

SUPER SPEED (HIGH-SPEED) CENTRIFUGES

Supra R12
High-speed, Refrigerated Centrifuge

For high-volume cell harvesting or precipitation

FIXED ANGLE ROTOR
12,000 rpm / 22,265 xg
6 x 1,000 mL



Supra R17
High-speed, Refrigerated Centrifuge

Economical product capable of high-speed separation from micro tube to 6 x 250 mL

FIXED ANGLE ROTOR
17,000 rpm / 31,050 xg
6 x 250 mL
8 x 50 mL
12 x c15 mL
36 x 2.0 mL



Supra R22
High-speed, Refrigerated Centrifuge

Centrifugation of various types of samples up to 4 x 1,000 mL

FIXED ANGLE ROTOR
22,000 rpm / 52,001 xg
4 x 1,000 mL
6 x 500 mL
8 x 50 mL
12 x c15 mL
36 x 2.0 mL



Supra R30
High-speed, Refrigerated Centrifuge

Approx.100,000 xg can be applied with 50 mL, 15 mL tube

FIXED ANGLE ROTOR
30,000 rpm / 99,513 xg
4 x 1,000 mL
6 x 500 mL
6 x 85 mL
8 x 50 mL
12 x c15 mL
36 x 2.0 mL



Ultra 5.0
Super-speed, Refrigerated Centrifuge

Capable of separating cell components at 250,000 xg with 8 x 38.5 mL

FIXED ANGLE ROTOR
50,000 rpm / 254,340 xg
6 x 250 mL
6 x 38.5 mL
8 x 50 mL
12 x 13.5 mL
24 x 2.0 mL



LARGE CAPACITY, REFRIGERATED CENTRIFUGES

Component wR
Medium-large Capacity Refrigerated Centrifuge

Quiet and stable with windshield

SWING-OUT ROTOR
4,500 rpm / 5,096 xg
6 x 750 mL
6 x 5 x c50 mL
6 x 14 x c15 mL
6 x 24 x 5 mL or VT
6 x MTP



Component R6
Large Capacity Refrigerated Centrifuge

6 blood bag separation suitable for mass culture separation

SWING-OUT ROTOR
5,000 rpm / 7,261 xg
6 x 1,000 mL
6 x blood bag



Component R12
Blood Bag Centrifuge

Up to 6 x 2 x blood bag
3 types of blood bag adapters available

SWING-OUT ROTOR
4,500 rpm / 6,491 xg
6 x 2 x blood bag



MTP Micro-Titer Plate / DWP Deep Well Plate / VT Vacuum Tube / c conical

CENTRIFUGE SELECTION GUIDE

CLINICAL CENTRIFUGES

CellSpin II
Cytological Centrifuge

For collecting tissue cells on pathology reading slides

Vertical-type CytoCell Rotor
3,000 rpm / 1,175 xg
12 slides x 0.6 mL



HematoSpin
Micro Hematocrit Centrifuge

Horizontal-type, Hematology Rotor
12,000 rpm / 15,536 xg
24 x 0.07 mL Hemato Capillary



SeroSpin
Immunoserologic Test and Blood Cross Matching Centrifuge

FIXED ANGLE ROTOR
3,400 rpm / 1,118 xg
12 x 5 mL (L 75 mm) Tubes



T04
Compact Table-top Centrifuge

Compact clinical centrifuge
Recommend for PRF application

FIXED ANGLE ROTOR
4,000 rpm / 2,075 xg
6 x c15 mL
12 x 10 mL or VT



Fleta 4
Multi-purpose Table-top Centrifuge

Optimal for conical 50 mL & 15 mL PRP buckets available

FIXED ANGLE ROTOR
4,000 rpm / 2,789 xg
10 x c50mL
24 x 15 mL

SWING-OUT ROTOR
4,000 rpm / 3,243 xg
4 x 85 mL
6 x c50 mL
6 x 2 x c15 mL



INDUSTRIAL CENTRIFUGES

HA400
Milk-fat Centrifuge

Diverse rotors and buckets for Gelber and Babcock type tubes

SWING-OUT ROTOR
1,700 rpm / 830 xg
6 x 2 x 100 mL Gelber Tube (Ø25 x L 163 mm)
4 x 2 x 100 mL Babcock Tube (Ø37 x L 133 mm)



J1250
Continuous Tubular Centrifuge

Tubular, 2-phase, continuous centrifuge system for sludge separation or harvesting of purified proteins and useful substances

Tubular-type Bowl Rotor
15,000 rpm / 15,800 xg
360 L / hr with 9L bowl

Main unit with balancing base, motor, bowl (optional water jacket for Bowl temperature control) / Controller with a display screen and a status indication lamp / Bowl trolley with tools and accessories / Sample-in pump and tubing



MTP Micro-Titer Plate / DWP Deep Well Plate / VT Vacuum Tube / c conical



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CENTRIFUGE SELECTION GUIDE

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MICRO CENTRIFUGES

Mini6 / Mini6-RC
Compact Quick Spinner

For simple spin-down
Cordless model (optional)

FIXED ANGLE ROTOR
6,500 rpm / 2,234 xg
6 x 2.0 mL
2 x 8-tube PCR strip



M13
Personal Microcentrifuge

Easy-to-use high-speed microcentrifuge

FIXED ANGLE ROTOR
13,500 rpm / 12,032 xg
6 x 5.0 mL
12 x 2.0 mL
4 x 8-tube PCR strip



M15
High-speed Air Ventilated Microcentrifuge

Compact and lightweight microcentrifuge

FIXED ANGLE ROTOR
15,000 rpm / 21,583 xg
10 x 5.0 mL
24 x 2.0 mL
4 x 8-tube PCR strip



M15R
High-speed Refrigerated Microcentrifuge

User-friendly, durable and reliable microcentrifuge

FIXED ANGLE ROTOR
15,000 rpm / 21,583 xg
10 x 5.0 mL
24 x 2.0 mL
4 x 8-tube PCR strip



MULTI-PURPOSE CENTRIFUGES

T04B
Multi-purpose Table-top Centrifuge

Compact but maximized in versatility from clinical to cell separation applications

FIXED ANGLE ROTOR
4,000 rpm / 2,773 xg
10 x c50 mL
24 x c15 mL

SWING-OUT ROTOR
4,000 rpm / 2,774 xg
4 x 100 mL
4 x 2 x c50 mL
4 x 8 x 10 mL or VT
2 x MTP / DWP



T05R
Multi-purpose Refrigerated Centrifuge

Adequate for routine work of temperature sensitive blood and cell separations

FIXED ANGLE ROTOR
5,000 rpm / 3,983 xg
10 x c50 mL
24 x c15 mL

SWING-OUT ROTOR
5,000 rpm / 4,218 xg
4 x 100 mL
4 x 2 x c50 mL
4 x 8 x 10 mL or VT
2 x MTP / DWP



Combi 508
Compact Benchtop, Multi-purpose Centrifuge

Ideal for routine usage from 4 MTP to 4 x750 mL

FIXED ANGLE ROTOR
8,000 rpm / 8,279 xg
8 x 250 mL
12 x c15 mL
36 x 2.0 mL

SWING-OUT ROTOR
4,000 rpm / 4,392 xg
4 x 750 mL
4 x 5 x c50 mL
4 x 14 x c15 mL
4 x 24 x 5 mL or VT
4 x MTP / DWP



Combi R515
High-speed, Multi-purpose Refrigerated Centrifuge

Real multi-purpose centrifuge for using both fixed angle and swing-out rotors

FIXED ANGLE ROTOR
15,000 rpm / 25,353 xg
6 x 250 mL
8 x 50 mL
12 x c15 mL
36 x 2.0 mL

SWING-OUT ROTOR
4,500 rpm / 4,392 xg
4 x 750 mL
4 x 5 x c50 mL
4 x 14 x c15 mL
4 x 24 x 5 mL or VT
4 x MTP / DWP



MTP Micro-Titer Plate / DWP Deep Well Plate / VT Vacuum Tube / c conical

60 YEARS OF QUALITY AND TRUST

Hanil Scientific was established in 1958 and manufactured the first centrifuge in Korea, and also launched the first refrigerated micro centrifuge and ultra centrifuge in Korea. Hanil Scientific strives to produce top-quality products with intuitive controls to provide the best laboratory systems for your setting and will continue to take on challenges with the value of quality and innovation.

PREMIUM QUALITY

- ✓ Unique motor drive system optimized in each rotation space
- ✓ Dual ramp deceleration profile for keeping centrifuged samples at the best result
- ✓ Vacuum and sealing techniques to minimize air friction at super speed rotation
- ✓ Unique air flow structure for effective noise reduction and excellent cooling
- ✓ Accredited with ISO9001, ISO13485, and KGMP



Watch Rotor Clip

SUPERIOR SAFETY

- ✓ Detection or alarm to sense imbalance, lid open, overspeed, low speed or over-heating
- ✓ Lid drop protected construction and fine control of lid opening
- ✓ Automatic interlock system to prevent rotor's spinning when lid is open
- ✓ Automated rotor recognition system for the protection of over speed and improper operation
- ✓ User friendly emergency opening when black-out happens to retrieve sample safely

GREATEST CONVENIENCE

- ✓ Single action of rotor coupling and decoupling only by rotor lid closure or opening (no need of any tool) for Fixed Angle Rotors (Except Micro rotor)
- ✓ New "Easy-Lock" Micro rotor allows fast and convenient closure of or opening of rotor lid
- ✓ Ergonomically arranged control key buttons and display
- ✓ Intuitive control panel and easy to read comprehensive displays with LED lights
- ✓ Automated rotor recognition scheme with automatic g-force calculation and display

FIXED ANGLE ROTOR SELECTION GUIDE

Micro Centrifuges	Rotor Shape									
	Cat. No.		A0.2-16	A0.2-32	AEB*-0.2-32	A2.0-6	A2.0-12	AEB*-2.0-24	A5.0-6	AE-5.0c-10
	Max. Capacity		16 x 0.2 mL	32 x 0.2 mL	32 x 0.2 mL	6 x 1.5 / 2.0 mL	12 x 1.5 / 2.0 mL	24 x 1.5 / 2.0 mL	6 x 5.0 mL	10 x 5.0 mL conical
	Hole dimension (Ø x L, mm)		6.5 x 3	6.5 x 15	6.5 x 16	11.1 x 3	11.1 x 38	16.8 x 29	6 x 5.0 mL	17 x 53
	Radius* (mm)		23.9	inner line: 44.06 outer line: 55.68	56.4	47.3	59	84.3	65	85.8
	Max. height for tube fit (mm)		15	-	25	39	48	52	60	68
Mini6	Max. RPM Max. RCF		6,500 1,412 xg	-	-	6,500 2,234 xg	-	-	-	-
			-	6,000 inner line: 1,773 xg outer line: 2,241 xg	-	-	13,500 12,032 xg	-	6,000 2,612 xg	-
			-	-	12,500 9,852 xg	-	-	15,000 21,206 xg	-	15,000 21,583 xg

*Bio-Safe Rotor

Multi-Purpose Centrifuges	Rotor Shape				
	Cat. No.		AO/A*-15-24	AO/A*-50c-10	AO/A*-50-10
	Max. Capacity		24 x 15 mL	10 x 50 mL Conical	10 x 50 mL
	Hole dimension (Ø x L, mm)		20.4 x 10	32.2 x 13.5	32.2 x 13.5
	Radius* (mm)		155	140	142.5
	Max. height for tube fit (mm)		125	130	130
T04B	Max. RPM Max. RCF		4,000 2,773 xg	4,000 2,508 xg	4,000 2,549 xg
			4,500 3,509 xg	5,000 3,913 xg	5,000 3,983 xg

**AO is for T04B
A is for T05R

Multi-Purpose Centrifuges	Rotor Shape															
	Cat. No.		A0.2-48	A2.0-24	A2.0-36	A10-12	A15S-12	A15c-12	A50-6	A50c-6	A50-8	A85-6	A250-6	A500-6	A1000-4	A1000-6
	Max. Capacity		48 x 0.2 mL	24 x 1.5 / 2.0 mL	36 x 1.5 / 2.0 mL	12 x 10 mL	12 x 15 mL	12 x 15 mL conical	6 x 50 mL	6 x 50 mL conical	8 x 50 mL	6 x 85 mL	6 x 250 mL	6 x 500 mL	4 x 1,000 mL	6 x 1,000 mL
	Hole dimension (Ø x L, mm)		6.5 x 17	11 x 37.5	11 x 37.5	16.3 x 74.5	19 x 96	17.2 x 110	29.5 x 100	29.8 x 108.6	29.5 x 100	38.5 x 95	62 x 103	70 x 141	98 x 144	98 x 144
	Radius* (mm)		88.9	80.8	115.7	85.1	96.1	99.4	96.1	91	98.9	97.6	138.3	158.7	169.9	200.1
	Max. height for tube fit (mm)		-	46	49	85.5	109.5	123.2	122.7	118.1	110.7	115.4	132	168.5	184.8	176.5
Combi 508	Max. RPM Max. RCF		8,000 6,351 xg	8,000 5,781 xg	8,000 8,279 xg	8,000 6,089 xg	8,000 6,876 xg	8,000 7,112 xg	8,000 6,876 xg	8,000 6,511 xg	8,000 7,076 xg	8,000 6,983 xg	-	-	-	-
			12,500 15,530 xg	15,000 20,325 xg	14,000 25,353 xg	15,000 21,407 xg	15,000 24,174 xg	15,000 25,004 xg	15,000 24,174 xg	15,000 22,891 xg	15,000 24,878 xg	15,000 24,551 xg	8,000 9,896 xg	-	-	-
Super speed Centrifuge	Max. RPM Max. RCF		Supra R12	-	-	-	-	-	-	-	-	-	12,000 22,265 xg	10,000 17,743 xg	8,000 12,157 xg	7,000 10,962 xg
			Supra R17	-	-	15,000 29,104 xg	17,000 27,496 xg	17,000 31,050 xg	15,000 25,004 xg	15,000 22,891 xg	15,000 24,878 xg	15,000 24,551 xg	10,000 15,462 xg	-	-	-
			Supra R22	-	-	18,000 41,910 xg	22,000 46,049 xg	22,000 52,001 xg	17,000 32,116 xg	22,000 52,001 xg	20,000 44,228 xg	20,000 43,647 xg	12,000 22,265 xg	9,000 14,372 xg	8,000 12,157 xg	-
			Supra R30	-	-	20,000 51,741 xg	30,000 85,628 xg	30,000 96,696 xg	17,000 32,116 xg	17,000 29,402 xg	30,000 99,513 xg	25,000 68,198 xg	10,000 15,462 xg	8,000 11,355 xg	7,000 9,307 xg	-

Super speed Centrifuge	Rotor Shape									
	Cat. No.		A2.0U-24	A10U-12	A13.5U-8	A13.5U-12	A38.5U-6	A50U-8	A94U-6	A250U-6
	Max. Capacity		24 x 1.5 / 2.0 mL	12 x 10 mL	8 x 13.5 mL	12 x 13.5 mL	6 x 38.5 mL	8 x 50 mL	6 x 94 mL	6 x 250 mL
	Hole dimension (Ø x L, mm)		11 x 37.5	16.3 x 70	16.3 x 83	16.3 x 83	25.6 x 92	29 x 100.5	38.5 x 105	60 x 101
	Radius* (mm)		82	80.3	73	87	91	98	99.4	129
	Max. height for tube fit (mm)		47.1	71.5	84.4	83.4	98.9	107.3	110.7	126.9
Ultra 5.0	Max. RPM Max. RCF		40,000 146,680 xg	45,000 181,795 xg	50,000 204,035 xg	50,000 243,160 xg	50,000 254,340 xg	30,000 98,784 xg	35,000 136,377 xg	20,000 57,792 xg

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*Radius is the distance from the center of the rotor to the inner end of tube carrier in mm.



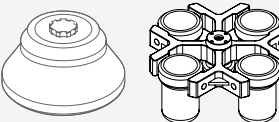
Easy-lock Micro Rotor

One step twist locking for easy sample loading and unloading (Microcentrifuge only)



Bio-safe Rotors and Buckets

Buckets allow to handle any sample in safety



Finely Tuned Accessories

Finely fabricated motors, rotors, buckets, and accessories by Korean craftsmanship



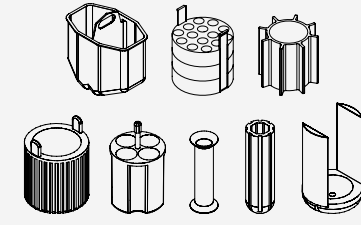
Single Action of Rotor Coupling

Direct fastening of fixed angle rotor to motor shaft



Self-lock Rotor Coupling

Convenient self-lock rotor coupling, triggered by centrifugal force (Ultra 5.0 only)



Various Adaptors and Tube Racks

MTP Micro-Titer Plate / DWP Deep Well Plate / VT Vacuum Tube / c conical

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SWING-OUT ROTOR SELECTION GUIDE

*Radius is the distance from the center of the rotor to the inner end of tube carrier in mm.

Multi-purpose Centrifuge	Rotor Shape												
	Cat. No.		S0/S*-15-6		S0/S*-50-4				S0/S*-100-4		S0/S*-mw-2		
	Bucket Cat.No.												
			Bd15-15	B50-50	B50c-50	Bd15c-50	BB*100b-100	Bd50c-100	BB*d15cb-100	B15-8-100	P-mw		
	Max. Capacity		6 x 2 x 15 mL		4 x 50 mL		4 x 50 mL conical 4 x 2 x 15 mL conical		4 x 100 mL		4 x 2 x 50 mL conical 4 x 2 x 15 mL conical 4 x 8 x 10 mL / VT		2 MTPs / DMFs
	Hole dimension (Ø x L,mm)		17 x 88		30.5 x 91		29.5 x 91.5 17 x 91.5		47 x 99		30 x 89 17 x 97.5		17 x 86 86.5 x 128.5
	Radius* (mm)		153		150.9		150.9		155.1		155.1		152 60
	Max. height for tube fit (mm)		122		125		125 120		130 (w/o cap) 120 (w/ cap)		125 125 (w/o cap) 120 (w/ cap)		115 111.8
	T04B		4,000 2,737 xg		4,000 2,700 xg		4,000 2,700 xg 4,000 2,700 xg		4,000 2,774 xg 4,000 2,774 xg		4,000 2,774 xg 4,000 2,719 xg		4,000 2,000 xg
	T05R		4,400 3,312 xg		5,000 4,218 xg		5,000 4,218 xg 5,000 4,218 xg		4,500 3,511 xg 4,500 3,511 xg		4,500 3,511 xg 4,500 3,441 xg		

*Bio-Safe Bucket **SO is for T04B
S is for T05R

Tube Racks

For 500 mL Bucket For 750 mL Bucket

1 x 500 mL	1 x c500 mL
1 x 250 mL	1 x 500 mL
1 x 100 mL	1 x 250 mL
3 x c50 mL	1 x c225 mL
4 x 50 mL	5 x c50 mL
7 x c15 mL	7 x 50 mL
9 x 15 mL	14 x c15 mL
9 x 10 mL	19 x 15 mL
9 x 5 mL	21 x 10 mL
	24 x 5 mL

Large Capacity Centrifuges	Rotor Shape				
	Cat. No.		WS750-6	WS1000-6	WS2400-6
	Bucket Cat. No.		B750 / B750S	B1000 / B1000S	B2400
	Max. Capacity		6 x 750 mL	6 x 1,000 mL	6 x 2 x 500 mL Blood bag
	Radius* (mm)		225	191.9	286.7
	Max. height for tube fit (mm)		157.5 (w/o cap) 128 (w/ cap)	60	188.5 (w/o cap) 169 (w/ cap)
Component wR	Max. RPM Max. RCF		4,500 5,096 xg	4,500 4,345 xg	-
			-	5,000 7,261 xg	-
Component R6	Max. RPM Max. RCF		-	-	4,500 6,491 xg
			-	-	-

MTP Micro-Titer Plate / DWP Deep Well Plate / VT Vacuum Tube / c conical

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