



# DESKTOP TORQUE RHEOMETER

QualiTR-T200



# Desktop Torque Rheometer

## QualiTR-T200

QualiTR-T200 Desktop Torque Rheometer is a compact, space-saving solution developed from the advanced QualiTR-300 system.

Designed for laboratories with limited space and budget constraints, the **QualiTR-T200 offers powerful performance in a smaller footprint.** Despite its compact design, the QualiTR-T200 delivers precise measurements and full functionality for simulating polymer mixing, compounding, and extrusion processes.

Its user-friendly operation and modular design make it suitable for a wide range of material testing applications across the plastics, rubber, pharmaceutical, and composite industries. Making it the ideal choice for routine testing, formulation development, and educational use.





## FEATURES/ADVANTAGES

### Space-Efficient, High-Performance Design

Desktop configuration offers a compact, cost-effective solution without sacrificing performance, making it ideal for labs and research facilities.

### Precision Control & Versatile Drive System

Equipped with a servo motor drive for smooth torque and speed regulation, enabling accurate, repeatable rheological measurements across a range of materials.

### Rotor Flexibility & Real-Time Monitoring

Supports various rotor types—Roller, Banbury, Delta, Cam, and Sigma—and features real-time tracking of temperature, torque, speed, pressure, and energy.

### Integrated Safety & Smart Protection

Integrated safety features combine both mechanical and software-based protections to minimize operational risks. This ensures safe usage and enhances long-term system reliability.

## INTEGRATED SOFTWARE MODULES

### Measurement and Control Software

Facilitates smooth and intuitive machine operation with user-friendly controls, real-time data visualization, and automated parameter adjustment for consistent performance.

### Mixer Data Processing Software

Provides in-depth visualization and quantitative analysis of material mixing behavior, including torque dynamics, temperature fluctuations, and time-based performance trends.

### Extruder Data Processing Software

Supports various rotor types—Roller, Banbury, Delta, Cam, and Sigma—and features real-time tracking of temperature, torque, speed, pressure, and energy.

### Polymer Melt Viscosity Analysis

Calculates melt viscosity and flow behavior under different shear conditions, providing accurate data for formulation and material comparison.



# TECHNICAL SPECIFICATIONS

SPECIFICATION	DETAILS
Drive System	Servo motor driven
Motor Power	2 kW
Heating Range	Room temperature ~ 350°C
Temperature Accuracy	±0.5°C
Heating Method	Three-zone electric heating
Torque Measurement Range	0 – 300 N·m
Torque Accuracy	0.05% F.S.
Speed Range	0.01 – 150 rpm
Speed Accuracy	0.1% F.S.
Rotor Types	Roller (standard), Banbury, Delta, Cam, Sigma
Measured Data	Temperature, Torque, Pressure, Speed, Energy
Safety System	Mechanical + software double protection







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## Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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