

## RS-24, Mini-rotator with timer for test tubes

RS-24 - minirotator is an ideal instrument for laboratory procedures which require changeable time of mixing (from 1 min till 24 hours)  
 Its variable speed adjusts mixing from a soft action to intensive agitation.  
 RS-24 is compact with low profile and small footprint.  
 It is an ideal instrument for small private clinics.  
 Rotator can be used for mixing, diffusion, dialysing, etc. biological liquids in test tubes.  
 Rotator can be used in a cold room or incubator, operating ambient temperature range 4 °C to 45 °C

- Vertical orbital motion
- Speed range: 5-30 RPM
- Digital timer for 24 hour work
- Standard platform for 24 microtubes up to 14 mm diameter (1.5 ml, 2 ml, 15 ml tubes)
- Optional platform P-RS-8/50 for 8 tubes up to 30 mm diameter (50 ml tubes)
- Universal rubber clamps for tubes

RS-24



General characteristics	
Overall dimensions	255x145x130 mm
Weight	2.0 kg
Power supply	External power supply: 12 V, 500 mA

## RS-60, Rotator with mechanical timer for test tubes

RS-60



Rotator RS-60 is an ideal instrument for laboratory procedures which requires continuous mixing. Its variable speed adjusts mixing action from a gentle motion to rapid agitation.  
 Some of the procedures it can be used for are: embedding blood cell suspensions, tissue-culture specimens, washing of precipitates, homogenizing blood solid with plasma.  
 Rotator can be used in a cold room or incubator, operating ambient temperature range 4 °C to 45 °C

- Vertical orbital motion
- Speed range: 5-60 RPM
- Timer range 0-60 min. Timer has two modes: continuous (recommended 3 days) and timed (up to 60 min)
- Standard platform for 48 microtubes up to 14 mm diameter (1.5 ml, 2 ml, 15 ml tubes)
- Optional platform P-RS-10/18 for 10 tubes up to 30 mm diameter (50 ml tubes) and 18 tubes up to 15 mm diameter (1.5 ml, 2 ml, 15 ml tubes)

General characteristics	
Overall dimensions	395x245x185 mm
Weight	6.0 kg
Power supply	220/240 V, 50/60 Hz

## OS-20, Orbital Shaker

OS-20 is a powerful variable speed shaker which provides efficient orbital motion.  
 OS-20 is a familiar instrument for many general purpose shaking applications in chemical, biomedical, microbiological and life science laboratories.  
 Shaker can be used in a cold room or incubator, operating ambient temperature range 4 °C to 45 °C

- Speed range: 50-250 RPM
- 20 mm orbit
- Digital speed control
- Digital timer 1 - 999 min
- Interchangeable platforms (see page 5; UP-12, P-12/100, P-6/250, PP-4)
- Maximum load capacity - 2.5 kg

OS-20



General characteristics	
Overall dimensions	220x190x70 mm
Weight	3.9 kg
Power supply	External power supply: 12 V, 800 mA

Multi-Shakers and Multi-Rotators provide several motion types in one instrument substantially increasing the options for mixing the examined materials.

Our Multi-Shaker and Multi-Rotator range can be used for variety of applications, including the following: embedding blood cell suspensions, tissue-culture specimens, washing of presipitates, homogenizing blood solid with plasma, blot-hybridization.

### Multi Bio RS-24, Programmable rotator-mixer

Intelligent bio -Rotator for soft & hard mixing microtubes and vacutainers.

Several options in 1 instrument: 1. Rotation 2. Reciprocal rotation 3. Vortexing

- Microprocessor controlled time, shaking speed, turning angle and pause
- Speed range of vertical and reciprocal rotation mode 5 - 30 rpm
- Timer of vertical and reciprocal rotation mode 0 - 250 sec
- Turning angle of reciprocal rotation mode 15 - 90° (increment 15°)
- Turning angle of vortexing mode 0-5° (increment 1°)
- Pause/Vortex timer 0,1,2,...5 s
- General timer of device operation 0 - 24 hours
- Standard platform: 22 tubes up to 15mm diameter (1.5ml, 2ml, 15ml tubes)
- Optional combined platform PRS-4/12 for 4 tubes up to 30 mm diameter (50ml tubes) and 12 tubes up to 15 mm diameter (1.5ml, 2ml, 15ml tubes)

Multi Bio RS-24



General characteristics	
Overall dimensions	310x110x175 mm
Weight	1.6 kg
Power supply	External power supply: 12 V, 500 mA

### Multi RS-60, Programmable rotator-mixer

Multi RS-60



Intelligent bio -Rotator for soft & hard mixing microtubes and vacutainers.

Several options in 1 instrument: 1. Rotation 2. Reciprocal rotation 3. Vortexing

- Microprocessor controlled time, shaking speed, turning angle and pause
- Speed range of vertical and reciprocal rotation mode 5 - 60 rpm
- Timer of vertical and reciprocal rotation mode 0 - 250 sec
- Turning angle of reciprocal rotation mode 15 - 90° (increment 15°)
- Turning angle of vortexing mode 0-5° (increment 1°)
- Pause/Vortex timer 0,1,2,...5 s
- General timer of device operation 0 - 24 hours
- Standard platform: 48 tubes up to 15mm diameter (1.5ml, 2ml, 15ml tubes)
- Optional platforms:
  - PRS-14 for 14 tubes up to 30 mm diameter (50ml tubes)
  - combined PRS-8/24 for 8 tubes up to 30 mm diameter (50ml tubes) and 24 tubes up to 15 mm diameter (1.5ml, 2ml, 15ml tubes)

General characteristics	
Overall dimensions	430x230x230 mm
Weight	3.7 kg
Power supply	220/240V, 50/60Hz; max.30W

### Multi Bio 3D, Programmable "3D Ballet Dancer" Shaker

Consecutive mixing stages with programmable time and movement types: rotation, reciprocation and vortexing

- Speed range 5 - 30 RPM (Orbital and reciprocating motion)
- Turning angle (Reciprocating motion) 0° - 360° (increment 30°)
- Turning angle (Vortexing motion) 0° - 6° (increment 1°)
- Platform tilt angle 7°
- Orbit diameter 22 mm
- Timer for Orbital and reciprocating motion 0 - 250 sec
- Timer for Vortex motion 0 - 5 sec
- Number of cycles 0 - 125 times
- Maximum load 1 kg
- Optional adaptor TP-26 for 26 tubes up to 11 mm diameter

Multi Bio 3D



General characteristics	
Overall dimensions	170x220x150 mm
Weight	1.5 kg
Power supply	External power supply, 12 V, 500 mA