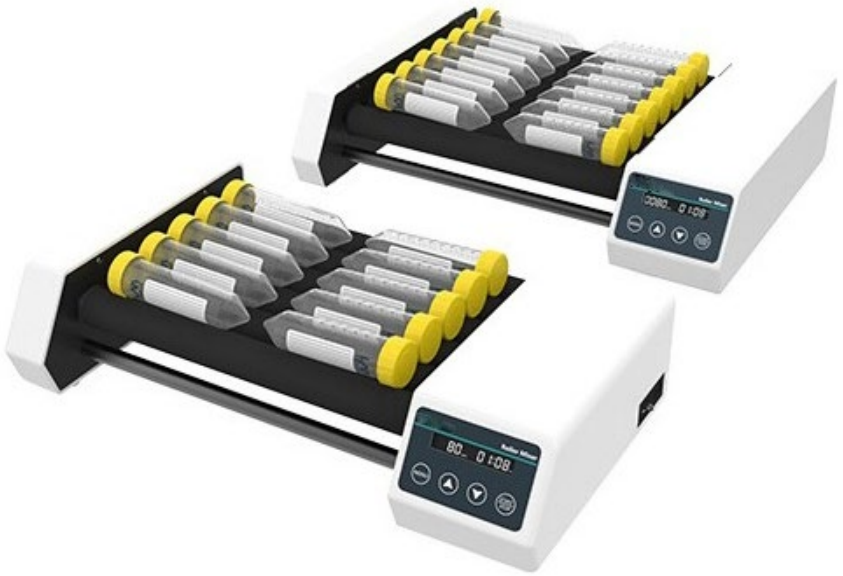
rocking roller mixer for solid-liquid suspension treatment

Rocking roller mixer is a highly efficient laboratory equipment, the use of rocking and rolling motion of the sample for full mixing, suitable for dealing with a variety of viscous liquids, blood, solid-liquid suspensions, etc., in the scientific research and clinical fields are widely used.



Rocking Roller Mixer

Main Features

1. Variety of movement: Combination of swinging and rolling mixing avoids precipitation and ensures uniform mixing.
2. Adjustable speed: 20–80rpm range, customizable for different sample needs and optimal mixing effect.
3. Brushless motor drive: High-efficiency motor reduces wear, prolongs service life, and minimizes noise/vibration for stable operation.
4. Silicone roller: Durable, smooth, and wear-resistant, suitable for long-term continuous use.
5. Optimized internal structure: Release jamming design reduces friction, improving stability and accuracy.

6. LCD display: Real-time display of speed, time, and parameters for easy operation and monitoring.
7. Model options: Six-roller and eight-roller models available; handle more samples simultaneously for higher experimental efficiency.

Working Principle

Driven by a brushless motor, the mixer produces horizontal and vertical rocking and rotating motion. Silicone rollers rotate to mix samples evenly, preventing stratification and sedimentation. Speed and time are precisely regulated for complete mixing, suitable for viscous liquids, blood, and other high-viscosity substances.

Advantages

1. Versatility: Rocking and rolling motion adapts to viscous liquids, blood, sediment, and more—no dead angle mixing.
2. Precise regulation: Adjustable speed and timing for flexible operation tailored to sample characteristics.
3. Efficient, stable: Brushless motor reduces friction/loss for long-term, high-frequency use.
4. Low noise: Quiet operation for a comfortable lab environment.
5. High durability: Silicone rollers resist wear for long life and lower maintenance costs.
6. Real-time monitoring: LCD keeps users informed of status for accurate, controlled experiments.

Application Areas

1. Medical & clinical: Mixing blood samples, preventing coagulation, maintaining uniformity, mixing drugs/media.
2. Biomedical research: Cell culture, protein/DNA/RNA extraction—ensures full contact and reaction.
3. Food & cosmetic industry: Mixing ingredients for homogeneous production.
4. Environmental monitoring: Mixing water/soil samples for pollutant extraction and reaction experiments.
5. Pharmaceutical industry: Efficient mixing of drugs/solvents during pharmaceutical processes.

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Model	**R30-6**	**R30-8**
Motion	simultaneous roll and tilt 5°	
speed range	20rpm to 80rpm	
Number of rollers	6	8
Roller length	280mm	
Roller spacing	34mm	
Capacity	12x50ml, 0.6kg	12x50ml, 0.8kg

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Model	**R30-6**	**R30-8**
Sample tube diameter	ϕ6mm to ϕ34mm	
Timer	1 minute to 23 housr 59 minutes	
Power supply	100Vac to 220Vac 50Hz, 60Hz, 50W	
Dimensions	440x255x105mm	430x320x102mm