

Tabletop Centrifuges



CT6E

CE



CT6EL

CE

himac **CT** Hitachi Tabletop Centrifuge **SERIES**

CT6E/CT6EL

CT Series Tabletop Centrifuges

This tabletop centrifuges are suitable for routine work of centrifugation in the laboratories and the examination rooms. There are two models depending on your required volume of centrifugation at a time. Their stylish design carries simple operation with various functions and safety features harmonizing global standards as our priority. Wide selection of rotor and adaptor to be used with commercially available test tubes, micro plates and blood collection tubes are also offered.

User-friendly

- Easy-to-use operation panel
- 5 sets of running parameters are programmable.
- Audible alarm of end of running is selectable from 5 melodies, beep and mute.
- Acceleration and deceleration settings are optimally selectable according to samples.

Faster acceleration and deceleration than ever

himac original powerful and inverter controlled brushless motor has realized faster acceleration and deceleration than ever. Reduced acceleration and deceleration time makes process time shorter in single cycle of the routine work. For example, it takes only approx. 30 seconds to reach 3,000rpm by CT6E with T4SS rotor.

Compact

Low-height body allows rotor to be loaded/unloaded smoothly and speedily!

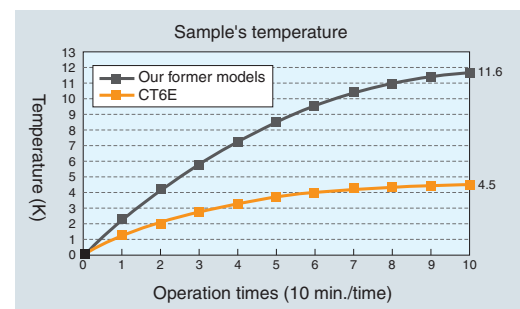
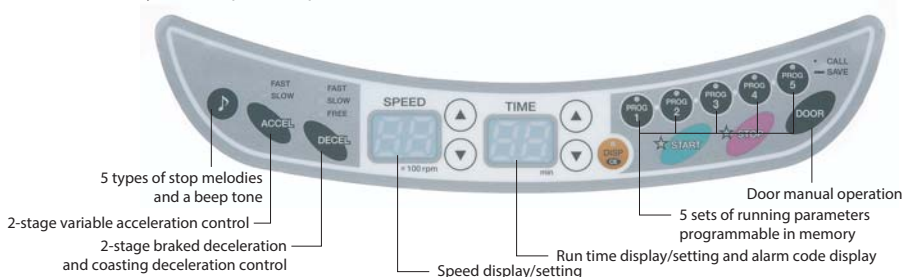
CT6E/CT6EL tabletop centrifuges are compact for smooth and speedy loading/unloading of samples. The height from the bottom to the opening is 270 mm (60 mm lower than our former models.)



Increase of sample's temperature is minimized

When you repeat centrifugation to process large number of sample tube using the same rotor, temperature of rotor is increased as centrifugation is repeated due to air frictions. It causes increase of sample's temperature. Our new design controls air flow in a chamber during centrifugation based on the latest fluid analysis and CAE analysis technology, and minimizes increase of sample's temperature. It is very helpful in routine work, especially when centrifugation is repeated to process large number of sample tube, to avoid any unexpected negative effect to the samples.

- Easy-to-use operation panel



Specifications

Model	CT6E	CT6EL
Maximum speed	6,000 rpm (T6AP fixed angle rotor) (T6AP2 fixed angle rotor)	
Maximum RCF	4,770 x g (T6AP fixed angle rotor) (T6AP2 fixed angle rotor)	
Maximum capacity	1,000 ml (250 ml x 4 tubes) (T5SS swinging bucket rotor)	2,000 ml (500 ml x 4 tubes) (T3S6 swinging bucket rotor)
Speed control range	300 to 6,000 rpm (in increments of 100 rpm)	
Timer	1 minute to 99 minutes (in increments of 1 minute) with a HOLD function (continuous operation)	
Acceleration/deceleration time variable	2-stage variable acceleration, 2-stage braked deceleration and coasting deceleration	
Memory-based programmed operation	5 programmed operations possible (speed, run time, acceleration/deceleration settings and rotor stop signal)	
Rotor stop signal	Selectable from 5 melodies, a beep tone and mute setting	
Drive motor	Brushless DC motor (inverter control)	
Safety device	Door interlock, dual overspeed detection, imbalance detection, motor temperature abnormality detection, etc.	
Compliance with standards	IEC 61010-2-020, EN61326, complies with CE marking requirements.	
Heat radiation	600W	
Power requirements	Single phase , AC200-240V, 10A , 50/60Hz AC100-120V, 15A, 50/60Hz	
Dimensions (mm)	440W x 595D x 330H	540W x 720D x 330H
Weight (kg)/Model	45	55

Global standard

Safer tabletop centrifuges! Compliance with CE marking requirements

- Mechanical safety (Compliance with IEC 61010-2-020 requirements)
 - CT6E/CT6EL tabletop centrifuges have passed the MCA (maximum credible accident) test. This test confirms that no fragments are expelled from the centrifuge in the event of an accident.
- Electrical safety (Compliance with IEC 61010-2-020 requirements)
 - Operator safety is ensured even under a single fault condition.
 - Double electric insulation construction for prevention of electric shock and all units have passed a general inspection under high-voltage conditions.
- Electromagnetic compatibility (EMC directive: Compliance with EN61326 and other requirements)
 - Strong immunity to erroneous operation or other malfunction from external electromagnetic emissions. (Protection from nearby lightning strikes and static electricity in dry winter air.)
 - Negligible electromagnetic emissions that would make peripheral equipment operate erroneously.

Environment-friendly design

Meeting Hitachi's environmental standards!

- Hitachi himac CT6E/CT6EL tabletop centrifuges are environment-friendly products.
 - More recyclable, energy-saving and resource-saving than the conventional models in the market.
 - Reduced the use of hazardous substances

ROTOR

Rotor list of CT6E

<p>T5SS 90585900</p>  <p>Shield cap S410252A(4pcs/box)</p>	<p>T4SS 90584100</p>  <p>Round bucket(option) S410523A(4pcs/box)</p> <p>Shield cap (option) S410252A(4pcs/box)</p> <p>The shield cap can be used with round bucket, but cannot be used with 157CX4S adapter and 250 PPCO/PC (Nalgene)</p>	<p>T5SS3 90591000</p>  <p>For microplate up to 75 mm length is possible</p>	<p>RT2S2 90583000</p>  <p>For microplate up to 40 mm length is possible</p>	<p>T6AP 90591100</p>  <p>For culture tube and ultrafiltration *Please refer to p. 2 for details</p>
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Adapters

<p>Adapters for T4SS</p>  <p>5x8S adapter 10x8S adapter 15x8S adapter 15TCx6S adapter 50TCx2S adapter 10x105B adapter 15x105 adapter</p>	<p>Adapters for T5SS</p>  <p>50x15 adapter 50TCx15 adapter 15x7S adapter 15TCx4S adapter 15TCx3S adapter 10x7S adapter 5x7S adapter</p>
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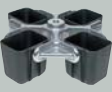





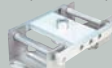

Rotor list of CT6EL

<p>T3S6 90585200</p>  <p>Bucket S304312B (4pcs/box)</p> <p>Bucket S304311B (4pcs/box)</p> <p>M2 bucket S300711A (4pcs/box)</p> <p>MP2 bucket S305173A (4pcs/box)</p> <p>*Please select a bucket for each optional use</p>	<p>T3S7 90583400</p>  <p>For Hitachi automatic analyzing devices</p>	<p>T3S8 90590900</p>  <p>For microplate up to 90 mm length is possible</p> <p>Square bucket (option) S308070A (4pcs/box)</p>	<p>T6AP2 90591200</p>  <p>For culture tube and ultrafiltration *Please refer to p. 3 for details</p>
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Adapters

<p>For T3S6 square rack/adapter</p>  <p>Square rack GR Square rack BL Square rack OR Square rack YE Square rack 13.2x20 Square rack 15.5x20 Square rack 46x2 Tube rack 61x1 50T7S adapter</p>	<p>For T3S8 adapter</p>  <p>250x15 adapter 15x16S adapter</p>
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Optional accessories: Rotors for CT6E

Rotor (Part No.)	Bucket/Assembly/Rack/Adapter		Max speed (rpm)	Max RCF (x g)	Nominal capacity *1	Tube size (φ x L)mm	Applicable tube (● tubes available on the market)
	Part No.	Model					
T4SS (90584100) (Square bucket as standard)  Round bucket (Option) *2 (4pcs/box) (S410523A)  Shield cap (Option) (4pcs/box) (S410252A) 	S307332A	5 x 8S adapter (4pcs/box)	4,000	2,380	5 x 32	12~13 x 75~78	● 4/5ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)
	S307333A	10 x 8S adapter (4pcs/box)	4,000	2,860	7 x 32	12~13 x 100	● 7ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)
			3,600	2,320	10 x 32	12.0 x 105	10 glass tube (50pcs/box) 464977A
	S308695A	10 x 10SB adapter (4pcs/box)	4,000	2,830	10 x 40	Multi type	● 10/7/5/4/5ml for blood tube ※Standard 15ml glass tube is not available.
	S307334A	15 x 8S adapter (4pcs/box)	4,000	2,860	10 x 32	15~16 x 32	● 10ml blood tube(Venoject, Insepack, Vacutainer, Hemoguard)
			3,600	2,320	15 x 32	16.5 x 100	15 glass tube (50pcs/box) 464976A
	S308546A	15 x 10S adapter (4pcs/box)	4,000	2,860	10 x 40	15.4 x 100	● 10ml blood tube(Venoject, Insepack, Vacutainer, Hemoguard)
3,000			1,610	15 x 40	16.5 x 100	15 glass tube (50pcs/box) 464976A	
S307335A	15TC x 6S adapter (4pcs/box)	4,000	2,900	15 x 24	17 x 120	● 15ml culture tube (V bottom)	
S307336A	50TC x 2S adapter (4pcs/box)	4,000	2,860	50 x 8	30 x 115	● 50ml culture tube (V bottom) *3	
T5SS (90585900) (Round bucket as standard)  Shield cap (4pcs/box) *5 (S410252A) 	S409810A	15 x 7S adapter (4pcs/box)	4,800	4,170	10 x 28	15.4 x 110	● 10ml blood tube(Termo Venoject)
			3,000	1,630	15 x 28	16.5 x 110	● 10ml blood tube(Termo Venoject II 10ml, Sekisui Greiner Insepack 10ml)
			4,800	4,170	7 x 28	12.4 x 100	● 7ml blood tube(Termo Venoject)
	S409811A	10 x 7S adapter (4pcs/box)	4,800	4,170	7 x 28	13.2 x 100	● 7ml blood tube(Termo Venoject II)
			3,000	1,630	10 x 28	12.7 x 100	● 7ml blood tube(Sekisui Greiner, Insepack)
			4,800	4,170	5 x 28	12.0 x 105	10 glass tube (50pcs/box) 464977A
	S409812A	5 x 7S adapter (4pcs/box)	4,800	4,170	5 x 28	12.4 x 75	● 5ml blood tube(Termo Venoject)
			4,800	4,170	5 x 28	13.2 x 78	● 5ml blood tube(Termo Venoject II)
			4,800	4,170	5 x 28	12.7 x 75	● 4/5ml blood tube(Sekisui Insepack 4ml, Sekisui Greiner Insepack 5ml)
			4,800	4,170	5 x 28	13.1 x 75	● 5ml blood tube (Sekisui Insepack)
	S409813A	50 x 1S adapter (4pcs/box)	4,800	3,980	50 x 4	35.0 x 100	50 glass tube (10pcs/box) 473866A
	S409814A	15TC x 4S adapter (4pcs/box)	4,800	4,170	15(TC) x 16	17.0 x 120	● 15ml culture tube (V bottom)
	S409815A	50TC x 1S adapter (4pcs/box)	4,800	4,170	50(TC) x 4	30.0 x 115	● 50ml culture tube (V bottom) *3
	S409976A	15TC x 3S adapter (4pcs/box)	4,800	4,170	15(TC) x 12	17.0 x 120	● 15ml culture tube (V bottom)
S410251A	160 x 1S adapter (4pcs/box)	4,800	4,170	160 x 4	52.0 x 120	160PP bottle (10pcs/box) S306847A (Cap optional) 160PC bottle (10pcs/box) S306848A (Cap optional) 160cap (2pcs/box) S410008A	
		4,800	4,170	250 x 4	61.6 x 135	● 250PP bottle (Nalgene) 3141-0250 ● 250PC bottle (Nalgene) 3140-0250	
T5SS3 (90591000) 	—	—	4,800	3,170	96MPx6pcs	—	● 96 well microplate
	—	—	4,800	3,170	96DWx2pcs	—	● 96 deep well microplate
	S408786A	0.2 x 96MP adapter (2pcs/box)	4,800	3,170	PCRx2pcs	—	● PCR 96 deep well plate
	S408787A	2 x 48S adapter (2pcs/box)	4,800	3,170	1.5/2.0 x 96	—	● 1.5ml/2.0ml microtube
RT2S2 (90583000) 	—	—	2,000	700	96MPx4pcs	—	● 96 well microplate *4
T6AP (90591100) 	—	—	4,750	2,990	50 x 8	—	● Cenrirep (Nihon Millipore)
	—	—	6,000	4,770			● Amicon Ultra-15 (Nihon Millipore)
	—	—	6,000	4,770			● Vivaspin 2, Vivaspin 6 (Saritorius)
	S409424A	15TA50T adapter (B) (2pcs/box)	6,000	4,630	15 x 8	—	● 50ml culture tube (V bottom) *3
			6,000	4,630	15 x 8	—	● 15ml culture tube (V bottom)
			6,000	4,630	15 x 8	—	● Amicon Ultra-4 (Nihon Millipore)
			6,000	4,630	15 x 8	—	● Vivaspin 2, Vivaspin 6 (Saritorius)
S411361A	2A50T adapter (2pcs/box)	6,000	4,770	15 x 8	—	● Centricon (Nihon Millipore)	
S411363A	10A50T adapter (2pcs/box)	4,800	3,000	15 x 8	—	● Centriplus (Nihon Millipore)	
S411365A	2A50T adapter(B) (2pcs/box)	6,000	3,950	15 x 8	—	● Ultrafree-CL (Nihon Millipore)	

*1. Capacity is indicated by nominal capacity of tube-bottle. Real capacity in actual use may be smaller than the nominal capacity depending upon rotor structure, tube shape, etc.










*2. Adapter and shield cap for T5SS can be used. The max. speed is 4,000rpm.

*3. The independent type 50ml culture tube cannot be used.

*4. When a centrifuge is to be loaded with two or more plates, please test preliminarily because of the possibility of a lower plate collapsing.

*5. It is not available to use shield cap for 15TC x 4S adapter and 250ml bottle.

Optional accessories: Rotors for CT6EL

Rotor (Part No.)	Bucket/Assembly/Rack/Adapter		Max speed (rpm)	Max RCF (x g)	Nominal capacity *1	Tube size (φ x L)mm	Applicable tube (● tubes available on the market)	
	Part No.	Model						
T3S6 (90585200) Bucket is option  Bucket (4pcs/box) (S304312B)  Shield bucket (4pcs/box) (S304311B) 	S303779A	Square rack 13.2 x 20 (4pcs/box)	3,000	2,000	4/5 x 80 7 x 80	13.2 x 100	● 4/5ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 7ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)	
	S303781A	Square rack 15.5 x 20 (4pcs/box)	3,000	2,000	6 x 80 10 x 80	15.2 x 75 15.4 x 100	● 6ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 10ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)	
	S301438A	Square rack GR (4pcs/box) *4	3,000	2,090	5/7 x 120	14 x 120	● 5/7 ml glass tube	
	S307170A	Square rack GR(B) (4pcs/box) *4	3,000	2,090	5/7 x 120	14 x 120		
	S301437A	Square rack BL (4pcs/box) *4	3,000	2,090	10 x 144	12 x 105	10 glass tube (50pcs/box) 464977A	
	S307169A	Square rack BL(B) (4pcs/box) *4	3,000	2,090	10 x 144	12 x 105		
	S301439A	Square rack YE (4pcs/box) *4	3,000	2,070	15 x 80	16.5 x 120	15 glass tube (50pcs/box) 464976A	
	S307171A	Square rack YE(B) (4pcs/box) *4	3,000	2,070	15 x 80	16.5 x 120		
	S301440A	Square rack OR (4pcs/box) *4	3,000	2,070	50 x 16	36.5 x 120	50 glass tube (10pcs/box) 473866A	
	S307172A	Square rack OR(B) (4pcs/box) *4	3,000	2,070	50 x 16	36.5 x 120		
	S303676A	Square rack 46 x 2 (4pcs/box)	3,000	2,010	100 x 8	45 x 120	● 100ml glass tube (Nichiden Rika Glass)	
	S306504A	Square rack 15TC x12 (4pcs/box)	3,000	2,050	15 x 48	17 x 120	● 15ml culture tube (V bottom)	
	S305213A	50T7S adapter (4pcs/box)	3,000	2,060	50 x 28	30 x 115	● 50ml culture tube (V bottom) *2	
	M2 bucket (4pcs/box) (S300711A)  MP2 bucket (4pcs/box) (S305173A) 	S303580A	Tube rack 61 x 1 (4pcs/box) *5	3,000	2,040 2,010	175 x 4 225 x 4	60 x 120 60 x 140	● 175ml culture tube (Falcon) *3 ● 225ml culture tube (Falcon) *3
		—	—	3,000	2,150	500 x 4	98 x 100	500PA tube (4pcs/box) S303830A
S303783A		Square rack 11.4 x 28 (4pcs/box)	3,000	2,050	1.5/2.0x112	11 x 39	● 1.5ml/2.0ml microtube	
S300711A		M2 bucket (4pcs/box)	2,000	850	96MPx4pcs	128 x 86 x 34	● 96 deep well microplate	
S305173A		MP2 bucket (4pcs/box)	3,000	2,000 2,010	96MPx4pcs 96DWx4pcs	128 x 86 x 92 128 x 86 x 92	● 96 deep well microplate ● 96 deep well plate	
T3S7(90583400) 	S304921A	13.3 x 18 adapter (4pcs/box)	2,800	1,860	4/5 x 72 7 x 72	12.4 x 75 12.4 x 100	● 4/5ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 6ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)	
	S304922A	15.7 x 18 adapter (4pcs/box)	2,800	1,860	6 x 72 10 x 72	15.2 x 75 15.4 x 100	● 7ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 10ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard)	
	—	—	2,800	1,790	10 x 60	15 x 105	For Hitachi Auto-analyzer 736/7250/7450	
	—	—	—	—	96MPx16pcs 96DWx8pcs PCR96x4pcs	128 x 86 x 15 128 x 86 x 45 —	● 96 well microplate ● 96 deep well plate ● For PCR 96 well plate	
T3S8 (90590900)  Square bucket is option (4pcs/box) (S308070A) 	S308063A	15 x 16S adapter (4pcs/box)	3,000	2,150	15 x 64	15.6 x 100 15.6 x 100 16.5 x 110	● 6ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 10ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) 15 glass tube (50pcs/box) 464976A	
	S308073A	10 x 16S adapter (4pcs/box)	3,000	2,150	4/5 x 64 7 x 64 10 x 64	12~13 x 75~78 12~13 x 100 12.0 x 105	● 4/5ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) ● 7ml blood tube (Venoject, Insepack, Vacutainer, Hemoguard) 10 glass tube (50pcs/box) 464977A	
	S308065A	15TC x 9S adapter (4pcs/box)	3,000	2,150	15 x 36	17 x 120	● 15ml culture tube (V bottom)	
	S308064A	50TC x 4S adapter (4pcs/box)	3,000	2,150	50 x 16	30 x 115	● 50ml culture tube (V bottom) *2	
	S308066A	250 x 1S adapter (4pcs/box)	3,000	2,120	250 x 4	62 x 124	250PP bottle (10pcs/box) S306749A 250cap (2pcs/box) S409936A 250PC bottle (10pcs/box) S306750A 250cap (2pcs/box) S409936A	
	—	—	—	—	—	—	● Cenrirep (Nihon Millipore) ● Amicon Ultra-15 (Nihon Millipore) ● Vivaspin 20 (Saritorius)	
	—	—	—	—	—	—	● 50ml culture tube (V bottom) *2	
	—	—	—	—	—	—	● 15ml culture tube (V bottom) ● Amicon Ultra-4 (Nihon Millipore) ● Vivaspin 2, Vivaspin 6 (Saritorius)	
T6AP2 (90591200) 	S409424A	15TA50T adapter(B) (2pcs/box) Accessory (8pcs)	6,000	4,630	15 x 8	—	● Centricon (Nihon Millipore) ● Centriplus (Nihon Millipore) ● Ultrafree-CL (Nihon Millipore)	
	S411361A	2A50T adapter (2pcs/box)	6,000	4,770	15 x 8	—	● Centriplus (Nihon Millipore)	
	S411363A	10A50T adapter (2pcs/box)	4,800	3,000	15 x 8	—	● Ultrafree-CL (Nihon Millipore)	
	S411365A	2A50T adapter (B)(2pcs/box)	6,000	3,950	15 x 8	—	● Ultrafree-CL (Nihon Millipore)	

*1. Capacity is indicated by nominal capacity of tube-bottle. Real capacity in actual use may be smaller than the nominal capacity depending on rotor structure, tube shape, etc.

*2. The independent type 50ml culture tube cannot be used.

*3. Please order Falcon-brand cushions separately: for 225ml (352075) and 175ml (352076), order cushions (352090) made by Becton Dickinson

*4. Please choose depending on the tube length (except for cap). Without(B): 55~75mm, with(B): 76~120mm

*5. Tube rack 61x1 cannot be used with shield bucket.

Hitachi Koki

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CAUTION:

For sale and proper use of your machine, carefully read and follow the instructions in the instruction manual.

- All specifications are subject to change without advanced notice.
- Actual color may vary from the color of the photos on this catalogue, due to printing conditions.
- Due to safety reasons, installation environments, operating environments and conditions may be restricted.
- Unless specially mentioned, products and/or operation panel of the photos are standard specification.
- For further information, please contact your nearest Hitachi Koki's representative.



Hitachi Koki Co., Ltd. is certified international Standard ISO14001 (Environmental Management System) by International Organization for Standard

ISO 9001
BUREAU VERITAS
Certification



Scientific Instruments Division of Hitachi Koki Co., Ltd. is certificated Quality Management and Quality Assurances Standard (ISO 9001) by International Organization for Standard

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