



TISSUE GRINDER

Tissue Grinder - ToronTG™ 3000 (Automated)

Tissue Grinder performance matters when your lab runs high sample volumes and tight turnaround. ToronTG™ 3000 (Automated) is a vertical oscillation tissue grinder designed for rapid sample shaking and mixing, cell disruption, and tissue homogenization, with a workflow that supports QuEChERS-style sample extraction.

High throughput is built into the design, with capacity for up to 576 samples per batch to help standardize prep across technicians and shifts. Fast method setup, clear visibility into the run, and safety-focused door interlocks make it a strong fit for busy analytical and life science labs.

APPLICATIONS

Tissue Grinder - ToronTG™ 3000 (Automated) Applications

- Food safety sample prep (QuEChERS extraction) Supports rapid, repeatable shaking for pesticide residue extraction workflows where consistent mixing impacts recovery and repeatability.
- Veterinary drug residue extraction (animal-derived foods) Helps homogenize tissues and improve extraction consistency before LC/GC workflows, especially when batches are large.
- Life science tissue processing and nucleic acid extraction Supports plant and animal tissue disruption for nucleic-acid-focused prep steps where uniform homogenization improves downstream results.
- Herbal and botanical matrices (high-matrix samples) Fits rapid sample processing for complex plant materials used in multi-residue pesticide workflows.



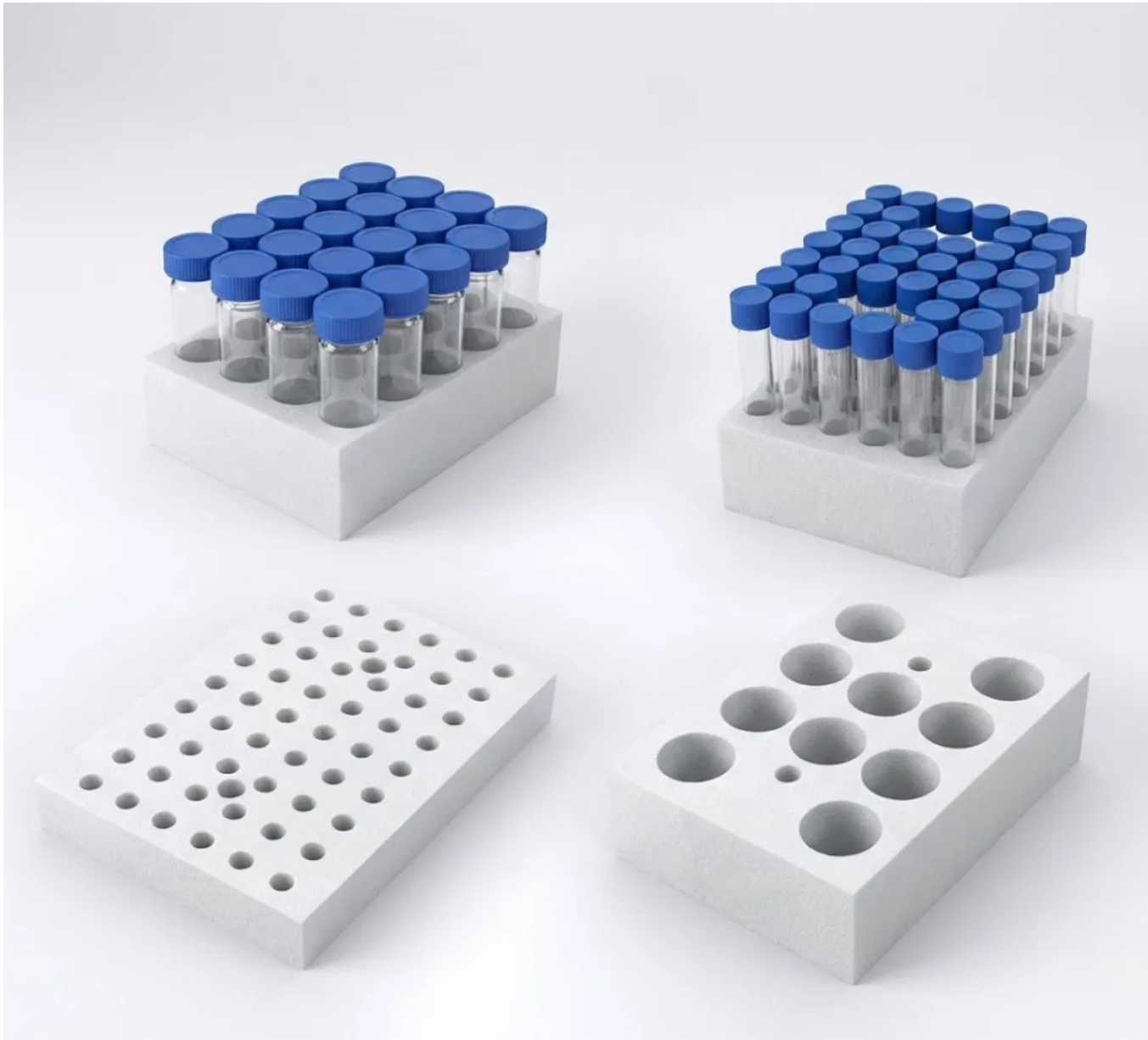
Standards

QuEChERS workflows commonly align with EN 15662 (European method for pesticide residue analysis in foods of plant origin) and AOAC Official Method 2007.01 (QuEChERS pesticide residues method). ToronTG™ 3000 supports the high-energy shaking and high-throughput sample handling needed for these standardized sample preparation approaches.

FEATURES

Tissue Grinder - ToronTG™ 3000 (Automated) Key Features

- High-throughput batch processing
 - Handles up to 576 samples in one batch for standardized prep across large runs.
- Wide tube compatibility with configurable racks
 - Supports racks for 2 mL cryogenic vials, plus 15 mL, 50 mL, and 100 mL centrifuge vials, with rack options that can be customized for specific applications.
- Adjustable shaking for method-driven prep
 - Shaking rate is adjustable from 500 to 1800 rpm, with a 32 mm max oscillating distance to help tune mixing intensity by matrix type.
- Operator-friendly control and repeatable methods
 - A 7-inch built-in touch screen displays run parameters, supports start/stop control during operation, and enables scheduled and recurring runs with up to 50 stored methods.
- Clear viewing during operation
 - A transparent window with built-in LED lighting lets staff check tube position and run status without interrupting the workflow.
- Built-in safety interlocks
 - An electronic lock stops operation automatically when the door opens, helping reduce risk during high-speed oscillation.



TECHNICAL SPECIFICATIONS

Tissue Grinder - ToronTG™ 3000 (Automated) Technical Specifications

Specification	Details
Shaking Rate	500 to 1800 rpm, adjustable
Max. Oscillating Distance	32 mm
Sample Capacity	54 (2 mL), 38 (15 mL), 20 (50 mL), 10 (100 mL)
Sample Tube Types	2 mL cryogenic vials; 15/50/100 mL centrifuge vials
Software Control	7-inch built-in touch screen
Method Storage	Max. 50
Dimensions	370 mm × 520 mm × 690 mm
Weight	70 kg
Power	1500 W
Voltage	200 to 240 V, 50/60 Hz (110V is also available)
Storage Temperature	0 to 40 °C
Storage Humidity	20 to 85%
Operating Temperature	10 to 40 °C
Operating Humidity	20 to 80%



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