



ORBITAL SHAKER

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Our product is an accurately designed, microprocessor controlled with double Decker platform to save your valuable lab space. Three eccentric shaft balancing drive ensures shaking with uniform speed. Speed adjustment settings permit both gentle and vigorous shaking. Varieties of platforms are available for different glassware and vessels.

100 SERIES ORBITAL SHAKER



- Microprocessor controller with timer function for reliable temperature control
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Easy to clean stainless steel platform
- Unique speed monitoring circuit design
- Three eccentric shaft balancing drive to ensure uniform sample shaking speed
- Menu-driven easy to use interface
- Available in monolayer
- Slow start up function prevents liquid spillage
- Data retrieval on power failure

SPECIFICATIONS

Model	BSOR-101	BSOR-102	BSOR-103	BSOR-104
Speed Range	20-300 rpm		50~300 rpm	50~250 rpm
Maximum Configuration	250x48pcs or 500mlx30pcs or 1000mlx20pcs or 2000ml x 12pcs (every desk)	250x63pcs or 500mlx35pcs or 1000mlx35pcs or 2000ml x 16pcs (every desk)	250 mlx54 or 500 mlx35 or 1000 mlx24 or 5000 mlx6	
Temperature	RT +5-65°C	4-65°C	-	-
Shaking Speed Accuracy	±1 rpm			
Shaking Orbit	30/50 mm		-	-
Timing Range	0~55 h		0~500 h	
Motion	Orbital			
Operation	Continuous/Timed		-	-
Shelve	1			
Platform Dimension	800x600 mm	920x640 mm	840x620 mm	
Overall Dimension	900x680x680 mm	1060x850x680 mm	900x650x480 mm	
Display	LCD		-	-
Power	400 W		150 W	
Standard Configuration	500 mlx60pcs		250mlx54	
Power Supply	AC220V±10% 50Hz±2%		AC110V/220V±10%,50/60Hz	
Vibrational Amplitude (mm)	-	-	Φ50 mm	Φ100 mm
Circulation Mode	-	-	Natural convection	-
Drive Mode	-	-	Unishaft drive	-
External Material	-	-	Cold-rolled steel with anti-bacterial power coating	
Package Size	-	-	1000x750x630 mm	

(WxDxH)				
Weight		-	-	250 kg 300 kg

Model	BSOR-105	BSOR-106	BSOR-107	BSOR-108
Speed Range	50~300 rpm	50~250 rpm	20-300 rpm	
Maximum Configuration	250 mlx96 or 500 mlx60 or 1000 mlx40 or 5000 mlx15		250x48pcs or 500mlx30pcs or 1000mlx20pcs or 2000ml x 12pcs (every desk)	250x63pcs or 500mlx35pcs or 1000mlx35pcs or 2000ml x 16pcs (every desk)
Temperature	-	-	RT +5-65°C	4-65°C
Shaking Speed Accuracy	±1 rpm			
Shaking Orbit	-	-	30/50 mm	
Timing Range	0~500 h		0~55 h	
Motion	Orbital			
Operation	-	-	Continuous/Timed	
Shelve	-	-	2	
Platform Dimension	1108x740 mm	1108x740 mm	800x600 mm	920x640 mm
Overall Dimension	1210x775x480 mm		900x680x680 mm	1060x850x680 mm
Display	-	-	LCD	
Power	280 W		400 W	
Standard Configuration	250mlx96		500 mlx60pcs	
Power Supply	AC110V/220V±10%,50/60Hz		AC220V±10% 50Hz±2%	
Vibrational Amplitude (mm)	φ50 mm	φ100 mm	-	-
Circulation Mode	-	-	-	-
Drive Mode	-	-	-	-
External Material	Cold-rolled steel with anti-bacterial power coating		-	-
Package Size (WxDxH)	1310x875x630 mm		-	-
Weight	305 kg		-	-



BSOR-101



BSOR-103



BSOR-107



BSOR-108

**100 SERIES
DOUBLE
TIER
ORBITAL
SHAKER**



PID controller.

Soft shaking mode, stable and reliable operation.

Eight self-compiled programs, with different speed and time setting.

Automatic operation, auto-stop, timing, time display, parameters memory and recovery function.

Automatic power-off protection system when the motor is overheating and temperature is out of control.

SPECIFICATIONS

Model	BSOR-109	BSOR-110	BSOR-111
Speed Range	50~300 rpm		50~250 rpm
Maximum Configuration	250 mlx108 or 500 mlx70 or 1000 mlx48	250 mlx192 or 500 mlx120 or 1000 mlx80	250 mlx300 or 500 mlx216 or 1000 mlx112
Shaking Speed Accuracy	±1 rpm		
Timing Range	0~500 h		
Motion	Orbital		
Vibrational Amplitude (mm)	Φ50 mm		
Circulation Mode	Natural convection		
Drive Mode	Unishaft drive		Multi-dimensional driving
Shaking Plate Quantity	2 pcs		4 pcs
External Material	Cold-rolled steel with anti-bacterial power coating		
Platform Dimension	840x620 mm	1108x740 mm	1080x680 mm
Overall Dimension	910x680x820 mm	1270x810x425 mm	1590x1120x950 mm
Package Size (WxDxH)	1010x780x970 mm	1370x910x575 mm	1690x1220x1000 mm
Display	LCD		
Weight	305 kg	557 kg	830 kg
Power	280 W		750 W
Standard Configuration	250 mlx54, 500 mlx35	250 mlx86, 500 mlx60	250 mlx150, 500 mlx108
Power Supply	AC110V/220V±10%,50/60Hz		

100 SERIES THREE TIER ORBITAL SHAKER



PID controller.
Soft shaking mode, stable and reliable operation.
Eight self-compiled programs, with different speed and time setting.
Automatic operation, auto-stop, timing, time display, parameters memory and recovery function.
Automatic power-off protection system when the motor is overheating and temperature is out of control.

ORBITAL SHAKER

SPECIFICATIONS

Model	BSOR-112
Speed Range	50~250 rpm
Maximum Configuration	250 mlx450 or 500 mlx324 or 1000 mlx168
Shaking Speed Accuracy	±1 rpm
Timing Range	0~500 h
Motion	Orbital
Vibrational Amplitude (mm)	Φ50 mm
Circulation Mode	Natural convection
Drive Mode	Multi-dimensional driving
Shaking Plate Quantity	6 pcs
External Material	Cold-rolled steel with anti-bacterial power coating
Platform Dimension	1080x680 mm
Overall Dimension	1470x1110x1320 mm
Package Size (WxDxH)	1570x1210x1470 mm
Display	LCD
Weight	950 kg
Power	1100 W
Standard Configuration	250 mlx225, 500 mlx162
Power Supply	AC110V/220V±10%,50/60Hz

200 SERIES ORBITAL SHAKER



- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Adjustable speed control provides gentle to vigorous agitation
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers

SPECIFICATIONS

Model	BSOT-201	BSOT-202	BSOT-203
Speed Range	50-350 rpm	50-300 rpm	50-250 rpm
Temperature	4-45°C		
Shaking Orbit	10 mm	20 mm	30 mm
Timing Range	1 min~99h59 min		
Motion	Orbital		
Maximum Load Capacity	2 kg		
Operation	Continuous/Timed		
Overall Dimension	280x260x90 mm		
Display	LED		
Weight	7.5 kg		
Power	50 W		
Power Supply	AC100-230V, 60Hz		

OPTIONAL ACCESSORIES

Accessory Code	Name	Description
BX-103551	Platform	Flat platform with non-slip rubber mat
BX-103552	Platform	Double deck flat platform with non-slip rubber mat
BX-103553	Platform	Platform with clamps for flasks 100-150ml
BX-103554	Platform	Platform with clamps for flasks 250-300ml

Accessory Code	Name	Description
BX-103555	Platform	Universal platform with adjustable bars
BX-103556	Platform	Universal platform with springs
BX-103557	Platform	Sticky pad (not platform, can be put in the platform BX-103551 or BX-103552)



BSOT-202



BSOT-203

300 SERIES ORBITAL SHAKER



- Compact space-saving design fits easily in incubator and refrigerator
- Simultaneous display of speed, timer and operating mode
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Electronic time switching clock controls time or continuous operation mode
- RS232 interface enables data logging & computer control
- Over speed detection and protection
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers

SPECIFICATIONS

Model	BSOT-301	BSOT-302	BSOT-303
Speed Range	0-200 rpm	100-350 rpm (Linear) 100-800 (orbital)	100-350 rpm (Linear) 100-500 (orbital)
Temperature	4-40°C		
Permissible Ambient Temperature	5-40°C		
Shaking Orbit	20 mm	4 mm	10 mm
Permissible Relative Humidity	0.8		
Motion	Orbital/Linear		
Motor rating Input [W]	16	28	
Motor rating output [W]	10	15	
Maximum Load Capacity	3 kg	2.5 kg	7.5 kg
Operation	Continuous	Continuous/Timed	
Overall Dimension	330x270x110 mm	340x300x100 mm	420x370x100 mm
Display	Analog	LCD	
Weight	3.1 kg	8.1 kg	13.5 kg
Power	30 W		
Power Supply	100-240V, 50/60Hz		
Timing Range	-	1-1199 min	

OPTIONAL ACCESSORIES

Accessory Code	Name	Unit	For Models
BX-102757	Universal attachment with 3 bars		BSOT-301, BSOT-302
BX-102758	Fixing clip attachment		BSOT-301, BSOT-302
BX-102759	Lengthways roller attachment		BSOT-301, BSOT-302
BX-102760	Dish Attachment with non-slip mat		BSOT-301, BSOT-302
BX-102761	Universal attachment Bar, black		BSOT-301, BSOT-302
BX-102762	Fixing clip for flask volume 25 ml		All
BX-102763	Fixing clip for flask volume 50 ml		All
BX-102764	Fixing clip for flask volume 100 ml		All
BX-102765	Fixing clip for flask volume 200/250 ml		All
BX-102766	Fixing clip for flask volume 500 ml		All
BX-102767	Universal attachment with 4 bars		BSOT-303
BX-102768	Fixing clip attachment		BSOT-303
BX-102769	Lengthways roller attachment		BSOT-303
BX-102770	Dish platform with non-slip mat and fixed string	8 pcs	BSOT-303



BSOT-301



BSOT-302



BSOT-303

400 SERIES ORBITAL SHAKER



- Microprocessor control with simultaneous display of time and speed
- Compact space-saving design fits easily in incubator and refrigerator
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Adjustable speed control provides gentle to vigorous agitation
- Multi-functional shaking system
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers

SPECIFICATIONS

Model	BSOT-401	BSOT-402	BSOT-403
Speed Range	50-250 rpm	50-300 rpm	50-250 rpm
Temperature	Ambient +5-40°C		
Shaking Orbit	20 mm	10 mm	10, 15, 20 mm available (15mm by default)
Timing Range	1 min~99h59 min		
Motion	Orbital		
Maximum Load Capacity	2.5 kg	3 kg	8 kg
Operation	Continuous/Timed		
Overall Dimension	280x270x110 mm		320x350x145 mm
Display	LED		
Weight	7.2 kg		17.5 kg
Power	50 W	51 W	-
Power Supply	AC90~240V, 50/60Hz, 2A	AC100~240V, 50/60Hz, 2A	AC90~240V, 50/60Hz, 2A
Platform Dimension	-	-	270x240 mm

OPTIONAL ACCESSORIES

Accessory Code	Name	For Models
BX-102642	Flat Platform	BSOT-401, BSOT-402
BX-102643	Platform--100ml	BSOT-401, BSOT-402
BX-102644	Platform--250ml	BSOT-401, BSOT-402
BX-102645	Universal Platform	BSOT-401, BSOT-402
BX-102646	Platform with springs	BSOT-401, BSOT-402
BX-102647	Flask Clamp	BSOT-403
BX-102648	Flask Clamp	BSOT-403

Accessory Code	Name	For Models
BX-102649	Flask Clamp	BSOT-403
BX-102650	Flask Clamp	BSOT-403
BX-102651	Platform	BSOT-403
BX-102652	Platform	BSOT-403
BX-102653	Platform	BSOT-403
BX-102654	Platform	BSOT-403



BSOT-401



BSOT-402



BSOT-403

600 SERIES ORBITAL SHAKER



Microprocessor based PID controller with timing function
 Brushless DC motor ensures maintenance-free, reliable and quiet operation
 Easy to clean anti-eroding stainless steel or alnico plate
 Swift start and stop system prevents liquid spillage
 Audio alarm signals program completion

SPECIFICATIONS

Model	BSOT-601	BSOT-602	BSOT-603	BSOT-604
Speed Range	50-250 rpm		40-300 rpm	
Temperature	No heating function			
Shaking Orbit	10 mm	20 mm		
Timing Range	1~9999 min			
Motion	Orbital			
Operation	Continuous/Timed			
Platform Dimension	280x270 mm		350x260 mm	400x340 mm
Display	Analog			
Power	100 W		110 W	120 W
Power Supply	220V, 50Hz			

Model	BSOT-605	BSOT-606	BSOT-607	BSOT-608
Speed Range	40-300 rpm	20-250 rpm		40-300 rpm
Temperature	No heating function	RT 5-100°C		RT+5-65°C
Shaking Orbit	20 mm			
Timing Range	1~9999 min			
Motion	Orbital			
Operation	Continuous/Timed			
Platform Dimension	450x450 mm	350x260 mm	380x430 mm	400x340 mm
Display	Analog	LCD		
Power	130 W	300 W	400 W	450 W
Power Supply	220V, 50Hz			



BSOT-601



BSOT-602



BSOT-603



BSOT-604



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