
- ☆ With user friendly control unit integrated in the front panel, screen in the centrifuge lid for external speed control.
- ☆ Microprocessor digital control of all functions: speed, time, temperature, acceleration / deceleration, rcf, 30 program memory, operation fault display.
- ☆ Two motorized lid locks. The lid can be opened by electronic lock or via manual operation. In case of failure resulted from broken electronic lock,
- ☆ Easy open the centrifuge lid via pneumatic springs; The lid is hinged on the right hand side of the centrifuge.
- ☆ RPM/RCF adjustable along with the run and value calculating automatically.
- ☆ Selective acceleration and deceleration rates ensure high-quality separations.
- ☆ The self-diagnostic system provides a protection for imbalance, over temperature / speed / voltage and electronic lock.
- ☆ Swing-out rotor head, buckets and adapters made of high-density material.
- ☆ The centrifuge stands on movable castors.
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



### Technical data:

|                         |                        |                    |                               |
|-------------------------|------------------------|--------------------|-------------------------------|
| Model                   | DLM12L                 | Motor              | Converter Motor, direct drive |
| Screen                  | LED & LCD color screen | Control            | Microprocessor Control        |
| Max. Speed              | 8000rpm                | Daily-use program  | 30                            |
| Max. RCF                | 14336xg                | Motor power        | 4kw                           |
| Max Capacity            | 6x2400ml               | Refrigerator power | 2.5kw                         |
| Temp. range(at RT 25°C) | -20°C ~ +40°C          | Noise              | <58db                         |
| Temp accuracy           | ±1°C                   | Power supply       | AC220V 50Hz 30A               |
| Speed accuracy          | ±20 rpm                | Net weight         | 500kg                         |
| Timer range             | 1~99h59m               | Gross weight       | 587kg                         |
| Acceleration Rates      | 1~10                   | External dimension | 960×860×1200mm(L×W×H)         |
| Deceleration Rates      | 1~10                   | Package dimension  | 1150×970×1360mm(L×W×H)        |

### Rotor:

|                                                                                                          |                                                                                                                                                                                                                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  <p>No. 1 Rotor</p>   | <p>Max. Speed: 8000rpm<br/>Max. RCF: 14336 xg<br/>Capacity: 6 x 1000ml<br/>1000ml Bottle Size:<br/>Φ96x178mm, cap: Φ95, flat</p>                                                                                                                                                   |    |    |    |    |
|  <p>No. 2 Rotor</p>  | <p>Max. Speed: 4600rpm<br/>Max. RCF: 7060 xg<br/>Capacity: 6 x 2400ml<br/>2400ml Bottle Size:<br/>Φ67x191mm, cap: Φ81mm flat<br/>Blood Bag 400ml:<br/>2 pcs / swing bucket,<br/>total for 12 pcs bags<br/>Blood Bag 250ml:<br/>4 pcs / swing bucket,<br/>total for 24 pcs bags</p> |    |    |    |    |
|  <p>No. 3 Rotor</p> | <p>Max. Speed: 4200rpm<br/>Max. RCF: 5900 xg<br/>Capacity: 6x2x1000ml<br/>1000ml Bottle Size:<br/>Φ98x170mm flat</p>                                                                                                                                                               |  |  |  |  |

## High Capacity Refrigerated Centrifuge

### Model: DL-6MB

Compact refrigerated floor standing centrifuge is specially designed for universal use in blood banks, clinical laboratories, a serology investigations, molecular biology, serum separation, pharmaceutical applications, where repeatability, precision and reliability of speed, time, temperature, acceleration and deceleration are significant factors in obtaining perfect separations of the distinct blood fractions.

### Features:

- ☆ With silent-block and shock absorbers that guarantees smooth and quiet operations without vibrations.
- ☆ With user friendly control unit integrated in the front panel, screen in the centrifuge lid for external speed control.
- ☆ Microprocessor digital control of all functions: speed, time, temperature, acceleration / deceleration, rcf, 30 program memory, operation fault display.
- ☆ Motorized lid locks. The lid can be opened by electronic lock or via manual operation in case of failure resulted from broken electronic lock.
- ☆ Easy open the centrifuge lid via pneumatic springs; The lid is hinged on the right hand side of the centrifuge.
- ☆ RPM/RCF adjustable along with the run and value calculating automatically.
- ☆ Selective acceleration and deceleration rates ensure high-quality separations.
- ☆ The self-diagnostic system provides a protection for imbalance, over temperature / speed / voltage and electronic lock.
- ☆ Swing-out rotor head, buckets and adapters made of high-density material.
- ☆ The centrifuge stands on movable castors.
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



### Technical data:

|                        |                        |                   |                               |
|------------------------|------------------------|-------------------|-------------------------------|
| Model                  | DL-6MB                 | Motor             | Converter Motor, direct drive |
| Screen                 | LED & LCD color screen | Control           | Microprocessor Control        |
| Max. Speed             | 6000rpm                | Daily-use program | 30                            |
| Max. RCF               | 6880xg                 | Motor power       | 1.5kw                         |
| Max Capacity           | 6x1000ml               | Noise             | <58db                         |
| Temp range(at RT 25°C) | -20°C~+40°C            | Power Supply      | AC220V 50HZ 30A               |
| Temp accuracy          | ± 1°C                  | N.W.              | 240kg                         |
| Speed accuracy         | ± 20r/min              | G.W.              | 314kg                         |
| Timer range            | 0~23h 59min            | Dimension         | 860×730×1200mm(L×W×H)         |
| Acceleration Rates     | 1~10                   | Packing Size      | 1000×850×1400mm(L×W×H)        |
| Deceleration Rates     | 1~10                   |                   |                               |

### Rotor:

|                                                                                                          |                                                                                                                                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                     |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|  <p>No. 1 Rotor</p>   | <p>Max. Speed: 6000rpm<br/>Max. RCF: 6880 xg<br/>Capacity: 6 x500ml<br/>500ml Bottle Size:<br/>500ml:Φ74x167mm flat PP plastic<br/>500ml:Φ79x138mm flat PP plastic<br/>500ml:Φ74x163mm flat stainless steel</p> |  <p>4x50ml</p>  |  <p>1x250ml</p>  |  <p>1x500ml</p>  |
|  <p>No. 2 Rotor</p>  | <p>Max. Speed: 4200rpm<br/>Max. RCF: 5180 xg<br/>Capacity: 6 x1000ml<br/>1000ml Bottle Size: Φ98x170mm flat</p>                                                                                                 |  <p>4x50ml</p> |  <p>1x250ml</p> |  <p>1x500ml</p> |
|  <p>No. 3 Rotor</p> | <p>Max. Speed: 4200rpm<br/>Max. RCF: 5180 xg<br/>Capacity: 6x1000ml (oval bucket)<br/>Blood Bag 300ml: 2 pcs / swing bucket, total for 12 pcs bags</p>                                                          |               |                                                                                                     |                                                                                                     |

## Low Speed Centrifuge Model: XZ-5 / XZ-5M

The centrifuge can process a volume of up to 3 liters, offering a complete solution in separation of samples to be centrifuged for blood bank centre, research labs, clinic, bio-technology, industry and hospitals.

The large selection of rotors and adapters. Ac converter motor maintenance free, a software allows the operator to control the configuration parameters easily, the control panel provides the user with an easy to handle machine and an ally in the daily tasks.

### Features:

- ☆ Induction motor maintenance free
- ☆ Controlled by microprocessor
- ☆ Minimum acceleration time
- ☆ Shown on the control head: rotor code, max. rpm, max. rcf, avoiding exceeding the maximum speed.
- ☆ Lid open programmable, motorized
- ☆ Rpm/rcf adjustable along with the run
- ☆ Centrifugation chamber in stainless steel, guarding ring around chamber.
- ☆ Lid dropping protection
- ☆ Imbalance cut off
- ☆ Manual emergency lid release (very useful in unexpected power interruption)
- ☆ The centrifuge can't run with the lid open, neither open the lid when rotor runs
- ☆ Temperature probe inside the chamber of centrifugation, cooling gas R134a (libre cfc)

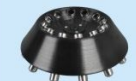
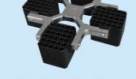


### Technical data:

| Model                  | XZ-5                   | XZ-5M                  |
|------------------------|------------------------|------------------------|
| Screen                 | LCD screen metal frame | LCD screen metal frame |
| Max. speed             | 5000rpm                | 5000rpm                |
| Max. rcf               | 4745xg                 | 4745xg                 |
| Max. capacity          | 6x500ml                | 6x500ml                |
| Temp range(at RT 25°C) | --                     | -15°C ~ +40°C          |
| Speed accuracy         | ±20rpm                 | ±20rpm                 |
| Temp accuracy          | --                     | ±1°C                   |
| Timer range            | 1 min~99min59s         | 1 min~99min59s         |
| Acceleration rates     | 1-10                   | 1-10                   |
| Deceleration rates     | 1-10                   | 1-10                   |
| Motor                  | Converter motor        | Converter motor        |
| Compressor             | --                     | imported compressor    |
| Noise                  | ≤58db                  | ≤58db                  |
| Power supply           | AC220V 50HZ 20A        | AC220V 50HZ 20A        |
| Net weight             | 150kg                  | 160kg                  |
| Gross weight           | 205kg                  | 215kg                  |
| Dimension              | 630x750x900mm(LxWxH)   | 630x750x900mm(LxWxH)   |
| Package size           | 750x850x1100mm(LxWxH)  | 750x860x1100mm(LxWxH)  |



### Rotor:

|                                                                                                             |                                                                                                                     |                                                                                                             |                                                                                           |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <br>No. 1 Angle Rotor    | Max speed : 5000r/min<br>Capacity : 12 x 15ml/10ml<br>Max rcf : 3528xg<br>ØxL: 22x99mm                              | <br>No. 2 Swing Rotor    | Max speed : 5000r/min<br>Capacity : 4 x 100ml<br>Max rcf : 4745xg<br>ØxL: 42.5x100mm      |
| <br>No. 3 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 4 x 250ml<br>Max rcf : 2990xg<br>ØxL: 63.5x90mm                                 | <br>No. 4 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 4 x 500ml<br>Max rcf : 3520xg<br>ØxL: 81x105mm        |
| <br>No. 5 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 6 x 500ml<br>Max rcf : 3710xg<br>ØxL: 81x105mm                                  | <br>No. 6 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 8 x 50ml<br>Max rcf : 3040xg<br>ØxL: 30.5x86.5mm      |
| <br>No. 7 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 32x15ml/10ml/5ml/2ml<br>Max rcf : 3000xg/2930xg/2810xg/2810xg<br>ØxL: 13.5x90mm | <br>No. 8 Swing Rotor    | Max speed : 4000r/min<br>Capacity : 48 x 5ml/2ml<br>Max rcf : 2980xg/2625xg               |
| <br>No. 9 Swing Rotor   | Max speed : 4000r/min<br>Capacity : 80x5ml/2ml<br>Max rcf : 3620xg/3260xg                                           | <br>No. 10 Swing Rotor  | Max speed : 4000r/min<br>Capacity : 48 x 5ml/2ml<br>Max rcf : 2980xg/2625xg               |
| <br>No. 11 Swing Rotor | Max speed : 4000r/min<br>Capacity : 120x 5ml/2ml<br>Max rcf : 3580xg/3220xg                                         | <br>No. 12 Swing Rotor | Max speed : 4000r/min<br>Capacity : 2 x 2 x 96holes<br>Max rcf : 2390xg<br>ØxL: 137x87x42 |
| <br>No. 13 Swing Rotor | Max speed : 4000r/min<br>Capacity : 72 x 5ml/2ml<br>Max rcf : 2950xg/2625xg                                         |                                                                                                             |                                                                                           |

## Low Speed Centrifuge

### Model: DL-5M / DD-5M

The centrifuge can process a volume of up to 3 liters, offering a complete solution in separation of samples to be centrifuged for blood bank center, research labs, clinic, bio-technology, industry and hospitals.

The large selection of rotors and adapters. Ac converter motor maintenance free, a software allows the operator to control the configuration parameters easily, the control panel provides the user with an easy to handle machine and an ally in the daily tasks.

### Features:

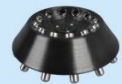
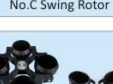
- ☆ Induction motor maintenance free
- ☆ Controlled by microprocessor
- ☆ Minimum acceleration time
- ☆ Shown on the control head: rotor code, max. rpm, max. rcf, avoiding exceeding the maximum speed.
- ☆ Lid open programmable, motorized
- ☆ Rpm/rcf adjustable along with the run
- ☆ Centrifugation chamber in stainless steel, guarding ring around chamber.
- ☆ Lid dropping protection
- ☆ Imbalance cut off
- ☆ Manual emergency lid release (very useful in unexpected power interruption)
- ☆ The centrifuge can't run with the lid open, neither open the lid when rotor runs
- ☆ Temperature probe inside the chamber of centrifugation, cooling gas R134a(libre cfc)



### Technical data:

| Model                  | DL-5M                         | DD-5M                         |
|------------------------|-------------------------------|-------------------------------|
| Screen                 | Digital display / metal frame | Digital display / metal frame |
| Max. speed             | 5000rpm                       | 5000rpm                       |
| Max. rcf               | 4745xg                        | 4745xg                        |
| Max. capacity          | 6x500ml                       | 6x500ml                       |
| Temp range(at RT 25°C) | -20°C~ +40°C                  | --                            |
| Speed accuracy         | ±20rpm                        | ±20rpm                        |
| Temp accuracy          | ±1°C                          | --                            |
| Timer range            | 1 min~99min59s                | 1 min~99min59s                |
| Acceleration rates     | 1-10                          | 1-10                          |
| Deceleration rates     | 1-10                          | 1-10                          |
| Motor                  | Converter motor               | Converter motor               |
| Compressor             | imported compressor           | --                            |
| Noise                  | ≤58db                         | ≤52db                         |
| Power supply           | AC220V 50HZ 20A               | AC220V 50HZ 20A               |
| Net weight             | 180kg                         | 150kg                         |
| Gross weight           | 206kg                         | 180kg                         |
| Dimension              | 630×740×1040mm(L×W×H)         | 630×740×1040mm(L×W×H)         |
| Package size           | 750×860×1250 mm(L×W×H)        | 750×860×1250 mm(L×W×H)        |

### Rotor:

|                                                                                                                |                                                                                                           |                                                                                                                |                                                                                                         |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  <p>No. 1 Angle Rotor</p>   | <p>Max speed : 5000r/min<br/>Capacity : 12 x 15ml/10ml<br/>Max rcf : 3528xg<br/>ØxL: 22x99mm</p>          |  <p>No. 2 Swing Rotor</p>   | <p>Max speed : 5000r/min<br/>Capacity : 4 x 100ml<br/>Max rcf : 4745xg<br/>ØxL: 42.5x100mm</p>          |
|  <p>No. 3 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 4 x 250ml<br/>Max rcf : 2990xg<br/>ØxL: 63.5x90mm</p>             |  <p>No. 4 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 4 x 500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p>            |
|  <p>No. 5 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 6 x 500ml<br/>Max rcf : 3710xg<br/>ØxL: 81x105mm</p>              |  <p>No. 6 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 8 x 50ml<br/>Max rcf : 3040xg<br/>ØxL: 30.5x86.5mm</p>          |
|  <p>No. 7 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 16x50ml<br/>Max rcf : 3520xg<br/>Boring ØxL:30.5x86.5mm</p>       |  <p>No. 8 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 32 x 15/10ml<br/>Max rcf : 3000xg<br/>Boring ØxL:18 x92mm</p>   |
|  <p>No. 9 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity :48x5ml/2ml<br/>Max rcf : 2980xg/2625xg</p>                         |  <p>No. A Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity :80x5ml/2ml<br/>Max rcf : 3620xg/3260xg</p>                       |
|  <p>No. B Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 120 x 5ml/2ml<br/>Max rcf : 3580xg/3220xg</p>                     |  <p>No. C Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity :148x5ml/2ml<br/>Max rcf : 3405xg/2975xg</p>                      |
|  <p>No. D Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 2 x 2 x96holes<br/>Max rcf : 2390xg<br/>Boring ØxL: 137x87x42</p> |  <p>No. E Swing Rotor</p> | <p>Max speed : 3500r/min<br/>Capacity : 4 x 750ml<br/>Max rcf : 2990xg<br/>Boring ØxL: 89.7x137.5mm</p> |
|  <p>No. D Swing Rotor</p> | <p>Max speed : 3500r/min<br/>Capacity : 24 x 50ml<br/>Max rcf : 3710xg<br/>Boring ØxL: 30.5x86.5mm</p>    |                                                                                                                |                                                                                                         |

## High Speed Refrigerated Centrifuge Model: GL-21M

The model can process a volume of up to 3 liters, offering a complete solution in the preparation of samples for research labs, clinic, bio-technologic, industrial and hospitals.

### Features:

- ☆ With silent-block and shock absorbers that guarantees smooth and quiet operations without vibrations.
- ☆ With user friendly control unit integrated in the front panel, screen in the centrifuge lid for external speed control.
- ☆ Microprocessor digital control of all functions: speed, time, temperature, acceleration / deceleration, RCF, 30 program memory, operation fault display.
- ☆ Motorized lid locks. The lid can be opened by electronic lock or via manual operation. In case of failure resulted from broken electronic lock.
- ☆ Easy open the centrifuge lid via pneumatic springs.
- ☆ RPM/RCF adjustable along with the run and value calculating automatically.
- ☆ Selective acceleration and deceleration rates ensure high-quality separations.
- ☆ The self-diagnostic system provides a protection for imbalance, over temperature / speed / voltage and electronic lock.
- ☆ Swing-out rotor head, buckets and adapters made of high-density material.
- ☆ The centrifuge stands on movable castors.
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



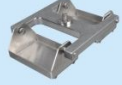
### Technical data:

|                        |                        |                    |                               |
|------------------------|------------------------|--------------------|-------------------------------|
| Model                  | GL-21M                 | Acceleration Rates | 1~10                          |
| Screen                 | LED & LCD color screen | Deceleration Rates | 1~10                          |
| Max. Speed             | 21000rpm               | Motor              | Converter Motor, direct drive |
| Max. RCF               | 47400xg                | Control            | Microprocessor Control        |
| Max.Capacity           | 6x500ml                | Power supply       | AC220v 50hz 30A               |
| Temp.range(at RT 25°C) | -20°C~40°C             | Net weight         | 220kg                         |
| Temp accuracy          | ± 1°C                  | Gross weight       | 310kg                         |
| Speed accuracy         | ± 20rpm                | Dimension          | 860×730×1200mm(L×W×H)         |
| Timer range            | 1~99h59min             | Packing Size       | 1000×850×1400mm(L×W×H)        |

### Rotor:

|                                                                                       |                                                                                      |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | Max speed : 21000r/min<br>Capacity : 16 x 10ml<br>Max rcf : 47400xg<br>ØxL:16.5x78mm |    | Max speed : 20000r/min<br>Capacity : 6 x 50ml<br>Max rcf : 43000xg<br>ØxL: 29.5x94mm  |
|    | Max speed : 18000r/min<br>Capacity : 8 x 50ml<br>Max rcf : 39190xg<br>ØxL: 29.5x94mm |    | Max speed : 15000r/min<br>Capacity : 6 x 70ml<br>Max rcf : 25700xg<br>ØxL:38x112mm    |
|    | Max speed : 12000r/min<br>Capacity : 8 x 100ml<br>Max rcf : 19830xg<br>ØxL: 38x112mm |    | Max speed : 14000r/min<br>Capacity : 4 x 250ml<br>Max rcf : 28150xg<br>ØxL: 63x116mm  |
|   | Max speed : 12000r/min<br>Capacity : 6 x 300ml<br>Max rcf : 22600xg<br>ØxL:63x116mm  |   | Max speed : 10000r/min<br>Capacity : 6 x 500ml<br>Max rcf : 18705xg<br>ØxL:70.5x145mm |
|  | Max speed : 12000r/min<br>Capacity : 6 x 250ml<br>Max rcf : 22800xg<br>ØxL:63x116mm  |  | Max speed : 14000r/min<br>Capacity : 1000ml<br>Max rcf : 21500xg<br>Material:Lc       |
|  | Max speed : 16000r/min<br>Capacity : 1000ml<br>Max rcf : 28200xg<br>Material:Ti      |  | Max speed : 8000r/min<br>Capacity : 3000ml<br>Max rcf : 9530xg<br>Material:Lc         |

## Rotor:

|                                                                                                                  |                                                                                            |                                                                                                             |                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  <p>No. 13 Continuous Rotor</p> | <p>Max speed : 10000r/min<br/>Capacity : 3000ml<br/>Max rcf : 14800xg<br/>Material:Ti</p>  |  <p>No. 14 Angle Rotor</p> | <p>Max speed : 13000r/min<br/>Capacity : 4x30ml<br/>Max rcf : 23800xg<br/>ØxL: 29.5x94mm</p>     |
|  <p>No. 15 Angle Rotor</p>      | <p>Max speed : 12000r/min<br/>Capacity : 4x45ml<br/>Max rcf : 11900xg<br/>ØxL: 14x51mm</p> |  <p>No. 16 Angle Rotor</p> | <p>Max speed : 10000r/min<br/>Capacity : 4x50ml<br/>Max rcf : 16200xg<br/>ØxL:30.5x86.5mm</p>    |
|  <p>No. 17 Swing Rotor</p>      | <p>Max speed : 4000r/min<br/>Capacity : 4x500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p> |  <p>No. 18 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 2x2x96holes<br/>Max rcf : 2390xg<br/>ØxL:137x87x42mm</p> |

## Micro High Speed Refrigerated Centrifuge Model: 3H16R1

3H16R1 can be equipped with 4 kinds of rotors in the bench top type, offering a complete solution in the preparation of samples to be centrifuged for research labs, clinic, biotechnologic , industrial and hospitals.

### Features:

- ☆ Induction motor maintenance free.
- ☆ Controlled by microprocessor
- ☆ RPM/RCF adjustable along the run.
- ☆ Up to 30 programs in store.
- ☆ Countdown start at set RPM /RCF
- ☆ Allowing reproducibles results.
- ☆ Screen show the values of set and updated.
- ☆ Messages on screen indicating the centrifuge and accessories state.
- ☆ Rotors information on memory.
- ☆ Centrifugation chamber in stainless steel, guard ring around chamber.
- ☆ Lid dropping protection
- ☆ Imbalance cut off.
- ☆ Manual emergency lid release.
- ☆ It can not run with the lid open, neither open the lid when rotor runs.
- ☆ Temperature probe inside the chamber of centrifugation, gas libre CFC.



### Technical data:

|                         |                         |                                 |                       |
|-------------------------|-------------------------|---------------------------------|-----------------------|
| Model                   | 3H16R1                  | Timer range                     | 1min~99min59s         |
| Screen                  | LCD color screen        | Acceleration/Deceleration rates | 1-10                  |
| Machine Body            | Plastic and metal frame | Motor                           | Converter motor       |
| Max.speed               | 16000rpm                | Noise                           | <55db                 |
| Max.RCF                 | 17800xg                 | Power                           | AC220V, 50/60Hz 10A   |
| Temp. range(at RT 25°C) | -20°C ~ +40°C           | Net weight                      | 40kg                  |
| Temp accuracy           | ±2°C                    | Gross weight                    | 48kg                  |
| Speed accuracy          | ±20rpm                  | Dimension                       | 340x590x300mm (LxWxH) |
| Increment               | 100rpm                  | Package dimension               | 440x700x430mm         |

## Rotor:

|                                                                                                                |                                                                                              |                                                                                                                |                                                                                 |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|  <p>No. 1 Angle rotor</p> | <p>Max speed : 16000r/min<br/>Capacity : 12 x 0.5ml<br/>Max rcf : 17800xg</p>                |  <p>No. 2 Angle rotor</p> | <p>Max speed : 16000r/min<br/>Capacity :12x 1.5/2.2ml<br/>Max rcf : 17800xg</p> |
|  <p>No. 3 Angle rotor</p> | <p>Max speed : 13000r/min<br/>Capacity : 12 x 5ml<br/>Max rcf : 12750xg<br/>ØxL: 14x51mm</p> |  <p>No. 4 Angle rotor</p> | <p>Max speed : 13000r/min<br/>Capacity : 24 x 1.5ml<br/>Max rcf : 15710xg</p>   |

## Benchtop High Speed Refrigerated Centrifuge

### Model: TGL16MB / TGL16M

TGL-16MB and TGL-16M are microprocessor controlled centrifuges used in auxiliary laboratories in industry, colleges & Research institutions, bio technology, medical laboratories, hospitals, pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products.

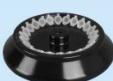
### Features:

- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Possibility of pre-cooling during standstill
- ☆ CFC free refrigeration system (refrigerant R134a)
- ☆ Lid can easily be opened due pneumatic spring support
- ☆ Motorized lid lock
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Coded rotor identification prevents the rotor from over speed
- ☆ ABS shell with stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.

### Technical data:

| Model                 | TGL16MB                 | TGL16M               |
|-----------------------|-------------------------|----------------------|
| Screen                | LCD color Screen        | LED Digital Screen   |
| Machine body          | Plastic and metal frame | Metal frame          |
| Max. speed            | 16000rpm                | 16000rpm             |
| Max RCF               | 20920xg                 | 20920xg              |
| Max capacity          | 4x100ml                 | 4x100ml              |
| Temp range(at RT25°C) | -20°C ~ +40°C           | -20°C ~ +40°C        |
| Time accuracy         | ±1°C                    | ±2°C                 |
| Speed accuracy        | ±20 rpm                 | ±20 rpm              |
| Time range            | 1min~99h59min           | 1~99min              |
| Acceleration rates    | 1~10                    | --                   |
| Deceleration rates    | 1~10                    | --                   |
| Motor                 | Converter motor         | Converter motor      |
| Noise                 | <55db                   | <55db                |
| Motor power           | 500W                    | 500W                 |
| Refrigerator power    | 380W                    | 380W                 |
| Power                 | Ac220V/50Hz, 10A        | Ac220V/50Hz, 10A     |
| Net weight            | 70kg                    | 75kg                 |
| Gross weight          | 75kg                    | 80kg                 |
| Machine dimension     | 620x500x350mm(LxWxH)    | 620x480x350mm(LxWxH) |
| Packing dimension     | 720x610x450mm(LxWxH)    | 720x610x450mm(LxWxH) |

### Rotor:

|                                                                                       |                                                                                     |                                                                                       |                                                                                     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | Max. Speed:16000rpm<br>Capacity: 12x0.5ml<br>Max. RCF: 17800 xg                     |    | Max. Speed: 16000rpm<br>Capacity: 12x1.5ml/2.2ml<br>Max. RCF: 17800 xg              |
|    | Max. Speed: 16000rpm<br>Capacity: 12x5ml<br>Max. RCF: 19320 xg<br>ØxL: 14x51mm      |    | Max. Speed: 12000rpm<br>Capacity: 12x10ml<br>Max. RCF: 12740 xg<br>ØxL: 16.5x78.5mm |
|    | Max. Speed: 15000rpm<br>Capacity: 24x1.5ml/2.2ml<br>Max. RCF: 20920 xg              |    | Max. Speed: 14000rpm<br>Capacity: 30x1.5ml<br>Max. RCF: 16106 xg                    |
|    | Max. Speed: 11000rpm<br>Capacity: 6x50ml<br>Max. RCF: 13280 xg<br>ØxL: 29.5x96mm    |    | Max. Speed: 14000rpm<br>Capacity: 4x50ml<br>Max. RCF: 19320 xg<br>ØxL: 25.5x80mm    |
|    | Max. Speed: 10000rpm<br>Capacity: 4x100ml<br>Max. RCF: 10934 xg<br>ØxL: 38.2x110mm  |    | Max. Speed: 6000rpm<br>Capacity: 4x10ml<br>Max. RCF: 4495 xg<br>ØxL: 16.5x78mm      |
|  | Max speed : 11000rpm<br>Capacity : 12x15ml<br>Max rcf : 13935xg<br>ØxL: 16.5x103mm  |  | Max. Speed: 4000rpm<br>Capacity: 2x2x48<br>Max. RCF: 1505 xg<br>ØxL: 108x54x29mm    |
|  | Max. Speed: 12000rpm<br>Capacity: 48x1.5ml<br>Max. RCF: 13910 xg                    |  | Max. Speed: 4000rpm<br>Capacity: 4x10ml<br>Max. RCF: 2218 xg<br>ØxL: 18x83mm        |
|  | Max. Speed: 10000rpm<br>Capacity: 24x10ml<br>Max. RCF: 11280 xg<br>(10ML VACU TUBE) |                                                                                       |                                                                                     |

## Benchtop High Speed Refrigerated Centrifuge

### Model: TGL-20MB / TGL-20M

TGL-20MB and TGL-20M are microprocessor controlled centrifuges used in auxiliary laboratories in industry, colleges & Research institutions, bio technology, medical laboratories, hospitals, pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products.

### Features:

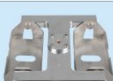
- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Possibility of pre-cooling during standstill,
- ☆ CFC free refrigeration system (refrigerant R134a)
- ☆ Lid can easily be opened due pneumatic spring support
- ☆ Motorized lid lock
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Coded rotor identification prevents the rotor from over speed
- ☆ Stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



### Technical data:

| Model                  | TGL-20MB                | TGL-20M              |
|------------------------|-------------------------|----------------------|
| Screen                 | LCD color Screen        | LED Digital Screen   |
| Machine body           | Plastic and metal frame | Metal frame          |
| Max. speed             | 20000rpm                | 20000rpm             |
| Max. RCF               | 27800xg                 | 27800xg              |
| Max capacity           | 4x100ml                 | 4x100ml              |
| Temp range(at RT 25°C) | -20°C~+40°C             | -20°C~+40°C          |
| Temp accuracy          | ±2°C                    | ±2°C                 |
| Speed accuracy         | ±20rpm                  | ±20rpm               |
| Timer range            | 1min~99min59s           | 1min~99min           |
| Acceleration Rates     | 1~10                    | --                   |
| Deceleration Rates     | 1~10                    | --                   |
| Motor                  | Converter motor         | Converter motor      |
| Noise                  | <55db                   | <55db                |
| Power supply           | AC220V 50/60Hz 18A      | AC220V 50/60Hz 18A   |
| N.W.                   | 70kg                    | 75kg                 |
| G.W.                   | 80kg                    | 85kg                 |
| Dimension              | 620x500x350mm(LxWxH)    | 620x480x350mm(LxWxH) |
| Packing Size           | 720x610x450mm(LxWxH)    | 720x640x460mm(LxWxH) |

### Rotor:

|                                                                                       |                                                                                         |                                                                                       |                                                                                          |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|    | Max speed : 20000r/min<br>Capacity : 12 x 0.5ml<br>Max rcf : 20380xg                    |    | Max speed : 20000r/min<br>Capacity : 12x1.5ml/2ml<br>Max rcf : 27800xg                   |
|    | Max speed : 16000r/min<br>Capacity : 12 x 5ml<br>Max rcf : 19320xg<br>ØxL : 14x51mm     |    | Max speed : 16000r/min<br>Capacity : 24x1.5ml/2ml<br>Max rcf : 23800xg                   |
|    | Max speed : 14000r/min<br>Capacity : 48 x 0.5ml<br>Max rcf : 20850xg                    |    | Max speed : 15000r/min<br>Capacity : 12 x 10ml<br>Max rcf : 19910xg<br>ØxL : 16.5x78.5mm |
|    | Max speed : 14000r/min<br>Capacity : 4 x 50ml<br>Max rcf : 19320xg<br>ØxL : 29.5x96mm   |    | Max speed : 13000r/min<br>Capacity : 6 x 50ml<br>Max rcf : 18550xg<br>ØxL : 29.5x96mm    |
|    | Max speed : 11000r/min<br>Capacity : 4 x 100ml<br>Max rcf : 13280xg<br>ØxL : 38.2x110mm |    | Max speed : 11000r/min<br>Capacity : 12 x 15ml<br>Max rcf : 13935xg<br>ØxL : 16.5x103mm  |
|  | Max speed : 4000r/min<br>Capacity : 2x2x48ml<br>Max rcf : 1505xg<br>ØxL : 108x54x29mm   |  | Max speed : 14000r/min<br>Capacity : 4x8x0.2ml<br>Max rcf : 13500xg                      |
|  | Max speed : 14000r/min<br>Capacity : 48x1.5ml<br>Max rcf : 20850xg                      |  | Max. Speed: 4000rpm<br>Capacity: 4x10ml<br>Max. RCF: 2218 xg<br>ØxL: 18x83mm             |
|  | Max. Speed: 10000rpm<br>Capacity: 24x10ml<br>Max. RCF: 11280 xg<br>(10ML VACU TUBE)     |                                                                                       |                                                                                          |

## Benchtop High Speed Refrigerated Centrifuge Model: XZ21K-T

XZ21K-T can process a volume of up to 2 liters, offering a complete solution in the preparation of samples to be centrifuged for research labs, clinic, biotechnology, industrial and hospitals.

### Features:

- ☆ Comprehensive selection of rotors and adapters
- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Possibility of pre-cooling during standstill
- ☆ CFC free refrigeration system (refrigerant R134a)
- ☆ Lid can easily be opened due pneumatic spring support
- ☆ Motorized lid lock
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Rotor identification prevents the rotor from over speed
- ☆ Stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.



- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.

### Technical data:

|                        |                         |                    |                      |
|------------------------|-------------------------|--------------------|----------------------|
| Model code             | XZ21K-T                 | Motor              | Converter motor      |
| Screen                 | LCD Touch Screen        | Acceleration rates | 1~10                 |
| Machine body           | Plastic and metal frame | Deceleration rates | 1~10                 |
| Max. speed             | 21000rpm                | Noise              | <58db                |
| Max. RCF               | 29140xg                 | Power              | Ac220v 50/60hz 18A   |
| Max capacity           | 4x750ml                 | N.W.               | 110kg                |
| Temp range(at RT 25°C) | -20°C ~ +40°C           | G.W.               | 150kg                |
| Temp accuracy          | ±1°C                    | Dimension          | 840×600×500mm(L×W×H) |
| Speed accuracy         | ±20rpm                  | Packing Size       | 910×720×600mm(L×W×H) |
| Timer range            | 1min~99min59s           |                    |                      |

### Rotor:

|                                                                                                              |                                                                                   |                                                                                                              |                                                                                               |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  <p>No. 1 Angle Rotor</p> | <p>Max speed : 21000r/min<br/>Capacity : 12x1.5ml/2.2ml<br/>Max rcf : 29140xg</p> |  <p>No. 2 Angle Rotor</p> | <p>Max speed : 16000rpm<br/>Capacity : 12x5ml<br/>Max rcf : 19320xg<br/>ØxL: 14x51mm</p>      |
|  <p>No. 3 Angle Rotor</p> | <p>Max speed : 16000rpm<br/>Capacity : 24x1.5ml/2.2ml<br/>Max rcf : 23800xg</p>   |  <p>No. 4 Angle Rotor</p> | <p>Max speed : 15000rpm<br/>Capacity : 12x10ml<br/>Max rcf : 19910xg<br/>ØxL: 16.5x78.5mm</p> |

### Rotor:

|                                                                                                                 |                                                                                                                                      |                                                                                                                 |                                                                                              |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|  <p>No. 5 Angle Rotor</p>    | <p>Max speed : 14000rpm<br/>Capacity : 4x50ml<br/>Max rcf : 19320xg<br/>ØxL: 29.5x96mm</p>                                           |  <p>No. 6 Angle Rotor</p>    | <p>Max speed : 13000rpm<br/>Capacity : 6x50ml<br/>Max rcf : 18550xg<br/>ØxL: 29.5x96mm</p>   |
|  <p>No. 7 Angle Rotor</p>    | <p>Max speed : 11000rpm<br/>Capacity : 4x100ml<br/>Max rcf : 13280xg<br/>ØxL: 38.2x110mm</p>                                         |  <p>No. 8 Angle Rotor</p>    | <p>Max speed : 13000rpm<br/>Capacity : 12x15ml<br/>Max rcf : 13935xg<br/>ØxL: 16.5x103mm</p> |
|  <p>No. 9 Angle Rotor</p>    | <p>Max speed : 11000rpm<br/>Capacity : 8x50ml<br/>Max rcf : 16134xg<br/>ØxL: 29.5x96mm</p>                                           |  <p>No. 10 Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 16x10ml<br/>Max rcf : 3000xg<br/>ØxL: 16.5x78mm</p>    |
|  <p>No. 11 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 32 x 15ml/10ml/5ml/2ml<br/>Max rcf : 3000xg/2930xg/2810xg<br/>/2810xg<br/>ØxL: 13.5x90mm</p> |  <p>No. 12 Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 48x5ml/2ml<br/>Max rcf : 2980xg/2625xg</p>             |
|  <p>No. 13 Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 2x2x96holes<br/>Max rcf : 2390xg<br/>ØxL: 137x87x42mm</p>                                      |  <p>No. 14 Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 4 x 250ml<br/>Max rcf : 2990xg<br/>ØxL: 62.5x106mm</p> |
|  <p>No. 15 Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 4x750ml<br/>Max rcf : 3520xg<br/>ØxL: 89.7x137.5mm</p>                                         |  <p>No. 16 Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 4x500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p>     |
|  <p>No. 17 Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 8 x 50ml<br/>Max rcf : 3520xg<br/>ØxL: 30.5x86.5mm</p>                                         |  <p>No. 18 Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 24 x 15ml<br/>Max rcf : 3520xg<br/>ØxL: 13.5x90mm</p>  |
|  <p>No. 17 Angle Rotor</p> | <p>Max speed : 14000rpm<br/>Capacity : 48x1.5ml<br/>Max rcf : 20850xg</p>                                                            |                                                                                                                 |                                                                                              |

## Benchtop High Speed Refrigerated Centrifuge Model: TGL21M

TGL21M can process a volume of up to 2 liters, offering a complete solution in the preparation of samples to be centrifuged for research labs, clinic, biotechnology, industrial and hospitals.

### Features:

- ☆ Comprehensive selection of rotors and adapters
- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Possibility of pre-cooling during standstill
- ☆ CFC free refrigeration system (refrigerant R134a)
- ☆ Lid can easily be opened due pneumatic spring support
- ☆ Motorized lid lock
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.

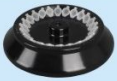


- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.

### Technical data:

|                        |                    |                    |                      |
|------------------------|--------------------|--------------------|----------------------|
| Model code             | TGL21M             | Motor              | Converter motor      |
| Screen                 | LED Digital Screen | Acceleration rates | --                   |
| Machine body           | Metal frame        | Deceleration rates | --                   |
| Max. speed             | 21000rpm           | Noise              | <58db                |
| Max. RCF               | 29140xg            | Power              | Ac220v 50/60hz 18A   |
| Max capacity           | 4x500ml            | N.W.               | 125kg                |
| Temp range(at RT 25°C) | -20°C ~ +40°C      | G.W.               | 166kg                |
| Temp accuracy          | ±1°C               | Dimension          | 830x640x390(LxWxH)   |
| Speed accuracy         | ±20rpm             | Packing Size       | 930x740x520mm(LxWxH) |
| Timer range            | 1min~99min59s      |                    |                      |

### Rotor:

|                                                                                                              |                                                                                            |                                                                                                              |                                                                                   |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  <p>No. 1 Angle Rotor</p> | <p>Max speed : 21000r/min<br/>Capacity : 12x0.5ml<br/>Max rcf : 22470xg</p>                |  <p>No. 2 Angle Rotor</p> | <p>Max speed : 21000r/min<br/>Capacity : 12x1.5ml/2.2ml<br/>Max rcf : 29140xg</p> |
|  <p>No. 3 Angle Rotor</p> | <p>Max speed : 16000r/min<br/>Capacity : 12x5ml<br/>Max rcf : 19320xg<br/>ØxL: 14x51mm</p> |  <p>No. 4 Angle Rotor</p> | <p>Max speed : 16000rpm<br/>Capacity : 24x1.5ml/2.2ml<br/>Max rcf : 23800xg</p>   |

### Rotor:

|                                                                                                                |                                                                                               |                                                                                                                |                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|  <p>No. 5 Angle Rotor</p>   | <p>Max speed : 15000rpm<br/>Capacity : 12x10ml<br/>Max rcf : 19910xg<br/>ØxL: 16.5x78.5mm</p> |  <p>No. 6 Angle Rotor</p>   | <p>Max speed : 11000rpm<br/>Capacity : 12x15ml<br/>Max rcf : 13935xg<br/>ØxL: 16.5x103mm</p>    |
|  <p>No. 7 Angle Rotor</p>   | <p>Max speed : 13000rpm<br/>Capacity : 6x50ml<br/>Max rcf : 18550xg<br/>ØxL: 29.5x96mm</p>    |  <p>No. 8 Angle Rotor</p>   | <p>Max speed : 11000rpm<br/>Capacity : 4x100ml<br/>Max rcf : 13280xg<br/>ØxL: 38.2x110mm</p>    |
|  <p>No. 9 Angle Rotor</p>   | <p>Max speed : 11000rpm<br/>Capacity : 8x50ml<br/>Max rcf : 16134xg<br/>ØxL: 29.5x96mm</p>    |  <p>No. A Angle Rotor</p>   | <p>Max speed : 14000rpm<br/>Capacity : 48x0.5ml<br/>Max rcf : 20850xg</p>                       |
|  <p>No. B Swing Rotor</p>   | <p>Max speed : 6000rpm<br/>Capacity : 4x10ml<br/>Max rcf : 4495xg<br/>ØxL: 16.5x78mm</p>      |  <p>No. C Swing Rotor</p>   | <p>Max speed : 5000rpm<br/>Capacity : 4x100ml<br/>Max rcf : 4745xg<br/>ØxL: 42.5x100mm</p>      |
|  <p>No. D Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 4x500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p>      |  <p>No. E Swing Rotor</p>   | <p>Max speed : 4000rpm<br/>Capacity : 4 x 250ml<br/>Max rcf : 2990xg<br/>ØxL: 62.5x106mm</p>    |
|  <p>No. F Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 8 x 50ml<br/>Max rcf : 3040xg<br/>ØxL: 30.5x86.5mm</p>  |  <p>No. G Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 2x2x96holes<br/>Max rcf : 2390xg<br/>ØxL: 137x87x42mm</p> |
|  <p>No. H Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 8 x 50ml<br/>Max rcf : 3520xg<br/>ØxL: 30.5x86.5mm</p>  |  <p>No. I Swing Rotor</p> | <p>Max speed : 4000rpm<br/>Capacity : 24 x 15ml<br/>Max rcf : 3520xg<br/>ØxL: 13.5x90mm</p>     |

## Benchtop High Speed Centrifuge

### Model: XZ-16T / TG16WS

XZ-16T and TG16WS are useful for routine applications in bio-technology, PCR, life sciences, bio-chemical and clinical labs etc. This unit is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adapters, this unit is truly versatile.

### Features:

- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Motorized lid locks
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Coded rotor identification prevents the rotor from over speed
- ☆ Stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



### Technical data:

| Model              | XZ-16T                  | TG16-WS              |
|--------------------|-------------------------|----------------------|
| Screen             | LCD color screen        | LED Digital Screen   |
| Machine body       | Plastic and metal frame | Metal frame          |
| Max. speed         | 16000rpm                | 16000rpm             |
| Max. RCF           | 20920xg                 | 20920xg              |
| Max Capacity       | 4x100ml                 | 4x100ml              |
| Speed accuracy     | ±20 rpm                 | ±20 rpm              |
| Timer range        | 1min~99min59s           | 1min~99min           |
| Acceleration Rates | 1~10                    | --                   |
| Deceleration Rates | 1~10                    | --                   |
| Motor              | Converter motor         | Converter motor      |
| Noise              | <55db                   | <55db                |
| Power supply       | AC220V 50/60Hz 5A       | AC220V 50/60Hz 5A    |
| Net weight         | 27kg                    | 28kg                 |
| Gross weight       | 33kg                    | 33kg                 |
| Dimension          | 400x350x340mm(LxWxH)    | 330x390x320mm(LxWxH) |
| Package dimension  | 500x420x410mm(LxWxH)    | 500x400x400mm(LxWxH) |



### Rotor:

|                                                                                       |                                                                                   |                                                                                       |                                                                                    |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|    | Max. Speed:16000rpm<br>Capacity: 12x0.5ml<br>Max. RCF: 17800 xg                   |    | Max. Speed: 16000rpm<br>Capacity: 12x1.5ml/2.2ml<br>Max. RCF: 17800 xg             |
| No. 1 Angle Rotor                                                                     |                                                                                   | No. 2 Angle Rotor                                                                     |                                                                                    |
|    | Max. Speed: 16000rpm<br>Capacity: 12x5ml<br>Max. RCF: 19320 xg<br>ØxL:14x51mm     |    | Max. Speed: 12000rpm<br>Capacity: 12x10ml<br>Max. RCF: 12740 xg<br>ØxL:16.5x78.5mm |
| No. 3 Angle Rotor                                                                     |                                                                                   | No. 4 Angle Rotor                                                                     |                                                                                    |
|    | Max. Speed: 15000rpm<br>Capacity: 24x1.5ml/2.2ml<br>Max. RCF: 20920 xg            |    | Max. Speed: 12000rpm<br>Capacity: 48x0.5ml<br>Max. RCF: 13910 xg                   |
| No. 5 Angle Rotor                                                                     |                                                                                   | No. 6 Angle Rotor                                                                     |                                                                                    |
|    | Max. Speed: 11000rpm<br>Capacity: 6x50ml<br>Max. RCF: 13280 xg<br>ØxL:29.5x96mm   |    | Max. Speed: 14000rpm<br>Capacity: 4x50ml<br>Max. RCF: 19320 xg<br>ØxL:25.5x80mm    |
| No. 7 Angle Rotor                                                                     |                                                                                   | No. 8 Angle Rotor                                                                     |                                                                                    |
|    | Max. Speed: 10000rpm<br>Capacity: 4x100ml<br>Max. RCF: 10934 xg<br>ØxL:38.2x110mm |    | Max. Speed: 10000rpm<br>Capacity: 12x15ml<br>Max. RCF: 11840xg<br>ØxL : 16.5x103mm |
| No. 9 Angle Rotor                                                                     |                                                                                   | No. 10 Angle Rotor                                                                    |                                                                                    |
|  | Max. Speed: 14000rpm<br>Capacity: 30x1.5ml<br>Max. RCF: 20800xg                   |  | Max. Speed: 12000rpm<br>Capacity: 48x1.5ml<br>Max. RCF: 13910xg                    |
| No. 11 Angle Rotor                                                                    |                                                                                   | No. 12 Angle Rotor                                                                    |                                                                                    |

## Benchtop High Speed Centrifuge

### Model: XZ-20T / TG20WS

XZ-20T / TG20WS centrifuge is useful for routine applications in bio-technology, PCR, life sciences, bio-chemical and clinical labs etc. This is unit suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adapters, this unit is truly versatile.

### Features:

- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Motorized lid lock
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Coded rotor identification prevents the rotor from over speed
- ☆ Stainless steel chamber
- ☆ Imbalance switch
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485, CE international standards are met.



### Technical data:

| Model              | XZ-20T                  | TG20-WS                |
|--------------------|-------------------------|------------------------|
| Screen             | LCD screen              | LED Digital Screen     |
| Machine body       | Plastic and metal frame | Metal frame            |
| Max. speed         | 20000rpm                | 20000rpm               |
| Max. RCF           | 27800xg                 | 27800xg                |
| Max Capacity       | 4x100ml                 | 4x100ml                |
| Speed accuracy     | ±20 rpm                 | ±20 rpm                |
| Timer range        | 1~99min                 | 1~99min                |
| Acceleration Rates | 1~10                    | --                     |
| Deceleration Rates | 1~10                    | --                     |
| Motor              | Converter motor         | Converter motor        |
| Noise              | <55db                   | <55db                  |
| Power supply       | AC220v 50Hz 5A          | AC220v 50Hz 5A         |
| Net weight         | 27kg                    | 28kg                   |
| Gross weight       | 33kg                    | 33kg                   |
| Machine dimension  | 400x350x340mm(LxWxH)    | 390x330x320mm(LxWxH)   |
| Packing dimension  | 500 x400 x400mm(LxWxH)  | 500 x400 x400mm(LxWxH) |



### Rotor:

|                                                                                       |                                                                                    |                                                                                       |                                                                                          |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|    | Max. Speed:20000rpm<br>Max. RCF: 20380 xg<br>Capacity: 12x0.5ml                    |    | Max. Speed: 20000rpm<br>Max. RCF: 27800 xg<br>Capacity: 12x1.5ml/2.2ml                   |
| No. 1 Angle Rotor                                                                     |                                                                                    | No. 2 Angle Rotor                                                                     |                                                                                          |
|    | Max. Speed: 16000rpm<br>Max. RCF: 19320 xg<br>Capacity: 12x5ml<br>ØxL:14x51mm      |    | Max. Speed: 16000rpm<br>Max. RCF: 23800 xg<br>Capacity: 24x1.5ml/2.2ml                   |
| No. 3 Angle Rotor                                                                     |                                                                                    | No. 4 Angle Rotor                                                                     |                                                                                          |
|    | Max. Speed: 14000rpm<br>Max. RCF: 20850 xg<br>Capacity: 48x0.5ml                   |    | Max. Speed: 15000rpm<br>Max. RCF: 19910 xg<br>Capacity: 12x10ml<br>ØxL:16.5x78.5mm       |
| No. 5 Angle Rotor                                                                     |                                                                                    | No. 6 Angle Rotor                                                                     |                                                                                          |
|    | Max. Speed: 14000rpm<br>Max. RCF: 19320 xg<br>Capacity: 4x50ml<br>ØxL:29.5x96mm    |    | Max. Speed: 13000rpm<br>Max. RCF: 18850 xg<br>Capacity: 6x50ml<br>ØxL:29.5x96mm          |
| No. 7 Angle Rotor                                                                     |                                                                                    | No. 8 Angle Rotor                                                                     |                                                                                          |
|    | Max. Speed: 11000rpm<br>Max. RCF: 13280 xg<br>Capacity: 4x100ml<br>ØxL:38.2x110mm  |    | Max. Speed: 11000rpm<br>Max. RCF: 13935xg<br>Capacity: 12x15ml<br>Boring ØxL :16.5x103mm |
| No. 9 Angle Rotor                                                                     |                                                                                    | No. A Angle Rotor                                                                     |                                                                                          |
|  | Max. Speed: 14000rpm<br>Max. RCF: 20850xg<br>Capacity: 30x1.5ml                    |  | Max. Speed: 14000rpm<br>Max. RCF: 20850xg<br>Capacity: 48x1.5ml                          |
| No. B Angle Rotor                                                                     |                                                                                    | No. C Angle Rotor                                                                     |                                                                                          |
|  | Max. Speed: 10000rpm<br>Max. RCF: 11280xg<br>Capacity: 24x10ml<br>(10ML VACU TUBE) |  | Max. Speed: 14000rpm<br>Max. RCF: 13500xg<br>Capacity: 4x8x0.2ml                         |
| No. D Angle Rotor                                                                     |                                                                                    | No. E Angle Rotor                                                                     |                                                                                          |

## Bench-top High Speed Centrifuge Model: G16000

G16000 is useful for routine applications in bio-technology, PCR, life sciences, bio-chemical and clinical labs etc. This unit suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adapters, this unit is truly versatile.



### Features:

- ☆ Brushless induction motor with frequency drive ensures gentle start.
- ☆ Reliable drive system.
- ☆ Very low noise level.
- ☆ Motorized lid lock.
- ☆ Special rotor connector which makes it easy to load and unload rotor.
- ☆ Rotor identification prevents the rotor from over speed.
- ☆ Stainless steel chamber.
- ☆ Shortspin function selectable.
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption).
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010).
- ☆ ISO9001:2008, ISO13485, CE international standards are met.

### Technical data:

|                    |                         |                    |                      |
|--------------------|-------------------------|--------------------|----------------------|
| Model              | G16000                  | Deceleration Rates | 1~10                 |
| Screen             | LCD color screen        | Motor              | Converter motor      |
| Machine body       | Plastic and metal frame | Noise              | <55db                |
| Max. speed         | 16000rpm                | Power supply       | AC220v 50Hz 5A       |
| Max. RCF           | 23800xg                 | Net weight         | 38kg                 |
| Max Capacity       | 4x250ml                 | Gross weight       | 55kg                 |
| Speed accuracy     | ±20rpm                  | Dimension          | 570×460×360mm(L×W×H) |
| Timer range        | 1min~99min59s           | Package dimension  | 630×530×460mm(L×W×H) |
| Acceleration Rates | 1~10                    |                    |                      |

### Rotor:

|                                                                                                                 |                                                                                               |                                                                                                                 |                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  <p>No. 1 Angle Rotor</p>    | <p>Max. Speed: 15000rpm<br/>Capacity: 24x1.5ml/2.2ml<br/>Max. RCF: 20920 xg</p>               |  <p>No. 2 Angle Rotor</p>    | <p>Max. Speed: 16000rpm<br/>Capacity: 12x5ml<br/>Max. RCF: 19320 xg<br/>ØxL: 14x51mm</p>                                           |
|  <p>No. 3 Angle Rotor</p>    | <p>Max. Speed: 12000rpm<br/>Capacity: 12x10ml<br/>Max. RCF: 12740 xg<br/>ØxL: 16.5x78.5mm</p> |  <p>No. 4 Angle Rotor</p>    | <p>Max. Speed: 10000rpm<br/>Capacity: 12x15ml<br/>Max. RCF: 11840xg<br/>ØxL: 16.5x103mm</p>                                        |
|  <p>No. 5 Angle Rotor</p>    | <p>Max. Speed: 14000rpm<br/>Capacity: 30x1.5ml<br/>Max. RCF: 20800xg</p>                      |  <p>No. 6 Angle Rotor</p>    | <p>Max. Speed: 11000rpm<br/>Capacity: 6x50ml<br/>Max. RCF: 13280 xg<br/>ØxL: 29.5x96mm</p>                                         |
|  <p>No. 7 Angle Rotor</p>    | <p>Max. Speed: 10000rpm<br/>Capacity: 4x100ml<br/>Max. RCF: 10934 xg<br/>ØxL: 38.2x110mm</p>  |  <p>No. 8 Angle Rotor</p>    | <p>Max speed : 5000r/min<br/>Capacity : 4 x 100ml<br/>Max rcf : 4745xg<br/>ØxL: 42.5x100mm</p>                                     |
|  <p>No. 9 Angle Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 8 x 50ml<br/>Max rcf : 3040xg<br/>ØxL: 18x88mm</p>    |  <p>No. 10 Angle Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 32x15ml/10ml/5ml/2ml<br/>Max rcf : 3000xg/2930xg<br/>/2810xg/2810xg<br/>ØxL: 13.5x90mm</p> |
|  <p>No. 11 Angle Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 4 x 250ml<br/>Max rcf : 2900xg<br/>ØxL: 63.5x90mm</p> |  <p>No. 12 Angle Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 4 x 400ml<br/>Max rcf : 3280xg<br/>ØxL: 79x100mm</p>                                       |

## Benchtop Low Speed Centrifuge Model: TD4

TD4 is a small centrifuge with angle rotors especially designed for use in medical practices.

It accepts common tubes up to a volume of 15ml and accelerates them to a maximum speed of 4000rpm. This corresponds to a RCF of 2100.

### Features:

- ☆ ABS external case.
- Maintenance free induction drive motor.
- ☆ Rubber suspended motor which reduces the vibrations.
- ☆ Extremely quiet operation.
- ☆ Portable and easy handle.



### Technical data:

|                   |                       |
|-------------------|-----------------------|
| Model             | Td4                   |
| Max. Speed        | 4000rpm               |
| Max. RCF          | 2100xg                |
| Max Capacity      | 12x5ml                |
| Timer             | 1~99min               |
| Noise             | <55db                 |
| Motor             | Brushless Motor       |
| Motor Power       | 40W                   |
| Voltage           | 100~240V 50/60Hz 5A   |
| N.W.              | 6kg                   |
| G.W.              | 6.3kg                 |
| Machine Dimension | 300x270x210mm (LxWxH) |
| Package Dimension | 365x345x300mm (LxWxH) |



### Rotor:

|                                                                                                          |                                                                                                  |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <br>No. 1 Angle Rotor   | Max speed : 4000r/min<br>Max capacity : 8 x 10ml<br>Max rcf : 2100xg<br>Boring ØxL : 16.5x87.2mm |
| <br>No. 2 Angle Rotor | Max speed : 4000r/min<br>Max capacity : 6 x 15ml<br>Max rcf : 2100xg<br>Boring ØxL : 18.1x98.7mm |
| <br>No. 3 Angle Rotor | Max speed : 4000r/min<br>Max capacity : 12 x 5ml<br>Max rcf : 2100xg                             |

## Benchtop Low Speed Centrifuge Model: XZ-4A

XZ-4A is suitable for routine sample analysis in medical, hospital, pathology and institutional laboratories.

With wide variety of accessories, they can be also used for the preparation of samples in industrial and research laboratories.

### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Emergency lid lock release
- ☆ Safety lid interlock to prevent cover opening during centrifugation
- ☆ Extremely quiet operation.
- ☆ Stable speed output even under unstable voltage conditions
- ☆ Countdown timer
- ☆ Recall of last set parameters.
- ☆ Self-diagnosis for errors



### Technical data:

|                |                    |                   |                       |
|----------------|--------------------|-------------------|-----------------------|
| Model          | XZ-4A              | Motor Power       | 200W                  |
| Screen         | LED Digital Screen | Noise             | <55db                 |
| Max. Speed     | 4000rpm            | Voltage           | AC220V, 50/60Hz, 5A   |
| Max. RCF       | 2600xg             | N.W.              | 22kg                  |
| Max Capacity   | 24x10ml            | G.W.              | 28kg                  |
| Speed accuracy | ±20 rpm            | Machine Dimension | 440x350x260mm (LxWxH) |
| Timer range    | 1~99min            | Package Dimension | 575x460x380mm (LxWxH) |
| Motor          | Brushless motor    |                   |                       |

### Rotor:

|                                                                                                           |                                                                                 |                                                                                                           |                                                                                 |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <br>No.1 Angle Rotor | Max speed : 4000r/min<br>Capacity : 24x10ml<br>Max rcf : 2600xg<br>ØxL: 16x92mm | <br>No.2 Angle Rotor | Max speed : 4000r/min<br>Capacity : 12x15ml<br>Max rcf : 2090xg<br>ØxL: 22x99mm |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|

## Benchtop Low Speed Centrifuge Model: TD4-2 / TDZ4-WS

TD4-2 and TDZ4-WS are suitable for routine sample analysis in medical, hospital, pathology and institutional laboratories. With wide variety of accessories, they can be also used for the preparation of samples in industrial and research laboratories.



### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door (For TD4-2).
- ☆ Emergency lid lock release.
- ☆ Safety lid interlock to prevent cover opening during centrifugation.
- ☆ Extremely quiet operation.
- ☆ Choice of high brake, low brake (For TD4-2).
- ☆ Stable speed output even under unstable voltage conditions.
- ☆ Countdown timer.
- ☆ Recall of last set parameters.
- ☆ Self-diagnosis for errors.

### Technical data:

| Model              | TD4-2                   | TDZ4-WS               |
|--------------------|-------------------------|-----------------------|
| Screen             | LCD color Screen        | LED Digital Screen    |
| Machine Body       | Plastic and metal frame | Metal frame           |
| Max. Speed         | 4000rpm                 | 4000rpm               |
| Max. RCF           | 2690xg                  | 2600xg                |
| Max Capacity       | 6x50ml                  | 6x50ml                |
| Speed accuracy     | ±20 rpm                 | ±20 rpm               |
| Timer range        | 1~99h59min              | 1~99min               |
| Acceleration Rates | 1~10                    | --                    |
| Deceleration Rates | 1~10                    | --                    |
| Motor              | Brushless motor         | Brushless motor       |
| Motor Power        | 100W                    | 100W                  |
| Noise              | <55db                   | <55db                 |
| Voltage            | AC220V, 50Hz, 5A        | AC220V, 50Hz, 5A      |
| Net weight.        | 22kg                    | 22kg                  |
| Gross weight       | 25kg                    | 29kg                  |
| Machine Dimension  | 480x340x280mm (LxWxH)   | 440x350x260mm (LxWxH) |
| Package Dimension  | 540x430x355mm (LxWxH)   | 575x460x380mm (LxWxH) |

### Rotor:

|                                                                                                         |                                                                                        |                                                                                                         |                                                                                        |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <br>No.1 Angle Rotor | Max speed : 4000r/min<br>Capacity : 6 x 50ml<br>Max rcf : 3035xg<br>ØxL : 30.5x86.5mm  | <br>No.2 Angle Rotor | Max speed : 4000r/min<br>Capacity : 12 x 10ml/5ml<br>Max rcf : 2220xg<br>ØxL : 16x92mm |
| <br>No.3 Angle Rotor | Max speed : 4000r/min<br>Capacity : 12 x 20ml/5ml<br>Max rcf : 2220xg<br>ØxL : 22x96mm | <br>No.4 Angle Rotor | Max speed : 4000r/min<br>Capacity : 18 x 10ml/5ml<br>Max rcf : 2240xg<br>ØxL : 16x92mm |
| <br>No.5 Swing Rotor | Max speed : 4000r/min<br>Capacity : 4 x 50ml<br>Max rcf : 2420xg<br>ØxL : 30.5x86.5mm  | <br>No.6 Swing Rotor | Max speed : 4000r/min<br>Capacity : 8 x 15ml<br>Max rcf : 2690xg<br>ØxL : 18x92mm      |
| <br>No.7 Swing Rotor | Max speed : 4000r/min<br>Capacity : 10 x 10ml<br>Max rcf : 2500xg<br>ØxL : 18x83mm     | <br>No.8 Swing Rotor | Max speed : 4000r/min<br>Capacity : 12 x 10ml<br>Max rcf : 2420xg<br>ØxL : 18x83mm     |
| <br>No.9 Angle Rotor | Max speed : 4000r/min<br>Capacity : 12 x 15ml/5ml<br>Max rcf : 2220xg<br>ØxL : 22x99mm |                                                                                                         |                                                                                        |

## Benchtop Low Speed Centrifuge Model: TD5B

With the excellent performance and comprehensive range of accessories, TD5B is able to carry out virtually any centrifuge task of universal purposes. And, since TD5B can be used for both standard and special application, they are not only cost-effective, they also save valuable space in the laboratory.



### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door
- ☆ Emergency lid lock release
- ☆ Safety lid interlock to prevent cover opening during centrifugation
- ☆ Extremely quiet operation.
- ☆ Choice of high brake, low brake
- ☆ Imbalance high detector with cutoff
- ☆ Stable speed output even under unstable voltage conditions
- ☆ Countdown timer
- ☆ Recall of last set parameters. (Useful for repetitive analysis)
- ☆ Self-diagnosis for errors
- ☆ Shortspin function selectable

### Technical data:

|                    |                         |                    |                      |
|--------------------|-------------------------|--------------------|----------------------|
| Model              | TD5B                    | Deceleration Rates | 1~10                 |
| Screen             | LCD color Screen        | Motor              | Converter motor      |
| Machine Body       | Plastic and metal frame | Motor power        | 450W                 |
| Max. Speed         | 5000 rpm                | Noise              | <55db                |
| Max. RCF           | 4760 xg                 | Power supply       | AC220V 50/60Hz 10A   |
| Max Capacity       | 4x250ml                 | Net weight         | 35kg                 |
| Speed accuracy     | ±20 rpm                 | Gross weight       | 51kg                 |
| Timer range        | 1min~99min59s           | Dimension          | 570×460×360mm(L×W×H) |
| Acceleration Rates | 1~10                    | Package dimension  | 630×530×460mm(L×W×H) |

### Rotor:

|                                                                                                         |                                                                                        |                                                                                                          |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>No.1 Swing Rotor | Max speed : 5000r/min<br>Capacity : 4 x 100ml<br>Max rcf : 4745xg<br>ØxL: 42.5x100mm   | <br>No.2 Swing Rotor  | Max speed : 5000r/min<br>Capacity : 4 x 50ml<br>Max rcf : 4760xg<br>ØxL: 18x92mm                                        |
| <br>No.3 Swing Rotor | Max speed : 4000r/min<br>Capacity : 8 x 50ml<br>Max rcf : 3040xg<br>ØxL: 18x88mm       | <br>No.4 Swing Rotor  | Max speed : 4000r/min<br>Capacity : 32x15ml/10ml/5ml/2ml<br>Max rcf : 3000xg/2930xg<br>/2810xg/2810xg<br>ØxL: 13.5x90mm |
| <br>No.5 Swing Rotor | Max speed : 4000r/min<br>Capacity : 48 x 5ml/2ml<br>Max rcf : 2980xg/2625xg            | <br>No.6 Swing Rotor  | Max speed : 4000r/min<br>Capacity : 72 x 5ml/2ml<br>Max rcf : 2950xg/2625xg                                             |
| <br>No.7 Swing Rotor | Max speed : 4000r/min<br>Capacity : 4 x 250ml<br>Max rcf : 2900xg<br>ØxL: 63.5x90mm    | <br>No.8 Swing Rotor  | Max speed : 4000r/min<br>Capacity : 8 x 50ml<br>Max rcf : 3520xg<br>ØxL: 18x88mm                                        |
| <br>No.9 Swing Rotor | Max speed : 4000r/min<br>Capacity : 2 x 2 x 96<br>Max rcf : 2390xg<br>ØxL: 137x87x42mm | <br>No.10 Swing Rotor | Max speed : 4000r/min<br>Capacity : 24 x 15ml<br>Max rcf : 3520xg<br>ØxL: 13.5x90mm                                     |

## Benchtop Low Speed Centrifuge Model: TDZ5-WS

With the excellent performance and comprehensive range of accessories, TDZ5-WS is able to carry out virtually any centrifuge task of universal purposes. And, since TDZ5-WS can be used for both standard and special application, they are not only cost-effective, they also save valuable space in the laboratory.



### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door
- ☆ Emergency lid lock release
- ☆ Safety lid interlock to prevent cover opening during centrifugation
- ☆ Extremely quiet operation.
- ☆ Imbalance high detector with cutoff
- ☆ Stable speed output even under unstable voltage conditions
- ☆ Countdown timer
- ☆ Recall of last set parameters. (Useful for repetitive analysis)
- ☆ Self-diagnosis for errors

### Technical data:

|                |                    |                   |                      |
|----------------|--------------------|-------------------|----------------------|
| Model          | TDZ5-WS            | Motor             | Converter motor      |
| Screen         | LED Digital Screen | Motor power       | 450W                 |
| Machine Body   | Metal frame        | Noise             | <55db                |
| Max. Speed     | 5000 rpm           | Power supply      | AC220V 50/60Hz 10A   |
| Max. RCF       | 4760 xg            | Net weight        | 38kg                 |
| Max Capacity   | 4x100ml            | Gross weight      | 49kg                 |
| Speed accuracy | ±20 rpm            | Dimension         | 540×420×350mm(L×W×H) |
| Timer range    | 1min~99min         | Package dimension | 650×540×440mm(L×W×H) |

### Rotor:

|                                                                                                         |                                                                                        |                                                                                                         |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>No.1 Swing Rotor | Max speed : 5000r/min<br>Capacity : 4 x 100ml<br>Max rcf : 4745xg<br>ØxL: 42.5x100mm   | <br>No.2 Swing Rotor | Max speed : 5000r/min<br>Capacity : 4 x 50ml<br>Max rcf : 4760xg<br>ØxL: 18x92mm                                        |
| <br>No.3 Swing Rotor | Max speed : 4000r/min<br>Capacity : 8 x 50ml<br>Max rcf : 3040xg<br>ØxL: 18x88mm       | <br>No.4 Swing Rotor | Max speed : 4000r/min<br>Capacity : 32x15ml/10ml/5ml/2ml<br>Max rcf : 3000xg/2930xg<br>/2810xg/2810xg<br>ØxL: 13.5x90mm |
| <br>No.5 Swing Rotor | Max speed : 4000r/min<br>Capacity : 48 x 5ml/2ml<br>Max rcf : 2980xg/2625xg            | <br>No.6 Swing Rotor | Max speed : 4000r/min<br>Capacity : 72 x 5ml/2ml<br>Max rcf : 2950xg/2625xg                                             |
| <br>No.7 Swing Rotor | Max speed : 4000r/min<br>Capacity : 2 x 2 x 96<br>Max rcf : 2390xg<br>ØxL: 137x87x42mm |                                                                                                         |                                                                                                                         |

## Benchtop Low Speed Centrifuge

### Model: XZ-6G / XZ-6

XZ-6G and XZ-6 are suitable for routine sample analysis in medical, hospital, pathology and institutional laboratories. With wide variety of accessories, they can be also used for the preparation of samples in industrial and research laboratories.



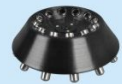
## Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door(for XZ-6G)
- ☆ Emergency lid lock release.
- ☆ Safety lid interlock to prevent cover opening during centrifugation.
- ☆ Extremely quiet operation.
- ☆ Choice of high brake, low brake (for XZ-6G)
- ☆ Imbalance high detector with cutoff.
- ☆ Stable speed output even under unstable voltage conditions.
- ☆ Countdown timer.
- ☆ Recall of last set parameters. (Useful for repetitive analysis).
- ☆ Self-diagnosis for errors.

## Technical data:

| Model              | XZ-6G                   | XZ-6                  |
|--------------------|-------------------------|-----------------------|
| Screen             | LCD color screen /      | LED digital display   |
| Machine Body       | Plastic and metal frame | Metal frame           |
| Max. Speed         | 6000rpm                 | 6000rpm               |
| Max. RCF           | 5080xg                  | 5080xg                |
| Max Capacity       | 6x50ml                  | 6x50ml                |
| Speed accuracy     | ±20 rpm                 | ±20 rpm               |
| Timer range        | 1min~99min59s           | 1min~99min            |
| Acceleration Rates | 1~10                    | --                    |
| Deceleration Rates | 1~10                    | --                    |
| Motor              | Converter motor         | Converter motor       |
| Noise              | <55db                   | <55db                 |
| Power supply       | AC220V 50Hz/60Hz 5A     | AC220V 50/60Hz 5A     |
| Net weight         | 23kg                    | 22kg                  |
| Gross weight       | 26kg                    | 28kg                  |
| Dimension          | 480×340×280mm(L×W×H)    | 440×350×260mm(L×W×H)  |
| Package dimension  | 580×450×300mm(L×W×H)    | 575×460×380 mm(L×W×H) |

## Rotor:

|                                                                                                             |                                                                                                   |                                                                                                             |                                                                                                  |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  <p>No.1 Angle Rotor</p> | <p>Max speed : 6000r/min<br/>Capacity : 12 x 15ml<br/>Max rcf : 5080xg<br/>ØxL: 30.5 x 86.5mm</p> |  <p>No.2 Angle Rotor</p> | <p>Max speed : 5000r/min<br/>Capacity : 6 x 50ml<br/>Max rcf : 4745xg<br/>ØxL: 30.5 x 86.5mm</p> |
|  <p>No.3 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 4 x 50ml<br/>Max rcf : 2420xg<br/>ØxL: 22 x 96mm</p>      |  <p>No.4 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 8 x 15ml<br/>Max rcf : 2690xg<br/>ØxL : 18x92mm</p>      |
|  <p>No.5 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 12 x 10ml<br/>Max rcf : 2600xg<br/>ØxL : 18x83mm</p>      |                                                                                                             |                                                                                                  |

## Benchtop Low Speed High Capacity centrifuge

### Model : TD6B / TD6

The new generation of microprocessor based tabletop centrifuges models use brushless induction motor with frequency drive enabling the user to pre-set speed & time with a high degree of accuracy. Display of set parameters like speed, time etc. make the unit an ideal choice for repetitive sample analysis.



### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door.
- ☆ Emergency lid lock release.
- ☆ Safety lid interlock to prevent cover opening during centrifugation.
- ☆ Extremely quiet operation.
- ☆ Choice of high brake, low brake (for TD6B).
- ☆ Imbalance high detector with cutoff.
- ☆ Stable speed output even under unstable voltage conditions.
- ☆ Countdown timer.
- ☆ Recall of last set parameters. (Useful for repetitive analysis).
- ☆ Self-diagnosis for errors.
- ☆ Shortspin function (for TD6B).

### Technical data:

| Model              | TD6B                 | TD6                  |
|--------------------|----------------------|----------------------|
| Screen             | LCD color Screen     | LED Digital Screen   |
| Machine Body       | Metal frame          | Metal frame          |
| Max. Speed         | 6000 rpm             | 6000 rpm             |
| Max. RCF           | 5080xg               | 5080xg               |
| Max Capacity       | 4x500ml              | 4x500ml              |
| Speed accuracy     | ±20 rpm              | ±20 rpm              |
| Timer range        | 1~99min              | 1~99min              |
| Acceleration Rates | 1~10                 | --                   |
| Deceleration Rates | 1~10                 | --                   |
| Motor              | Converter motor      | Converter motor      |
| Noise              | <55db                | <55db                |
| Power supply       | AC220V 50/60Hz 10A   | AC220V 50/60Hz 10A   |
| N.W.               | 56kg                 | 56kg                 |
| G.W.               | 64kg                 | 64kg                 |
| Dimension          | 600×490×400mm(L×W×H) | 600×490×400mm(L×W×H) |
| Packing Size       | 700×600×500mm(L×W×H) | 700×600×500mm(L×W×H) |

### Rotor:

|                                                                                                                |                                                                                                                                 |                                                                                                                |                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|  <p>No.1 Angle Rotor</p>    | <p>Max speed : 6000r/min<br/>Capacity : 12 x 15ml<br/>Max rcf : 5080xg<br/>ØxL: 18x102mm</p>                                    |  <p>No.2 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 96 x 5ml/2ml<br/>Max rcf : 3620xg/3405xg</p>            |
|  <p>No.3 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 32 x 15ml/10ml/5ml/2ml<br/>Max rcf : 3000xg/2930xg/2810xg/2810xg<br/>ØxL: 13.5x90mm</p> |  <p>No.4 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 8 x 50ml<br/>Max rcf : 3040xg<br/>ØxL: 30.5x86.5mm</p>  |
|  <p>No.5 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 4 x 2 x 100ml<br/>Max rcf : 2950xg<br/>ØxL: 42.5x100mm</p>                              |  <p>No.6 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 4 x 4 x 15ml/<br/>Max rcf : 3100xg<br/>ØxL: 18x92mm</p> |
|  <p>No.7 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 2 x 2 x 96holes<br/>Max rcf : 2390xg<br/>ØxL: 137x87x42mm</p>                           |  <p>No.8 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 4x250ml<br/>Max rcf : 2990xg<br/>ØxL: 63.5x90mm</p>     |
|  <p>No.9 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 4 x 500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p>                                    |  <p>No.10 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 24 x 15ml<br/>Max rcf : 3000xg<br/>ØxL: 18x92mm</p>     |
|  <p>No.11 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 16 x 50ml<br/>Max rcf : 3520xg<br/>ØxL: 30.5x86.5mm</p>                                 |  <p>No.12 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 80 x 5ml/2ml<br/>Max rcf : 3620xg/3260xg</p>            |
|  <p>No.13 Angle Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 24 x 10ml<br/>Max rcf : 3670xg<br/>ØxL: 16x92mm</p>                                     |                                                                                                                |                                                                                                 |

## Benchtop Low Speed High Capacity Refrigerated Centrifuge

### Model: XZ-5MT / TDL5M

The new generation of microprocessor based tabletop centrifuges models use brushless induction motor with frequency drive enabling the user to preset speed & time with a high degree of accuracy. Display of set parameters like speed, time etc. make the unit an ideal choice for repetitive sample analysis.



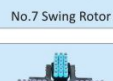
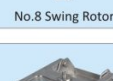
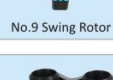
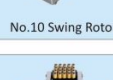
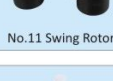
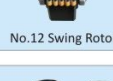
### Features:

- ☆ Brushless induction motor with frequency drive
- ☆ Stable speed output even under unstable voltage conditions
- ☆ Digital countdown timer
- ☆ Safety lid interlock to prevent lid opening during centrifugation
- ☆ Dynamic brake for quick deceleration
- ☆ Imbalance & Inverter fault detection with auto shutdown
- ☆ Alphanumeric LCD display of speed & RCF (XZ-5MT)
- ☆ Recall of last set parameters. (Useful for repetitive analysis)
- ☆ Automatic door opening through gas spring.

### Technical data:

|                        | XZ-5MT                  | TDL5M                |
|------------------------|-------------------------|----------------------|
| Model                  | XZ-5MT                  | TDL5M                |
| Screen                 | LCD Touch Screen        | LED Digital Screen   |
| Machine Body           | Plastic and metal frame | Metal frame          |
| Max. Speed             | 5500rpm                 | 5500rpm              |
| Max. RCF               | 5732×g                  | 5732×g               |
| Max Capacity           | 4x500ml                 | 4x500ml              |
| Temp. Range(at RT25°C) | -20°C ~ +40°C           | -20°C ~ +40°C        |
| Temp accuracy          | ±1°C                    | ±1°C                 |
| Speed accuracy         | ±20rpm                  | ±20rpm               |
| Timer range            | 1min~99min59s           | 1min~99min59s        |
| Acceleration Rates     | 1~10                    | --                   |
| Deceleration Rates     | 1~10                    | --                   |
| Motor                  | Converter motor         | Converter motor      |
| Motor power            | 750W                    | 750W                 |
| Noise                  | <55db                   | <55db                |
| Power supply           | AC220V 50/60Hz 15A      | AC220V 50/60Hz 15A   |
| Net weight             | 110kg                   | 125kg                |
| Gross weight           | 150kg                   | 141kg                |
| Dimension              | 840×600×500mm(L×W×H)    | 830×640×390mm(L×W×H) |
| Package dimension      | 940×700×600mm(L×W×H)    | 930×740×520mm(L×W×H) |

### Rotor:

|                                                                                                                |                                                                                                                                      |                                                                                                                |                                                                                                            |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  <p>No.1 Angle Rotor</p>    | <p>Max speed : 5500r/min<br/>Capacity : 12x 15ml<br/>Max rcf : 4261xg<br/>ØxL: 22x99</p>                                             |  <p>No.2 Swing Rotor</p>    | <p>Max speed : 5500r/min<br/>Capacity : 4 x 50ml<br/>Max rcf : 5732xg<br/>ØxL: 30.5x86.5</p>               |
|  <p>No.3 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 16 x 10ml<br/>Max rcf : 3000xg<br/>ØxL: 18x88</p>                                            |  <p>No.4 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 96 x 5ml/2ml<br/>Max rcf : 3620xg/3405xg</p>                       |
|  <p>No.5 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 8 x 50ml<br/>Max rcf : 3040xg<br/>ØxL: 30.5x86.5</p>                                         |  <p>No.6 Swing Rotor</p>    | <p>Max speed : 5000r/min<br/>Capacity : 4 x 100ml<br/>Max rcf : 4745xg<br/>ØxL: 42.5x100</p>               |
|  <p>No.7 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 32 x 15ml/10ml/5ml/2ml<br/>Max rcf : 3000xg/2930xg<br/>/2810xg/2810xg<br/>ØxL: 13.5x90mm</p> |  <p>No.8 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 48 x 5/2ml<br/>Max rcf : 2980xg/2625xg</p>                         |
|  <p>No.9 Swing Rotor</p>    | <p>Max speed : 4000r/min<br/>Capacity : 72 x 5ml/2ml<br/>Max rcf : 2950xg/2625xg</p>                                                 |  <p>No.10 Swing Rotor</p>   | <p>Max speed : 4000r/min<br/>Capacity : 2 x 2 x 96holes<br/>Max rcf : 2390xg<br/>Boring ØxL: 137x87x42</p> |
|  <p>No.11 Swing Rotor</p>  | <p>Max speed : 4000r/min<br/>Capacity : 4 x 250ml<br/>Max rcf : 2990xg<br/>ØxL: 63.5x90</p>                                          |  <p>No.12 Swing Rotor</p>  | <p>Max speed : 4000r/min<br/>Capacity : 80 x 5ml/2ml<br/>Max rcf : 3620xg/3260xg<br/>ØxL: 13.5x90mm</p>    |
|  <p>No.13 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 8 x 100ml<br/>Max rcf : 2950xg<br/>ØxL: 42.5x100</p>                                         |  <p>No.14 Swing Rotor</p> | <p>Max speed : 4000r/min<br/>Capacity : 4 x 500ml<br/>Max rcf : 3520xg<br/>ØxL: 81x105mm</p>               |

## Hematocrit Centrifuge Model: TG12

Haematocrit centrifuge is primarily used to determine the percentage by volume of erythrocytes (red blood cells) in blood. In this procedure blood is centrifuged in haematocrit capillaries until the maximum cell packing density is reached. When centrifugation is complete the haematocrit value can be read by a special evaluation reader card.

TG12 with 24-capillaries rotor provides reliable support for the determination of the haematocrit value.

### Features:

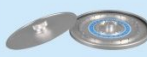
- ☆ Brushless induction motor with frequency drive ensures gentle start
- ☆ Reliable drive system
- ☆ Very low noise level
- ☆ Motorized lid locks
- ☆ Special rotor connector which makes it easy to load and unload rotor
- ☆ Special tool for loading and unloading rotor
- ☆ Stainless steel chamber
- ☆ It cannot run with the open lid, neither open the lid when rotor runs.
- ☆ Manual emergency lid release (very useful in an unexpected power interruption)
- ☆ Produced according to national and international safety regulations (e.g. IEC 61010)
- ☆ ISO9001:2008, ISO13485 CE international standards are met.



### Technical data:

|                |                       |                   |                       |
|----------------|-----------------------|-------------------|-----------------------|
| Model          | TG12                  | Noise             | <55db                 |
| Max. speed     | 12000rpm              | Power             | Ac220v 50/60Hz 5A     |
| Max. rcf       | 14800xg               | Net weight        | 26kg                  |
| Motor          | Converter motor       | Gross weight      | 32kg                  |
| Capacity       | 24 pcs capillary tube | Dimension         | 400x350x340mm (LxWxH) |
| Speed accuracy | ±20rpm                | Package dimension | 500x420x410mm (LxWxH) |
| Timer range    | 1min~99min59s         |                   |                       |

### Rotor:

|                                                                                                            |                                                                                          |                                                                                                                   |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|  <p>Capillary Rotor</p> | <p>Max speed : 12000r/min<br/>Capacity : 24 pcs capillary tube<br/>Max rcf : 14800xg</p> |  <p>MICROHEMATOCRIT READER</p> |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

## Cytocentrifuge Model: XJ-8 / XJ-12

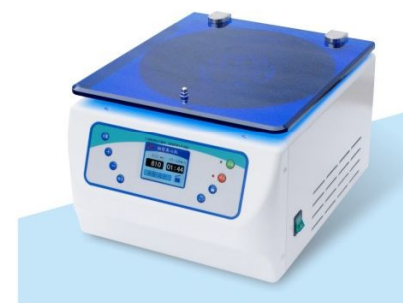
It is controlled by microprocessor, equipped with DC. Brushless motor, digital and low noise. It can be used to take erythrocyte-serum test, identify antigens and antibodies, and give other relative tests in immune hematology examination and research laboratories.

### Technical data:

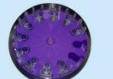
|                   |                       |                       |
|-------------------|-----------------------|-----------------------|
| Model             | XJ-8                  | XJ-12                 |
| Max. Speed        | 2200rpm               | 2200rpm               |
| Max. RCF          | 890xg                 | 890xg                 |
| Max. Capacity     | 12 samples            | 12 samples            |
| Cytofunnel Height | 50mm                  | 50mm                  |
| Timer             | 1-99min               | 1-99min               |
| Noise             | <55db                 | <55db                 |
| Motor             | Converter motor       | Converter motor       |
| Motor Power       | 200W                  | 200W                  |
| Voltage           | AC 220V, 50/60Hz, 5A  | AC 220V, 50/60Hz, 5A  |
| N.W.              | 22kg                  | 22kg                  |
| G.W.              | 25 kg                 | 26kg                  |
| Machine Dimension | 480x340x280mm (LxWxH) | 540x440x300mm (LxWxH) |
| Package Dimension | 540x430x355mm (LxWxH) | 620x520x390mm (LxWxH) |

### Features:

- ☆ Microcomputer control, brushless DC motor, running low noise, high speed accuracy.
- ☆ Automatic balance, with large capacity centrifugal cavity, the temperature rise is small.
- ☆ Digital display, user-friendly interface, the operation more convenient.
- ☆ Equipped with electronic door locks, door cover protection, speeding, unbalance and other protection; fault automatic alarm recognition, safe and reliable.
- ☆ 5 minutes can be 8-12 specimens, simple operation, no pollution, cell smear uniform, clear background.



### Rotor:

|                                                                                                          |                                                                                |                                                                                                          |                                                                               |                                                                                                          |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|  <p>No. 1 Rotor</p> | <p>Max speed : 2200r/min<br/>Max capacity : 12 pcs cups<br/>Only for XJ-8</p>  |  <p>No. 2 Rotor</p> | <p>Max speed : 2200r/min<br/>Max capacity : 8 pcs cups<br/>Only for XJ-12</p> |  <p>No. 3 Rotor</p> |
|  <p>No. 3 Rotor</p> | <p>Max speed : 2200r/min<br/>Max capacity : 12 pcs cups<br/>Only for XJ-12</p> |  <p>No. 2 Rotor</p> |                                                                               |                                                                                                          |

## Cell Washing Centrifuge Model: TD4-1

### Features:

- ☆ Microprocessor control, digital display, directly drive by brushless motor, programmed timer.
- ☆ Within 3 minutes, time will be set, increased, displayed and controlled to meet the standard requirements.
- ☆ Automatic balance, low noise.

### Technical data:

|                   |                       |
|-------------------|-----------------------|
| Model No.         | TD4-1                 |
| Max.Speed         | 4500r/min             |
| Max RCF           | 2000xg                |
| Speed accuracy    | ±20 rpm               |
| Time Range        | Program Control       |
| Noise             | <55db                 |
| Motor             | Brushless motor       |
| Motor Power       | 100W                  |
| Voltage           | AC 220V 50Hz 5A       |
| Net weight        | 22kg                  |
| Gross weight      | 28kg                  |
| Machine Dimension | 440x350x260mm (LxWxH) |
| Package Dimension | 450x530x350mm (LxWxH) |



### Rotor:

|                                                                                                       |                                                                    |                                                                            |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|
|  <p>HLA Rotor</p>  | Max speed : 4500r/min<br>Capacity : 12 x 2ml<br>Max rcf : 2000xg   | 180s to separate lymphocytes and cultured cells                            |
|                                                                                                       | Max speed : 3200r/min<br>Capacity : 12 x 1.5ml<br>Max rcf : 1000xg | 3s to get rid of platelet                                                  |
|                                                                                                       | Max speed : 3200r/min<br>Capacity : 12 x 0.5ml<br>Max rcf : 1000xg | 60s to wash lymphocyte                                                     |
|  <p>SERO Rotor</p> | Max speed : 2100r/min<br>Capacity : 12 x 5ml<br>Max rcf : 500xg    | 60s to judge blood type, observe the response of hemagglutination reaction |
|                                                                                                       | Max speed : 3000r/min<br>Capacity : 12 x 5ml<br>Max rcf : 1000xg   | 15s for experiments of Cross-adaptation and anti-ball element              |
|                                                                                                       | Max speed : 3000r/min<br>Capacity : 12 x 5ml<br>Max rcf : 1000xg   | 60s to wash blood cell, extract serum and plasma                           |

Remark: 5ml:Ø13x100mm(L) 2ml:Ø13x75mm(L)

## PRP Centrifuge Model: TF-1

TF-1 PRP Centrifuge is mainly applied to beauty fat purification and orthopedics. The machine can use with PRP special tube of 10ml, 20ml, 50ml. With the features of fast separation and purification, the surgery time is shortened and the survival rate of PRP maximally improved, which makes the transplant surgery simple and convenient, this machine is the prior assistant for the plastic surgeons.

### Features:

- ☆ Microprocessor control, preset: RCF, speed, time, program, with LCD synchronous display.
- ☆ Data set by touch key board, with RCF key.
- ☆ Direct drive by high torque brushless DC inverter motor, stable run, low noise, high accuracy of speed and rcf, maintenance free.
- ☆ Mechanical and electrical interlock system, locked while machine starts, ensuring safety.
- ☆ Multi-options for programs, the user can freely set the wanted data, avoiding repeated set and improving work efficiency.
- ☆ 8 selective rates of Acc / Dec, the user can freely set the wanted rate according to the need.
- ☆ With function of timing at set rpm; function of short spin.
- ☆ Synchronous set rcf, speed, and with display.
- ☆ Stainless steel centrifuge chamber, avoiding corrosion by corrosive materials.
- ☆ Auto-balance, protection of imbalance, with sound signals when occurs error or imbalance; auto-recognition of imbalance; protection of over speed.
- ☆ Fastest speed up / down time ≤ 28s.
- ☆ Suitable for common syringes of 10ml, 20ml, 50ml and orthopedics PRP tube.
- ☆ The rotor and tube racks are able to process by autoclave sterilization.



### Technical data:

|                   |                                           |
|-------------------|-------------------------------------------|
| Model             | TF-1                                      |
| Max Speed         | 5000rpm                                   |
| Max. RCF          | 4760xg                                    |
| Speed accuracy    | ±20 rpm                                   |
| Noise             | ≤60db(A)                                  |
| Timer range       | 1~99min /continuous / short spin          |
| No1: Swing Rotor  | 50mlx4 5000rpm 4760xg (for 50ml syringe)  |
| No2: Swing Rotor  | 20mlx8 4000rpm 3040xg (for 20ml syringe)  |
| No3: Angle Rotor  | 10mlx12 4500rpm 3395xg (for 10ml syringe) |
| Voltage           | AC220V 50Hz                               |
| N.W.              | 35kg                                      |
| Motor Power       | 750W                                      |
| Dimension (LxWxH) | 580x460x360mm                             |



## Multifunction PRP Centrifuge Model: TF-3

### Applications:

Offer autologous barrier membrane by autologous venous blood preparation.  
Offer autologous fibrin bone regeneration material by autologous venous blood preparation.

### Features:

- ☆ With preset programs of CGF (Concentrated Growth Factor) and PRP (Platelet Rich Plasma).
- ☆ Auto control system allows one touch operation, no need to set the speed and time.
- ☆ Allows for the use of up to 8 test tubes for the creation of CGF.
- ☆ Integral carving and casting rotor.
- ☆ Preparation volume of a single tube is up to 9ml.
- ☆ With acceleration and deceleration control system, speed is auto-changing between 24000rpm to 3000rpm according to the program.
- ☆ The temperature control system ensures a low temperature environment constant between 12°C~15°C.
- ☆ Purification and disinfection system: equipped with a decontamination cycle with UVC reflected light, cycl duration 5 minutes at 1,000rpm.
- ☆ The test tube-holding jackets and rotor are easy to clean, and able to take out for sterilization in an autoclave at 135°.
- ☆ Noise levels fall below the standards required and do not exceed 57 dBA.



### Technical data:

|                   |               |
|-------------------|---------------|
| Model             | TF-3          |
| Voltage           | AC220V 50Hz   |
| N.W.              | 22kg          |
| Dimension (LxDxH) | 275x325x270mm |
| Motor Power       | 120VA         |

### Advances:

- ☆ Automatic Program Control System
- ☆ One Touch Operation
- ☆ Acceleration and Deceleration Control System
- ☆ Temperature Control System
- ☆ Purification and Disinfection System
- ☆ The test tube-holding jackets and rotor are autoclavable
- ☆ Special designed casting rotor

### Indications:

- |                                  |                                    |
|----------------------------------|------------------------------------|
| <b>Oral Implantology</b>         | <b>Oral Periodontology</b>         |
| ☆ GBR (Guided Bone Regeneration) | ☆ GTR (Guided Tissue Regeneration) |
| ☆ Maxillary sinus lift           | ☆ GBR (Guided Bone Regeneration)   |
| ☆ Extraction Site Preservation   |                                    |



## Geber Milk Centrifuge Model: RZ50 / RZ10

RZ50 / RZ10 are used for standard physio chemical test on the relative density and fat volume of milk products with the method of Gerber. It applies in such fields as milk and milk products, medicine and pharmacy, biochemistry, and hygienic food to measure the volume or percentage of the fat centrifuged from milk.

### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door
- ☆ Emergency lid lock release
- ☆ Safety lid interlock to prevent cover opening during centrifugation
- ☆ Extremely quiet operation.
- ☆ Choice of high brake, low brake.
- ☆ Imbalance high detector with cutoff
- ☆ Stable speed output even under unstable voltage conditions
- ☆ Countdown timer
- ☆ Recall of last set parameters. (Useful for repetitive analysis)
- ☆ Self-diagnosis for errors



### Technical data:

| Model             | Rz50                  | Rz10                  |
|-------------------|-----------------------|-----------------------|
| Rotor Type        | Swing Rotor ( steel ) | Angle Rotor           |
| Tube Number       | 12 Butyrometers       | 8 Butyrometers        |
| Max. Speed        | 2400rpm               | 1500rpm               |
| Max. RCF          | 320xg                 | 320xg                 |
| Temp range        | Room ~+60°C           | Room ~+60°C           |
| Timer range       | 1~99min               | 1~99min               |
| Noise             | <55db                 | <55db                 |
| Motor Power       | 750W                  | 750W                  |
| Voltage           | AC220V 50HZ 10A       | AC220V 50HZ 10A       |
| Net Weight        | 65Kg                  | 65Kg                  |
| Gross Weight      | 80Kg                  | 80Kg                  |
| Machine Dimension | 650x540x480mm (LxWxH) | 650x540x480mm (LxWxH) |
| Package Dimension | 760x660x600mm (LxWxH) | 760x660x600mm (LxWxH) |

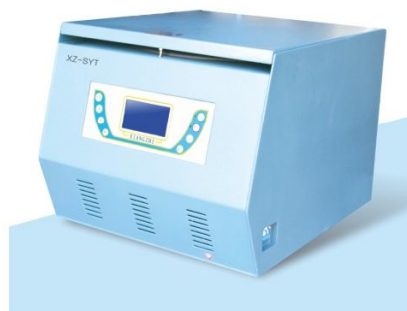


## Crude Oil Moisture Determining Centrifuge Model: XZ-SYT-4C / XZ-SYL-8D

XZ-SYT-4C and XZ-SYL-8D are designed according to the water and deposit determining in crude oil. It meets the requirements of GB/T6533-86 or ASTM D4007 standard, and makes use of separation to determine the water and deposit in crude oil. It is ideal equipment for moisture determining in oil exploration and researching institute.

### Features:

- ☆ Metal external case.
- ☆ Rubber suspensions reduce the vibrations.
- ☆ Gas spring to prevent falling of door.
- ☆ Emergency lid lock release.
- ☆ Safety lid interlock to prevent cover opening during centrifugation.
- ☆ Extremely quiet operation.
- ☆ Imbalance high detector with cutoff.
- ☆ Stable speed output even under unstable voltage conditions.
- ☆ Countdown timer.
- ☆ Recall of last set parameters. (Useful for repetitive analysis).
- ☆ Self-diagnosis for errors.



### Technical data:

| Model             | XZ-SYT-4C( Table top ) | XZ-SYL-8D              |
|-------------------|------------------------|------------------------|
| Max speed         | 4000rpm                | 4000rpm                |
| Max capacity      | 4x100ml                | 16x100ml               |
| Max RCF           | 2000N                  | 2000N                  |
| Temperature range | RT~70°C                | RT~70°C                |
| Time range        | 1~99min                | 1~99min                |
| Noise             | <65dB                  | <65dB                  |
| N.W.              | 65kg                   | 150kg                  |
| G.W.              | 80kg                   | 180kg                  |
| Dimension         | 650x540x480mm(LxWxH)   | 840x730x1220mm(LxWxH)  |
| Packing size      | 750x630x520mm(LxWxH)   | 1040x930x1500mm(LxWxH) |

### Rotor:

|                                                                                                        |                                                           |                                                                                                        |                                                           |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|  <p>No. 1 Rotor</p> | <p>Max speed : 4000r/min<br/>Max capacity : 4 x 100ml</p> |  <p>No. 2 Rotor</p> | <p>Max speed : 4000r/min<br/>Max capacity : 8 x 100ml</p> |
|  <p>No. 3 Rotor</p> | <p>Max speed :4000r/min<br/>Max capacity : 16 x 100ml</p> |                                                                                                        |                                                           |

## Automatic Blood Bank Tube Sealer Model: Gr2002

The tube sealer is newly developed for sealing the blood bag. It is widely used in the blood bank center with more reliability efforts and more attractively appearance.



### Technical data:

| Model           | Gr2002                       |
|-----------------|------------------------------|
| Sealing Voltage | adjust automatically         |
| Control         | microprocessor control       |
| Sealing Time    | automatically                |
| Size of Tube    | Φ4mm to Φ6mm thickness ≤ 1mm |
| Power Supply    | AC190V~250V /50Hz            |
| NW              | 9 kg                         |
| GW              | 10 kg                        |
| Dimension       | 270 x 220 x 170 mm           |
| Packing Size    | 380 x 240 x 240 mm           |