

NEW

# DG1616

## High Speed Centrifuge

# DG1616R

## High Speed Refrigerated Centrifuge



## Features

- **Smart Touch Control, Easy Operation**

The newly upgraded touch UI interface makes operation simpler and more intuitive. No complex setup required—easy to use right out of the box, boosting lab efficiency!

- **Ultra-High Speed and RCF**

Maximum speed of 16,000 rpm and maximum RCF of 28,621 × g easily meet a wide range of separation needs, ensuring experimental precision.

- **Wide Temperature Control Range for Various Applications**

Temperature range from -20°C to 40°C ensures stable performance even in low-temperature environments, ideal for temperature-sensitive separation experiments.

- **Rapid Cooling for Optimized Results**

Quickly cools from room temperature to 4°C in as fast as 7 minutes, providing a more efficient experimental environment.

- **Quiet Operation for a Peaceful Lab**

Equipped with a brushless DC motor, noise levels are as low as 70 dB, reducing disturbance and creating a comfortable workspace.

- **Safety Features with Intelligent Detection**

Built-in dynamic balance detection with automatic rotor imbalance warning helps prevent equipment damage and operational errors, ensuring safe and reliable use.

- **Adjustable Acceleration and Deceleration Levels**

Nine selectable acceleration and deceleration levels to flexibly meet different experimental needs.

- **Smooth Deceleration with Soft Braking**

Minimizes sample disturbance and enhances separation performance, ensuring high-quality results.

- **Program Storage**

Supports storage of up to 100 user-defined programs for easy one-touch recall based on experimental needs.

- **Wide Range of Rotors and Adapters**

Multiple rotor and adapter options available to meet diverse lab requirements: supports centrifugation of 400 mL and 200 mL bottles; also compatible with 100 mL, 85 mL, 50 mL, 15 mL, 12 mL, 10 mL, 7 mL, 5 mL, 2 mL, and 1.5 mL tubes. Additionally supports centrifugation of 384-well PCR plates, 96-well microplates, and 8-strip PCR tubes.

# Application

- **Life Sciences and Biological Research:** Biochemical studies, immunology, and clinical medicine-related applications.
- **Pharmaceutical Industry:** Suitable for drug development, including CRO services.
- **Environmental Protection:** Environmental analysis, such as water quality testing and pollutant analysis.
- **Chemical Industry:** Separation and extraction of organic and inorganic chemical samples.
- **Food Industry:** Separation of fats, proteins, and other biochemical substances.
- **Soil Analysis:** Extraction and analysis of soil organic matter and nutrients.
- **Petroleum and Mining Industry:** Pretreatment of petroleum and mineral samples, including sediment separation.
- **Textile Industry:** Analysis and processing of textile fibers and blended materials.
- **Microbiology:** Microbial culture and preservation research.



Specifications	DG1616	DG1616R
Max. Speed	16000rpm (300-16000rpm) in 1 rpm increments.	16000rpm (300-16000rpm) in 1 rpm increments.
Max. RCF	28621×g,step:1×g	28621×g,step:1×g
Max. Capacity	4×400mL	4×400mL
Time Setting	30s-99h59min59s/ HOLD(continuous running)	30s-99h59min59s/ HOLD(continuous running)
Temperature Setting	-	-10°C-40°C
Speed up and down gears	9 ↑ /9 ↓	9 ↑ /9 ↓
Program storage	100	100
Motor Type	Brushless DC Motor	Brushless DC Motor
Noise Level	≤70dB	≤70dB
Power Supply	100-230V, 50/60HZ 650W	100-230V, 50/60HZ 1050W
Size (L × W × D)	658×440×375mm	658×623×375mm
Weight	70Kg	90Kg
Allow ambient temperature and humidity	5~40°C,80%RH	5~40°C,80%RH

Cat.No	<b>19400154</b>					
Rotor Model	<b>SR4-200</b>					
Rotor Image						
Max.speed	5500 rpm					
Max.RCF	5495 xg					
Centrifugal Radius	16.25cm					
Capacity	4x200mL	4x100mL	4x50mL	20x15mL	32x7mL	48x2mL
Adapter	-	100mL Adapter	50mL Adapter	15mL Adapter	5/7mL Adapter	2mL Adapter
Adapter Cat.No	-	19500050	19500051	19500052	19500053	19500054
Adapter Image	-					
Package	4 Hanging Cups, Lids, and Handles	2 Adapter				
Tube Capacity	180mL PP Polypropylene Centrifuge Tube	100mL round bottom Open-End Tube	50mL Conical Tube	50mL Conical Tube	5/7mL Blood Collection Tube	1.5/2mL Microcentrifuge Tube
Tube Specifications (Ø×L mm)	56.5×123	45×117	29.5×116	17×121	13×110	11×45
Tube Image						

Cat.No	<b>19400155</b>					
Rotor Model	<b>SR4-400</b>					
Rotor Image						
Max.speed	5000 rpm					
Max.RCF	4639 xg					
Centrifugal Radius	16.6cm					
Capacity	4x400mL	4x100mL	16x50mL	36×15mL	76x7mL	136x2mL
Adapter	-	100mL Adapter	50mL Adapter	15mL Adapter	5/7mL Adapter	2mL Adapter
Adapter Cat.No	-	19500045	19500046	19500047	19500048	19500049
Adapter Image	-					
Package	4 Hanging Cups, Lids, and Handles	2 Adapter				
Tube Capacity	400mL PP Polypropylene Centrifuge Tube	100mL round bottom Open-End Tube	50mL Conical Tube	50mL Conical Tube	5/7mL Blood Collection Tube	1.5/2mL Microcentrifuge Tube
Tube Specifications (Ø×L mm)	80×125	45×117	29.5×116	17×121	13×110	11×45
Tube Image						

**SE4-100**  
(Standard accessory)

**Cat. No.19400041**

**for DG1616&DG1616R**

Max. speed: 4000rpm

Max. RCF: 2950×g

Rotor material: stainless steel body  
and adapter



Cat.No.	 19400045		 19400044			 19400043		 19400042				
bucket	x 4		x 4			x 4		x 4				
tube	x 36		x 16			x 8		x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7mL		10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL	
Ø×L mm	13x75	13x100	16x100	17x105	17x120	29.5x100	38x108	38x104	29.5x100	17x120 13x100 13x75	13x100 13x75	
tube												
adapter	with plug		-	-	A15V	A50V	-	 A100P80  A100P50/80  A50V		A100P15	A100P10	
Package	36	-	-	16		8	-	4	4	4	4	
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20	
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.1	14.7	
Max RCF (g-force)	2500	2950	2840	2840	2840	2840	2840	2840	2840	2700	2630	

Cat.No	19400034	19400035	19400036	19400037
Rotor Model	<b>AS30-2</b>	<b>AS18-5V</b> (cone bottom)	<b>AS12-PCR8</b>	<b>AS60-2</b>
Rotor Image				
Max.speed	16000rpm	15000rpm	14000rpm	14000rpm
Max.RCF	28620xg	25155xg	21912xg	21912xg
Centrifugal Radius	10cm	10cm	10cm	10cm
Capacity	30x2mL	18x5mL(cone bottom)	12xPCR 8-Tube Strip	60x2mL
Rotor Material	Aluminum	Stainless Steel Body, Aluminum Head	Aluminum	Aluminum
Biological Seal	Yes	Yes	Yes	Yes
Cat.No	19400038	19400039	19400040	19400062
Rotor Model	<b>AS6-50V</b> (cone bottom)	<b>A8-50</b> (cone bottom)	<b>A30-15</b> (cone bottom)	<b>S2-MP</b>
Rotor Image				
Max.speed	12500rpm	5000rpm	4500rpm	4000rpm
Max.RCF	17468xg	3968xg	3210xg	2200xg
Centrifugal Radius	10cm	14.2cm	14.18cm	12.3cm
Capacity	6x15mL or 6x50mL	16x15mL or 8x50mL	30x15mL	8×384 microplates/96 microplates/Elisa plate; 4×Deep well plates
Rotor Material	Aluminum	Aluminum Body, Stainless Steel Adapter (With Adapter SE100P31x8,SE100P17x16)	Aluminum Body, Stainless Steel Adapter (With AdapterSE100P17x30)	Stainless Steel Body, Aluminum Head
Biological Seal	Yes	/	/	/

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