

## Shakers | Horizontal • Vertical • Orbital • Dual Vertical Shaking

## SA300/320/400

Shaking rate 20~300rpm (SA300/400) 20~210rpm (SA320)

Amplitude 40mm



SA320

SA300

Two-dimensional shaking (horizontal + vertical) (SA300), three-dimensional shaking (horizontal orbital + vertical orbital) (SA320), and dual vertical shaking (SA400)—ideal for large-volume sample extraction, cultivation, mixing, and stirring.

## ■ Features

- DC motor provides stable torque across a wide speed range.
- Compact design with a high load capacity for shaking.
- Continuous operation is possible; the unit can also be stopped at any time.

## SA300/320

- Large tray for horizontal shaking, enabling two-dimensional shaking (horizontal + vertical) for versatile applications.
- The SA320 supports vertical orbital shaking, delivering excellent mixing performance even in a horizontal configuration. It also provides high shaking efficiency for large-volume samples under vertical shaking.
- A wide range of optional items is available for different applications.

## SA400

- Enables simultaneous shaking of six 1 L Erlenmeyer flasks or four 2 L Erlenmeyer flasks.
- Equipped with a rotation speed setting and a digital revolution counter for easy monitoring.



SA320

SA400

## ■ Specifications

Model	SA300	SA320	SA400
Shaking method	Horizontal · vertical reciprocating shaking	Horizontal · vertical orbital shaking	Vertical reciprocating dual shaking
Max. number of separatory funnel holders	100mL×5, 200mL×4, 300mL×4, 500mL×4, 1,000mL×3, 2,000mL×2		100mL×10, 200mL×8, 300mL×8, 500mL×8, 1,000mL×6, 2,000mL×4
Oscillating frequency	Horizontal shaking 20~300 rpm vertical shaking 20~300 rpm	Horizontal orbital shaking 20~210 rpm vertical orbital shaking 20~210 rpm	Vertical shaking 20~300 rpm
Speed setting display	Variable scale on dial		Dial setting, digital display
Timer	Dial setting 0~60 min (minimum scale 5 min) with continuous operation switch		
Motor	DC motor 90w		
External dimensions	W460×D460×H423mm		W520×D460×H483 mm
Body weight	Approx. 40kg		Approx. 39kg
Power supply *	AC110/115/120/220/230/240V		
Accessories	One fuse, one set of carbon brushes		

\* Voltage modifications other than the listed specifications are also available. Please contact us for details.

1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers &amp; Shakers

12 Options

Made in Japan

Horizontal shaking (SA300)



Orbital shaking (SA320)



Vertical shaking (SA300/400)



Options

Centrifuge tube shaking rack



Horizontal-vertical shaking for SA300/320/400

Product number	Specifications	Number of stands
232087	Φ16~35mm Length 110~130mm	18 pcs

Test tube shaking rack



Horizontal shaking for SA300/320

Product number	Specifications	Number of stands
232086	Φ16.5~18mm Length 160~190mm	18 pcs

2L separating funnel shaking rack



Vertical shaking for SA300/320/400

Product number	Specifications
232089	50mL, 100mL~1,000mL 2,000mL

Separating funnel shaking rack



Vertical shaking for SA300/320/400

Product number	Specifications
232096	500mL and 1,000mL skive-type cannot be fitted.

Test tube shaking rack base



Horizontal shaking for SA300/320

Product number	Specifications
232088	2 layers, maximum test tube rack width 238×depth 121×height 105 mm

● Installation Platform To Be Purchased Separately.

Non-slip mat



Horizontal shaking for SA300/320

Product number	Specifications
232071	Thickness 1 mm Width 450×Depth 396mm

● Installation Platform To Be Purchased Separately.

Erlenmeyer flask shaking rack



Horizontal shaking for SA300/320

Product number	Specifications
232097	100mL~1,000mL

Erlenmeyer flask clamp



Horizontal shaking for SA300/320

Product number	Specifications	Number of stands
232062	For 100 mL	10 sets
232063	For 200 mL	9 sets
232064	For 300 mL	5 sets
232065	For 500 mL	4 sets
232066	For 1,000 mL	2 sets

● Installation Platform To be purchased separately

Installation platform



Horizontal shaking for SA300/320

Product number	Specifications
232095	Number of erlenmeyer flask clamps: 28 pcs for 100 mL, 19 pcs for 200 mL, 14 pcs for 500 mL, 9 pcs for 1,000 mL

2-layer spring shaking rack



Horizontal shaking for SA300/320

Product number	Specifications
232079	Φ16 mm test tubes 320 pcs (Grid spacing 20 mm)

Sterilizers	1
Granulation and Spray Dryers	2
Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
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