

### 3d gyratory rocker for blood collection and centrifuge tubes

The 3d gyratory rocker provides gentle and efficient mixing of samples through three-dimensional motion, making it suitable for experiments where foam generation of samples is critical.

#### 3D Gyratory Rocker

##### Main Features

1. Gentle mixing platform: Thorough, homogeneous mixing without foaming—ideal for small sample volumes.
2. Rubber bump tray: Holds various tube sizes—60 × 1.5 ml, 30 × 3 ml, 21 × 7 ml, and 17 × 15 ml tubes—efficiently processes diverse samples.
3. Fixed 20° tilt angle: Ensures samples are dispersed at the optimal angle for uniform mixing.
4. Fixed speed: Operates at a stable 20 rpm, guaranteeing consistent mixing results.
5. Silent design: Low vibration and noise for a quieter laboratory environment.
6. Compact size: Small, easy to use, fits in incubators or on workbenches without occupying excess space.



## **Advantages**

1. High efficiency & gentle mixing: 3D gyratory motion enables gentle, effective mixing without compromising sample integrity.
2. Space-saving: Compact design is ideal for small labs or parallel multi-unit operations.
3. Easy operation: Simple setup—no complex adjustments, minimizing user error.
4. High compatibility: Supports various tube specifications for flexible use in different experiments.
5. Quiet & low vibration: Maintains a stable, low-noise environment for sensitive lab work.

## **Working Principle**

The 3D gyratory rocker uses precision-designed three-dimensional gyratory movement, mixing containers in vertical, horizontal, and tilted directions. The 20° tilt and fixed 20 rpm speed ensure uniform sample distribution quickly, without foam formation—ideal for sensitive samples. Mixing is stable and repeatable, avoiding loss or contamination.

## **Application Fields**

1. Biomedical: Mixing serum tubes, centrifuge tubes; used in clinical labs, hematology, molecular biology—especially blood sample mixing.
2. Molecular biology: Sample mixing for DNA/RNA extraction, protein prep, reagent dissolution; ideal for small-volume samples.

- 3. Drug development/testing: Stable mixing for reaction solutions, reagents, and culture media.
- 4. Food & environmental testing: Homogenizing food/environmental samples for accurate results.

**Summary**

With stable, efficient, and gentle mixing, the 3D gyratory rocker provides superior support for various labs—delivering accurate, consistent results for small sample volumes.

<b>Model</b>	<b>R50</b>
Motion	3d rotating
Capacity	60x1.5 ml, 30x3 ml, 21x7 ml, 17x15 ml
Tilt angle	fixed ±20 degree
Speed	fixed 20 rpm
Power supply	220Vac to 240Vac 50Hz, 60Hz, 20W
Dimensions	120x150x130mm
Weight	2.0kg