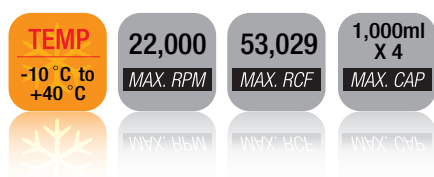


Silence Safety Speed

Ergonomically designed model of High Speed Centrifuge.

Supra 22K



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

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.



A500S-6



A250S-6



A85S-6



A50S-8



A15S-12

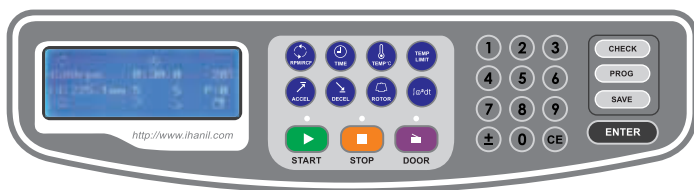


A1.5S-24

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



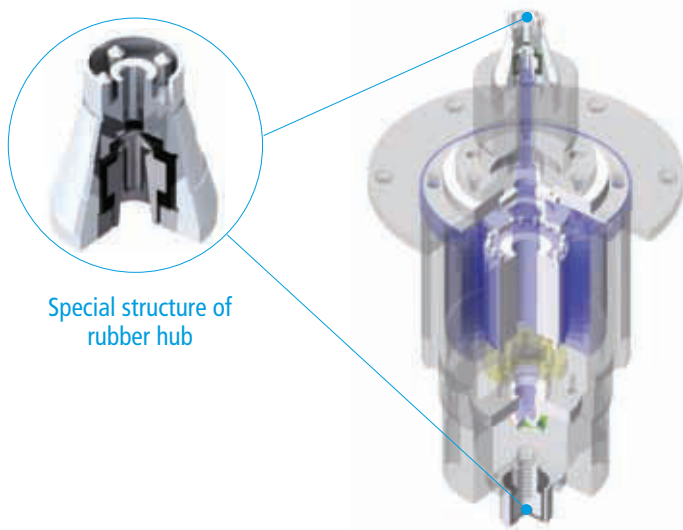
Control Display

- 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



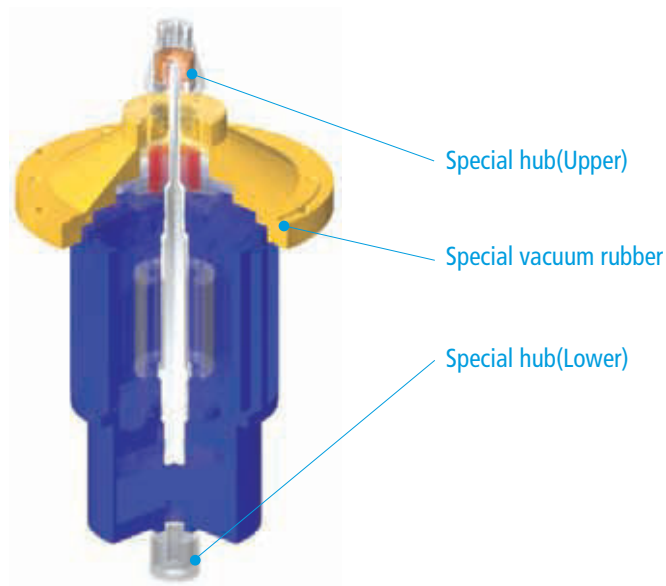
Supra, Continent 512R, Combi, Mega Series



Special structure of
rubber hub

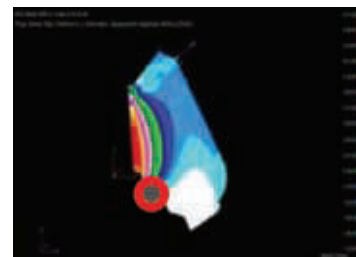
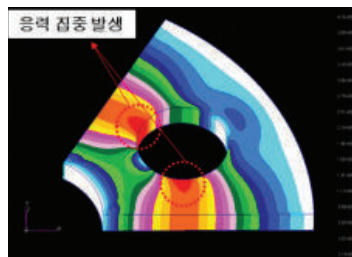
- Double layered vibration absorbing system of shock proof under patent
- Superior durability of bearings
- Easy balancing work
- Excellent durability and convenience

Supra 25 / 30K



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

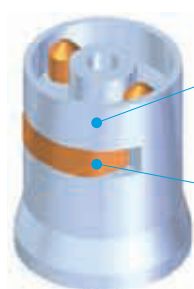
Ultra 4.0 / 5.0



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



Jut(rotating)



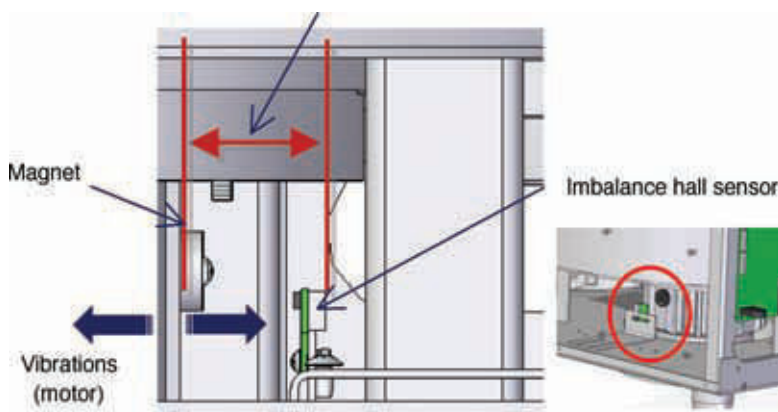
Flat(stop)

Special hub

Special lock

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

Supra, Continent 512R, Combi Series



- 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		Tube Capa.	0.2ml	0.5ml	1.5ml	2.0ml	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 : 51,741 xg Supra30K Max. RPM : 20,000 Max. RCF : 51,741 xg
		DIM. Ø x L mm	6 x 18	8 x 30	11 x 38	11 x 38	
		Tube Type					
		Adapter					
		Tube per Rotor	36				
Type	Angle Rotor ∠45°C	Max.RCF	42,573	46,643	52,546		
Max. RPM	20,000 rpm	radius (mm)	95.2	104.3	115.7		
Max. RC	52,546 xg	boring Ø x L mm	6 x 21	8 x 37	11 x 37.5		
Radius	115.7 mm	Cat.NO.					

A10S-12 No.2		Tube Capa.	10ml				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 Supra30K Max. RPM : 30,000 Max. RCF : 85,628 xg
		DIM. Ø x L mm	16 x 82				
		Tube Type					
		Adapter					
		Tube per Rotor	12				
Type	Angle Rotor ∠36°C	Max.RCF	85,628				
Max. RPM	30,000 rpm	radius (mm)	85.1				
Max. RC	85,628 xg	boring Ø x L mm	16.3 x 74.5				
Radius	85.1 mm	Cat.NO.					

A15S-12C No.8		Tube Capa.	15ml				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 Supra30K Max. RPM : 17,000 Max. RCF : 32,116 xg
		DIM. Ø x L mm	17 x 120				
		Tube Type					
		Adapter					
		Tube per Rotor	12				
Type	Angle Rotor ∠25°C	Max.RCF	32,116				
Max. RPM	17,000 rpm	radius (mm)	99.4				
Max. RC	32,116 x g	boring Ø x L mm	17 x 115				
Radius	99.4 mm	Cat.NO.					

A15S-12 No.4		Tube Capa.	15(16)ml				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 Supra30K Max. RPM : 30,000 Max. RCF : 96,696 xg
		DIM. Ø x L mm	18 x 100				
		Tube Type					
		Adapter					
		Tube per Rotor	12				
Type	Angle Rotor ∠25°C	Max.RCF	96,696				
Max. RPM	30,000 rpm	radius (mm)	96.1				
Max. RC	96,696 xg	boring Ø x L mm	19 x 96				
Radius	96.1 mm	Cat.NO.					

A50S-6C No.6		Tube Capa.	50ml				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 Supra30K Max. RPM : 17,000 Max. RCF : 29,402 xg
		DIM. Ø x L mm	29 x 115				
		Tube Type					
		Adapter					
		Tube per Rotor	6				
Type	Angle Rotor ∠40°C	Max.RCF	29,402				
Max. RPM	17,000 rpm	radius (mm)	91.0				
Max. RC	29,402 xg	boring Ø x L mm	29.5 x 108.6				
Radius	91 mm	Cat.NO.					

Ultra / High Speed Centrifuge

HANIL SCIENCE INDUSTRIAL

Angle Rotors (High Speed Centrifuge)

A1000S-4 No.12		Tube Capa.	1000ml				Supra 22K Max. RPM : 8,000 Max. RCF : 12,157 xg Supra 25K Max. RPM : 8,000 Max. RCF : 12,157 xg Supra30K Max. RPM : 8,000 Max. RCF : 12,157 xg
		DIM. Ø x L mm	96 x 176				
		Tube Type					
		Adapter					
		Tube per Rotor	4				
		Max.RCF	12,157				
Type	Angle Rotor ∠25°C	radius (mm)	169.9				
Max. RPM	8,000 rpm	boring Ø x L mm	97 x 144				
Max. RC	12,157 xg	Cat.NO.					
Radius	169.9 mm						