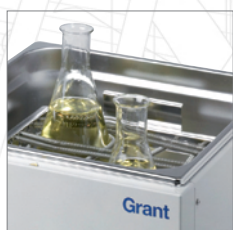
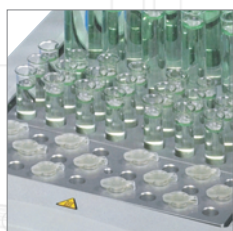


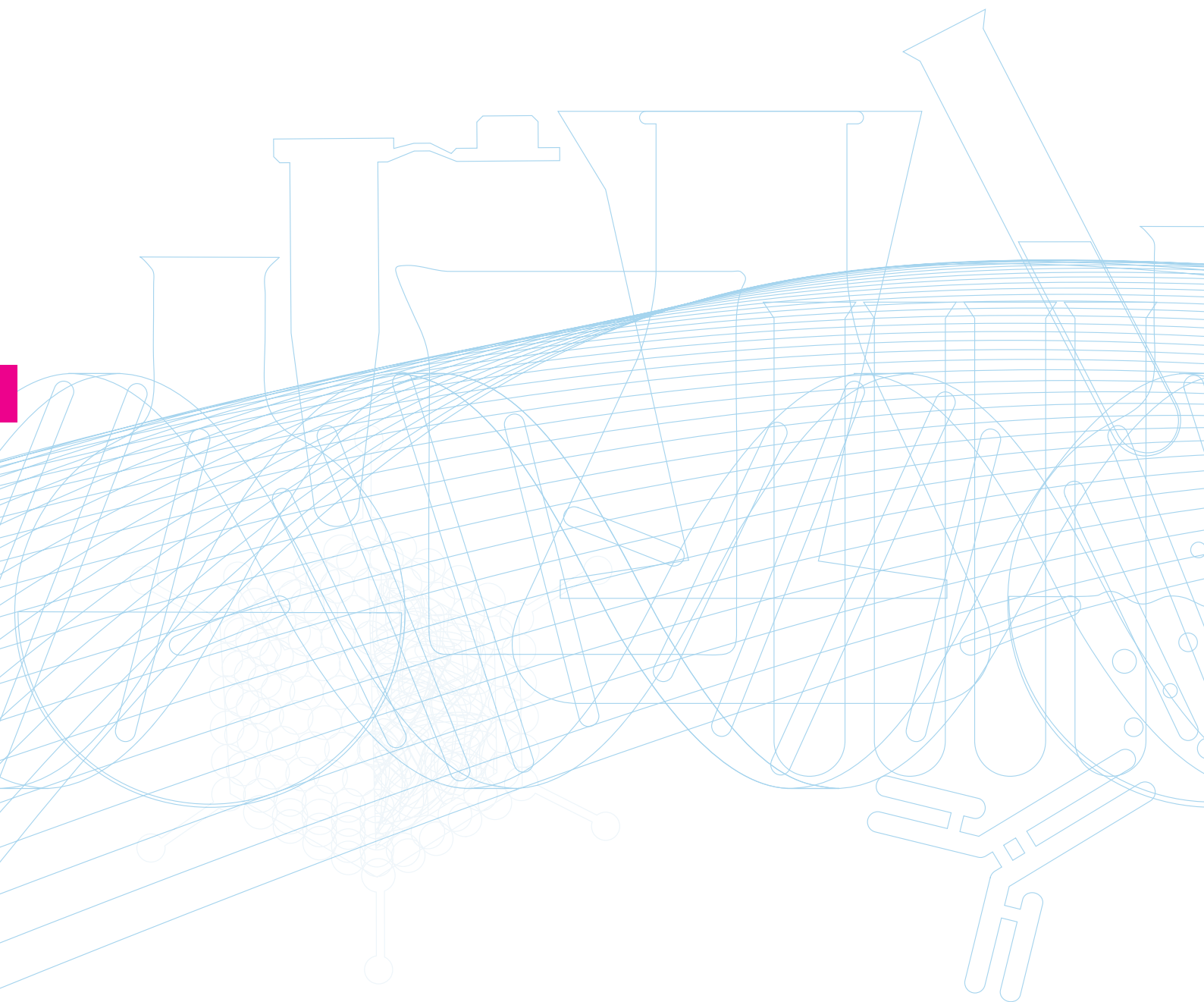
Scientific Equipment

Catalogue 2010 – 2011

Precision temperature control, sample preparation and life sciences products for the world's laboratories



12 Rockers and 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, and other analytical/research laboratories.

Suitable for use in cold rooms and incubators.

- **Platform rockers**
 - fixed tilt, for light loads
- **3D platform rotators**
 - fixed tilt, for light loads
- **Multi-function rotators**
 - 3D and 360° vertical, for light loads and microtubes

PMR-30



PS-3D



PS-M3D



NEW MODEL
PTR-35





PMR-30 platform rocker – fixed tilt

Compact but highly functional fixed-angle platform rocker in the Grant bio range, providing a smooth side to side rocking motion for gentle sample agitation in tubes, culture flasks, dishes and boxes.

- Variable speed: 7.5 to 30 rpm
- Fixed 7° tilt angle
- Load up to 0.5 kg
- Continuous or timed operation, with automatic switch-off

Reliable and extremely quiet motor produces regulated and reproducible rocking throughout the speed range

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

Simple timer setting, with large easy-to-read LED display indicating clearly the time remaining



Smooth, non-slip mat supplied as standard – prevents vessels from slipping

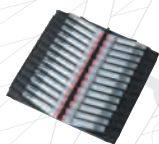
Simple graduated speed setting – from 7.5 to 30 rpm

Select either continuous or timed operation – the integral electronic timer ensures accurate count-down for repeatability of time-sensitive incubations

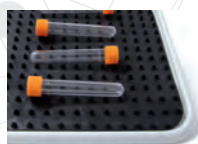
Low voltage cord easily fits through incubator door gaskets

Suitable for mixing applications in many different fields, with specific applications including: gel staining/destaining, washes, antibody staining, hybridisations, immuno precipitations, Southern blots, Western blots, *in situ*.

Accessory options for PMR-30



PTP-26 – Tube adaptor for 26 tubes up to 11 mm diameter



PDM – Dimpled mat prevents tubes from rolling around the platform



PS-3D 3D platform rotator – fixed tilt

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

- **Variable speed: 15 to 30 rpm**
- **Fixed 7° tilt angle**
- **Loads up to 0.5 kg**

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

Smooth, reliable, extremely quiet motor; low power consumption

Simple speed adjustment – 15 to 30 rpm



200 x 200 mm platform accommodates most commonly used vessels. Smooth, non-slip mat supplied as standard

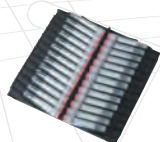
Compact, sturdy construction with a low profile and small footprint – fits neatly into the smallest workspace

Low voltage power supply provides for safe cold room operation and low energy consumption

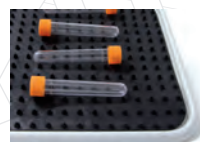
Low voltage cord easily fits through incubator door gaskets

Suitable for gentle mixing applications in many different fields, with specific applications including: gel staining and destaining, antibody staining, washes, hybridisations, immuno precipitations, Southern blots, Western blots, *in situ*. The 3D motion provides very effective sample coverage, for efficient mixing with a reduced quantity of solution.

Accessory options for PS-3D



PTP-26 – Tube adaptor for 26 tubes up to 11 mm diameter



PDM – Dimpled mat prevents tubes from rolling around the platform



PS-M3D multi-function 3D rotator

Variable speed, fixed-angle, multi-function 3D rotator providing all that is required – rotation, reciprocation and vibration – to fully optimise the mixing of different sized particles in flasks, dishes, petri dishes and boxes.

| Function | action | best for mixing |
|---------------|-----------------------------|----------------------------|
| Rotation | long wave motion | large particles |
| Reciprocation | long and medium wave motion | medium and large particles |
| Vibration | short wave motion | small particles |

- 3D rotation, reciprocation and vibration functions all in one product
- 3D rotation speed: 5 to 30 rpm
- Reciprocal 3D rotation: 1 to 360° turning angle
- Vibration: 1 to 6° turning angle, programmable in a burst of 1 to 5 seconds
- Fully programmable sequence of all functions
- Loads up to 1.0 kg

Smooth, non-slip mat supplied as standard – prevents vessels from slipping

Compact, with a low profile and small footprint, and extremely quiet in operation – fits neatly and unobtrusively into the workspace

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

Low voltage cord easily fits through incubator door gaskets



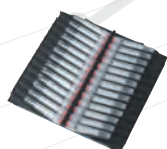
All actions – rotation, reciprocation and vibration – can be set for continuous or timed operation, or linked together in different combinations to ensure optimum mixing conditions for your application

Reliable stepper motor and sturdy construction will deliver years of consistent performance

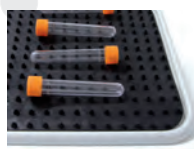
Ambient operating temperature range of 4 to 40°C allows use in cold room or incubator

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 situ*.

Accessory options for PS-M3D



PTP-26 – Tube adaptor for 26 tubes up to 11 mm diameter



PDM – Dimpled mat prevents tubes from rolling around the platform



PTR-35 and PTR-60 360° vertical multi-function rotators

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

| Function | action | best for mixing |
|------------------------|-----------------------------|----------------------------|
| 360° vertical rotation | long wave motion | large particles |
| Reciprocation | long and medium wave motion | medium and large particles |
| Vibration | short wave motion | small particles |

- **360°C vertical rotation, reciprocation and vibration functions all in one compact product**
- **Choice of two models with different tube capacities**
- **Vertical rotation speed: 10 to 100 rpm**
- **Reciprocal rotation: 1 to 90° turning angle**
- **Vibration: programmable in a burst of 1 to 5 seconds**
- **Fully programmable sequence of functions, including pause**

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

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

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

Low voltage cord easily fits through incubator door gaskets



PTR-35

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

Supplied with platform accommodating up to 26 microtubes. Maximum rotating speed of up to 100 rpm

The **PTR-60** has the same functionality as the PTR-35 and is supplied with platform accommodating up to 48 microtubes



Suitable for 360° vertical mixing applications including immuno precipitations and other affinity matrix applications, prevention of blood coagulation, latex diagnostics.

Accessory options for PTR-35

- **PRSC-10** – for 10 tubes up to Ø 30 mm, tube volumes up to 50 ml
- **PRS-5/12** – combined platform for 5 tubes up to Ø 30 mm and 12 tubes up to Ø 15 mm, tube volumes 50 ml/1.5-15 ml
- **PRSC-22** – for 22 tubes up to Ø 15 mm, tube volumes up to 1.5 ml
- **PRS-10** – for 10 tubes up to Ø 30 mm, tube volumes up to 50 ml



Accessory options for PTR-60

- **PRS8-22** – platform for 8 tubes up to Ø 30 mm plus 22 tubes up to Ø 15 mm, tube volumes up to 50 ml/1.5-15 ml
- **PRS-14** – platform for 14 tubes up to Ø 30 mm, tube volumes up to 50 ml
- **PRS-48** – replacement platform for 48 tubes up to Ø 15 mm, tube volumes 1.5-15 ml

Rockers and rotators »

Grant-bio compact rockers and rotators – models and specifications

● = optional




| | | PMR-30 | PS-3D |
|------------------------------------|------|---|---|
| | | Fixed tilt platform rocker | Fixed tilt 3D platform rotator |
| | |  h: 110 mm d: 185 mm w: 175 mm |  h: 100 mm d: 150 mm w: 85 mm |
| Speed | rpm | 7.5 to 30 | 10 to 30 |
| Tilt angle | ° | 7 | 7 |
| Timer, with automatic switch-off | | 1 min to 24 hours | – |
| Platform dimensions (working area) | mm | 210 x 210 | 210 x 210 |
| Maximum load | kg | 0.5 | 0.5 |
| Display | | 4 digit LED | – |
| Ambient temperature range | °C | 4 to 40 | 4 to 40 |
| Input voltage | V dc | 12 | 12 |
| Input current | A | 0.5 | 0.5 |

Accessories

| | | |
|---|---|---|
| PTP-26 tube adaptor for 26 tubes up to Ø 11 mm | ● | ● |
| PDM – dimpled mat | ● | ● |

Grant bio multi-function rotators – models and specifications

● = optional

| | | PS-M3D | PTR-35 | PTR-60 |
|--|------------|--|---|--|
| | | Multi-function 3D rotator | 360° vertical multi-function rotators | |
| | |  h: 125 mm d: 170 mm w: 225 mm |  h: 195 mm d: 155 mm w: 365 mm |  h: 230 mm d: 230 mm w: 420 mm |
| Speed | rpm | 5 to 30 | 10 to 100 | |
| Turning angle (reciprocal mode) | ° | 1 to 360 | 15 to 90 | 15 to 90 |
| Turning angle (vibration mode) | ° | 1 to 5 | 1 to 5 | 1 to 5 |
| Tilt angle | ° | 7 | – | – |
| Orbit diameter | mm | 22 | – | – |
| Timer, with automatic switch-off | | – | 1 min to 24 hours | 1 min to 24 hours |
| Timer (orbital/360° vertical or reciprocal mode) | sec | 1 to 250 | 1 to 250 | 1 to 250 |
| Timer (vibration mode) | sec | 1 to 5 | 1 to 5 | 1 to 5 |
| Pause | sec | – | 1 to 5 | 1 to 5 |
| Number of cycles | | 1 to 125 | – | – |
| Platform dimensions (working area) | mm | 215 x 215 | – | – |
| Microtube capacity | Ø 15mm max | – | 26 | 48 |
| Maximum load | kg | 1.0 | 0.5 | 0.8 |
| Display | | 2 x 16 character LCD | 2 x 16 character LCD | 2 x 16 character LCD |
| Ambient temperature range | °C | 4 to 40 | 4 to 40 | 4 to 40 |
| Input voltage | V dc | 12 | 12 | 24 |
| Input current | A | 0.5 | 0.5 | 2.1 |

Accessories

| | | | |
|---|---|---|---|
| PTP-26 tube adaptor for 26 tubes up to Ø 11 mm | ● | – | – |
| PRS-22 platform for 8 tubes up to Ø 30 mm plus 22 tubes up to Ø 15 mm, tube volumes up to 50 mL/1.5-15 ml | – | – | ● |
| PRS-14 platform for 14 tubes up to Ø 30 mm, tube volumes up to 50 ml | – | – | ● |
| PRS-48 replacement platform for 48 tubes up to Ø 15 mm, tube volumes 1.5-15 ml | – | – | ● |
| PDM – dimpled mat | ● | – | – |
| PRSC-10 for 10 tubes up to Ø 30 mm, tube volumes up to 50 ml | – | ● | – |
| PRSC-5/12 combined platform for 5 tubes up to Ø 30 mm and 12 tubes up to Ø 15 mm, tube volumes 50 ml/1.5-15 ml | – | ● | – |
| PRSC-22 for 22 tubes up to Ø 15 mm, tube volumes up to 1.5 ml | – | ● | – |
| PRS-10 for 10 tubes up to Ø 30 mm, tube volumes up to 50 ml | – | ● | – |