



Mixer Rotator Stirrer

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Selection guide

Constant temperature incubator shaker

CO₂ incubator shaker

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic homogenizer

Aluminum block bath Minisize bath

Water bath Shaking water bath Immersion cooler

Hybridization oven Constant temperature chamber

Centrifugal concentrator Cold trap

Freeze dryer

Electrophoresis and blotting apparatus

Constant temperature water circulating system [Chiller]

Appendix

Our proprietary technology "Delta balance" prevents Mixer be moved around during operation.
The user-friendly mixer that offers an excellent stirring and stability that was developed by customer's request.

Test tube Mixer

Delta Mixer Se-08



Delta Mixer Se-04

**"TAITEC Test tube Mixer "Never be moving around".**

Page	Model	Capacity
P.080	Se-08	<ul style="list-style-type: none"> •Hand-held stirring Microtubes and 50ml in Centrifuge tubes •Stirring with Microtubes fixed 8pcs x 0.5ml + 8pcs x 1.5/2.0ml
P.080	Se-04	<ul style="list-style-type: none"> •Hand-held stirring Microtubes and 50ml in Centrifuge tubes •Stirring with Microtubes fixed 4pcs x 0.5ml + 4pcs x 1.5/2.0ml

Rotating Incubator

Rotator RT-5/50



Rotator RT-30mini

**Suitable for ImmunoPrecipitation and cultivation in a low temperature room and incubator.**

Page	Model	Capacity
P.081	RT-5	<ul style="list-style-type: none"> •Vessel holders is an option 1.5mLmicrotube, 2.0mLmicrotube φ13 to 15mm tube, 15mLcentrifuge tube, 50mLcentrifuge tube φ18mm×110mm test tube, φ25mm×110mm test tube 100mLErlenmeyer flask, 200mLErlenmeyer flask φ25mm×50mm vial
P.081	RT-50	
P.081	RT-30mini	<ul style="list-style-type: none"> •Vessel holders is an option 1.5mLmicrotube, 2.0mLmicrotube, 15mL/50mL centrifuge tube

Planetary centrifugal stirrer

GR-5

**Planetary centrifugal stirring that has strong stirring force and easily restituted from deviation of stir bars.**

Page	Model	Capacity
P.082	GR-5	<ul style="list-style-type: none"> •to 500mLErlenmeyer flask

**[Delta balance]**

We developed three legs and triangle body to realize for customer's request "Desired a mixer that never be moving around". We got the result that Mixer was not moved around on slippery plane and slope that were painted with oil.

**[Miracle Head]**

Our original Miracle Head where plural Microtubes can be fixed (The numbers differ depends on the models). Enables to Hand-held stirring of 50mL (Liquid volume approx. 30mL) Centrifuge tubes smoothly.

	Features	Applications	Stirring motion	Vibration speed	Page
	<ul style="list-style-type: none"> •"Delta balance" prevents Mixer be moved around during operation. •Hand-held stirring and "Miracle head" that holds Microtubes •Operation mode by touch switch. Stirring strength adjustment 	<ul style="list-style-type: none"> •Mixing-stirring of samples and reagents •Promotion of various reactions by stirring •Crushing of fungal etc. with beads. 	•Horizontal eccentric	<ul style="list-style-type: none"> •Up to 2800r/min (Strength adjustment) 	P.080
	<ul style="list-style-type: none"> •"Delta balance" prevents Mixer be moved around during operation. •Hand-held stirring and "Miracle head" that holds Microtubes 			<ul style="list-style-type: none"> •Approx. 2800r/min (Fixed) 	P.080

	Features	Applications	Ambient temperature	Rotational speed/Angle variable range	Page
	<ul style="list-style-type: none"> •Can be operated certainly in refrigerators and low temp. room •Vessel holders is an option 	<ul style="list-style-type: none"> •ImmunoPrecipitation in refrigerators or cold room •Extraction of Genomic DNA •Culture of Microbe and Plant cells in incubators 	•4°C to 50°C	<ul style="list-style-type: none"> •0.5 to 5r/min •0° to 90° 	P.081
	<ul style="list-style-type: none"> •Ultra-small size that can be carried with one hand •Can be operated certainly in refrigerators and low temp. room •Vessel holders is an option 		•0°C to 50°C	<ul style="list-style-type: none"> •3 to 30r/min •0° to 90° 	P.081

	Features	Applications	Stirring motion	otational speed	Page
	<ul style="list-style-type: none"> •Suitable for volatile substance elution of soil elution testing •Stirring of five 500 mL Erlenmeyer flasks simultaneously •Excellent stirring with Planetary centrifugal motion. Equipped with 6-hour operation timer. 	<ul style="list-style-type: none"> •Elution of volatile substances in soil dissolution test •Stirring of some liquid containing pebbles, gravel, and particulates. •Various dissolution testing, mixing-stirring of samples and reagents 	Proprietary planetary centrifugal stirring using Stir bar	•100 to 1200r/min	P.082

Delta Mixer Se-04/Se-08

Our proprietary technology "Delta balance" prevents Mixer be moved around during operation. The user-friendly mixer that offers excellent stirring and stability that developed by customer's request.

Stirring Microtube and Well plate "Micro mixer E-36" --> P.061 Crusher "Beads crusher" series --> P.086-087



Se-04

Se-08

Features

- "Delta balance" prevents Mixer be moved around during operation.
- Hand-held stirring and "Miracle head" holds Microtubes
- Operation mode by touch switch. Stirring strength adjustment [Se-08]

Applications

- Mixing-stirring of samples and reagents
- Promotion of various reactions by stirring
- Crushing of fungal etc. with beads.

Well-balanced Mixer that not be moved around thanks to Delta balance.

We developed three legs and triangle body to realize for customer's request "Desired a mixer that not be move around". We got the result that Mixer was not moved around on slippery plane and slope that were painted with oil.



"Soft touch switch for stirring" and "Continuous stirring" switched [Se-08]

Between Touch switch "turns on/off when the head is lightly pressed and Continuous stirring can be switched. Touch switch was designed for optimal sensitivity to start with a light touching.

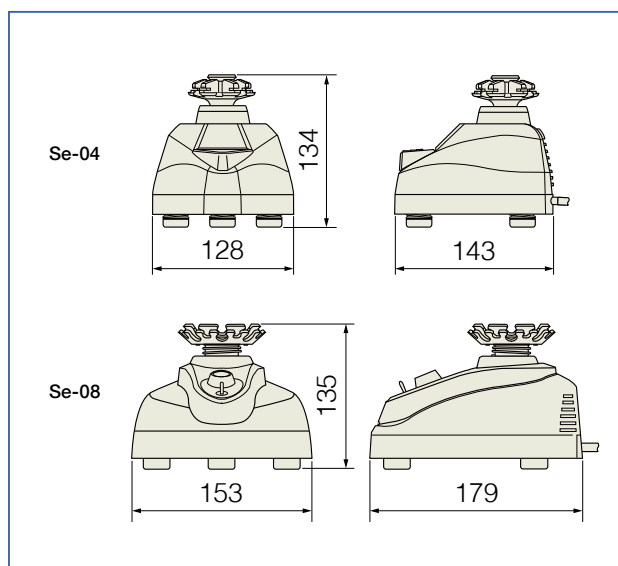


Microtubes can be fixed to "Miracle Head"

Our original Miracle Head enables smoothly hand-held stirring of 15ml and 50ml Centrifuge tubes and also Microtubes on the center of head. Up to 30ml out of 50ml in Centrifuge tubes can be stirred for sure. Microtubes can be fixed to the periphery of Miracle Head. Useful for long-time stirring.



Dimensions



Model	Se-04	Se-08
Stirring motion	Horizontal eccentric	
Vibration speed (*1)	Approx. 2800r/min (Fixed)	Up to 2800r/min (Strength adjustment)
Operation mode	Continuously	Switching Touching mode/Continuously
Capacity	Hand-held stirring Microtubes and 50ml in Centrifuge tubes (*2) Stirring with Microtubes fixed Se-04: 4pcs x 0.5ml + 4pcs x 1.5/2.0ml Se-08: 8pcs x 0.5ml + 8pcs x 1.5/2.0ml	
Ambient temperature	5°C to 35°C	
Dimensions (W x D x H)	128 x 143 x 134mm (Miracle Head included)	153 x 179 x 135mm (Miracle Head included)
Weight	Approx. 2kg (Miracle Head included)	Approx. 3kg (Miracle Head included)
Power supply	AC100V/0.5A	
Standard accessories	1 x Miracle Head 04	1 x Miracle Head 08

(*1) The value at 50Hz. The value at 60Hz is under 3300r/min in Se-08.

(*2) Up to 30ml out of 50ml in Centrifuge tubes can be stirred for sure.

Rotator RT-30mini/RT-5/RT-50

Inverting stir of Microtubes and centrifuge tubes. Rotates test tubes and vials. Suitable for ImmunoPrecipitation and cultivation in a low temperature room and incubator. Custom-made holders are available.

"Hybridization incubators" Inverting stir with temperature control. --> P.134 Constant temperature chambers --> P.138-140

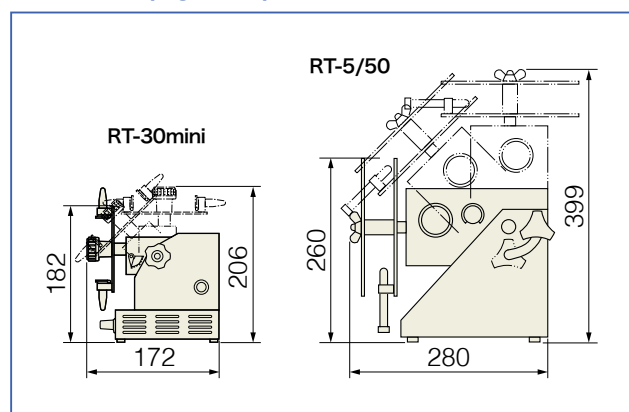
Features

- 3 models by difference in capacity and speed. 30mini is ultra-small size.
- The secure operation even inside refrigerators and low temp. room.
- Vessel holders available as an option

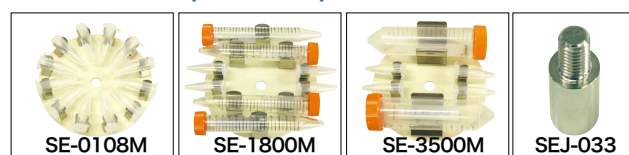
Applications

- ImmunoPrecipitation in refrigerators or cold room
- Extraction of Genomic DNA
- Culture of Microbe and Plant cells in incubators

Dimensions (Right side)



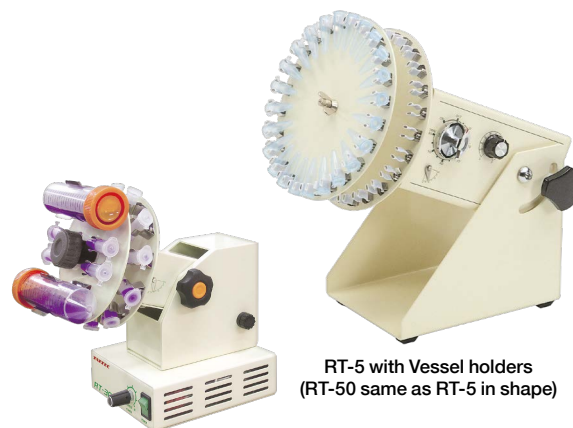
Optional accessories for RT-30mini: Vessel holders (dia.115mm)



[The combinations of holders (2pcs) are three ways as follows.]
Attach SE-0108M firstly and any holder with SEJ-033.



Model	Vessels / Capacity / Remarks
SE-0108M	1.5/2.0mL microtubex12, Rotate (Inverting stir)
SE-1800M	15mL centrifuge tubex4+1.5/2.0mL microtubex4, Rotate (Inverting stir)
SE-3500M	50mL centrifuge tubex2+1.5/2.0mL microtubex4, Rotate (Inverting stir)
SEJ-033	Joint parts for the combination of two holders



RT-30mini with Vessel holders (Option)

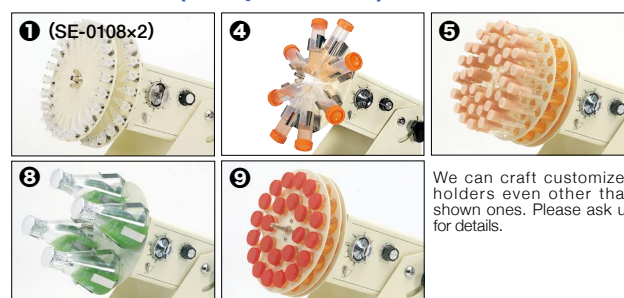
RT-5 with Vessel holders (RT-50 same as RT-5 in shape)

We can craft customized holders compatible with your vessels.

Model	RT-30mini	RT-5	RT-50
Rotational speed	3 to 30r/min	0.5 to 5r/min	5 to 50r/min
Angle variable range	0°to 90°		
Ambient temperature	0°C to 50°C	4°C to 50°C	
Dimensions	120(W) x 172(D) x 182(H)mm (*1)	200(W) x 280(D) x 260(H)mm (*2)	
Weight	Approx. 2kg	Approx. 4kg	
Power supply	AC100V/0.1A	AC100V/1A	
Standard accessories	1 x Angle pointer, 1 x Fixed knob for holders, 1 x Fixed packing for holders, 1 x Spacer (RT-5/50)		

(*1) When 1pc of holder is attached at tilt angle 0° (*2) When 2pcs of holder are attached at tilt angle 0°
CTwo kinds of vessels holder for RT-30mini and RT-5/RT-50 available as an option.

Optional accessories for RT-5/50: Vessel holders (dia. up to 200mm)



We can craft customized holders even other than shown ones. Please ask us for details.

Model	Vessels / Capacity / Remarks
SE-0108	1.5/2.0mL microtubex24, Rotate (Inverting stir)
SE-1315	φ13-15mm tubex24, Rotate (Inverting stir)
SE-1800	15mL tube (φ17x120Lmm)x16, Rotate (Inverting stir)
SE-3500	50mL tube (φ29x115Lmm)x8, Rotate (Inverting stir)
SA-1811	φ18mmx110mm test tubex41, Rotate (Rotation)
SA-2511	φ25mmx110mm test tubex24, Rotate (Rotation)
SC-0100	100mL Erlenmeyer flaskx5, Rotate (Rotation)
SC-0200	200mL Erlenmeyer flaskx4, Rotate (Rotation)
SD-2550	φ25mmx50mm vialx24, Rotate (Rotation)

Planetary centrifugal stirrer for volatile substance elution GR-5

Magnetic stirrer suitable for the volatile substance elution operation in the soil elution testing. Planetary centrifugal stirring with strong stirring force that easily restitutes from deviation of stir bars.

"TS-10/20" for Elution of harmful metals from soil. --> P.075-076



Planetary centrifugal stirring that has strong stirring force and easily restituted from deviation of stir bars.

Proprietary Planetary centrifugal stirring that exerts high stirring force compared to ordinary stirrers. Even if the stirrer is repelled and deviated by particulate waste, gravel, etc. it will be automatically restituted reliably in standard use (adjustment volume 6 to 7).



Proprietary Planetary centrifugal stirring

How to attach vinyl tube to stir bar

Cut the tube so that both ends come out slightly and put it on the stir bar.



Features

- Suitable for volatile substance elution of soil elution testing
- Stirring of five 500 mL Erlenmeyer flasks simultaneously
- Excellent stirring with Planetary centrifugal motion. Equipped with 6-hour operation timer.

Applications

- Elution of volatile substances in soil dissolution test
- Stirring of some liquid containing pebbles, gravel, and particulates.
- Various dissolution testing, mixing-stirring of samples and reagents

Model	GR-5
Rotational speed	100 to 1200r/min
Capacity	Max. 5 (5 positions) x Erlenmeyer flask
Rotation/Revolution rate	10:1
Timer	6-hour Timer for the operation (Buzzer is rung when the finish.)
Platform size	408 x 312mm
Dimensions	424(W) x 338(D) x 171(H)mm
Weight	Approx. 12.5kg
Power supply	AC100V/1A
Standard accessories	Acrylic guide, 5 x Stir bar, Vinyl tube (*)

(*) Be sure that the vinyl tube should be attached to stir bar for use so that the unit can last long time. Recommended that the stir bars are replaced regularly.

Optional accessory

Model	Remarks
Stir bar for GR-5	Stir bar length: 36mm, 1pc

Dimensions

