

## // For Test Tubes and Centrifuge Tubes

### ① Test tube sub-rack shaking rack (Type A shaking rack) : [Horizontal by SR-2DS]

This rack can hold two commercial sub-racks each for loading fifty  $\phi$ 18mm commercial test tubes, laid down horizontally. This rack is for horizontal shaking on the SR-2DS.

Inner dimensions	410×300×100Hmm
Weight	approx. 2.6kg



### ② Test tube shaking rack (Type C shaking rack) : [Horizontal / by SR-2DS]

This rack can hold a maximum of twenty  $\phi$ 10~37 × 100~120mm-long capped test tubes or centrifuge tubes (up to 12 tubes if longer). The rack is for horizontal shaking on the SR-2DS.

Outside dimensions	465×380mm
Weight	approx. 4.8kg



### ③ Test tube shaking rack for vertical and horizontal dual shaking (Type C half-size shaking rack) : [Horizontal / Vertical by SR-2DW/2DS]

This rack can hold a maximum of ten  $\phi$ 10~37 × 100~120mm-long capped test tubes or centrifuge tubes. The HE-3 separating funnel shaking rack is required for using this rack (cannot be loaded on the HE-5). This rack can be used for either vertical or horizontal shaking.

Outside dimensions	418×291mm
Weight	approx. 2.4kg



## ▲ For Erlenmeyer Flasks and Other Containers

### ④ Adapters dedicated to flasks (2 types): [Vertical by SR-2DW/2DS]

These adapters are designed for attaching an Erlenmeyer flask or bottle to a separating funnel shaking rack. Containers must have a flat bottom and a cap with an outside diameter that is the same as that of the adapter.

A type : Erlenmeyer flasks up to 300ml, measuring cylinder up to 200ml
B type : Bottle of PVC, GL-45 screw neck, water quality test etc.



### ⑤ Erlenmeyer flask shaking rack (Type B shaking rack) : [Horizontal by SR-2DS]

This rack is used for performing horizontal shaking on the SR-2DS. Erlenmeyer flasks can be shaken in both ways. As a standard, six 500ml flasks can be placed using the presser bars supplied with the rack (4 long and 6 short partition bars). Additional presser bars will be required if more flasks are to be loaded.

50ml Erlenmeyer flask	30	200ml Erlenmeyer flask	12	500ml Erlenmeyer flask	6
100ml Erlenmeyer flask	20	300ml Erlenmeyer flask	12	1L Erlenmeyer flask	4



## # Multi-purpose shaking rack

### ⑥ Spring net shaking rack (Type E shaking rack) : [Horizontal by SR-2DS]

This shaking rack offers the user a high degree of freedom. It accepts test tubes, Erlenmeyer flasks, or other containers, whatever their shape. The rack is for horizontal shaking on the SR-2DS (use at 100 r/min. or less.)

Outside dimensions	410×300×100Hmm
Weight	approx. 2.5kg



●None of the containers shown in the photos is supplied with the product.

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## Strong record of use in extracting samples for analysis TAITEC Strong Shakers for Separating Funnels

SEPARATELY FUNNEL SHAKER for EXTRACTION

## STRONG SHAKER SR-2DW/2DS

For liquid-liquid extraction  
of samples for analysis

For diverse agitation  
and mixing methods

For preparation of  
solid-phase extraction

- TAITEC's original *Silent Swing* mechanism reduces rasping mechanical noise.  
"The only one we couldn't silence was the splash."
- Suitable for validation with a digital timer.
- Simple ratchet type separating funnel holders keep a firm grip on the funnels.
- Accommodates any round, double-tube, or Squibb type separating funnel.
- A space-saving shaker that can simultaneously and stably shake up to 7.5kg in multiple separating funnels.



Quiet shaking through *Silent Swing*

Handles three types of  
separating funnels

Small size, but large capacity

Suitable for validation  
with a digital timer.

**SR-2DS SR-2DW**  
Single side Both vertical and horizontal Both sides Vertical only



# The Silent Swing ultralow noise shaking mechanism was finally achieved by TAITEC after years of development. This technology has attracted a significant number of customers to TAITEC's Strong Shaker separating funnel shaker.

## Powerful, quiet shaking through Silent Swing

TAITEC's original unique Silent Swing (SS) mechanism produces a powerful and yet quiet shaking operation.

**Shaking speed: 50~300 r/min.,  
amplitude: 40 mm.**

※100~300 r/min. for vertical shaking on the SR-2DS

**Approx. 50 dB (at 300 r/min.),  
approx. 45 dB (at 200 r/min.)**

※Strictly operating noise only, without containers and samples loaded.

Examples of noise in everyday life:



Strong Shaker  
corresponds here:  
Approx.  
**50~45dB**

## The separating funnel holder can securely fasten with minimal force.

The separating funnel holder is engineered to make it extremely easy to fasten. We have a line-up of a great many variations of holders to handle the three types of separating funnel-round type, double-tube type, and Squibb type-in all of their various sizes. For details, see the table "Shaking Racks and Attachable Number of Containers" on the right-hand page.

※The shaking racks and holders for our old product, the SR-2W/2S, can also be used on 9/16 New product.



## Strong Shaker SR-2DW/2DS

Model	SR-2DW	SR-2DS
Shaking methods	Reciprocating (Vertical only)	Reciprocating (Vertical/horizontal)
Amplitude	40mm	
Shaking speed	50~300r/min	50~300r/min / horizontal, 100~300r/min / vertical
Max loadable	approx. 7.5kg × two	approx. 7.5kg
Shaking control	Feedback control	
Display	Digital	
Motor	AC Induction motor (70W)	
Timer	Digital on-off timer	
Body size	410×760×500Hmm	410×585×500Hmm
Weight	approx. 57kg	approx. 49kg
Power supply	AC100V, 1A	

(\*) The shaker may not swing smoothly at 50~99 r/min.

●Other separating funnel shaking racks than the HE-3 are also available for optional purchase. For details, see the table "Shaking Racks and Attachable Number of Containers" on the right-hand page. Also see overleaf for shaking racks that are compatible with other containers than separating funnels.

●The containers shown in the photos are not supplied with the shaker.

More than **10,000** units  
have so far been supplied.



Both sides  
Vertical only

**SR-2DW**

(Loaded with the HE-3 separating funnel shaking rack)

## Able to handle a large volume of processing

This shaker is not only quiet, but it also offers sufficient loading capability.

※Compared with our former product, SR-2W/2S, the new shaker can handle 0.5kg more loading on each side.

Permissible loading (per side)

Approx. **7.5kg**

Examples of the attachable number of separating funnels.

For detail, see the table to the right  
Max. 3 per side if 1L  
Max. 2 per side if 2L  
Max. 5 per side if 200ml



Single side  
Both vertical and horizontal

**SR-2DS**

(Loaded with the HE-3 Separating Funnel Shaking Rack)

## CHECK!!

■Although the SR-2DS holds only half the number of containers that can be loaded onto the SR-2DW, it can perform horizontal shaking when it is turned by 90° and laid on its side (the operation panel also can be rotated by 90°).

■When the shaker is positioned for horizontal shaking, various types of optional shaking racks can be used.

■For shaking racks other than those for separating funnels, see overleaf.



## Usability improved through digitization; validation made easy

The shaker comes equipped with a digital timer-an important element from the viewpoint of validation. While the shaker is operated with the timer, it indicates both the preset time and the elapsed time (countdown), and the shaking time can be temporarily suspended when the shaker is switched off. Even when the timer is not used, the shaker indicates cumulative time, so you can always check the shaking time.



## Examples of use for the digital timer

■Use of the timer allows intermittent shaking to be conducted. The timer can be set, for example, to a repeating cycle of 30 minutes of shaking → 5 minutes of pause → 30 minutes of shaking → 5 minutes of pause, for as long as necessary. (Timer and start-time are set when the shaker is stopped, as illustrated below.)



■Set the timer right before leaving the lab for the day so that the shaking will begin whenever you want it to. You can then stop the shaking as soon as you arrive at the lab the next morning and then move straight on to the next process.



## Separate funnel holder / holder qty.

Model	Round	Double-tube	Squibb type	Qty
HE-3	50ml~1L	—	50ml~1L	3
	2L	—	—	2
HE-3W	100ml~1L	100ml~1L	100ml~1L	3
	2L	2L	—	2
HE-5	50~200ml	—	50~200ml	5
	300ml~500ml	—	300ml~500ml	3
	1L, 2L (*)	—	1L	2
HE-5W	100~200ml	100~200ml	100~200ml	5
	300ml~500ml	300ml~500ml	300ml~500ml	3
	1L	—	1L	2
FU-1R	100ml~3L	—	100ml~2L	1
FU-2S	100ml~2L	—	100ml~2L	2
FU-3S	100ml~1L	—	100ml~1L	3
	2L	—	2L	2

(\*) In the case of 2L, the maximum liquid volume is 500ml.

●The attachable number is restricted by the size and mass of the separating funnels. For example, the HE-3 has three holders, but when using 2L round type separating funnels, the attachable number is limited to two (the center holder cannot be used in this case).

●Operate the SR-2DW with two identical shaking racks loaded.

●Holders for the separating funnel shaking racks are also available for separate purchase.

## Outline Diagrams

