

### **Technology Creates The Future**

# HL-7K、HM-10K

- More precise control of voltage, current, speed and separation, to ensure that its constant speed will not change with voltage or load changes;
- Speed up to the rated speed within 3 seconds;
- Resist all kinds of chemical corrosion.

# HH-12K

- Reliable and durable DC permanent magnet motor, speed range is wider 500 ~ 12000rpm, accuracy ± 5%;
- Unique rotary snap-on installation design, you can easily replace the rotary without any tools, so that the experimenter can change the rotary more easily and quickly;
- The high-strength host and rotor material can resist all kinds of chemical corrosion, and the rotor has high temperature disinfection function.

## **BIO-DL** Mini Centrifuge

Mini centrifuge adopts international advanced design concept and manufacturing technology, it has smooth and beautiful appearance, compact and stable structure, adhering to the advantages of high versatility, easy operation, and has the characteristics of "stable start" and "stable braking" features; it is very suitable for microtube filtration and rapid centrifugation, micro blood cell separation, microbial sample processing, PCR experiment partition centrifugation, preventing liquid from hanging in the centrifuge tube and other phenomena, it would be the top choice for processing small centrifuge samples.



HL-7K、HM-10K



HH-12K

#### **Product Features**

- Using the advanced high-frequency full-range and wide-range power supply control scheme, in line with AC100-250V / 50 / 60Hz input power supply, it could accurately control voltage, current, speed and relative separation, to ensure that its constant speed will not follow changes in voltage or load;
- Faster acceleration and deceleration make the time required to complete the experiment shorter and accelerate to the rated speed within 3 seconds;
- The unique snap-on installation design of the rotor allows the rotor to be replaced without any tools, allowing experimenters to change the rotor easily and quickly;
- The high-strength host and rotor material can resist various chemical corrosion:
- The use of high-efficiency DC permanent magnet motor, RSS material shock absorption, the operation is more stable;
- The rotation space is a 360 degrees, without clamping, resistance, temperature rise, and ultra-quiet sound. The overall noise is ≤47dB.

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#### Product Features

- Using the advanced and reliable PI high-frequency full-range wide-range power supply control scheme is in line with the power supply around the world. Through 16-bit MCU calculation PWM speed control, voltage, current, speed and effective separation time can be controlled more accurately to ensure extending the service life of the motor and controling the electromagnetic noise;
- Isolation speed step adjustment is 500rpm, effective separation time range: 1-99 minutes or 1-59 seconds;
- Faster acceleration or deceleration rate, required to complete the experiment in a shorter time;
- The novel composite test tube rotor and compatible with more test tube rotors meet the basic needs of the experiment;
- Cover protection, overspeed and unbalance detection system, which can monitor the separation process in real time to ensure the safe operation of the instrument. When the operation is completed, errors and unbalance occur, the sound signal is prompted, operation is stopped and code displayed at the same time.

# BIO-DL Mini Centrifuge



Unit Volume: 2/1.5/0.5/0.2ml

Total Centrifugal Capacity: 2/1.5/0.5/0.2ml×8



Unit Volume: 0.5ml

**Total Centrifugal Capacity:** 0.5ml×8



Unit Volume: 0.2ml

**Total Centrifugal Capacity:** 0.2ml×8



Unit Volume: 0.2ml

**Total Centrifugal Capacity:** 0.2ml×8×4



Unit Volume: 20µl Φ1.5mm×L40mm

**Total Centrifugal Capacity:**  $20\mu l \times 12$ 



Mini-P-2



Mini-P-3

## **Host Parameters**

Product Number	HL-7K	HM-10K	HH-12K		
Input Power [W]	18W	25W	45W		
Control Method	PI power	PI power	ST 16-bit MCU/PWM/speed contro		
Rotor Capacity [ml]	Angle type rotor: 2/1.5/0.5/0.2ml×8 PCR rotor: 0.2ml×8×4(PCR tube)	Angle type rotor: 2/1.5/0.5/0.2ml×8 PCR rotor: 0.2ml×8×4(PCR tube)	Compound Angle type rotor: 1.5/2.2×12+ PCR0.2×8×4 Rows		
Maximum Speed[r/min.]	7,000r/min.±3%	10,000r/min.±3%	12,000r/min.±5%		
Maximum Relative centrifugal force [×g]	2,910×g	5,610×g	9,660×g		
Dimensions:	155×168×118mm	155×168×118mm	194×229×120mm		
Weight	1.2Kg	1.2Kg	2Kg		
Noise at Maximum Speed (≈)	≤43dB(A)	≤45dB(A)	≤47dB(A)		
Fastest Acceleration Time [sec]	≤3s	≤3s	≤12s		
Fastest Deceleration Time [sec]	≤3s	≤3s	≤16s		
Input Power	AC100-250V/50/60Hz				
Allowed Temperature Relative Humidity	5-40°C/80%				
Motor	DC24V/ dc permanent magnet motor				
Power Fuse	PPTC/ resettable fuses / no need to change				
Protection Level	IP21				
Testing Standards	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2				

# **BIO-DL** Mini Centrifuge

## **Rotor Parameters**

Product Name	Model	Rotor	Volume (ml×tube)	Max. Speed (r/min)	Maximum Relative Centrifugal Force(×g)
Centrifuge HL-7K	Mini-A-1	#1 Angle Type Rotor	2/1.5/0.5/0.2ml×8holes	7000	2910
	Mini-A-2	#2PCR Row Tube	0.2ml×8holes×4rows	7000	1643
Centrifuge HM-10K	Mini-A-1	#1 Angle Type Rotor	2/1.5/0.5/0.2ml×8holes	10000	5610
	Mini-A-2	#2PCR Row Tube	0.2ml×8holes×4rows	10000	3354
Centrifuge HH-12K	HH-12K-A-1	#1 Compound Angle Rotor	1.5/2.2×12+ PCR0.2×8holes×4rows	12000	9500
Centrifuge HH-12K	HH-12K-A-2	#2 Angle Type PCR Rotor	0.2ml×12holes×4rows	12000	5960
Centrifuge HH-12K	HH-12K-A-3	#3 Angle Type Rotor	5ml×4holes cone bottom tube with lid	12000	9660
Centrifuge HH-12K	HH-12K-A-4	#4 Capillary Hematocrit Rotor	1.5mm in diameter × 40mm in length capillary	× 12	8371
Centrifuge HH-12K	HH-12K-A-5	#5 Angle Type Rotor	5/1.8/1.1ml×4rows/ vertical screw tube	7000	3180

## **Ordering Information**

5500100B         Centrifuge HL-7K           5500101B         Centrifuge HM-10K           accessories         Det           5500100B-1         Angle Type Rotor 2/1.5ml×8holes         Det           5500100B-2         Row Tube Rotor 0.2ml×8holes×4rows         Det           5500100B-3         Conversion Adapter 0.5ml×8         Det           5500100B-4         Conversion Adapter 0.2ml×8         Det           Item Number         Product Name         No           5500102B         Centrifuge HH-12K           Accessory         Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rows         Det           5500102B-1         Compound Angle Rotor 0.2ml×12holes×4rows         Det           5500102B-2         PCR Tube Rotor 0.2ml×12holes×4rows         Det           5500102B-3         Angled Rotor 5ml×4holes/cone bottom tube with lid         Op           5500102B-4         Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12         Op           5500102B-5         Angle type rotor 5ml × 4 / vertical screw tube         Op           5500102B-6         Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1         Op           5500102B-7         Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-5         Op           5500102B-9         Hematocrit rotor reading card / standard			
5500101B Centrifuge HM-10K  accessories  5500100B-1 Angle Type Rotor 2/1.5ml×8holes  5500100B-2 Row Tube Rotor 0.2ml×8holes×4rows  Def   5500100B-3 Conversion Adapter 0.5ml×8  Def   5500100B-4 Conversion Adapter 0.2ml×8  Centrifuge HH-12K  Accessory  5500102B Centrifuge HH-12K  Accessory  5500102B-1 Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rows  Def   5500102B-2 PCR Tube Rotor 0.2ml×12holes×4rows  Def   5500102B-3 Angled Rotor 5ml×4holes/cone bottom tube with lid Op   5500102B-4 Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12 Op   5500102B-5 Angle type rotor 5ml × 4 / vertical screw tube  Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1 Op   5500102B-8 Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-5 Op   5500102B-9 Hematocrit rotor reading card / standard HH-12K-A-4 / 1 Op   5500102B-10 Capillary sealing plate / standard HH-12K-A-4 / 1	Item Number	Product Name	Note
accessories         5500100B-1         Angle Type Rotor 2/1.5ml×8holes         Det           5500100B-2         Row Tube Rotor 0.2ml×8holes×4rows         Det           5500100B-3         Conversion Adapter 0.5ml×8         Det           5500100B-4         Conversion Adapter 0.2ml×8         Det           Item Number         Product Name         No           5500102B         Centrifuge HH-12K           Accessory         Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rows         Det           5500102B-1         Compound Angle Rotor 0.2ml×12holes×4rows         Det           5500102B-2         PCR Tube Rotor 0.2ml×12holes×4rows         Det           5500102B-3         Angled Rotor 5ml×4holes/cone bottom tube with lid         Op           5500102B-4         Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12         Op           5500102B-5         Angle type rotor 5ml × 4 / vertical screw tube         Op           5500102B-6         Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1         Op           5500102B-7         Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-5         Op           5500102B-8         Conversion adapter 1.8 / 1.1ml × 4 / standard HH-12K-A-5         Op           5500102B-9         Hematocrit rotor reading card / standard HH-12K-A-4 / 1         Op </td <td>5500100B</td> <td>Centrifuge HL-7K</td> <td></td>	5500100B	Centrifuge HL-7K	
5500100B-1 Angle Type Rotor 2/1.5ml×8holes Det 5500100B-2 Row Tube Rotor 0.2ml×8holes×4rows Det 5500100B-3 Conversion Adapter 0.5ml×8 Det 5500100B-4 Conversion Adapter 0.2ml×8  Item Number Product Name No 5500102B Centrifuge HH-12K  Accessory 5500102B-1 Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rows Det 5500102B-2 PCR Tube Rotor 0.2ml×12holes×4rows Det 5500102B-3 Angled Rotor 5ml×4holes/cone bottom tube with lid Op 5500102B-4 Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12 Op 5500102B-5 Angle type rotor 5ml × 4 / vertical screw tube Op 5500102B-6 Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1 Op 5500102B-8 Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-1 Op 5500102B-9 Hematocrit rotor reading card / standard HH-12K-A-4 / 1 Op 5500102B-10 Capillary sealing plate / standard HH-12K-A-4 / 1	5500101B	Centrifuge HM-10K	
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Item NumberProduct NameNo5500102BCentrifuge HH-12KAccessory5500102B-1Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rowsDet5500102B-2PCR Tube Rotor 0.2ml×12holes×4rowsDet5500102B-3Angled Rotor 5ml×4holes/cone bottom tube with lidOp5500102B-4Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12Op5500102B-5Angle type rotor 5ml × 4 / vertical screw tubeOp5500102B-6Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1Op5500102B-7Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-1Op5500102B-8Conversion adapter 1.8 / 1.1ml × 4 / standard HH-12K-A-5Op5500102B-9Hematocrit rotor reading card / standard HH-12K-A-4 / 1Op5500102B-10Capillary sealing plate / standard HH-12K-A-4 / 1Op	5500100B-2	Row Tube Rotor 0.2ml×8holes×4rows	Default
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Accessory  5500102B-1 Compound Angle Rotor 1.5/2ml×12+PCR0.2ml×8holes×4rows Detection  5500102B-2 PCR Tube Rotor 0.2ml×12holes×4rows Detection  5500102B-3 Angled Rotor 5ml×4holes/cone bottom tube with lid Op  5500102B-4 Capillary hematocrit rotor 1.5mm in diameter × 40mm in length capillary × 12 Op  5500102B-5 Angle type rotor 5ml × 4 / vertical screw tube Op  5500102B-6 Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1 Op  5500102B-7 Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-1 Op  5500102B-8 Conversion adapter 1.8 / 1.1ml × 4 / standard HH-12K-A-5 Op  5500102B-9 Hematocrit rotor reading card / standard HH-12K-A-4 / 1 Op	Item Number	Product Name	Note
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5500102B-8 Conversion adapter 1.8 / 1.1ml × 4 / standard HH-12K-A-5 Op 5500102B-9 Hematocrit rotor reading card / standard HH-12K-A-4 / 1 Op 5500102B-10 Capillary sealing plate / standard HH-12K-A-4 / 1 Op	5500102B-6	Conversion adapter 0.5ml × 12pcs / standard HH-12K-A-1	Optional
5500102B-9 Hematocrit rotor reading card / standard HH-12K-A-4 / 1 Op 5500102B-10 Capillary sealing plate / standard HH-12K-A-4 / 1 Op	5500102B-7	Conversion adapter 0.2ml × 12pcs / standard HH-12K-A-1	Optional
5500102B-10 Capillary sealing plate / standard HH-12K-A-4 / 1 Op	5500102B-8	Conversion adapter 1.8 / 1.1ml × 4 / standard HH-12K-A-5	Optional
	5500102B-9	Hematocrit rotor reading card / standard HH-12K-A-4 / 1	Optional
5500102B-11 40mm long capillary tube/ 100 pcs/bucket (red/blue lable for selection) Op-	5500102B-10	Capillary sealing plate / standard HH-12K-A-4 / 1	Optional
	5500102B-11	40mm long capillary tube/ 100 pcs/bucket (red/blue lable for selection)	Optional



**BIO-DL CORPORATION** 

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