



TORONTECH



## **AUTOMATED HOMOGENIZER - TORONAH™ 50**

# Automated Homogenizer - ToronAH™ 50

ToronAH™ 50 is an Automated Homogenizer designed to automate solvent addition, high-speed homogenization, and cutter/probe cleaning in one workflow. It replaces manual pre-treatment steps and supports unattended operation for high-throughput sample processing—up to 36 samples per batch.

ToronAH™ 50 is built for residue testing and routine lab prep where consistent homogenization and low carryover matter. Its flexible racks support multiple tube formats and compatibility with conventional centrifuge vials, helping standardize preparation across different methods and sample types.

## APPLICATIONS

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### Automated Homogenizer - ToronAH™ 50 Applications

- Pesticide residue screening (food safety)
  - Automates homogenization and solvent addition for vegetable, fruit, and other agricultural samples used in multi-residue workflows.
- Veterinary drug residue testing
  - Supports consistent pre-treatment for animal-derived matrices such as meat, eggs, and milk, where repeatable homogenization is critical for extraction efficiency.
- High-moisture samples
  - Suitable for water-rich matrices like leeks, spinach, and celery, where uniform blending helps improve extraction repeatability.
- High-fat samples
  - Handles fatty matrices such as meat, sausages, and fish, supporting more stable preparation before downstream cleanup and analysis.

- High-fiber samples
  - Works well for fibrous materials including animal feeds and green forage, where strong homogenization is needed to reduce sample variability.

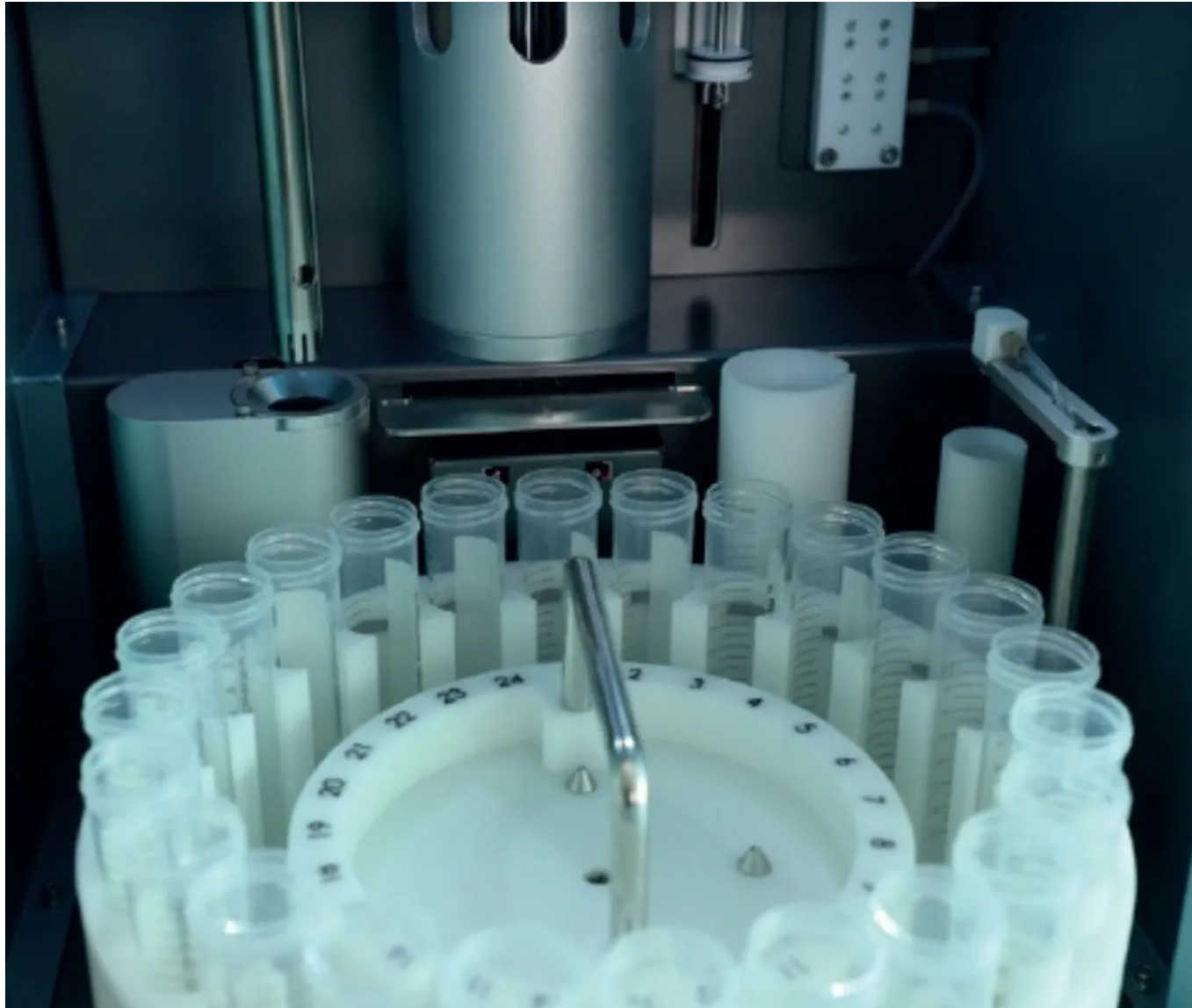


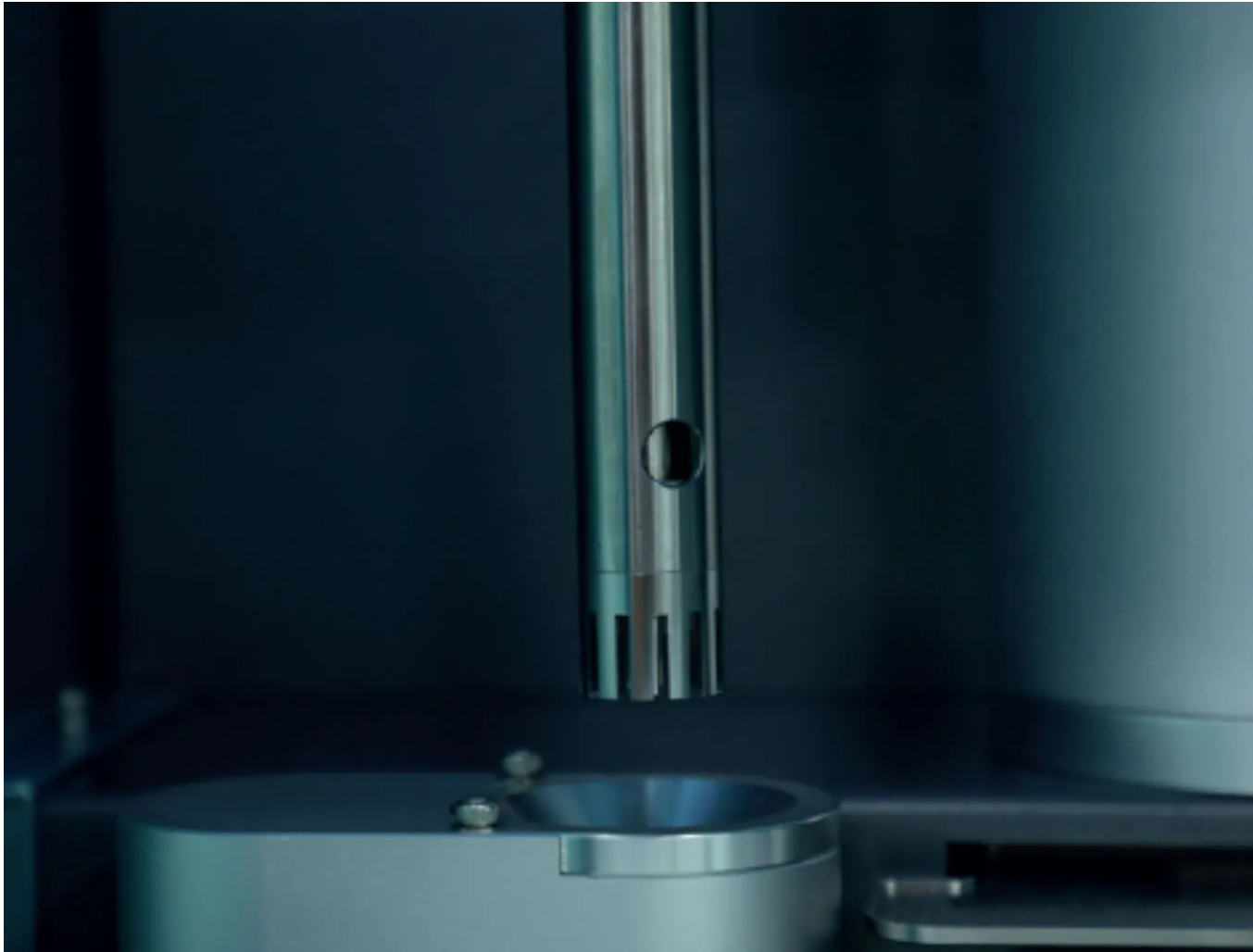
## FEATURES

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### Automated Homogenizer - ToronAH™ 50 Key Features

- Fully automated workflow (low labor, high repeatability)
  - Automates solvent adding + homogenization + cutter cleaning, enabling unattended operation and reducing manual variability.
- High throughput for busy labs
  - Processes up to 36 samples per batch, improving daily sample capacity for routine screening.
- Cross-contamination control with automated probe cleaning
  - Generator probes can be cleaned automatically during operation, with multiple cleaning methods to help minimize carryover between samples.
- Flexible tube racks and broad compatibility
  - Multiple sample tube racks are available, and the unit is compatible with conventional centrifuge vials for easier integration into existing workflows.
- Safer, cleaner operation for solvent-based prep
  - Designed to save space in a fume hood and help reduce organic solvent exposure, with a transparent door and LED lighting for clear visibility.
- Built-in safety monitoring
  - Includes alarms for abnormal conditions such as cutter mis-position, motor overheat, and sample overload to support reliable daily operation.
- Easy graphical interface
  - Graphical software interface supports both experienced staff and new operators.





**TECHNICAL SPECIFICATIONS**

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**Automated Homogenizer - ToronAH™ 50 Technical Specification**

| Parameter | Specification |
|-----------|---------------|
|-----------|---------------|

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|---------------------|---------------------------------------------------|
| Carousel Rack Range | 12, 16, 24, 36 positions; aluminum alloy, plastic |
| Oscillation Mode    | Up-and-down vertical motion                       |
| Rinsing Mode        | Water, organic solvents, ultrasound rinsing       |
| Software Interface  | 10-inch built-in monitor screen control           |
| Certificate         | CE                                                |
| Dimension           | 57 cm × 40 cm × 78 cm                             |
| Weight              | 75 kg                                             |
| Power Rating        | 600 W                                             |
| Speed Control       | 3,000 to 25,000 rpm                               |
| Generator Probes    | 10 mm × 108 mm; 19 mm × 204 mm                    |
| Sample Tube Range   | 15 mL, 50 mL, 100 mL, 120 mL, 200 mL              |



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