Silence Safety Speed

Ergonomically designed model of High Speed Centrifuge.

Supra 22K

TEMP	22,000	53,029	1,000ml X 4
-10 °C to +40 °C	MAX. RPM	MAX. RCF	MAX. CAP

Features

- One chip microprocessor control
- Customized key pad (Easy operation and correction)
- Memory for saving experiment condition
- RPM/RCF auto calculating
- Changing term of timer during operation
- 10 steps for acceleration and deceleration for delicate liquid experiment
- Spin-down
- Maximum Fixed Angle Rotor 1,000ml x 4
- Patented compressor technology reduces vibrations and protects your sample
- PWM (pulse width modulation) motor control has realized
- AC Induction drive technology provides you with fast separations
- Shorter run times mean more discovery for you. Supra22K high torque switched reluctance drive gives you more time at speed and less time getting there

A500S-6

A250S-6

A85S-6

A50S-8

A15S-12

A1.5S-24

Worried about heavy rotor connecting?

Ergonomically arranged and designed machine, Supra 22K maximizes user's convenience with easy connecting.

Easy to Keypad

Easy to use Control panel for everyone.

High Torque Drive System

Great presenting by powerful AC Induction motor.

Emergency System

Switching door open system preventing damage of sample when power off.

Rotor Identification System

Automatically identifying rotor for user's convenience.

Description	Specification	Remarks
RPM	22,000rpm	
RCF	53,029 xg	
Max. capacity	1,000ml x 4	
Time	99hrs 59min 59sec	
Display	RPM, RCF, Time, Temperature, Program, Temp.Limit, Accel/Decel, Rotor Number,Rotor Radius	
Accel/Decel	10 step	
Temperature	-10 °C ~ 40 °C	
Motor	AC Induction Motor	
Power supply	220V, 60Hz, single phase	
Dimension	668W x 801D x 891H/mm	
Weight, Kg	230Kg	

* Please note that technical specifications subject to change.

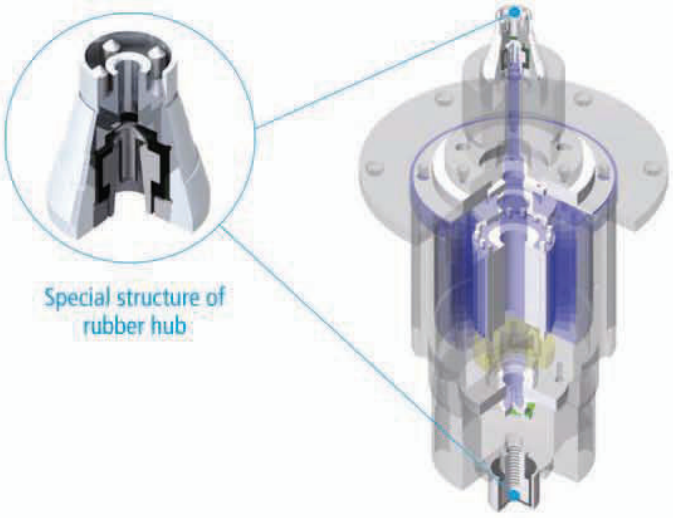
Supra 22K

Control Display

- Customized Key Pad (Easy-to-use operation and correction)
- 10 steps for acceleration and deceleration can be selected for delicate liquid experiment
- Automatic RPM/RCF calculating system
- Changing term of timer during operation
- Time set up, max. 99 hours 59 minutes 59secs
- Radius of rotor set up by unit of 0.1mm
- Memory for saving experiment condition [100 memories]

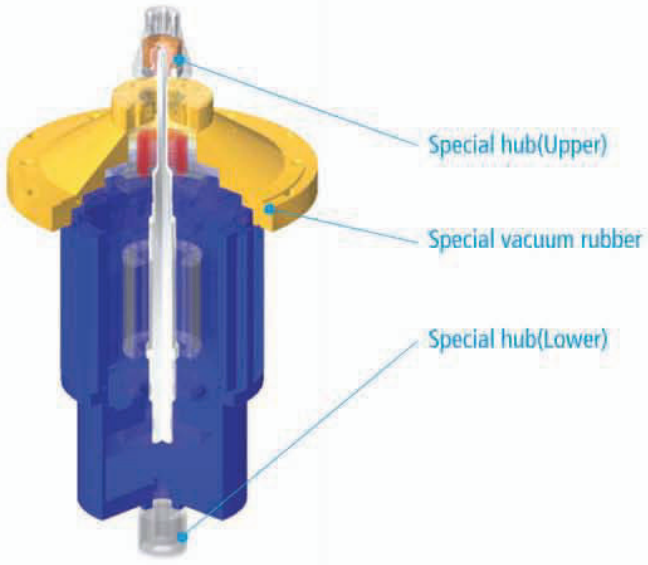
Ultra 4.0 / 5.0
Supra 25 / 30K

Supra, Continent 512R, Combi, Mega Series



- Double layered vibration absorbing system of shock proof under patent
- Superior durability of bearings
- Easy balancing work
- Excellent durability and convenience

Supra 25 / 30K



- Double layered vibration absorbing system of shock proof under patent
- Superior durability of bearings
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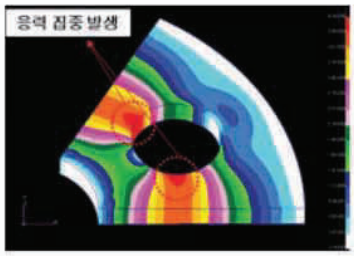
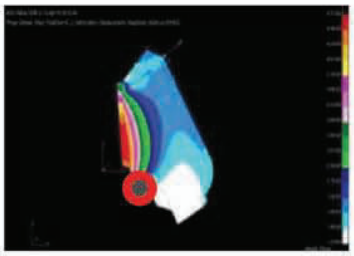
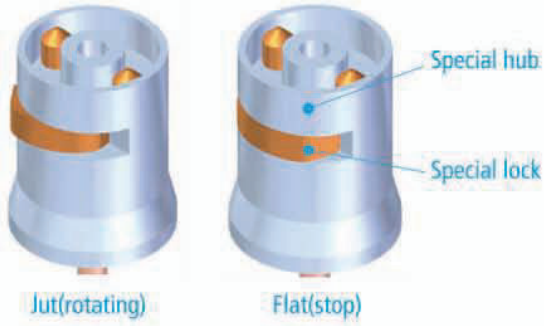
- Excellent durability and convenience

Ultra 4.0 / 5.0



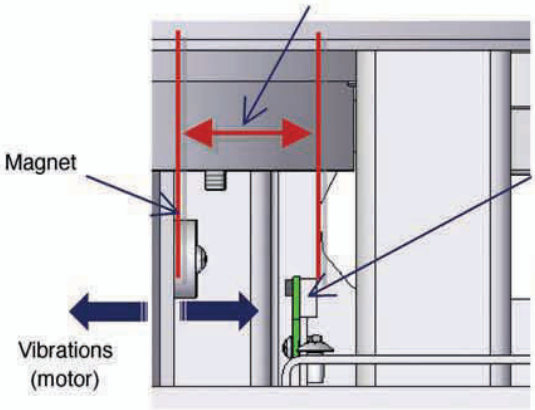


- Analyzing the phase of the ultra high speed rotor
- Principle
  - Rotation of body generates centrifugical force
  - Value of centrifugical force is proportioned to density X radius X rpm square
- Design is for the safety of operator performing the ultra high speed rotation



- Rotor with easy loading and unloading
- Compensation function of rotor with the special structure under patent

Supra, Continent 512R, Combi Series



Imbalance hall sensor

- Recognition of motor imbalance to stop working. Based on theory that resistance can be different by proximity of magnet and hall sensor resistance

Angle Rotors (High Speed Centrifuge)

A1.5S-36 No.14

Type	Angle Rotor ∠45°C
Max. RPM	20,000 rpm
Max. RC	52,546 xg
Radius	115.7 mm

Tube Capa.	0.2ml	0.5ml	1.5ml	2.0ml
DIM. Ø x L mm	6 x 18	8 x 30	11 x 38	11 x 38
Tube Type				
Adapter				
Tube per Rotor	36			
Max.RCF	42,573	46,643	52,546	
radius (mm)	95.2	104.3	115.7	
boring Ø x L mm	6 x 21	8 x 37	11 x 37.5	
Cat.NO.				

Mega 17R
Max. RPM : 15,000
Max. RCF : 29,104 xg
Supra 22K
Max. RPM : 18,000
Max. RCF : 41,910 xg
Supra 25K
Max. RPM : 20,000
Max. RCF : 51,741xg
Supra 30K
Max. RPM : 20,000
Max. RCF : 51,741 xg

A10S-12 No.2

Type	Angle Rotor ∠36°C
Max. RPM	30,000 rpm
Max. RC	85,628 xg
Radius	85.1 mm

Tube Capa.	10ml
DIM. Ø x L mm	16 x 82
Tube Type	
Adapter	
Tube per Rotor	12
Max.RCF	85,628
radius (mm)	85.1
boring Ø x L mm	16.3 x 74.5
Cat.NO.	

Mega 17R
Max. RPM : 17,000
Max. RCF : 27,496 xg
Supra 22K
Max. RPM : 22,000
Max. RCF : 46,049 xg
Supra 25K
Max. RPM : 25,000
Max. RCF : 59,464 xg
Supra 30K
Max. RPM : 30,000
Max. RCF : 85,628 xg

A15S-12C No.8

Type	Angle Rotor ∠25°C
Max. RPM	17,000 rpm
Max. RC	32,116 x g
Radius	99.4 mm

Tube Capa.	15ml
DIM. Ø x L mm	17 x 120
Tube Type	
Adapter	
Tube per Rotor	12
Max.RCF	32,116
radius (mm)	99.4
boring Ø x L mm	17 x 115
Cat.NO.	

Mega 17R
Max. RPM : 15,000
Max. RCF : 25,004 xg
Supra 22K
Max. RPM : 17,000
Max. RCF : 32,116 xg
Supra 25K
Max. RPM : 17,000
Max. RCF : 32,116 xg
Supra 30K
Max. RPM : 17,000
Max. RCF : 32,116 xg

A15S-12 No.4

Type	Angle Rotor ∠25°C
Max. RPM	30,000 rpm
Max. RC	96,696 xg
Radius	96.1 mm

Tube Capa.	15(16)ml
DIM. Ø x L mm	18 x 100
Tube Type	
Adapter	
Tube per Rotor	12
Max.RCF	96,696
radius (mm)	96.1
boring Ø x L mm	19 x 96
Cat.NO.	

Mega 17R
Max. RPM : 17,000
Max. RCF : 31,050 xg
Supra 22K
Max. RPM : 22,000
Max. RCF : 52,001 xg
Supra 25K
Max. RPM : 25,000
Max. RCF : 67,150 xg
Supra 30K
Max. RPM : 30,000
Max. RCF : 96,696 xg

A50S-6C No.6

Type	Angle Rotor ∠40°C
Max. RPM	17,000 rpm
Max. RC	29,402 xg
Radius	91 mm

Tube Capa.	50ml
DIM. Ø x L mm	29 x 115
Tube Type	
Adapter	
Tube per Rotor	6
Max.RCF	29,402
radius (mm)	91.0
boring Ø x L mm	29.5 x 108.6
Cat.NO.	

Mega 17R
Max. RPM : 15,000
Max. RCF : 22,891 xg
Supra 22K
Max. RPM : 17,000
Max. RCF : 29,402 xg
Supra 25K
Max. RPM : 17,000
Max. RCF : 29,402 xg
Supra 30K
Max. RPM : 17,000
Max. RCF : 29,402 xg

Angle Rotors (High Speed Centrifuge)

A50S-6 No.5

Type	Angle Rotor ∠30°C
Max. RPM	30,000 rpm
Max. RC	96,696 xg
Radius	96.1 mm

Tube Capa.	15(16)ml	50ml	50ml
DIM. Ø x L mm	18 x 100	28.7 x 104	28.8 x 107
Tube Type			
Adapter			
Tube per Rotor	6		
Max.RCF	90,558	96,696	
radius (mm)	90.0	96	
boring Ø x L mm	18.5 x 92	29 x 100	
Cat.NO.			

Mega 17R
Max. RPM : 17,000
Max. RCF : 31,050 xg

Supra 22K
Max. RPM : 22,000
Max. RCF : 52,001 xg

Supra 25K
Max. RPM : 25,000
Max. RCF : 67,150 xg

Supra 30K
Max. RPM : 30,000
Max. RCF : 96,696 xg

A50S-8 No.7

Type	Angle Rotor ∠36°C
Max. RPM	30,000 rpm
Max. RC	99,513 xg
Radius	98.9 mm

Tube Capa.	15(16)ml	50ml	50ml
DIM. Ø x L mm	18 x 100	28.7 x 104	28.8 x 107
Tube Type			
Adapter			
Tube per Rotor	8		
Max.RCF	93,375	99,513	
radius (mm)	92.8	98.9	
boring Ø x L mm	18.5 x 92	29 x 100	
Cat.NO.			

Mega 17R
Max. RPM : 15,000
Max. RCF : 24,878 xg

Supra 22K
Max. RPM : 22,000
Max. RCF : 53,516 xg

Supra 25K
Max. RPM : 25,000
Max. RCF : 69,106 xg

Supra 30K
Max. RPM : 30,000
Max. RCF : 99,513 xg

A85S-6 No.9

Type	Angle Rotor ∠25°C
Max. RPM	25,000 rpm
Max. RC	64,425 xg
Radius	92.2 mm

Tube Capa.	85ml
DIM. Ø x L mm	38.2 x 105.7
Tube Type	
Adapter	
Tube per Rotor	6
Max.RCF	64,425
radius (mm)	92.2
boring Ø x L mm	38.5 x 90
Cat.NO.	

Mega 17R
Max. RPM : 15,000
Max. RCF : 23,193 xg

Supra 22K
Max. RPM : 20,000
Max. RCF : 41,232 xg

Supra 25K
Max. RPM : 25,000
Max. RCF : 64,425 xg

Supra 30K
Max. RPM : 25,000
Max. RCF : 64,425 xg

A250S-6 No.10

Type	Angle Rotor ∠25°C
Max. RPM	14,000 rpm
Max. RC	30,305 xg
Radius	138.3mm

Tube Capa.	250ml	250ml
DIM. Ø x L mm	61.8 x 127.7	61 x 134
Tube Type		
Adapter		
Tube per Rotor	6	
Max.RCF	30,305	
radius (mm)	138.3	
boring Ø x L mm	62 x 103	
Cat.NO.		

Supra 22K
Max. RPM : 12,000
Max. RCF : 22,265 xg

Supra 25K
Max. RPM : 14,000
Max. RCF : 30,305 xg

Supra 30K
Max. RPM : 14,000
Max. RCF : 30,305 xg

Angle Rotors (High Speed Centrifuge)

S250S-4 No.10

		Tube Capa.	250ml	250ml			
		DIM. Øx Lmm	61.8x127.7	61x134			
		Tube Type					
		Adapter					
		Tube per Rotor	4				
Type	Swing Rotor ∠90°	Max.RCF	30,305				
Max. RPM	6,000 rpm	Radius (mm)	140.4				
Max. RCF	5,796 xg	boring ØxLmm	62x103				
Radius	140.4mm	Cat.NO.					

Supra 22K
Max. RPM : 6,000
Max. RCF : 5,796 xg

Supra 25K
Max. RPM : 6,000
Max. RCF : 5,796 xg

Supra 30K
Max. RPM : 6,000
Max. RCF : 5,796 xg

A500S-6 No.11

		Tube Capa.	500ml				
		DIM. Ø x L mm	69.5 x 170				
		Tube Type					
		Adapter					
		Tube per Rotor	6				
Type	Angle Rotor ∠25°C	Max.RCF	17,743				
Max. RPM	10,000 rpm	radius (mm)	158.7				
Max. RC	17,743 xg	boring Ø x L mm	70 x 141				
Radius	158.7 mm	Cat.NO.					

Supra 22K
Max.RPM : 9,000
Max.RCF : 14,372 xg

Supra 25K
Max.RPM : 10,000
Max.RCF : 17,743 xg

Supra 30K
Max.RPM : 10,000
Max.RCF : 17,743 xg

A1000S-4 No.12

		Tube Capa.	1000ml				
		DIM. Ø x L mm	96 x 176				
		Tube Type					
		Adapter					
		Tube per Rotor	4				
Type	Angle Rotor ∠25°C	Max.RCF	12,157				
Max. RPM	8,000 rpm	radius (mm)	169.9				
Max. RC	12,157 xg	boring Ø x L mm	97 x 144				
Radius	169.9 mm	Cat.NO.					

Supra 22K
Max.RPM : 8,000
Max.RCF : 12,157 xg

Supra 25K
Max.RPM : 8,000
Max.RCF : 12,157 xg

Supra 30K
Max.RPM : 8,000
Max.RCF : 12,157 xg

Angle Rotors (Ultra High Speed Centrifuge)

A1.5U-24 No.3

Type	Angle Rotor ∠40°C
Max. RPM	40,000 rpm
Max. RC	145,966 xg
Radius	81.6 mm

Tube Capa.	1.5ml	2.0ml
DIM. Ø x L mm	11 x 38	11 x 38
Tube Type		
Adapter		
Tube per Rotor	24	
Max.RCF	145,966	
radius (mm)	81.6	
boring Ø x L mm	11 x 37.5	11 x 37.5
Cat.NO.		

Ultra 4.0
Max. RPM : 30,000
Max. RCF : 82,106 xg

Ultra 5.0
Max. RPM : 40,000
Max. RCF : 145,966 xg

A10U-12 No.4

Type	Angle Rotor ∠26°C
Max. RPM	45,000 rpm
Max. RC	181,795 xg
Radius	80.3 mm

Tube Capa.	10ml
DIM. Ø x L mm	16 x 67
Tube Type	
Adapter	
Tube per Rotor	12
Max.RCF	181,795
radius (mm)	80.3
boring Ø x L mm	16.5 x 70
Cat.NO.	

Ultra 4.0
Max. RPM : 35,000
Max. RCF : 109,975 xg

Ultra 5.0
Max. RPM : 45,000
Max. RCF : 181,795 xg

A13.5U-8 No.5

Type	Angle Rotor ∠26°C
Max. RPM	50,000 rpm
Max. RC	203,197 xg
Radius	72.7 mm

Tube Capa.	13.5ml
DIM. Ø x L mm	16.2 x 78
Tube Type	
Adapter	
Tube per Rotor	8
Max.RCF	203,197
radius (mm)	72.7
boring Ø x L mm	16.5 x 83.5
Cat.NO.	

Ultra 4.0
Max. RPM : 40,000
Max. RCF : 130,046 xg

Ultra 5.0
Max. RPM : 50,000
Max. RCF : 203,197 xg

A13.5U-12 No.1

Type	Angle Rotor ∠26°C
Max. RPM	50,000 rpm
Max. RC	242,886 xg
Radius	86.9 mm

Tube Capa.	13.5ml
DIM. Ø x L mm	16.2 x 78
Tube Type	
Adapter	
Tube per Rotor	12
Max.RCF	242,886
radius (mm)	86.9
boring Ø x L mm	16.5 x 82.5
Cat.NO.	

Ultra 4.0
Max. RPM : 40,000
Max. RCF : 155,447 xg

Ultra 5.0
Max. RPM : 50,000
Max. RCF : 242,886 xg

A38.5U-6 No.9

Type	Angle Rotor ∠29°C
Max. RPM	50,000 rpm
Max. RC	252,389 xg
Radius	90.3 mm

Tube Capa.	38.5ml
DIM. Ø x L mm	25 x 89
Tube Type	
Adapter	
Tube per Rotor	6
Max.RCF	252,389
radius (mm)	90.3
boring Ø x L mm	25.7 x 92.3
Cat.NO.	

Ultra 4.0
Max. RPM : 40,000
Max. RCF : 161,529 xg

Ultra 5.0
Max. RPM : 50,000
Max. RCF : 252,389 xg

Angle Rotors (Ultra High Speed Centrifuge)

A38.5U-8 No.2

Type	Angle Rotor ∠30°C
Max. RPM	45,000 rpm
Max. RC	221,867 xg
Radius	98 mm

Tube Capa.	38.5ml
DIM. Ø x L mm	25 x 89
Tube Type	
Adapter	
Tube per Rotor	8
Max.RCF	221,867
radius (mm)	98.0
boring Ø x L mm	25.8 x 92.3
Cat.NO.	

Ultra 4.0
Max. RPM : 40,000
Max. RCF : 175,302 xg

Ultra 5.0
Max. RPM : 50,000
Max. RCF 221,867 xg

A50U-8 No.6

Type	Angle Rotor ∠30°C
Max. RPM	40,000 rpm
Max. RC	177,628 xg
Radius	99.3 mm

Tube Capa.	50ml
DIM. Ø x L mm	28.8 x 107
Tube Type	
Adapter	
Tube per Rotor	8
Max.RCF	177,628
radius (mm)	99.3
boring Ø x L mm	29 x 100.5
Cat.NO.	

Ultra 4.0
Max. RPM : 30,000
Max. RCF : 99,916 xg

Ultra 5.0
Max. RPM : 40,000
Max. RCF : 177,628 xg

A94U-6 No.7

Type	Angle Rotor ∠25°C
Max. RPM	40,000 rpm
Max. RC	177,807 xg
Radius	99.4 mm

Tube Capa.	94ml
DIM. Ø x L mm	38 x 102
Tube Type	
Adapter	
Tube per Rotor	6
Max.RCF	177,807
radius (mm)	99.4
boring Ø x L mm	38 x 100
Cat.NO.	

Ultra 4.0
Max. RPM : 30,000
Max. RCF : 100,016 xg

Ultra 5.0
Max. RPM : 40,000
Max. RCF : 177,807 xg

A250U-6 No.8

Type	Angle Rotor ∠25°C
Max. RPM	25,000 rpm
Max. RC	90,139 xg
Radius	129 mm

Tube Capa.	250ml
DIM. Ø x L mm	60 x 125
Tube Type	
Adapter	
Tube per Rotor	6
Max.RCF	90,139
radius (mm)	129
boring Ø x L mm	60 x 101
Cat.NO.	

Ultra 4.0
Max. RPM : 19,000
Max. RCF : 52,064 xg

Ultra 5.0
Max. RPM : 25,000
Max. RCF : 90,139 xg