



## Performance

- Dual-action shaking motion: Orbital / Reciprocating.
- Microprocessor PID control / Shaking speed calibration.
- Competitive high shaking speed up to 500 rpm. Also stable shaking is available even at low speed.
- Shaking motion in various amplitude.
  - 12.7mm or 19.1mm for OS-2000
  - 19.1mm or 25.4mm for OS-3000
- Wide speed range even with heavy workload.
  - Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion.
- Best effort run function intelligently manages its rpm to keep shaking even workload is out of its capacity.
- Pleasant test environment by the smooth acceleration and deceleration control.
- Low-profile design minimizes vibration or sliding caused by the high speed shaking motion.

## Convenience

- User friendly control panel.
  - Lab Companion's unique VFD-bright, clear, easy to read.
  - Durable membrane touch switch and control knob.
- Easy-set digital timer. (1 min. to 999 hr. 59 min.)
- Repetitive task can be easily performed as the platform stops where it starts.
  - Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process.
- Speed is basically set and displayed in increments of 1 rpm. Also speed increment interval can be set among 1, 5, 10 rpm according to users preference.
- RS-232 port and USB port for external control and data collection.

## Safety

- Automatic run after power interruption.
- Shaking speed deviation alarm.
- Over-current protection, Stalled platform check.

Dual-action benchtop platform shakers accommodate flask up to 6L.

The most versatile shakers at a reasonable price offer an ideal solution for your mixing needs.



**REMOTE CONTROL**  
with your **MOBILE DEVICE**  
see page 8-9



## OS-3000

with optional dedicated platform

**Optional accessories**  
see page 158-159

- Rubber mats, Universal attachments
- Funnel clamps, Test tube racks
- Gateway

### Control panel



Model		OS-2000	OS-3000
Shaking system	Motion type	Orbital or Reciprocating motion selectable	
	Amplitude size (mm / inch, dia.)	19.1 / 0.8 (12.7 / 0.5 available)	19.1 / 0.8 (25.4 / 1 available)
	Speed range <sup>2)</sup> (rpm)	20 to 500	
	Accuracy	±1 % of set speed (>100rpm) / ±1 (≤100rpm)	
	Timer	1 min. to 999 hr. 59 min.	
Max. load (kg / lbs)		10 / 22.0 at 500 rpm in orbital shaking motion 8.5 / 18.7 at 500 rpm in reciprocating shaking motion	
Dimension	Platform (WxD) (mm / inch)	320x260 / 12.6x10.2	350x350 / 13.8x13.8
	Body <sup>1)</sup> (WxDxH) (mm/inch)	354x388x146/ 13.9x15.3x5.7	409x508x141/ 16.1x20x5.6
	Net weight (Kg / lbs)	22 / 48.5	28 / 61.7
Electrical requirements (230V, 50 / 60Hz)		0.3A	0.3A
Cat. No.		AAH3D1115K	AAH3D1215K
Electrical requirements (120V, 50 / 60Hz)		0.6A	0.6A
Cat. No.		AAH3D1165U	AAH3D1265U

1) Main body dimension without accessories.

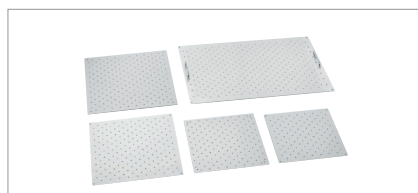
2) In case of operating at high speed (350 to 500 rpm), it is recommended to be fixed on the working surface.

\* Permissible environmental conditions: temperature (5-40°C) and relative humidity (up to 80%).

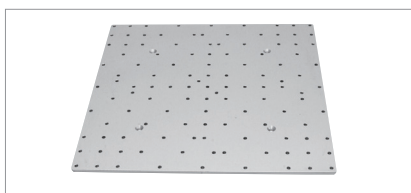
\* FDA establishment registered company. FDA listed products.

# Accessories & Options

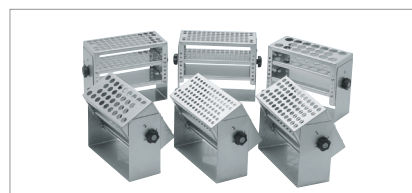
## for Open-air Shakers (OS models) / Mini Shaker



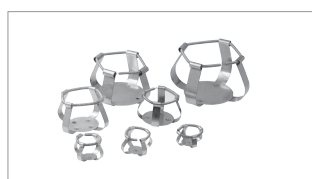
Universal platforms (OS models)



Universal platform (CMS-350)



Test tube racks



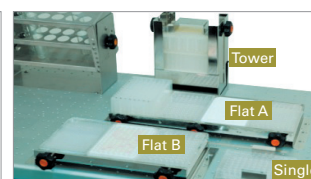
Flask clamps (stainless steel)



Flask clamps (plastic)



Funnel clamps



Microplate holders  
(universal platform is optional)

Description	Model	OS-2000	OS-3000	OS-4000	OS-7100 OS-7200	CMS-350	
		Platform size 320x260mm / 13.8x10.2"	350x350mm / 13.8x13.8"	450x450mm / 17.7x17.7"	755x520mm / 29.7x20.5"	276x276mm / 10.9x10.9"	
Universal platform		<b>AAA3A501-V2</b>	<b>AAA23501-V3</b>	<b>AAA23502-V3</b>	<b>AAA23503-V3</b>	<b>AAA3B501</b>	
Flask clamps (Stainless steel)	Erlenmeyer flask size	Max. mountable flask clamps					
	for 50 ml	<b>AAA23550</b>	20	36	49	88	16
	for 100 ml	<b>AAA23551</b>	16	28	39	68	9
	for 250 ml	<b>AAA23552</b>	8	14	24	39	9
	for 300 ml	<b>AAA23556</b>	8	14	24	39	9
	for 500 ml	<b>AAA23553</b>	6	10	16	28	5
	for 1L	<b>AAA23554</b>	3	6	9	18	4
	for 2L	<b>AAA23555</b>	-	4	6	11	1
	for 2.8L	<b>AAA23557</b>	-	3	5	8	-
for 4L	<b>AAA23558</b>	-	1	4	6	-	
for 6L	<b>AAA23559</b>	-	1	3	5	-	
Flask clamps (plastic)	Erlenmeyer flask size	Max. mountable flask clamps					
	for 50 ml	<b>AAA30570</b>	20	36	49	88	16
	for 100 ~ 125 ml	<b>AAA30571</b>	12	19	29	48	9
	for 200 ml	<b>AAA30572</b>	8	13	21	35	9
	for 250 ml	<b>AAA30573</b>	8	13	19	35	9
	for 300 ml	<b>AAA30574</b>	6	12	19	35	9
	for 500 ml	<b>AAA30575</b>	6	9	12	24	5
	for 1L	<b>AAA30576</b>	3	5	9	12	4
	for 2L	<b>AAA30577</b>	-	4	5	8	1
Funnel clamps	Separating funnel size	Max. mountable funnel clamps					
	for 250 ml	<b>AAA23562</b>	4	4	6	15	3
	for 500 ml	<b>AAA23563</b>	3	3	4	10	2
	for 1L	<b>AAA23564</b>	3	3	3	7	2
	for 2L	<b>AAA23565</b>	-	2	2	5	-
Test Tube Racks <sup>1)</sup>	Test tube size	Mountable capacity of racks					
	for 86 test tubes, ø8"	<b>AAA23581</b>					
	for 86 test tubes, ø10"	<b>AAA23582</b>					
	for 58 test tubes, ø12"	<b>AAA23583</b>					
	for 58 test tubes, ø14"	<b>AAA23584</b>					
	for 32 test tubes, ø17"	<b>AAA23585</b>	2	2	4	7	2
	for 19 test tubes, ø25"	<b>AAA23586</b>					
	for 10 test tubes, ø30"	<b>AAA23587</b>					
	for 10 test tubes, ø35"	<b>AAA23594</b>					
for 4 test tubes, ø50"	<b>AAA23593</b>						
Microplate holders	Microplate holders type	Max. mountable microplate holders					
	Single	<b>AAA23654</b>	6	8	15	25	6
	Tower	<b>AAA23651</b>	4	6	10	21	6
	Flat A (large)	<b>AAA23652</b>	-	-	2	4	-
	Flat B (small)	<b>AAA23653</b>	1	2	3	6	-

1) No declination.

\* Above accessories need to be mounted on a universal platform which is sold separately.

## for Open-air Shakers (OS models) / Mini Shaker



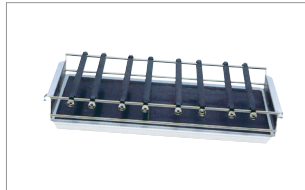
**Dedicated platform**  
(universal platform is optional)



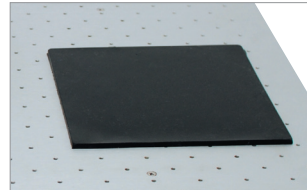
**Spring wire racks**  
(two tier rack with flexible crossed spring)



**Rubber mats**



**Universal attachment**



**Lab sticker (200x200, mm)**



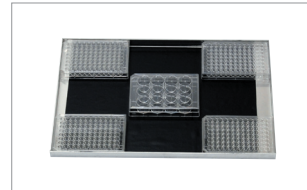
**Stage rack (OS models)**



**Rubber mat (CMS-350)**



**Dual stacking tray**



**Large tray**

Description		OS-3000	OS-4000	OS-7100 OS-7200
Dedicated platform	Universal platform +250ml flask clamps	AAA23611-V1	AAA23621-V1	AAA23634
	No. of flask clamps	14	24	39
	Universal platform +500ml flask clamps	AAA23613-V1	AAA23622-V1	AAA23635
	No. of flask clamps	10	16	28

※ A dedicated platform is sold with setting each max. mountable amount of flask clamps on.

## Gateway

Establish Jeio Tech Network by Gateway. No computer use is required at all. Remote monitoring of operating status through a device (Android only) is simply available when you place a Gateway in your laboratory. Maximum 4 units can be connected to Gateway by RS-232 cable.

Cat. No.	Description	Suitable for
AAAQ1011	Gateway (2.4GHz, 100~240V, 50/60Hz)	OS models

Description		OS-2000	OS-3000	OS-4000	OS-7100 OS-7200	CMS-350
Spring wire racks	-	AAA3A521	AAA31521-V1	AAA31522-V1	AAA23514	AAA3B511
	Erlenmeyer flask size	Max. inserting flasks				
	for 50 ml	15	16	25	45	15
	for 100 ml	9	9	16	28	9
	for 250 ml	4	4	9	18	4
	for 300 ml	4	4	9	18	4
	for 500 ml	4	4	5	15	4
	for 1L	2	2	4	10	2
for 2L	-	1	2	6	-	
for 2.8L	-	1	2	4	-	
Rubber mat		AAA3A531-V1	AAA31531	AAA31532	AAA23534	AAA38501
Universal attachments		AAA3A511-V1	AAA23511-V1	AAA23512-V1	AAA23505	AAA3B521
Lab sticker		AAA30551				
Dimpled mat		AAA3A532	-	-	-	AAA38502
Microplate tray	Dual stacking	AAA3A541	-	-	-	AAA3B531
	Large tray	AAA3A542	-	-	-	AAA3B532
Stage racks	4 stage rack	-	AAA31541-V1	AAA31542-V1	AAA31702-V1	-
	3 stage rack	-	-	-	AAA31703-V1	-