



TORONTECH

MULTI TUBE VORTEX MIXER



Multi Tube Vortex Mixer - ToronVortex™ 3000

ToronVortex™ 3000 is a high-throughput Multi Tube Vortex Mixer built for fast, repeatable mixing across large sample batches. It can vortex up to 66 tubes in one run and supports common lab vial formats using interchangeable sponge racks.

A 7-inch color touchscreen provides real-time speed and time display, while programmable steps and scheduled starts help standardize workflows across prep methods such as QuEChERS and routine reagent mixing.

APPLICATIONS

Multi Tube Vortex Mixer - ToronVortex™ 3000 Applications

- QuEChERS sample preparation – Supports extraction workflows for pesticides, antibiotics, and drug residues by delivering consistent, high-energy mixing across many tubes at once.
- Pesticide residue testing (plant-derived samples) – Useful for screening and multi-residue methods where many extracts must be mixed uniformly before GC-MS/MS or LC-MS analysis.
- Veterinary drug and antibiotic residue analysis – Helps homogenize and mix sample extracts for methods such as LC-MS/MS and HPLC across animal tissues and related matrices.
- Molecular biology workflows – Supports PCR and DNA extraction steps by quickly mixing reagents and samples with repeatable settings.
- Cell biology and culture prep – Assists with routine mixing tasks in cell culture workflows where gentle-to-strong mixing profiles may be needed.
- Food, pharma, chemical labs – Fits high-volume QC/R&D environments that need time-saving, standardized vortex mixing across multiple vial sizes.



FEATURES

Multi Tube Vortex Mixer - ToronVortex™ 3000 Key Features

- High-throughput mixing for batch workflows – Processes up to 66 samples simultaneously (with 2 mL tubes) to reduce manual handling and improve consistency.
- 7-inch touchscreen with live status – Displays current speed and remaining time in real time for easier monitoring and repeatable runs.
- Programmable automation for repeatability – Supports scheduled start, cycle settings, and multi-step programs with different speeds and durations to match different matrices.
- Multiple operating modes – Offers three operation modes to handle different sample types and preparation needs.
- Flexible vial compatibility – Works with 100 mL, 50 mL, and 15 mL vials and can be configured with customized racks.

TECHNICAL SPECIFICATIONS

Multi Tube Vortex Mixer - ToronVortex™ 3000 Technical Specifications

Parameter	Specification
Vortex Rate	500 to 3000 rpm, adjustable
Vortex Mode	Pulse, programmed gradient, back-and-forth
Motor	Brushless motor
Sample Capacity	66 (2 mL EP tubes); 50 (15 mL centrifuge vials); 18 (50 mL centrifuge vials); 15 (100 mL centrifuge vials)
Software Control	7-inch built-in touch screen
Dimensions	400 mm × 310 mm × 520 mm

Parameter	Specification
Weight	25 kg
Power	150 W
Voltage	200 to 240 V, 50/60 Hz (110V is also available)



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