



## Rockers and Rotators

### PMR-30 and PMR-100

2D platform rockers

### PS-3D and PS-M3D

3D platform rocker-rotator

Multi-function 3D rocker-rotator

### PTR-25

Variable speed rotator

### PTR-35 and PTR-60

Variable speed multi-function vertical rotators

# Rockers and Rotators

A comprehensive range of efficient and sturdy rocking and rotating equipment for a wide range of mixing applications in life-science, cell culture, chemistry, analytical and research laboratories. Suitable for use in cold rooms and incubators.

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**2D platform rockers** – provides precise see-saw action

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**3D platform rocker-rotator** – designed to provide precise speeds and tilt angles

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**Multi-function rotators** – 3D and 360° vertical rotation designed for light loads and tubes

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PMR-100



PMR-30



PTR-35

PTR-25



PS-M3D



PTR-60



PS-3D

# PMR-30

## Platform 2D rocker - fixed tilt

Compact fixed-angle platform rocker in the Grant-bio range, providing a smooth see-saw rocking motion for gentle sample agitation in tubes, culture flasks, dishes and boxes. Suitable for use in cold rooms and incubators.

Fixed 7° tilt angle

Loads up to 1kg

Variable speed: 5 to 30 oscillations per minute

Continuous or timed operation, with automatic switch-off

Direct drive mechanism

Optional dimpled mat available - prevents different sized tubes from rolling around the platform



## Applications

- Life-sciences - ideal for minigel destaining after electrophoresis, conducting reactions of Northern, Southern and Western blots, immunoblots, hybridisation washes, cell culture, visualisation of blots, immunostaining, protein electrophoresis.

# PMR-100

## Platform rocker – adjustable tilt

Large capacity, adjustable angle and speed platform rocker, providing soft or intensive see-saw rocking for optimal mixing of samples. Suitable for use in cold rooms or incubators with ambient operating temperature range +4°C to 40°C.

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Tilt angle range: adjustable up to 10°

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Loads up to 5kg

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Variable speed: 1 to 99 oscillations per minute

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Continuous or timed operation, with automatic switch-off

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## Applications


- Life-sciences – soft or intensive mixing of solutions or nutrient media in vessels or plastic bags placed on the platform. Northern, Southern and Western blots, incubation in immunoassays, agglutination tests. Ideal for gel destaining after electrophoresis and homogenisation of extraction media. Destaining/staining of hybridisation strips.

# Grant-bio compact rockers

## Technical specifications

			
		PMR-30	PMR-100
		Fixed tilt platform rocker	Adjustable tilt platform rocker
Dimensions	h x d x w mm	120 x 205 x 220	250 x 480 x 400
Operating temperature	°C	4 to 40	
Maximum load	kg	1	5
Speed	oscil/min	5 to 30	1 to 99
Fixed tilt angle	from 51-99 oscil/min	7° (fixed, 5-30 oscil/min)	10°
Tilt angle range	from 1-50 oscil/min	-	0-10° (1° increment), 10 ° increment at 51-99 oscil/min
Display		4 digit LED	LCD, 16 x 2 character
Maximum continuous operation time		168 hours	
Timer with automatic switch-off		1 minute to 24 hours	1 minute to 99 hours 59 minutes
Platform dimensions (working area)	mm	215 x 215	480 x 380
External power supply		Input AC 100-240V, 50/60Hz Output DC 12V	
Power consumption	W	3.8 (0.32A)	13 (1.1A)
Input voltage	V dc	12	
Weight	kg	2.1	12

## Accessories

		PMR-30	PMR-100
	PDM -Dimpled mat	•	—

# PS-3D

## Fixed tilt 3D platform rocker

Variable speed, fixed angle 3D rocker in the Grant-bio range providing smooth orbital motion for mixing in commonly used vessels – culture flasks, dishes, boxes and tubes. Suitable for use in cold rooms and incubators.

The **gentle movement** is ideal for staining gels without destroying the gel edges or for keeping fragile tissue intact during incubations.

Smooth, reliable and extremely quiet motor – low power consumption.

Reliable and quiet motor produces regulated and reproducible rocking through the speed range.



## Product highlights

- Ambient operating temperature range +4 °C to 40°C
- Fixed 7° tilt angle
- Loads up to 1kg
- Variable speed: 5 to 60rpm
- Optional dimpled mat available – prevents different size tubes from rolling around the platform



Compact, sturdy construction with low profile and small footprint – fits easily into the smallest workspace.

Simple speed adjustment from 5 to 60rpm.

215 x 215mm platform accommodates most commonly used vessels.

Power cord easily fits through incubator ports – allowing use in incubators, fume hoods and workstations. Safe, with low power consumption.

## Applications

- Education/research – mixing blood samples, minigel staining and destaining, washes, blotting, hybridisation.



# PS-M3D

## Multi-function 3D rocker-rotator

Variable speed, fixed-angle, multi-function 3D rocker-rotator providing rotation, reciprocation and vibration -to fully optimise mixing different sized particles in flasks, dishes, petri dishes and boxes.

Reciprocal 3D rotation: 1 to 360° turning angle

Loads up to 1kg

3D rotation, reciprocation and vibration functions all in one product

3D rotation speed: 1 to 100rpm

Vibration: 1 - 5° turning angle, programmable in a burst of 1 to 5 seconds

Fully programmable sequence of all functions

Optional dimpled mat available - prevents different size tubes from rolling around the platform



## Applications

- Education/ healthcare/research labs - suitable for mixing applications in many different fields, with specific applications including: immuno precipitations and other affinity matrix applications, treatment of adherent tissue culture in small volumes, e.g. for trypsinisation, gel staining and destaining, antibody staining, washes, hybridisations, Southern blots, Western blots, in situs.




# PS-3D and PS-M3D

## Technical specifications

		 	
		PS-3D	PS-M3D
		Fixed tilt 3D platform	Multi-function 3D
Dimensions	h x d x w mm	140 x 235 x 235	140 x 235 x 235
Operating temperature	°C	4 to 40	
Maximum load	kg	1	
Speed	oscil/min	5 to 60	1 to 100
Tilt angle		7°	
Turning angle (reciprocation mode)		-	0 to 360° (increment 30°)
Rocking angle (vibration mode)		-	0 to 5° (increment 1°)
Orbit diameter	mm	-	22
Display		-	2 x 16 character LCD
Maximum continuous operation time		168 hours	24 hours
Timer for rotation and reciprocation mode	sec	-	0 to 250
Timer for vibration mode	sec	-	0 to 5
Platform dimensions (working area)	mm	215 x 215	
Number of cycle repetitions		-	0 to 125
External power supply		Input AC 100-240V, 50/60Hz Output DC 12V	
Power consumption	W	3.1 (0.26A)	4.6 (0.38A)
Input voltage	V dc	12	
Weight	kg	1.2	1.8

## Accessories

		PS-3D	PS-M3D
	PDM -Dimpled mat	•	

# PTR-25

## 360° vertical mini rotator

Compact, economical solution with simple to use controls, providing thorough mixing of samples in tubes up to 50ml. Suitable for use in cold rooms and incubators, operating at ambient temperature range +4°C to 40°C.

360° vertical rotation

Vertical rotation speed range: 5 to 30rpm

Timer with audible alarm and automatic switch-off

Simple to use controls

Supplied with platform for tubes up to 15ml diameter as standard



## Applications

- Life-science - hybridisation reactions, cell growth, soft extraction, homogenisation of biological components in solution, binding reactions, washing of magnetic particles, preventing blood coagulation.
- Any application requiring simple end over and rotation of tubes.

# PTR-35 and PTR-60

## 360° vertical multi-function rotators

Compact and efficient variable-speed, variable-angle vertical rotators. Providing vertical rotation, reciprocation and vibration functionality for thorough mixing of microtubes and reproducible sample preparation. All mixing functions can be linked or used separately.

360° vertical rotation, reciprocation and vibration functions all in one compact product

Choice of two models with different tube capacities

Fully programmable sequence of functions, including pause

Optional additional platforms to accommodate microplates and tubes up to 50ml

Easy to operate with simple set-up of multi-segment programs via push buttons and the 2-line LCD status display.

Compact with a low profile and small footprint – fits neatly into any workspace.

Low voltage cord easily fits through incubator door gaskets – allowing use in incubators, refrigerators and workstations. Safe and economical operation.

Supplied with platform accommodating up to 26 tubes (up to 15ml). Maximum rotating speed of up to 100rpm.

Reliable and extremely quiet motor produces regulated rotation throughout the speed range.

All actions – rotation, reciprocation and vibration – can be set for continuous or timed operation, or linked together in different combinations to ensure optimum mixing conditions for your application.






PTR-60 has the same functionality as the PTR-35 and is supplied with a platform accommodating up to 48 tubes (up to 15ml).

## Applications

- Life-science laboratories – for hybridisation reactions, cell growth, soft extraction and homogenisation of biological components in solutions, as well as for reactions of binding and washing of magnetic particles, cell suspensions, incubations, extraction procedures, gel washing and mixing capillary blood samples.












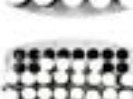

# PTR Rotators

## Technical specifications

				
		PTR-25	PTR-35	PTR-60
		360° vertical rotators	360° vertical multi-function rotators	
Dimensions	h x d x w    mm	155 x 190 x 325	155 x 195 x 365	230 x 230 x 430
Operating temperature range	°C	+4 to 40		
Maximum load	kg	0.5		0.8
Speed	oscil/min	5 to 30	1 to 100 (increment 1rpm)	
Tilt angle (reciprocation mode)		-		1 to 90°
Turning angle (reciprocation mode)		-		0 to 5°
Display		LED	2 x 16 character LCD	
Timer, with automatic switch-off		1 minute to 24 hours		
Timer setting range	sec	-	0 to 250	
Timer (vibration mode)	sec	-	0 to 5	
Pause	sec	-	0 to 5	
External power supply		Input AC 100-240V, 50/60Hz Output DC 12V		Input AC 100-240V, 50/60Hz Output DC 24V
Power consumption	W	1.3 (0.11A)	8 (0.66A)	18 (0.75A)
Input voltage	V dc	12		24
Weight	kg	1.4	1.7	3.8

# PTR Rotators

## Technical specifications

			PTR-25	PTR-35	PTR-60
PRS-22 replacement platform		For 22 tubes up to ø 16mm tube volumes 1.5-15ml	•	-	-
PRSC-18		Heavy duty tube adaptor for 18 tubes ø 15-20 16mm, tube volume 15ml,	•	-	-
PPRS4-12		Holds 4 tubes ø 20-30mm, tube volume up to 50ml and 12 tubes ø 10-16mm, tube volume 1.5-15ml	•	-	-
PRSC-10		Heavy duty adaptor for 10 tubes ø 25-30mm, tube volumes 50ml	-	•	-
PRSC-22		Heavy duty adaptor for 22 tubes ø 16 mm tube, volumes 15ml	-	•	-
PRS-10		For 10 tubes up to ø 20-30mm tube volumes up to 50ml	-	•	-
PRS-26 replacement platform		Tube adaptor for 26 tubes up to ø 10-16mm, tube volumes 1.5-15ml	-	•	-
PRS-5-12		Combined platform for 5 tubes ø 20-30mm' tube volumes 50ml and 12 tubes ø 10-16mm, tube volumes 1.5-15ml	-	•	-
PRS-IDP		Platform for microplates, deep well plates and racks for tall tubes 0.5-1ml	-	•	-
M-8/50		Roller platform for 8 tubes ø 25 -30mm, tube volume 50ml (hybridization reactions)		•	
PRS-14		Platform for 14 tubes ø 20-30mm, tube volumes up to 50ml	-	-	•
PRS-48 replacement platform		For 48 tubes ø 10-16mm, tube volumes 1.5-15ml	-	-	•
PRS-8-22		Platform for 8 tubes ø 20-30mm, tube volumes up to 50ml and 22 tubes ø 10-16mm, tube volumes 1.5-15ml	-	-	•

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