

# Laboratory Shaker (Vertical & Horizontal Shaking)

Vertical / Horizontal / Rotary / Double-sided vertical shaking motion

## SA300/320/400

SA300/400 20~300rpm

SA320 20~210rpm

Shaking width 40mm



SA320 with test tube holder

SA300 with separating funnel holder

Glassware not included

The SA300 achieves two dimensional shaking (horizontal and vertical), while the SA320 enables rotary shaking and SA400 is double-sided vertical shaking. All models are efficient in extraction, culture and mixture stirring of samples.

- Stable turns from low to high speed can be obtained
- Compact and equipped with a powerful shaking load
- Easy-to-use dial settings for shaking frequency and digital displays.
- Possible to switch between timer operation and continuous operation
- Various holders can be easily attached and removed and are extremely durable

### SA300/320

- The main unit shakes vertically, but it can be laid on the side to shake horizontally

### SA400

- 6 pieces of 1 liter liquid sample holder and 4 pieces of 2 liter liquid sample holder can shake simultaneously
- Double sided shaking possibility



SA320 with separating funnel holder

SA400 with separating funnel holder

Glassware not included

### Specifications

Model	SA300	SA320	SA400
Shaking method	Horizontal / Vertical shaking	Horizontal / Vertical rotary shaking	Double sided vertical shaking
Max. number of sample holder	100ml×5, 200ml×4, 300ml×4, 500ml×4, 1000ml×3, 2000ml×2		100ml×10, 300ml×8, 1000ml×6, 200ml×8, 500ml×8, 2000ml×4
Shaking speed: horizontal	20~300 rpm	20~210 rpm	None
Shaking speed: vertical	20~300 rpm	20~210 rpm	20~300 rpm
Speed setting display	Dial setting		Dial setting / Digital display
Timer	Dial setting 0~60 min. (minimum scale 5 min.). Continuous switching function		
Motor	DC motor 90W		
External dimensions	W460×D460×H423		W520×D460×H483
Weight	~40kg		~39kg
Power source (50/60Hz)	Single phase, AC115V 2A / AC220V 1A		
Included accessories	Fuse×1, Carbon brush×1		

### Horizontal Shaking



### Rotary + Horizontal Shaking



### Vertical Shaking



### Rotary + Vertical Shaking



## Operational Accessories

### Centrifugal tube holder



For all models  
Horizontal / Vertical shaking

Dia. 16~35mm  
Length 110~130mm  
18 pcs.

Product code 232087

### Test tube holder



For SA300/320  
Horizontal shaking

Dia. 16.5~18mm  
Length 160~190mm  
18 pcs.

Product code 232086

### Separating funnel holder



For all models  
Vertical shaking

50ml  
100~1000ml  
2000ml

Product code 232089

### Separating funnel holder



For all models  
Vertical shaking

100~1000ml

Product code 232096

### Mounting stage



For SA300/320  
Horizontal shaking

Capacity	No. of pcs.
100ml	28
200ml	19
500ml	14
1L	9
Product code	232095

### Erlenmeyer flask holder clamp



For SA300/320  
Horizontal shaking

Product code	Capacity	No. of pcs.
232062	100ml	10
232063	200ml	9
232064	300ml	5
232065	500ml	4
232066	1L	2

### Diagonal rack



For SA300/320  
Horizontal shaking

Diagonal erlenmeyer flask holder		
Product code	Capacity	
232067	100ml	
232068	200ml	
232069	300ml	
Diagonal test tube holder		
Product code	Size	No. of pcs
232080	ø12mm	50
232081	ø16.5mm	20
232082	ø18mm	20

Mounting stage sold separately

### Non-skid sheet



For SA300/320  
Horizontal shaking

Thickness 1mm  
W450 x D396mm

Product code 232071

Mounting stage sold separately

### Test tube rack holder



For SA300/320  
Vertical horizontal shaking

Max. test tube rack  
W238 x D121 x H105mm  
2 lines

Product code 232088

Mounting stage sold separately

### Erlenmeyer flask holder



For SA300/320  
Horizontal shaking

Adjustable 100~1000ml

Product code 232097

### Two layer spring shaking rack



For SA300/320  
Horizontal shaking  
320 pcs. of ø16 test tube  
(Pitch 20mm)

Product code 232079