

BATHS

SHAKERS

STIRRERS

HOTPLATES

INCUBATORS

HEATING  
MANTLES



# SHAKERS

# BENCHTOP PLATFORM ORBITAL SHAKERS

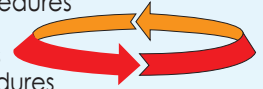
## BenchTop Platform Shakers:



MRC orbital shakers are for shaking in ambient conditions on the bench or in incubator or warm room or cool room. These shakers are available in three models. Model TOS-4030PD - flat platform shaker, model TOS-4030TD universal platform shaker and model TOS-4030FD flask clamps platform shaker. Platform can be easily removed and replaced by opening the four screws on the center of the platform. Model TOS-4030FD platform can accommodate a mix of flask clamps. A powerful, quiet, space saving, reliable, either for gentle shaking of liquids or vigorous mixing of materials. Maintenance free, the tray is proof against aggressive liquids. Flexible platform system. All kinds of dishes can be placed on the platforms: beakers, erlenmeyer flask, test tube racks etc. All models feature a large easy to read LED display. A specific run time can be entered or continuous running can be selected. These medium size orbital shakers are well engineered & provide smooth operation when under maximum load and speed. The top tray of each model has threaded holes to accommodate flask holders from 50ml to 6000ml.

## Applications:

- Cell cultures
- Bacterial suspensions
- Solubility studies
- Staining
- Extraction procedures
- Destaining
- Diagnostic tests
- Washing Procedures
- General Mixing
- Hybridization



## Features:

- Triple eccentric drive enables continuous 24-hours operation, handles heavier loads and provides smooth uniform agitation of full or unbalanced loads even at high speeds.
- Units operate in temperature range of 4 to 40°C and humidity conditions from 20 to 80% non condensing enabling them to be used in incubators, warm rooms, environmental chambers and refrigerators.
- Easy to adjust speed up to 300rpm.
- Easy to adjust timer up to 9999 minutes.
- Memory of speed when power cut.



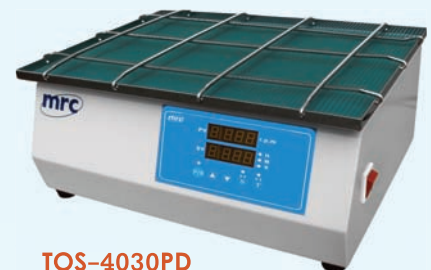
Optional: Universal spring tray for TOS-4030FD



Optional: Frame Holder



Optional: Tube Holders



TOS-4030PD

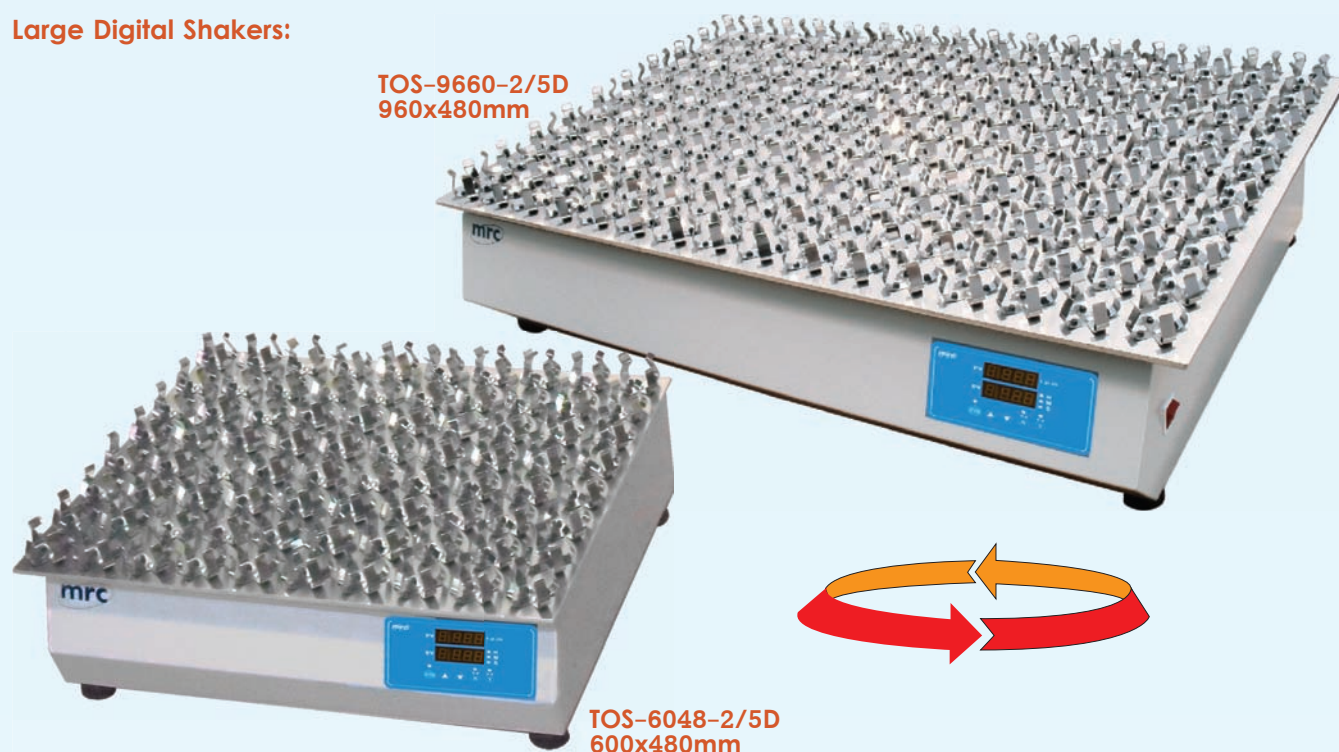
Model	TOS-4030PD	TOS-4030FD	TOS-4838FD	TOS-6048FD
System shaking	Orbital			
Speed range	20-300 rpm			
Shaking orbit	25m			
Shaking plate (mm)	W400xD300		W480xD380	W600xD480
Outside DIM. (mm)	W400xD330xH165		W480xD380xH165	W600xD480xH210
Shaking plate	Plate	Flask rack	Flask rack	
Power supply	110/220V, 60/50Hz (1A)			
Weight	11kg	12kg	18kg	25kg

## Accessories:

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000	111-1-113000	111-1-114000	111-1-115000	111-1-116000
Model/flask clamps	50ml	125ml	250ml	500ml	1000ml	2Liter	3Liter	4Liter	5Liter	6Liter
TOS-4030F Capacity	35	20	12	6	4	2	1	1	-	-
TOS-4838F Capacity	48	30	20	12	6	4	2	2	1	1
TOS-6048F Capacity	80	48	30	20	12	6	6	4	2	2

# LARGE DIGITAL ORBITAL SHAKERS

## Large Digital Shakers:



**TOS-9660-2/5D**  
960x480mm

**TOS-6048-2/5D**  
600x480mm

MRC large open air shakers designed to uniformly shake hundreds of samples, day-in & day-out, under the extreme conditions of an environmental room. New engineering concepts in load balancing minimize stress & vibrations, even when fully loaded & running at the maximum speed. Accepts hundreds of samples on up to 2 accessory platforms. As pictured, platforms have easy access to all glassware, & lock in place without tools. Maintenance free, the tray is proof against aggressive liquids. A powerful, quiet, reliable, either for gentle shaking of liquids or vigorous mixing of materials. Optional: Digital speed control.

### Unique Advantage:

Precisely balanced, extremely stable shaker mechanism with massive cast-iron base need not be bolted to the floor.

Four large capacity Orbital Shakers available. Both are well engineered and have heavy duty orbital mechanisms that provide smooth operation when under maximum loading and speed. The top plate is 6mm aluminium and has tapped holes to accommodate flask holders from 50ml up to the heavy flasks sizes: 1 Liter to 6 Liter. Both models can carry a maximum load of 40kg. Both models feature an easy to use digital control with speed and timer display and are attractively finished in a durable grey powder coating. A specific run time can be entered or continuous running can be selected.

### Optional: Tube Holders



**FLASK HOLDERS**

Model	TOS-6048-2D	TOS-6048-5D	TOS-9660-2D	TOS-9660-5D
Shaking system	Orbital			
Speed range	30-400 rpm	20-250 rpm	30-400 rpm	20-250 rpm
Shaking orbit	25 mm	50 mm	25 mm	50 mm
Shaking plate	W600xD480		W960xD600	
Outside dimensions (mm)	W600xD480xH210		W960xD600xH210	
Weight	63 kg		75 kg	

### Accessories:

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000	111-1-113000	111-1-114000	111-1-115000	111-1-116000
Flask clamps	50ml	125ml	250ml	500ml	1000ml	2Liter	3Liter	4Liter	5Liter	6Liter
TOS-6048-2/5 Capacity	80	48	30	20	12	6	6	4	2	2
TOS-9660-2/5 Capacity	160	96	60	40	24	15	8	8	6	6

# DOUBLE PLATFORM LARGE ORBITAL SHAKERS

## Double Platform Large Orbital Shakers



**TOS-6048D-2/5D**  
600x480mm



**TOS-9660D-2/5D**  
960x480mm



MRC large open air shakers designed to uniformly shake hundreds of samples, day-in & day-out, under the extreme conditions of an environmental room. New engineering concepts in load balancing minimize stress & vibrations, even when fully loaded & running at the maximum speed. Accepts hundreds of samples on up to 2 accessory platforms. As pictured, platforms have easy access to all glassware, & lock in place without tools. Maintenance free, the coated tray is proof against aggressive liquids. A powerful, quiet, reliable, either for gentle shaking of liquids or vigorous mixing of materials. Optional: Digital speed control.

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are well engineered and have heavy duty orbital mechanisms that provide smooth operation when under maximum loading and speed. The top plate is 6mm aluminium and has tapped holes to accommodate flask holders from 50ml up to the heavy flasks sizes: 1 Liter to 6 Liter. Both models feature an easy to use digital control with speed and timer display and are attractively finished in a durable grey powder coating. A specific run time can be entered or continuous running can be selected.



Model	TOS-6048D-2D	TOS-6048D-5D	TOS-9660D-2D	TOS-9660D-5D
Shaking system	Orbital			
Speed range	30-400 rpm	20-250 rpm	30-400 rpm	20-250 rpm
Shaking orbit	25 mm	50 mm	25 mm	50 mm
Shaking plate	W600xD480 Double		W960xD600 Double	
Outside dimensions (mm)	W600xD480xH560		W960xD600xH560	
Weight	75 kg		95 kg	

### Accessories:

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000
Flask clamps	50ml	125ml	250ml	500ml	1000ml	2Liter
TOS-6048D-2/5 Capacity	160	96	60	40	25	15
TOS-9660D-2/5 Capacity	320	192	120	80	48	30



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 Website: www.mrcrlab.com E-mail: mrc@mrcrlab.com  
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 Factory: 19 Marconi St. Haifa 31250 Israel

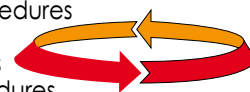


**BenchTop Platform Shakers:**



**Applications:**

- Cell cultures
- Bacterial suspensions
- Solubility studies
- Staining
- Extraction procedures
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- General Mixing
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**Features:**

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- Units operate in temperature range of 4 to 40°C and humidity conditions from 20 to 80% non condensing enabling them to be used in incubators, warm rooms, environmental chambers and refrigerators.
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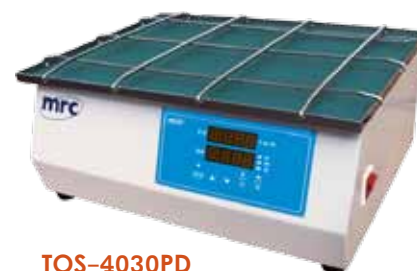
The top tray of each model has threaded holes to accommodate flask holders from 50ml to 6000ml.



**Optional: Universal spring tray for TOS-4030FD**



**Optional: Frame Holder**



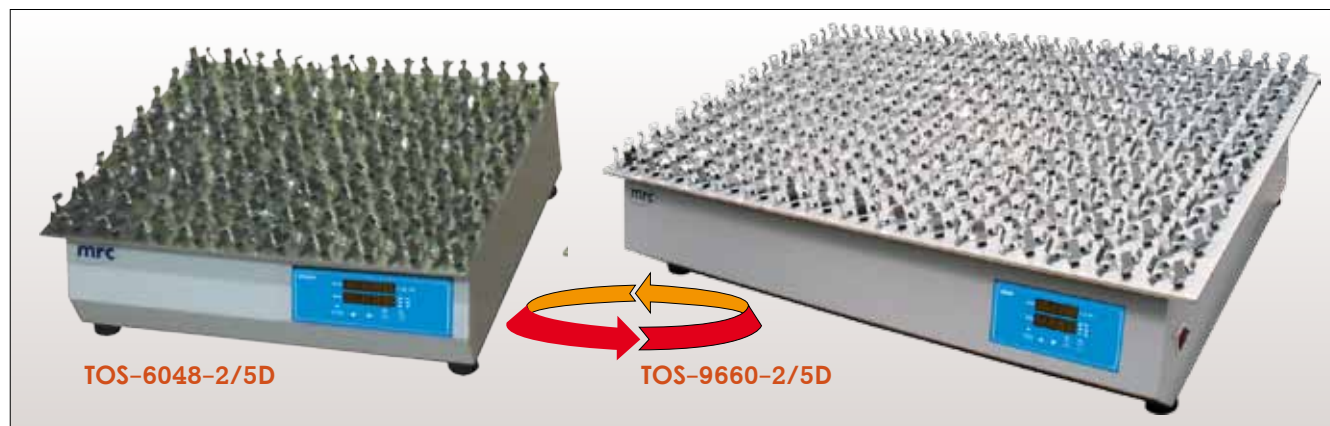
**TOS-4030PD**

Model	TOS-4030PD	TOS-4030FD	TOS-4838FD	TOS-6048FD
System shaking	Orbital			
Rate of shaking	20-300 rpm			
Shaking width	25m			
Shaking plate (mm)	W400xD300		W480xD380	W600xD480
Outside DIM. (mm)	W400xD330xH165		W480xD380xH165	W600xD480xH210
Shaking plate	Plate	Flask rack	Flask rack	
Power supply	110/220V, 60/50Hz (1A)			
Weight	11kg	12kg	18kg	25kg

**Accessories:**

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000	111-1-113000	111-1-114000	111-1-115000	111-1-116000
Model/flask clamps	50ml	125ml	250ml	500ml	1000ml	2Liter	3Liter	4Liter	5Liter	6Liter
TOS-4030F Capacity	35	20	12	6	4	2	1	1	-	-
TOS-4838F Capacity	48	30	20	12	6	4	2	2	1	1
TOS-6048F Capacity	80	48	30	20	12	6	6	4	2	2

## Heavy Duty Platform Shakers



MRC large open air shakers designed to uniformly shake hundreds of samples, day-in & day-out, under the extreme conditions of an environmental room. New engineering concepts in load balancing minimize stress & vibrations, even when fully loaded & running at the maximum speed. Accepts hundreds of samples on up to 2 accessory platforms. As pictured, platforms have easy access to all glassware, & lock in place without tools. Maintenance free, the coated tray is proof against aggressive liquids. A powerful, quiet, reliable, either for gentle shaking of liquids or vigorous mixing of materials. Optional: Digital speed control.

**Unique Advantage:**

Precisely balanced, extremely stable shaker mechanism with massive cast-iron base need not be bolted to the floor. Four large capacity Orbital Shakers available. Both are well engineered and have heavy duty orbital

mechanisms that provide smooth operation when under maximum loading and speed. The top plate is 6mm aluminium and has tapped holes to accommodate flask holders from 50ml up to the heavy flask sizes: 1 Liter to 6 Liter. Both models can carry a maximum load of 40kg. Both models feature an easy to use digital control with speed and timer display and are attractively finished in a durable grey powder coating. A specific run time can be entered or continuous running can be selected.



FLASK HOLDERS

**Optional: Tube Holders**

Model	TOS-6048-2D	TOS-6048-5D	TOS-9660-2D	TOS-9660-5D
<b>Shaking system</b>	Orbital			
<b>Rate of shaking</b>	30-400 rpm	20-250 rpm	30-400 rpm	20-250 rpm
<b>Shaking width</b>	25 mm	50 mm	25 mm	50 mm
<b>Shaking plate</b>	W600xD480		W960xD600	
<b>Outside dimensions (mm)</b>	W600xD480xH210		W960xD600xH210	
<b>Weight</b>	63 kg		75 kg	

**Accessories:**

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000	111-1-113000	111-1-114000	111-1-115000	111-1-116000
<b>Flask clamps</b>	50ml	125ml	250ml	500ml	1000ml	2Liter	3Liter	4Liter	5Liter	6Liter
<b>TOS-6048-2/5 Capacity</b>	80	48	30	20	12	6	6	4	2	2
<b>TOS-9660-2/5 Capacity</b>	160	96	60	40	24	15	8	8	6	6



DOR-2828

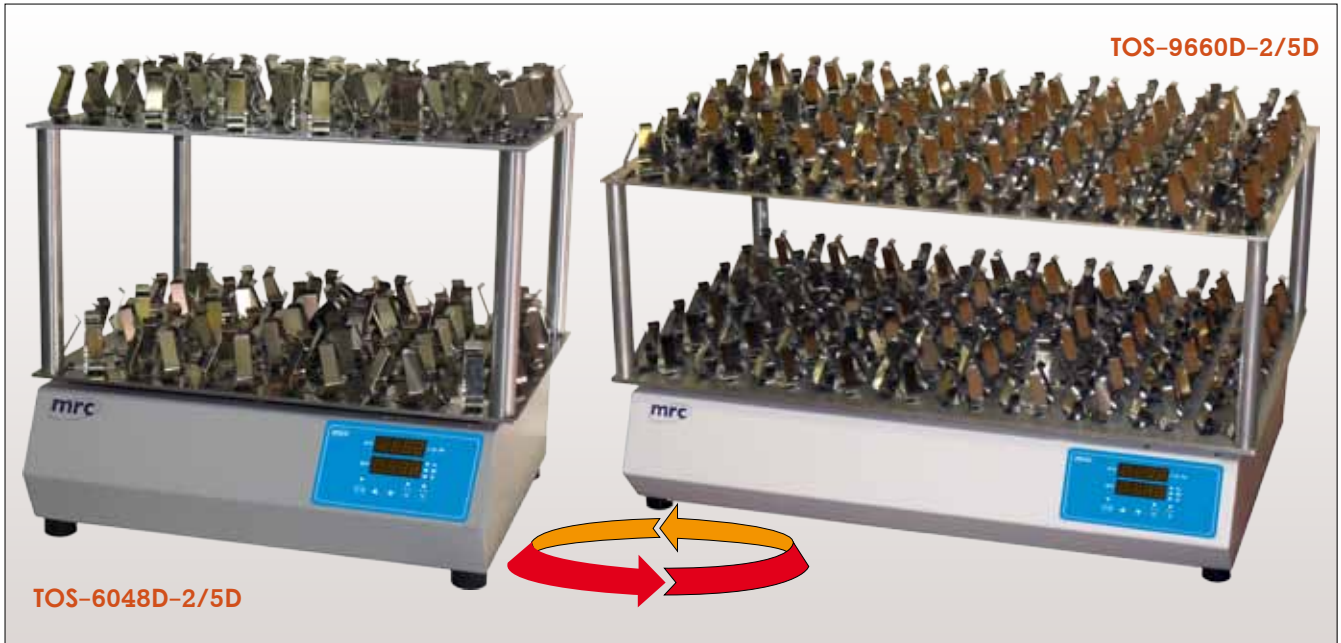
DOR-2828D

- Wide used in VDRL, PRP, and EIA test.
- Stable and quiet Operation.
- Simple and digital type for your options.
- With variable speed, timer control, and continuous operation.
- Quality certification: ISO 9001, ISO 13485.

**DOR-Series, Small Orbital Shakers**

Model	DOR-2828	DOR-2828D
<b>Speed</b>	40~240 rpm	
<b>Timer</b>	0~30 min. mechanical timer	99 hours & 59 minutes digital timer
<b>Display</b>	No display	Digital display for present speed value & remaining time
<b>Platform size (mm)</b>	W280xD280	
<b>Orbit diameter</b>	20 mm	
<b>Load capacity</b>	2.0kgs at the speed from 20-150rpm; 1.0kgs at the speed from 151-240rpm	
<b>Standard accessory</b>	1 pc of spring	
<b>Size (mm)</b>	W280xD295xH140	W280xD295xH140
<b>Weight (N.W/G.W)</b>	4.0/4.8kg	4.2/5.0kg

Double Platform Large Orbital Shakers



MRC large open air shakers designed to uniformly shake hundreds of samples, day-in & day-out, under the extreme conditions of an environmental room. New engineering concepts in load balancing minimize stress & vibrations, even when fully loaded & running at the maximum speed. Accepts hundreds of samples on up to 2 accessory platforms. As pictured, platforms have easy access to all glassware, & lock in place without tools. Maintenance free, the coated tray is proof against aggressive liquids. A powerful, quiet, reliable, either for gentle shaking of liquids or vigorous mixing of materials. Optional: Digital speed control.

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heavy flask sizes: 1 Liter to 6 Liter. Both models feature an easy to use digital control with speed and timer display and are attractively finished in a durable grey powder coating. A specific run time can be entered or continuous running can be selected.

Reliable, day after day operation, user friendly operation, 960x480mm double platform.



This space saving two stage shakers enable to shake 2 platform simultaneously. 600 x 480mm double platform.



Model	TOS-6048D-2D	TOS-6048D-5D	TOS-9660D-2D	TOS-9660D-5D
Shaking system	Orbital			
Rate of shaking	30-400 rpm	20-250 rpm	30-400 rpm	20-250 rpm
Shaking width	25 mm	50 mm	25 mm	50 mm
Shaking plate	W600xD480 Double		W960xD600 Double	
Outside dimensions (mm)	W600xD480xH560		W960xD600xH560	
Weight	75 kg		95 kg	

Accessories:

Model	111-1-110050	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000
Flask clamps	50ml	125ml	250ml	500ml	1000ml	2Liter
TOS-6048D-2/5 Capacity	160	96	60	40	25	15
TOS-9660D-2/5 Capacity	320	192	120	80	48	30

## SI-1501, SI-1601, SI-1701, Orbital Shaker



SI-1501

SI-1601

SI-1701

- Choice of THREE different units depending on preferred platform.
- Variable shaking speed with orbit REVERSING.
- Fully programmable - time, reversing time, and acceleration/deceleration rates.
- Create any mixing action from a smooth vortex to sloshing aeration (or anything in between).
- Equipped with stepper motor, delivering exceptional speed control, accuracy, and durability.
- Timer displays time or, when programmed to a defined limit, will shut off the unit.
- May be used in cold room or incubator and CO<sub>2</sub> environments.

## Platform Options:



Orbital-Genie With Universal Ratcheting Clamps provides the flexibility for using a mix of different size and shape vessels on a single platform. Unit is supplied with two ratcheting and one non ratcheting cushioned clamps. Extra ratcheting clamps for more than two rows of smaller vessels are optional.



Orbital-Genie With Adhering Mat provides a flat platform with adhering rubber mat perfect for use with open containers. Patented material is naturally adhering. Rinse clean to renew adhering properties.



Orbital-Genie For Standard Flask Clamps is equipped with a platform for accepting various size flasks or beakers. Clamps sold separately.



**Accessories: Flask Clamps** (for SI-1601) are of stainless steel construction for added strength and safety. Mix & match different size clamps on same platform or all same size (capacity is indicated). Includes mounting screws. Note: Flask Clamps can also be used on SI-1701 by removing the blue Adhering Mat.





**Double Sided Adhesive Tape & Adhering Mat** (for SI-1601 or SI-1701) are alternatives to flask clamps for securing vessels to shaker platform. Both are ideal for containers such as bottles and dishes that cannot be held with conventional clamps. Note: Tape and Mat cannot be used on SI-1501.

Model	SI-1501	SI-1601	SI-1701
Speed	10-300 RPM including Stir Reverse		
Timer	1 min - 99 hours w/Alarm or Continuous		
Orbit	35mm dia.		
Selectable Ramp Rates	10 - 100 RPM/sec		
Platform Dimensions (DxW)	460x460 mm		
Overall Dimensions (DxW)	590x500mm		

**KOS/KCS-3333, KOS/KCS-3016, Orbital & Linear Shakers**



Orbital and Linear Digital Shakers provide smooth and quiet motions for mixing in culture dishes, flasks and beakers.

- Compact, orbital and Linear shakers with ideal shaking motion, for a maximum shaking weight of 7.5kg and 2.5kg
- LCD displays speed and timer. Speed, timer & operating mode can be viewed simultaneously
- Wide range of platforms for use with a variety of vessels
- Electronic time switching clock controls time or continuous operation mode
- DC brushless motor, long service life & maintenance free
- Over speed detection and protection
- Free software Shaker PC, computer can control and document all operation values via RS232 interface.

Model	KOS-3016/KCS-3016		KOS-3333/KCS-3333	
Power (W)	30			
Shaking motion	Orbital 	Linear 	Orbital 	Linear 
Orbital diameter (mm)	20		10	
Max. load capacity (with platform) (kg)	3		7.5	
Motor type	DC motor		DC brushless motor	
Motor rating input (W)	16		28	
Motor rating output (W)	10		15	
Speed range (rpm)	0-200		100-500(Orbital) / 100-350(Linear)	
Speed display	-		LCD	
Timer	-		Yes	
Timer display	-		LCD	
Time setting range (min)	-		1-1199	
Operation type	Continuous		Continuous / timed operation	
Dimensions (W x H x D mm)	330 x 270 x 110		340 x 300 x 100	
Weight (kg)	3.1		8.1	
Permissible ambient temperature (C), humidity	5-40, 80%			
Protection class acc. DIN EN60529	IP21			
RS232 interface	-		Yes	

**KRS-3016/KRS-3333, Rocker Shakers**

- Smooth see-saw rocking motion with fixed angle 9°
- Load up to 10kg
- Speed range of 10-70rpm
- DC brushless motor provides reliable and quiet running. maintenance free
- Designed for continuous or timed operation
- Digital speed control and LCD display, speed and timer can be viewed simultaneously
- Wide range of accessory platform to be used for variable size vessels. and non-slip mat holds vessels prevent slipping.

Model	KRS-3016	KRS-3333
Power (W)	20	40
Motor type	DC motor	
Rocking Motion		
Tilt angle(°)	±7	±9
Max. load capacity (with platform) (kg)	3	10
Speed range (rpm)	0-80	10-70
Speed display	-	LCD
Timer	-	Yes
Timer display	-	LCD
Time setting range (min)	-	1-1199
Operation type	Continuous	Continuous / timed operation
Dimensions (W x H x D mm)	330 x 270 x 130	410 x 360 x 200
Weight (kg)	3.2	9
Permissible ambient temperature (C), humidity	5-40, 80%	
Protection class acc. DIN EN60529	IP21	
RS232 interface	-	Yes



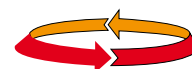
TOS-3030/SOH-3030



TOS-3030D (Tachometer)

**TOS-3030/TOS-3030D, Orbital Shaker**

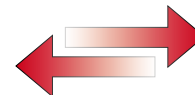
- Smooth and powerful orbital motion at a low speed
- Continuous or timed operation
- Optional second platform available to double the working area; large upper platform for a variety of flasks and tubes
- Other type flask platform also available upon special request
- Standard elastic ties for easy fitting of flasks and conical tubes
- Non-slip mat as standard; optional dimpled mat prevents tubes from rolling around
- Can select economical model or the version with LED display of rpm.



Model	TOS-3030	TOS-3030D
<b>Reciprocating range</b>	14mm	
<b>Speed range</b>	0 ~ 300 rpm	
<b>Motor</b>	DC 3.5A	
<b>Timer</b>	180 min	
<b>Temp. resist</b>	Lower than 65°C (Dry air)	Lower than 55°C (Dry air)
<b>Loadable Weight</b>	8kg	
<b>Weight</b>	15kg	
<b>Dimensions (mm)</b>	Overall: W300xD300xH158 Platform: W300xD300	
<b>Wattage</b>	35W	
<b>Power</b>	Free Voltage (AC100-240V)	

**Accessories:****SOH-3030/ SOH-3030D, Reciprocating Shaker**

- Smooth and powerful orbital motion at a low speed
- Continuous or timed operation
- Optional second platform available to double the working area; large upper platform for a variety of flasks and tubes
- Standard elastic ties for easy fitting of flasks and conical tubes
- Non-slip mat as standard; optional dimpled mat prevents tubes from rolling around
- Can select economical model or the version with LED display of rpm.



Model	SOH-3030	SOH-3030D
<b>Reciprocating range</b>	30mm	
<b>Speed range</b>	0 ~ 300 rpm	
<b>Motor</b>	DC 3.5A	
<b>Timer</b>	180 min	
<b>Temp. resist</b>	Lower than 65°C (Dry air)	Lower than 55°C (Dry air)
<b>Loadable Weight</b>	8kg	
<b>Weight</b>	15kg	
<b>Dimensions (mm)</b>	Overall: W300xD300xH162 Platform: W300xD300	
<b>Wattage</b>	35W	
<b>Power</b>	Free Voltage (AC100-240V)	

**Accessories:**

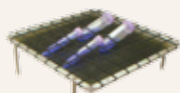
Model Number	Description
<b>DP-300</b>	Dimpled mat (W300 X D300 mm)
<b>TY300</b>	Second platform, (with posts: 4ea)
<b>UP400</b>	400 X 400 mm upper platform
<b>UP500</b>	500 X 500 mm upper platform

**Other Accessories:**

Model	Description
<b>CP50</b>	50ml flask holder
<b>CP100</b>	100ml flask holder
<b>CP250</b>	250ml flask holder
<b>CP500</b>	500ml flask holder
<b>FT302-50-13</b>	Flask Rack for 50ml flask-Capacity: 13ea
<b>FT302-100-13</b>	Flask Rack for 100ml flask-Capacity: 13ea
<b>FT302-250-8</b>	Flask Rack for 250ml flask-Capacity: 8ea
<b>FT302-500-5</b>	Flask Rack for 500ml flask-Capacity: 5ea
<b>FT302</b>	Universal plate for flask holder
<b>FT302-MP4</b>	Rack for micro well plate - Capacity: 4ea



DP-300

TY300  
(Second platform)CP50  
50ml HolderUP400/UP500  
(upper platform  
400x400mm/  
500x500mm)CP500  
500ml Holder

FT302-50-13



FT302-100-13

CP100  
100ml Holder

FT302-250-8



FT302-500-5

CP250  
250ml Holder

FT302 Plate



FT302-MP4

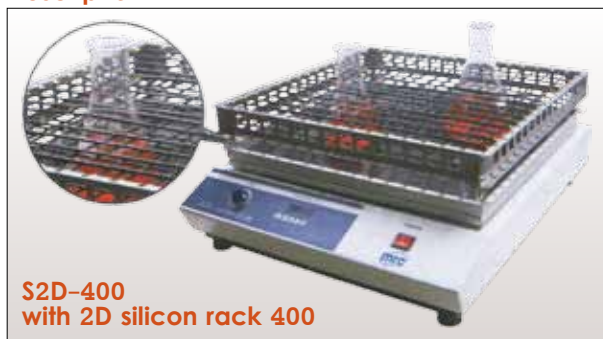
### S2D-300/S2D-400, Change between orbital or reciprocating motion



- Smooth and powerful orbital or reciprocating motion at a low speed
- Optional platform available for flasks
- LED display (shown actual speed or time)
- High quality permanent DC brush less motor for gentle and powerful motion
- Continuous or timed operation.

Model	S2D-300	S2D-400
<b>Shaking Range</b>	14mm	28mm
<b>Speed Range</b>	45-400rpm	
<b>Motor</b>	BLDC motor	
<b>Timer</b>	99hours 59min	
<b>Temp. Resist</b>	Lower than 55°C	
<b>Loadable weight</b>	4kgs	6kgs
<b>Weight</b>	13kgs	17kgs
<b>Dim (mm)</b>	320x410x140	430x520x140
<b>Platform(mm)</b>	300x300	400x400
<b>Wattage</b>	30W	
<b>Power</b>	Free Voltage (AC100-240V)	

### Description:



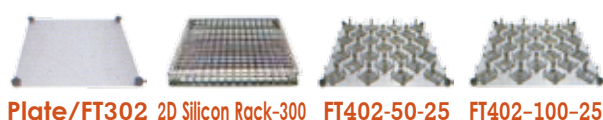
### Accessories Flask holder for S2D-300/S2D-400:

Model number	Description
<b>CP50</b>	50ml flask holder
<b>CP100</b>	100ml flask holder
<b>CP250</b>	250ml flask holder
<b>CP500</b>	500ml flask holder

### Accessories Flask holder for S2D-300:

Model number	Description
<b>FT302-50-13</b>	Flask rack for 50ml flask-capacity: 13ea
<b>FT302-100-13</b>	Flask rack for 100ml flask-capacity: 13ea
<b>FT302-250-8</b>	Flask rack for 250ml flask-capacity: 8ea
<b>FT302-500-5</b>	Flask rack for 500ml flask-capacity: 5ea
<b>FT302</b>	Universal plate for flask holder (300x300mm)
<b>2D Silicon RACK-300</b>	Silicon Rack for Shaker S2D-300

### Accessories:



### Accessories Flask holder for S2D-400:

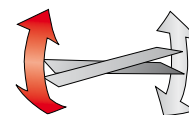
Model number	Description
<b>FT402-50-25</b>	Flask rack for 50ml flask-capacity: 25ea
<b>FT402-100-25</b>	Flask rack for 100ml flask-capacity: 25ea
<b>FT402-250-14</b>	Flask rack for 250ml flask-capacity: 14ea
<b>FT402-500-9</b>	Flask rack for 500ml flask-capacity: 9ea
<b>FT402</b>	Universal plate for flask holder (400x400mm)
<b>2D Silicon RACK-400</b>	Silicon Rack for Shaker S2D-400



COR-2129

**COR-2129, Compact rocker in timed and continuous operation**

- Variable speed control between 0 & 70 rpm
- Continuous or timed operation
- Sturdy & durable construction for use at high & low temp
- Optional second platform available to double the working area
- Non-slip mat as standard ; optional dimpled mat prevents tubes from rolling around
- All moving parts of the rocking platform are combined with ball joints for smooth operation and years of consistent operation.

**Accessories:**

DP-100

TY100  
(Second platform)

Model	COR-2129
<b>Tilt angle</b>	±9°
<b>Speed range</b>	Variable 0 ~ 70 rpm
<b>Motor</b>	DC 3.5A, Engineering Plastic gear
<b>Timer</b>	180 min
<b>Temp. resist</b>	Lower than 65°C
<b>Loadable Weight</b>	7kg
<b>Weight</b>	6.5kg
<b>Dimensions (mm)</b>	Overall: W290xD210xH167 Platform: W290xD200
<b>Wattage</b>	35W
<b>Power</b>	AC110/220/230V, 50/60Hz

**Accessories:**

Model	Description
<b>DP-100</b>	Dimpled mat (W290 X D200 mm)
<b>TY100</b>	Second platform, (with posts: 4ea)



MOW-3333

**MOW-3333, Waver Shaker**

Waver shaker offers the optimal movement for the multiple staining and washing involved in gel, blotting, microscopy & immunostaining applications. Its combination of vertical & horizontal orbital motion provides more rapid exchange of solvents and better mixing efficiency.

**Features:**

- Continuous or timed operation with automatic switch-off
- Variable shaking speed from 5 to 100rpm for mixing & wash action
- 2 shaking moves in 2D or 3D
- Adjustable platform angle
- Interchangeable/ stacking platforms, & accessories for a variety of vessels
- 15kg carry capability
- One of 4 digital red LED display
- High quality DC Brushless motor
- Easy to extension shelf
- Light weight for easy mobility
- Very easy maintenance
- 330x330mm platform.

Model	MOW-3333
<b>Motion</b>	Orbital and Nutation (2D or 3D)
<b>Controller</b>	Digital microprocessor controller
<b>Speed/inc</b>	5~100 rpm/1 rpm
<b>Timer</b>	1~9999 mins with alarm, continuous/1 min
<b>Carry capability</b>	15 kg
<b>Motor</b>	DC Brushless type
<b>Operation temp.</b>	Ambient to 40°C
<b>Platform DIM.(mm)</b>	W330xL330
<b>Platform material</b>	Painted iron metal
<b>Unit dimension (mm)</b>	W330xL450xH280
<b>Construction</b>	Painted iron metal
<b>Weight</b>	approx. 10kg
<b>Rated voltage</b>	110V/220V selectable

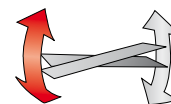


COR-3030



COR-3030D (with tachometer)

**COR-3030/COR-3030D, Large capacity platforms and smooth rocking motion**

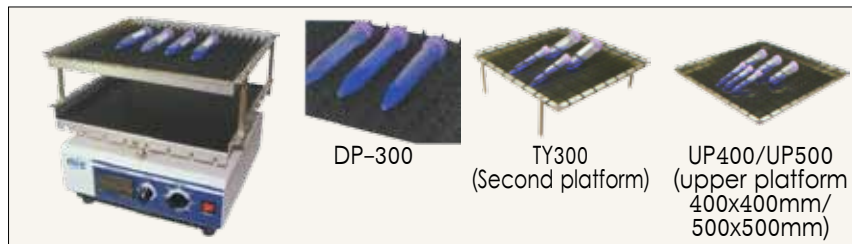


- Variable speed control between 0 and 70 rpm
- Continuous or timed operation
- Sturdy and durable construction for use at high and low temperature
- Optional second platform available to double the working area: large upper platform for a variety of flasks and tubes
- Non-slip mat as standard; optional dimpled mat prevents tubes from rolling around
- All moving parts of the rocking platforms are combined with ball joints for smooth operation and years of consistent operation
- Can select economical model or the version with LED display of rpm.

Model	COR-3030	COR-3030D
<b>Tilt angle</b>	±9°	
<b>Speed range</b>	0 ~ 70rpm	
<b>Motor</b>	DC 3.5A, Engineering Plastic gear	
<b>Timer</b>	180min	
<b>Temp. resist</b>	Lower than 65°C (dry air)	Lower than 55°C (dry air)
<b>Loadable Weight</b>	10 kg	
<b>Weight</b>	8.2 kg	
<b>Dimensions (mm)</b>	Overall: W300xD300xH232 Platform: W300xD300	
<b>Wattage</b>	35W	
<b>Power</b>	Free Voltage (AC100-240V)	

**Accessories:**

Model Number	Description
DP-300	Dimpled mat (W300 X D300 mm)
TY300	Second platform, (with posts: 4ea)
UP400	400 X 400 mm upper platform
UP500	500 X 500 mm upper platform



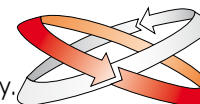
TOW-3030



TOW-3030D (with Tachometer)

**TOW-3030/TOW-3030D, 3D Motion Twist Shakers**

**Powerful but, reliable 3D orbital motion**

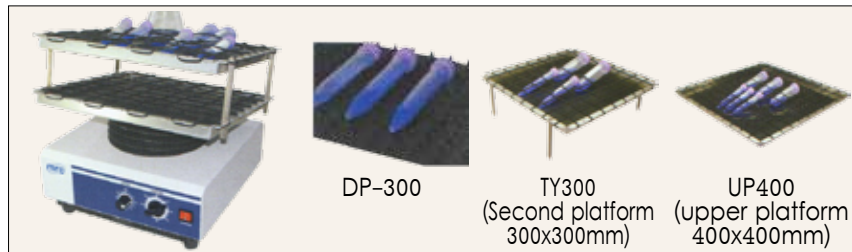


- Gentle 3D motion & sturdy construction for high capacity.
- Continuous or timed operation.
- Standard elastic ties for easy fitting of flasks and conical tubes.
- Optional second platform available to double the working area; large upper platform for a variety of flasks and tubes. Non-slip mat as standard; optional dimpled mat prevents tubes from rolling around.
- Rubber bellows for maximum user safety to protect the user from accidentally jamming user's fingers.
- Can select economical model or the version with LED display of rpm.

Model	TOW-3030	TOW-3030D(Tachometer)
<b>Tilt angle</b>	±7°	
<b>Speed range</b>	0 ~ 70 rpm	
<b>Motor</b>	DC 3.5A, Engineering Plastic gear	
<b>Timer</b>	180 min	
<b>Temp. resist</b>	Lower than 65°C(Dry air)	Lower than 55°C (Dry air)
<b>Loadable Weight</b>	5kg	
<b>Weight</b>	9kg	
<b>Dimensions (mm)</b>	Overall: W300xD300xH232 Platform: W300xD300	
<b>Wattage</b>	35W	
<b>Power</b>	Free Voltage (AC100-240V)	

**Accessories:**

Model Number	Description
DP-300	Dimpled mat (W300 X D300 mm)
TY300	Second platform, (with posts: 4ea)
UP400	400 X 400 mm upper platform





### FMS2, Mini Multi Shaker, Adjustable - 3D & 2D Motion

- BAE MECHANISM (patented, 5 step angle adjustment system) allows orbital motion and various twist movement
- Sealed construction to prevent heat transfer from motor to platform for use in incubator and cold chamber
- Variable speed control, from 5 to 90rpm
- Orbit of 18mm for best mixing result especially for gel and blotting
- 20cm x 20cm platform for efficient incubator operation
- Dual mat to accommodate each vessels in the proper mat.

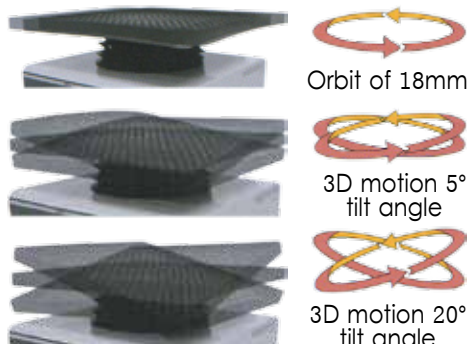
Model	FMS2
Speed range	5 ~ 90rpm
Motor	DC Warm Geared motor
Temp. resist	Lower than 65°C (Hum 90%)
Loadable Weight	1kg
Weight	3kg
Dimensions (mm)	W200xD200xH127
Wattage	50W
Power	Free Voltage (AC100-240V)



### The table for angle adjustment:

Motion Select	FMS2
Orbital Motion	orbit of 18mm 5°,10°, 15°, 20° tilt angle
3D Motion	

### View of actual movements:



### FMS3, Multi Shaker, Extremely quiet operation with various movement position, Adjustable - 3D & 2D Motion

- BAE MECHANISM (patented, 5 step angle adjustment system) allows orbital motion and various twist movement
- Variable speed control, from 30 to 300rpm
- Orbit of 18mm for best mixing result especially for gel and blotting
- High quality permanent DC brush less motor for gentle & powerful motion
- Continuous or timed operation
- Simple and easy of angle adjustment
- Dual mat to accommodate each vessels in the proper mat.



Model	FMS3
Speed range	30 ~ 300rpm
Motor	DC Warm Geared motor
Temp. resist	Lower than 55°C (Dry air 85%)
Loadable Weight	3kg
Timer	180min
Weight	12kg
Dimensions (mm)	W300xD360xH155
Wattage	30W
Power	Free Voltage (AC100-240V)

### The table for angle adjustment:

Motion Select	FMS3
Orbital Motion	orbit of 18mm 5°,10°, 15°, 20° tilt angle
3D Motion	

### Accessories:



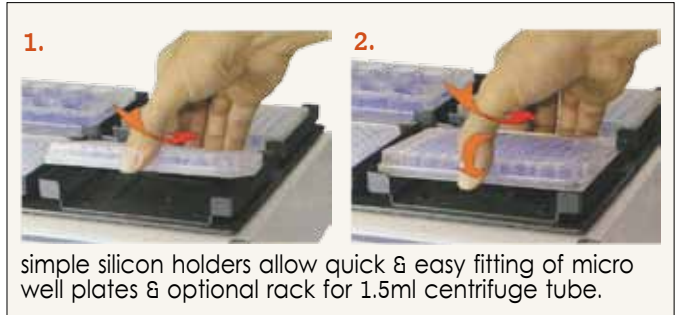
### Other Accessories:

Model	Description
CP50	50ml flask holder
CP100	100ml flask holder
CP250	250ml flask holder
CP500	500ml flask holder
FT302-50-13	Flask Rack for 50ml flask-Capacity: 13ea
FT302-100-13	Flask Rack for 100ml flask-Capacity: 13ea
FT302-250-8	Flask Rack for 250ml flask-Capacity: 8ea
FT302-500-5	Flask Rack for 500ml flask-Capacity: 5ea
FT302	Universal plate for flask holder

S-20/S-40, 2/4 micro digital well plate mixers



- High quality permanent DC brush less motor for gentle and powerful motion
- S-20: Standard platform for 2 micro well plates
- S-40: Standard platform for 4 micro well plates
- Continuous or timed operation
- Optional rack for 1.5ml centrifuge tubes
- Simple silicon holders for easy & speedy of plate installation
- LED display (shown actual speed or time).



simple silicon holders allow quick & easy fitting of micro well plates & optional rack for 1.5ml centrifuge tube.

Plate Installation:

Model		S-40	S-20
<b>Orbit range</b>		3mm	
<b>Speed</b>	<b>Micro well plate &amp; 1.5ml tube</b>	300-1600rpm	300-2000rpm
	<b>deep well plate</b>	300-1400rpm	-
<b>Capacity</b>	<b>micro well plate</b>	4ea	2ea
	<b>deep well plate</b>	4ea	-
	<b>1.5ml tube</b>	96ea	48ea
<b>Timer</b>		99hours 59min	
<b>Dimensions WxDxH (mm)</b>		290x330x141	180x330x131
<b>Weight (kg)</b>		6Kg	5Kg
<b>Wattage</b>		25W	
<b>Power</b>		AC100V-240V (Free Voltage) 50Hz/60Hz	

SI-400, 4 MicroPlate Mixer Shaker



Model	SI-400
<b>Shaking speed</b>	200-1500 rpm - standard 200-1000 rpm - deep well
<b>Orbit</b>	3mm
<b>Timer</b>	1min-99h59min
<b>Power supply</b>	AC220V or AC110V , 2A
<b>Dimensions</b>	280x270x110mm
<b>Weight</b>	7kg

Features:

- Variable speed from 200 to 1,500rpm.
- DC brush less motor for gentle and powerful motion.
- Mixing orbit of 3 mm for efficient mixing in small sample vessels.
- Continuous or timed operation.
- Optional rack for 1.5ml centrifuge tube.
- Simple spring holders for easy & quick of plate installation.
- Aggressive mixing speed from 200-1500rpm for complete and uniform mixing in any microplate format.
- Small vortexing orbit of 3mm for thorough mixing regardless of sample viscosity.
- Speed and orbit combine to offer true vortexing action in each well of a microplate.
- Model may be used in cold rooms and incubators for temp. sensitive applications.
- Built-in timer operates from 1-99 minutes or continuous for hands-free use.

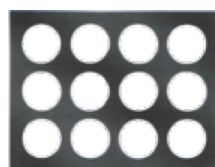


With Optional Tube Rack for 1.5ml Centrifuge Tubes

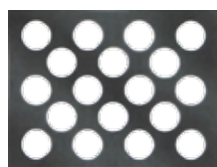
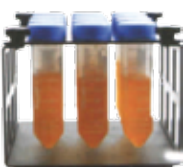
**S-50, Conical tube Mixer**

- Variable speed range: 60–500rpm
- Orbit of 6mm in low speed & orbit of 40mm in high speed
- High quality permanent DC brushless motor for gentle and powerful motion
- Continuous or timed operation
- Rack for 50ml conical tube: 12ea or Rack for 15ml conical tube: 18ea.
- LED display (Shown actual speed or time).

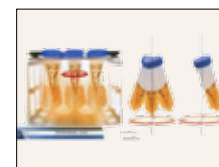
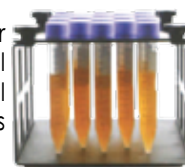
Model	S-50
<b>Orbit range</b>	Low speed-6mm /High speed-40mm
<b>Speed range</b>	60–500rpm
<b>Capacity</b>	conical tube 50ml
	conical tube 15ml
<b>Timer</b>	99hours 59min
<b>Dimensions (mm)</b>	W210xD369xH231
<b>Weight (kg)</b>	8Kg
<b>Wattage</b>	35W
<b>Power</b>	AC100V–240V (Free Voltage) 50Hz/60Hz



Rack for  
12x50ml  
conical  
tubes  
**CO-5012**



Rack for  
18x15ml  
conical  
tubes  
**CO-5018**

**EL-680, Wrist Action Shaker**

MRC's Wrist-Action Shaker EL-680 is an effective tool for extracting, dissolving and emulsifying samples. Featuring an advanced motor, the EL-680 mimics human wrist action—from very slow, gentle mixing to violent agitation. This variable speed unit runs from 100–960 oscillations per minute (with gentle ramping), and is monitored within 1 rpm of set point by an illuminated digital tachometer. The control panel is angled away from unit to ease reading and speed adjustment. The shaker has easily detachable arms equipped with 8 clamps for attachment of all types of tubes, flasks and bottles with diameters between 5 and 50 mm. The EL-680 includes a digital timer, rubber feet, and can handle loads up to 9 lbs.

**Features:**

- 100–960 oscillations per minute
- 0.340" Stroke (8mm)
- Detachable arms equipped with 8 clamps
- Handle loads up to 9 lbs.

**Specifications:**

- **Power Specs:** 115V or 230V @ 50/60hz
- **Dimensions:**  
W(Base) – 33.4" D(Base) – 11.6" H(Base) – 10"
- **Shipping Info:** 1 box: 21"x21"x21" – 60lbs.

**EL-680Q, Wrist Action Shaker**

MRC's Wrist-Action Shaker EL-680Q with tooling is an effective tool for extracting, dissolving and emulsifying samples. Featuring an advanced motor, the EL-680Q mimics human wrist action—from very slow, gentle mixing to violent agitation with a 10.5 degree stroke. This variable speed unit runs from 100–600 oscillations per minute (with gentle ramping), and is monitored within 1 rpm of set point by an illuminated digital tachometer. The control panel is angled away from unit to ease reading and speed adjustment. With the EL-680Q & Tooling the user can put in multiple tubes (multiple sizes from 50ml down to 15ml, 12 per arm) at a time. The EL-680Q includes a digital timer, rubber feet, and can handle loads up to 9 lbs.

**Features:**

- 100–960 oscillations per minute
- Detachable Tooling arms
- Handle loads up to 9 lbs
- 10.5 Degree stroke.

**Specifications:**

- **Power Specs:** 115V or 230V @ 50/60hz
- **Dimensions:**  
W(Base) – 33.4" D(Base) – 11.6" H(Base) – 10"
- **Shipping Info:** 1 box: 21"x21"x21" – 60lbs.

**VS-6/VD-12/VD-12S/V-U, Funnel Shakers**



**VD-12**  
with 8x500ml funnel

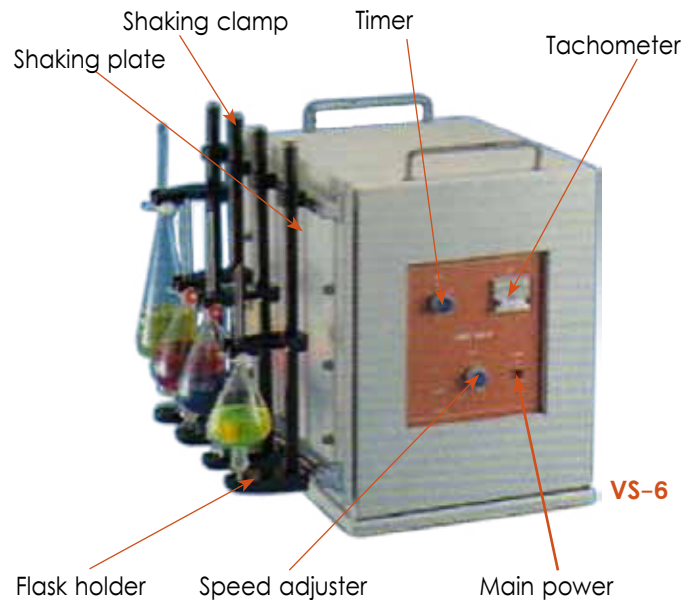


**VD-12S**  
with 4x2 liter funnel

This shaker is efficient in shaking evenly reagents of various kinds of materials under same control parameters. it is suitable for organic, inorganic chemical, medical, and pharmaceutical research, extraction & development of media, and waste water analysis. different capacity(0.1~1L) of funnel bottles can be put at one time, funnel holders are movable. 2 Liter of funnel bottle or special size bottle is fixed by larger funnel holder. single, double sides or horizontal type is optional. low noise device, electronic buffer acceleration. with timer, tachometer, and fuse safety device.



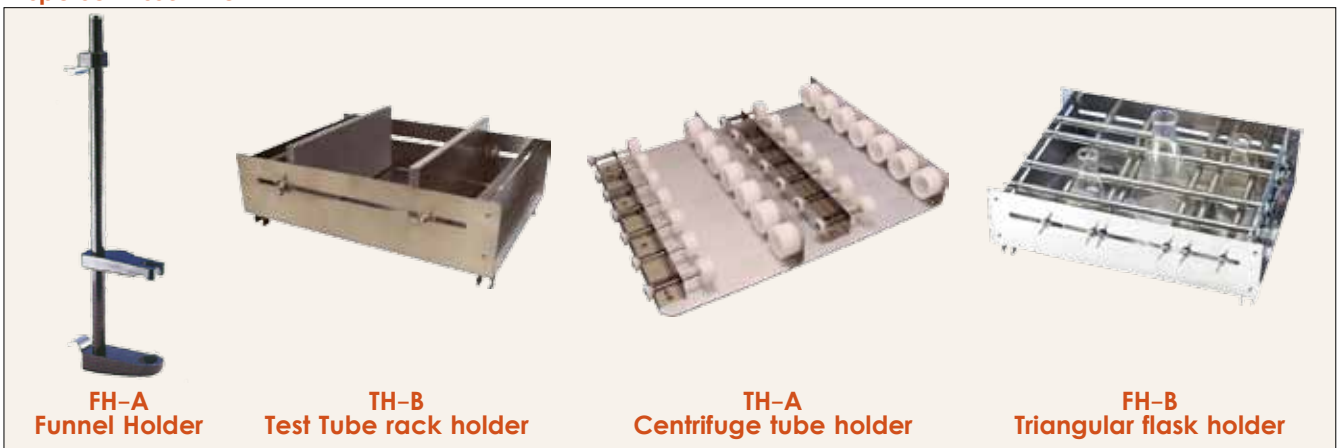
**V-U**



**VS-6**

Model	100ml	200ml	300ml	500ml	1L	2L	Shaking Frequency	Stock (mm)	Size (mm)	KG
<b>VS-6</b>	6 pcs	6 pcs	4 pcs	4 pcs	3 pcs	-	0-350	40	W430xD430xH580	59
<b>VD-12</b>	12 pcs	12 pcs	8 pcs	8 pcs	6 pcs	-	0-350	40	W430xD710xH710	65
<b>VD-12S</b>	12 pcs	12 pcs	8 pcs	8 pcs	6 pcs	4 pcs	0-350	40	W430xD710xH730	81
<b>V-U</b>	6 pcs	6 pcs	4 pcs	4 pcs	3 pcs	-	0-350	40	W455xD430xH580	60

**Dispenser Assortment**



**FH-A**  
Funnel Holder

**TH-B**  
Test Tube rack holder

**TH-A**  
Centrifuge tube holder

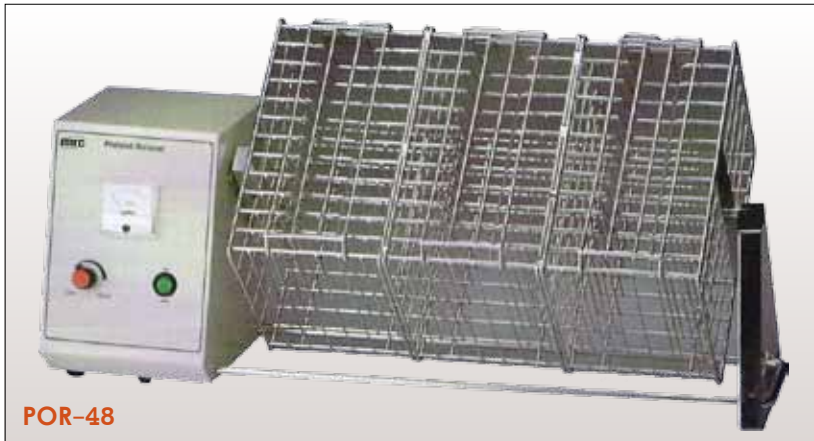
**FH-B**  
Triangular flask holder

**POS-42/84, Platelet Shaker****Features:**

Platelet shaker POS-42 and POS-84 are widely used in blood banks • A stationary base drives the storage frame side-to-side 38mm • Removable open mesh shelves provide air circulation • A ball bearing drive motor and internal fan produce durable & reliable operation • Stainless steel shelves can be easily cleaned • POS-42 & POS-84 are easy to use • Quality certification: ISO 9001, ISO 13485.

Model	POS-42	POS-84
Capacity	42 bags	84 bags
Speed	72 rpm (fixed)	
Number of shelf	7 shelves	
Overall dimension (mm)	W460xD350xH360	W840xD350xH360

Power supply: AC 110V 60Hz (220V 50/60Hz available)

**POR-12/24/36/48, Platelet Rotator****Features:**

Platelet rotator POR-12, POR-24, POR-36, POR-48 are widely used in blood tanks • Robust, Practical, and durable design for your economic choice • The storage frame rotates 360° smoothly and steadily • Platelet bags can be loaded easily on the stainless steel basket attached with a tachometer, users can monitor speed easily.

Model	POR-12	POR-24	POR-36	POR-48
Number of basket	1	2	3	4
Capacity	12 bags	24 bags	36 bags	48 bags
Speed	0 ~ 9 rpm			
Size (mm)	W370xD255xH290	W510xD255xH290	W650xD255xH290	W790xD255xH290
Weight(kg)	7.4	9.1	10.3	11.5