

## **multitube vortex mixer for mixing up to 50 samples at a time**

The multitube vortex mixer can handle up to 50 samples at a time, widely used in biotechnology, microbiology, medical testing and other scientific research fields to meet the needs of high-throughput sample mixing.

### **Multitube Vortex Mixer**

#### **Main Features**

1. Knob one-button operation: Quick start, intuitive controls for easy use.
2. Wide timing range: Adjustable from 1 minute to 99 hours 59 minutes, automatic end-of-run prompt.
3. Versatile sponge tube racks: Multiple specifications, compatible with various tube types.
4. Soft start design: Smooth acceleration prevents sample splashing.
5. DC brushless motor: High-precision speed control, maintenance-free, long-lasting.
6. Mixes up to 50 samples simultaneously: Greatly increases throughput and efficiency.



7. Simple operation panel: Microprocessor precision control, LED display shows real-time speed and timing.
8. Dual operating modes: Pointing and timing modes for flexible experimental needs.

### **Advantages**

1. Efficient processing of large sample batches—saves time and labor.
2. Stable speed and soft start—protects sample integrity, reduces errors.
3. Maintenance-free motor—minimizes downtime and operating costs.
4. Diversified tube fixation—adapts flexibly to varied lab setups.
5. User-friendly—reduces training effort, improves experiment consistency.

### **Working Principle**

The multitube vortex mixer uses a brushless DC motor for stable rotary motion. Eccentric design causes tray vortex oscillation, moving samples in tubes along multi-dimensional paths for thorough mixing. Microcomputer monitors and controls speed and timing, enabling soft start and smooth transitions to prevent splashing. Sponge brackets secure tubes for uniform mixing.

## Applications

1. Microbial culture and sample homogenization
2. Biochemical reagent mixing and enzyme reaction prep
3. Oscillatory mixing of cell suspensions and blood samples
4. Sample pretreatment for medical testing
5. Drug screening and molecular biology experiments
6. Large-scale scientific or industrial small-volume sample processing

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<b>Model</b>	<b>BV20</b>
Orbit	4mm
Speed range	500rpm to 2500rpm
Timer	1 minute to 99 hours 59 minutes or continuous
Load weight	≤4.5kg

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<b>Model</b>	<b>BV20</b>
Power supply	220Vac, 50/60Hz or 110Vac, 50/60Hz
Power	70W
Dimensions	410x280x435mm
Weight	20kg

Optional accessories

<b>Order code</b>	<b>Specification</b>	<b>Suitable for the outer diameter of tubes</b>
BV20-T10	50x $\phi$ 10mm	$\phi$ 9 to $\phi$ 10mm
BV20-T12	50x $\phi$ 12mm	$\phi$ 11 to $\phi$ 13mm
BV20-T15	50x $\phi$ 15mm	$\phi$ 14 to $\phi$ 17mm
BV20-T20	50x $\phi$ 20mm	$\phi$ 18 to $\phi$ 21mm

Optional accessories

<b>Order code</b>	<b>Specification</b>	<b>Suitable for the outer diameter of tubes</b>
BV20-T25	15x $\phi$ 25mm	$\phi$ 24 to $\phi$ 27mm
BV20-T29	15x $\phi$ 29mm	$\phi$ 28 to $\phi$ 32mm