

# RSO™ Oscillatory Rheometer

AMETEK Brookfield brings viscoelasticity measurements within your reach!



Quick Test functionality allows for testing within minutes



Stand-alone mode with easy-to-use interface makes it simple for QC Users



Viscoelastic measurements provide R&D users with advanced testing capabilities



Flexibility allows cone/plate and concentric cylinder in a single instrument

## What's Included

- **Instrument**  
with Peltier temperature control for sample plate
- **Convenience Package**  
includes cleaning cloth and screen protector
- **Air Filtration System**  
is added to all orders unless specifically removed

## Optional Accessories

- Choice of Cone or Plate Spindle Geometries (at Least One Is Required)
- Rheo3000 Software
- Viscosity Standards
- Choice of Thermal Barrier
  - Teflon (0° – 200°C)
  - Stainless Steel (0° – 200°C+)
- Coaxial Cylinder
  - Bob (spindle) and Chamber
  - FTKY3 Water Jacket for Temperature Control
- Temperature Bath



## Features

**Controlled shear stress / shear rate** operation makes it easy to study static yield to flow curve and viscoelastic behavior

**User-friendly Touch Screen** and graphical display for standalone operation

**Quick Connect Coupling System** for easy spindle attachment

**Instrument flexibility** allows for cone/plate and concentric cylinder in one

**Very Small Sample Size** permits rapid test setup and cleanup

**Spindle Barcode** for auto spindle recognition

**Standalone simplicity** for QC users

**Automatic Gap Setting** for quick and easy gap setting

**Rapid Temperature Control** of plate with Peltier option for quick profiling of viscosity vs. temperature

**Optional Rheo3000 Software** allows for PC control and data acquisition/analysis of multiple test files

### MODEL SPECIFICATIONS

Min Torque	5μNm
Max Torque	100mNm
Resolution of Torque	0.02μNm
Bearing	Air bearing
Resolution of deformation	1.25μrad
Min speed	0.001rpm
Max speed	1500rpm
Min frequency	0.001 Hz / 0.006 rad/s
Max frequency	20 Hz / 126 rad/s
Measurement system	Cylinder/Cone Plate
Temp control	Peltier or bath option
Min Temp.	0° C
Max Temp.	180° C
Size W×H×D	360×600×340mm
Weight	31kg



Water Jacket



Choice of cone spindles and plate spindles accommodates various sample types. Plate spindles can be used for highly-filled or very viscous samples.



**Thermal Barrier** reduces the effects of heat transfer to the environment. Two part chamber provides thermal isolation of the measurement zone.