Refrigerated | High speed | Benchtop

BSCT-TGL-19



Order No.:0104070000

BSCT-TGL-19 is a intelligent, versatile high speed refrigerated centrifuge runs up to 19000rpm. The centrifuge is a large capacity model which can accommodate 0.2ml to 500ml tube/bottle. Fixed angle rotors are compatible with tubes 0.2ml to 100ml. Swing out rotors are compatible with 1.5ml to 500ml tube or bottle, blood tube and microplate. With its leading technologies and many user-friendly functions,it can perfectly meet your centrifugal needs.

We solve two core safety risks

Risk one:Overspeed operation
Solution: Automatic rotor identification to prevent over speed operation

Automatic rotor identification by RFID

1. Static identification. Just put in the rotor, recognize rotor without running.
2. Prevent overspeed. User cannot set RPM/RCF over the rotor's limit.
3. More information. Besides rotor's max speed,centrifuge can identify information such as rotor capacity,production time and remaining life time.
4. Can recognize much more rotors

Risk two:Unbalanced operation
Solution: Imbalance detection in the whole operation process & automatically stop

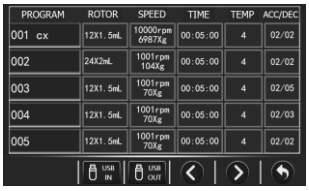
Imbalance sensor:Three axis gyroscope

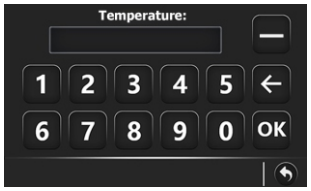
1. Detect imbalance in the whole operation process.
2. Adjust imbalance point automatically.
3. Automatic stop when reach imbalance point.
4. Imbalance detection is more accurate

LCD touch screen

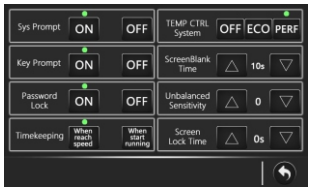


- Simple and clear to show all parameters
- Touch screen,easy to set parameters
- RCF can be set directly
- Intelligent status display,real-time and real values
- User can set parameters even with gloves
- User can reset parameters when rotor is spinning









FEATURES

User-friendly functions

>up to 1000 user-defined programs
>up to 100000 run histories,can be exported via USB
>up to 40 rates acceleration and deceleration,speed downs curvely slowly from 600rpm to 0rpm to prevent samples shake
>up to 7 stages multi-stage centrifugation mode available
>up to 99h59m59s timer range, 1s increment
>Support short spin and continuous centrifugation
>Reservation:can reserve cooling,turn on and turn off time
>Curve display---Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.

Refrigeration

>High quality compressor unit
>-20°C to +40°C ,1°C increment
>□1°C high temperature accuracy
>CFC-free refrigerant
>PID dynamic temperature control
>Temperature sensor inside the chamber
>Starts refrigeration when power on
>Maintains refrigeration after spin
>With ECO energy-saving module

Ensure safety

>Automatic rotor identification by RFID
>Imbalance detection by three axis gyroscope
>Motorized electronic door lock
>Door cannot be opened when rotor is spinning
>Gas hinges to prevent door falling
>Port in the door for calibration and operation checking
>Emergency door lock release
>Password to lock the device
>User management with permission allocation
>Various protections to ensure safe centrifugation
>With never be lost electronic instruction manual

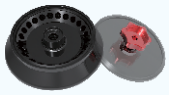
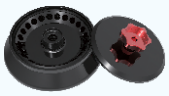
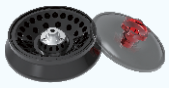
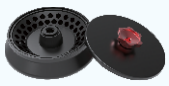
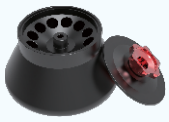
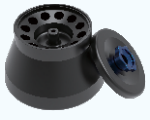
Good components

>Motor: Brushless variable frequency motor. stable running,maintenance free,long life
>Housing: Thick and strong steel
>Chamber: 316 stainless steel with teflon coating. anticorrosion and easy to clean
>Rotor: Aluminum alloy fixed angle rotor;
Steel/Stainless steel swing out rotor.
>Rotors are autoclavable

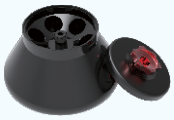
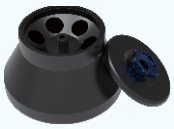
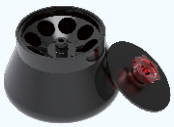
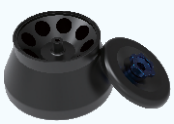
TECHNICAL DATA

Max Speed	19000rpm
Max RCF	30367xg
Max Capacity	4x500ml
Temperature Range	-20°C □ +40°C
Temperature Accuracy	□1°C
Speed Accuracy	□10rpm
Time Setting	1s □ 99h59m59s
Noise	□56dB(A)
Voltage	220v/110v
Power Consumption	1500w
Dimension	600x680x420mm
Weight	108kg

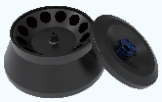
AVAILABLE ROTORS

Fixed angle rotor					
Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	12×1.5/2ml	0494020200	19000rpm/25265×g	12×1×0.2ml	1101010001
				12×1×0.5ml	1101010002
	24×1.5/2ml	0494020600	16000rpm/24814×g	24×1×0.2ml	1101010001
				24×1×0.5ml	1101010002
	24×1.5/2ml aerosol tight	0494020500	17700rpm/30367×g	24×1×0.2ml	1101010001
				24×1×0.5ml	1101010002
	36×1.5/2ml	0494020800	14000rpm/18976×g	36×1×0.2ml	1101010001
				36×1×0.5ml	1101010002
	48×1.5/2ml	0494020900	13000rpm/18535×g	48×1×0.2ml	1101010001
				48×1×0.5ml	1101010002
	12×5ml	0494030200	17000rpm/23489×g	12×1×1.8ml frozen storage tube	1101020002
				12×1×2ml frozen storage tube	1101020004
				12×1×2ml	1101020001
	6×10ml	0494040100	16000rpm/19004×g	6×1×2ml	1101030001
				6×1×5ml	1101030002
	12×10ml	0494040200	14000rpm/18121×g	12×1×2ml	1101030001
				12×1×5ml	1101030002
	12×15ml conical tube	0494050200	12000rpm/15906×g	12×1×5ml	1101040001
				12×1×10ml	1101040002

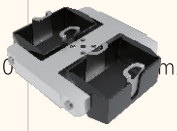
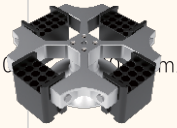
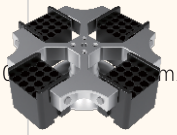
AVAILABLE ROTORS

Fixed angle rotor					
Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	6×50ml round tube	0494070100	13000rpm/18440×g	6×1×2ml	1101060003
				6×1×5ml	1101060004
				6×1×10ml	1101060001
				6×1×15ml conical tube	1101060005
				6×1×30ml	1101060002
	6×50ml conical tube	0494070200	13000rpm/18440×g	6×1×2ml	1101070003
				6×1×5ml	1101070004/conical tube 1101070005/round tube
				6×1×7ml	1101070012
				6×1×10ml	1101070006/glass tube 1101070007/conical tube 1101070008/round tube
				6×1×15ml conical tube	1101070001
				6×1×25ml	1101070010
				6×1×50ml round tube	1101070002
	8×50ml round tube	0494070400	11000rpm/13365×g	8×1×2ml	1101060003
				8×1×5ml	1101060004
				8×1×10ml	1101060001
				8×1×15ml conical tube	1101060005
				8×1×30ml	1101060002
	8×50ml conical tube	0494070500	11000rpm/14041×g	8×1×2ml	1101070003
				8×1×5ml	1101070004/conical tube 1101070005/round tube
				8×1×7ml	1101070012
				8×1×10ml	1101070006/glass tube 1101070007/conical tube 1101070008/round tube
				8×1×15ml conical tube	1101070001
				8×1×25ml	1101070010
				8×1×50ml round tube	1101070002

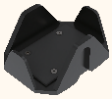
AVAILABLE ROTORS

Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	12×50ml conical tube	0494070700	9000rpm/11590×g	12×1×5ml	1101070004/conical tube
				12×1×10ml	1101070006/glass tube 1101070007/conical tube
				12×1×15ml	1101070001/conical tube
	4×100ml	0494080100	11000rpm/13365×g	4×1×15ml	1101080002
				4×1×50ml	1101080005/conical tube
	6×100ml	0494080200	10000rpm/12063×g	6×1×15ml	1101080002
				6×1×50ml	1101080005/conical tube

Swing out rotor

Rotor body	Capacity	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor	
				Capacity	Order No.
	Capacity: 2×3×96 well (micro plate)	0495010300 	m/2003×g	2×24×1.5/2ml	1102040001
	Capacity: 48×2~7ml blood tube	049518040 	m/2951×g	/	/
	Capacity: 64×2~7ml blood tube	049518050 	m/2951×g	/	/
	Capacity: 4×250ml	0495040200 	45 pm/3735×g	4×8×2ml	1102050001
				4×8×2ml	1102050015
				4×8×5ml	1102050010
				4×5×5ml	1102050002
				4×10×7ml	1102050013
				4×9×10ml	1102050014
				4×5×15ml	1102050003
				4×2×30ml	1102050012
				4×2×50ml	1102050004/conical
				4×1×100ml	1102050006

Swing out rotor

Rotor body	Holder	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor	
				Capacity	Order No.
 Order No.: 0495180710	 Capacity: 4×500ml Order No.: 1006010009 (without lid) Aerosol tight lid Order No.: 0495061110 Note: Aerosol tight lid cannot be used when use 500ml bottle	0495060400 (without lid) 0495061300 (with lid)	4200rpm/3551×g	4×18×2ml	1102070001
				4×18×2ml frozen storage tube	1102070019
				4×19×7ml blood tube	0497010200
				4×14×10ml	1102070018
				4×14×10ml blood tube	1102070007
				4×9×15ml conical tube	0497010300
				4×4×50ml conical tube	0497010400
				4×2×100ml	1102070020
				4×1×100ml	1102070005
				4×1×250ml	1102070006
	 Capacity: 4×500ml (square bucket) Order No.: 0495060510 Note: No suitable bottle,must choose adaptor	0495060500	4200rpm/3551×g	4×25×2ml	1102080001
				4×25×2ml frozen storage tube	1102080015
				4×22×5ml	1102080008
				4×28×7ml blood tube	0497010100
				4×20×10ml blood tube	1102080003
				4×10×15ml conical tube	0497010500
				4×6×30ml	1102080014
				4×5×50ml conical tube	0497010600
				4×2×100ml	1102080006
				4×1×250ml	1102080007
	 Capacity: 4×2×96 well (micro plate) Order No.: 0495060610	0495060600	4200rpm/3551×g	4×24×1.5/2ml	1102040001
	 Capacity: 96×2~7ml (blood tube) Order No.: 0495180720	0495180700	4200rpm/3551×g	/	/
	 Capacity: 148×5ml (RIA tube) Order No.: 0496061010	0495061000	4200rpm/3551×g	/	/