



## Grant bio

personal products for  
life-science applications

Compact design, with a low profile and small  
footprint, to fit in almost any location

# Grant bio

The Grant-bio series of personal products for life science applications is an exciting new line from Grant Instruments. Designed to meet the challenge of workspace restrictions in today's busy laboratory, Grant-bio products are compact, with a low profile and small footprint, to fit in almost any location.

The Grant-bio products are differentiated not only by their stylish contemporary design, but also by the innovative features, providing creative solutions to the evolving demands of scientific exploration.

As with all equipment from Grant Instruments, you can rely on Grant-bio apparatus for reliability and durability, designed and manufactured as they are for long term operation.



- POS-300:** smooth horizontal orbital motion for mixing in bottles, flasks, and beakers.
- variable speed: 50 to 300 rpm
  - orbit: 10mm
  - integral timer: 1 min to 100 hours
  - interchangeable platforms
  - for loads up to 2.5kg
  - soft start and noise free operation
  - operating ambient 4°C to 45°C
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



- PMR-30:** smooth rocking motion for gentle sample agitation in tubes, culture flasks, dishes and boxes.
- ideal size for personal use
  - side to side rocking motion
  - variable speed: 7 to 30 rpm
  - simple speed setting, with a graduated dial
  - fixed position: 7° tilt angle
  - continuous or timed operation
  - integral timer: 1 min to 24 hours
  - 215 x 215mm platform
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



- PS-3D:** smooth 3D orbital motion for mixing in tubes, culture flasks, dishes and boxes. The gentle movement is ideal for staining gels without destroying the gel edges, or for keeping fragile tissue intact during incubations. The 3D motion provides very effective sample coverage, for efficient mixing with a reduced quantity of solution.
- ideal size for personal use
  - variable speed: 15 to 30 rpm
  - fixed position: 7° tilt angle
  - 200 x 200mm platform
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



- PMS-1000:** reliable, regulated shaking for two or four microplates. Simple screw attachments allow quick and easy fitting of any standard depth 96- or 384-well plates, holding the plates securely in place.
- variable speed: 150 to 1000 rpm
  - orbit: 2mm
  - continuous or timed operation
  - integral timer: 1 min to 24 hours
  - standard option for two microplates
  - optional platform for four microplates
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



- PS-M3D:** multi-function 3D rotator, with consistent and reproducible agitation throughout the speed range. Very simple set-up of a multi-segment program.
- ideal size for personal use
  - multi-function: rotation, reciprocation, vibration
  - reciprocal 3D rotation: 1 to 360°
  - vibration: 1 to 6°
  - variable speed: 5 to 30 rpm
  - fixed position: 7° tilt angle
  - continuous or timed operation for each phase
  - 215 x 215mm platform
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



- PTR:** vertical multi-function rotators for thorough mixing in tubes. Very simple set-up of a multi-segment program.
- multi-function: vertical rotation, reciprocation, vibration
  - capacity: PTR-30: 22 microtubes  
PTR-60: 48 microtubes
  - alternative platforms for larger tubes
  - variable speed:  
PTR-30: 5 to 30 rpm  
PTR-60: 5 to 60 rpm
  - continuous or timed operation for each phase
  - adjustable angle, reciprocal mode: 15 to 90°
  - low voltage supply for safe cold room use
  - operating ambient 4°C to 45°C



**PV-1:** compact vortex mixer, with a low profile and small footprint. So small that it will fit in your hand - yet no compromise on performance. The reliable motor produces regulated and reproducible agitation across the speed range.

- ideal size for personal use
- variable speed: 250 to 3000 rpm
- for tubes up to 20mm diameter
- pressure-sensitive cup
- continuous or touch operation
- rubber feet prevent walking and absorb vibration
- low voltage supply for safe cold room use
- operating ambient 4°C to 45°C



**Combi-spin PCV-2400:** combined centrifuge/vortex mixer for microtubes and 0.2ml strips. For independent centrifuge and vortex-mixing operations, or mixing of an individual tube concurrently with spinning of multiple tubes. The vortex cup, located at the top of the central shaft, emerges through an opening in the closed lid.

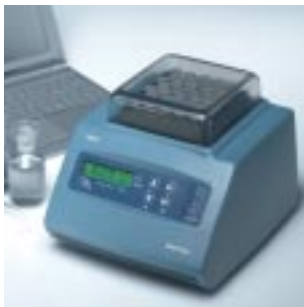
- interchangeable rotors for 2.0, 1.5, 0.5, 0.2ml microtube combinations and 0.2ml strips
- fixed speed: 2400 rpm
- continuous operation or short spin
- operating ambient 4°C to 45°C



**Multi-spin PCV-3000:** combined centrifuge/vortex mixer for microtubes and 0.2ml strips. For independent centrifuge and vortex-mixing operations, or a programmable sequence of spin and mix phases of multiple tubes.

- interchangeable rotors for 2.0, 1.5, 0.5, 0.2ml microtube combinations and 0.2ml strips
- spin speed: 1000 to 3000 rpm
- timed spin: 1 sec to 99 minutes
- vortex mixing speed: three stage adjustment
- timed mixing: 1 to 20 seconds
- low voltage supply for safe cold room use
- operating ambient 4°C to 45°C

*The details in this brochure give you a brief overview of the Grant-bio product line, available from Grant Instruments. Please contact us, or our distributors, for further information.*



**PCH:** personal benchtop cooling/heating dry block for microcentrifuge tubes. The ingenious block construction, combined with the powerful Peltier module, produces very rapid cooling and heating.

**PCH-1:** 12 x 1.5ml plus 20 x 0.5ml microtubes

**PCH-2:** 20 x 1.5ml microtubes  
temperature range: -10 to 100°C  
heat up, RT to 100°C: < 10 mins  
cool down, 100°C to RT: < 12 mins  
cool down, RT to -10°C: < 11 mins



**PHMP:** microplate thermoshaker for 96- and 384-well plates. Optimum heating environment combined with powerful orbital shaking to produce the maximum yield. Heated lid, for excellent stability and uniformity and to prevent condensation.

- variable speed: 250 to 1200 rpm
- 2mm shaking orbit for effective mixing
- temperature range: RT + 5 to 60°C
- timed operation: 1 min to 100 hours
- for 2 standard 96- or 384-well plates
- low voltage supply for safe cold room use
- operating ambient 4°C to 45°C

#### Grant-bio products

- meet the requirements of IEC61010 parts 1 and 2
- bear the CE mark to indicate that they meet the requirements of the Low Voltage and EMC Directives

Repairs are normally carried out within three to five working days of arrival at our factory or receipt of authorisation to repair. Alternatively, spare parts and service manuals can be despatched within two working days. Most overseas distributors offer a rapid and effective after-sales service, with spare parts held in stock.

Grant-bio products are guaranteed for two years against faulty materials and workmanship. For repairs carried out under guarantee, no charge is made for labour or materials.

We are committed to a continuous programme of improvement and specifications may be changed without notice.



[www.grant.co.uk](http://www.grant.co.uk)

# Grant

**Grant Instruments  
(Cambridge) Ltd**

Shepreth  
Cambridgeshire  
SG8 6GB

Tel: +44 (0)1763 260811

[www.grant.co.uk](http://www.grant.co.uk)

Email: [labsales@grant.co.uk](mailto:labsales@grant.co.uk)

Fax: +44 (0)1763 262410