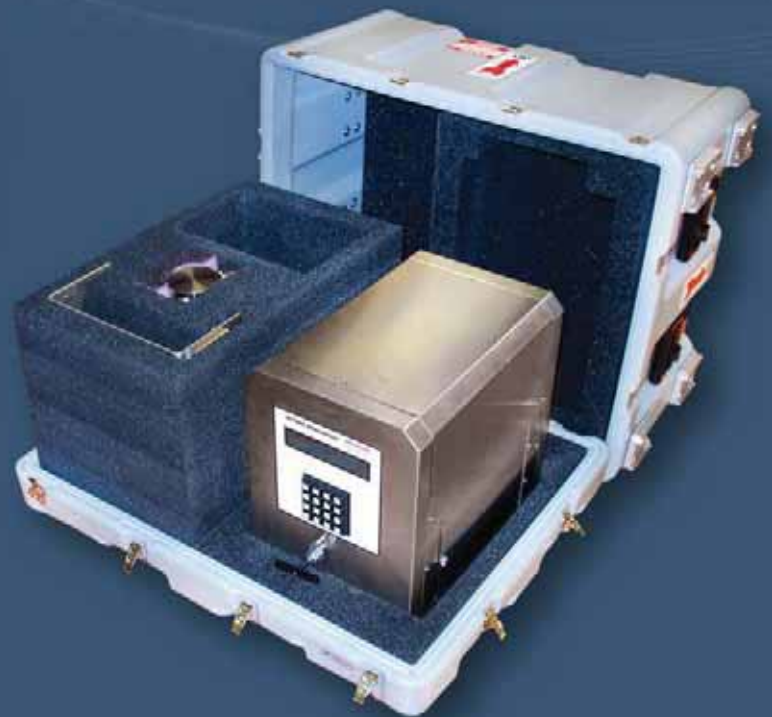


Grace

INSTRUMENT

Scientific Innovations • Industrial Solutions



The **Grace Instrument M3080 Variable Speed Mixer** is specifically designed to meet all your oil field testing requirements. It functions as a mixer for cement and other shear-sensitive dry or fluid materials and complies with all existing API guidelines.

The results obtained from thickening time tests performed using the **M3080** not only have the most accurate data, but the results have greater reproducibility and correlate better with data from other laboratories.

In addition, when testing cement, wide variations in shear rate are avoided as the **M3080** holds the speed constant for 15 seconds (as specified by API Spec 10, Section 5) without operator attention, so that the cement can be added slowly.

The **M3080** can effectively eliminate human errors and increase work efficiency. Able to withstand harsh working environments, the **Grace Instrument M3080 Variable Speed Mixer** is the ideal variable speed mixer for your mixing applications.



- Durable stainless steel mixing blades
- 1 L stainless steel mixing container that can withstand abrasive action
- 2 preset mixing speeds
- Variable speeds
- Complies with all API standards
- Microprocessor controlled speeds allow operator to set customized speed acceleration rate
- User-friendly LCD display of rpm and time
- Rotational speed is maintained at set point with microprocessor
- Timing relays automatically control mixing at the required rpm
- No variation in thickening time tests due to changes in shear rate
- Operator can quickly select API speeds while adding cement to mixer

M3080 benefits:

- customizable mixing speed sequence
- easy and simple automatic operation
- durable stainless steel cup
- lightweight, yet sturdy
- automatic data collection
- low maintenance

Mechanical Specifications:

Two Constant Speed Ranges:
4,000 rpm and 12,000 rpm
Dimensions / Footprint:
26" tall x 16" wide x 11" deep
Weight: 35 lbs
Construction: Stainless steel

Utility Requirements:

Electrical Supply Voltage: 115 VAC to 220 VAC
(Can be operated with 1.25 KVA power supply)
Line Frequency: 50 to 60 Hz

The **Grace Instrument M3600 Viscometer** is a true Couette, coaxial cylinder, rotational viscometer. It is engineered to meet the various fluid rheology measuring needs of our customers, from on-site oilfield personnel doing single-speed tests in harsh environments to laboratory researchers doing advanced rheology testing.

The **M3600** incorporates a steel framework, robust electronics and user-friendly interface for years of trouble-free operation and minimal maintenance. Clean-up between tests is easy and quick, and calibration is automatically performed with the push of a button.

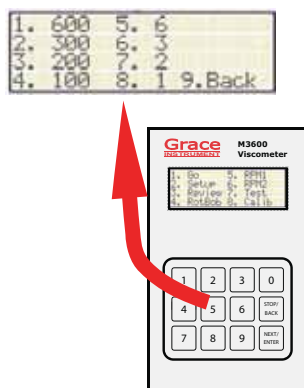
Used as a stand-alone unit, or with a Microsoft® Windows™ PC and the included **M3600daq™** and **M3600Frac™** software, the **M3600** provides versatile and affordable solutions to meet your viscometer needs.



The **M3600** has two operating modes:

1) Stand-alone Mode:

- Perform standard API tests by pressing two keys - Press **5**, **6**, or **7** to bring up a selection of pre-programmed tests, then press the key for the test you want.
- Quickly create multiple custom test steps and save the results of your tests.
- Review your test results quickly and easily.



The **M3600** incorporates years of customer feedback into its design:

- sturdy
- compact
- light weight
- automatic
- fully digital
- LCD display
- keypad control
- test data storage
- repeatable results
- low maintenance

Measurement Range (B1, B2, B5 bob):

- Sample size: 180 mL
- Speed: 0.01 to 600 rpm continuous
- Shear Rate: 0.0038 to 1020 S⁻¹
- Temperature: Ambient (20 °F w/chiller) to 212 °F
- Pressure: Atmospheric pressure
- Viscosity: 0.5 to 27,000,000 Centipoise
- Torque: 7 μN.m to 14 mN.m
- Shear Stress: 2 to 3,600 dyne/cm²
- Resolution: 1 dyne/cm²
- Accuracy: ±0.5% of torque span or better

Mechanical Specifications:

- Dimensions / Footprint: 16" tall x 5" wide x 8" deep
- Weight: 12.5 lbs

Electrical Supply:

- Viscometer Voltage: 90 VAC to 240 VAC
- Heater cup Voltage: 120 VAC or 240 VAC

M3600 geometries conform to API test specifications.

2) PC Interface Mode:

- Interface **M3600** with PC using **M3600daq™** or **M3600Frac™** software for advanced rheology test setup, control, display and data management.
- Microsoft® Windows™ based software
- Export data into Microsoft® Excel™
- Customize charts for data relationships



The **Grace Instrument M4600 HPHT Linear Swell Meter** is an automated, dual core, high pressure and high temperature linear swell meter (up to 2,000 psi and 500 °F). It is engineered to measure the volumetric expansion (or contraction) of a core/wafer sample under simulated downhole conditions while saturating it with a drilling fluid sample.

The **Grace Instrument M4600 HPHT Linear Swell Meter** provides the most repeatable test results on the market today. The patent-pending design allows core samples to expand in only one direction, making test results very repeatable.

It is the only HPHT linear swell meter available that is manufactured in the United States, and it has been designed specifically so that operation is both fast and easy. Quick sample loading and hardware setup optimize the testing process.

The **M4600** is also available with a dual core/wafer compactor so that drill cuttings, or other solids, can be compressed into a self-adhering core/wafer and tested in the **M4600 HPHT Linear Swell Meter**. Measuring the expansion (or contraction) of actual down-hole cuttings under HPHT conditions will yield data that is far more representative of downhole engineering applications than atmospheric testing alone. This allows researchers to design better fluids, project managers and technicians to make better fluid selection decisions, and QA personnel to identify potential problems with fluid and downhole solids interactions.

The **M4600** uses Grace **M4600daq** software for data acquisition. Test data collection can be customized in order to evaluate various volumetric sample changes over various time quantities, and real-time data is displayed along with customized charts during the course of a test. Test data is easily exported into Microsoft Excel for report generating either during or after a test is completed.



M4600 patent pending in USA and China

The **M4600** is engineered for laboratory HPHT testing of solids and fluids interactions:

- PC interface
- digital data
- easy to operate
- safe operation
- test flexibility
- repeatable results
- low maintenance
- automatic data collection

Measurement Range:

Sample size:	75 mL
Pressure Range:	Atm to 2,000 psi
Core/Wafer Diameter:	1.00 inch
Core/Wafer Length:	0.4 to 1.00 inch
Maximum Linear Displacement:	±0.6 inches
Linear Resolution:	0.1% of full scale range
Temperature:	Ambient to 500 °F

Mechanical Specifications:

Dimensions / Footprint: 21" tall x 20" wide x 14" deep
 Weight: 55 lbs
 Construction: 304/316 Stainless steel wetted material

Core/Wafer Compactor



18" tall x 14" wide x 8" deep

Utility Requirements:

Electrical Supply Voltage: 120 VAC to 240 VAC
 Line Frequency: 50 to 60 Hz
 Power Consumption: 500 VA
 Pressure Supply: Nitrogen: Atm - 1,000 psi

The **Grace Instrument M5600 HPHT Rheometer** is a true Couette, coaxial cylinder, rotational, high pressure and temperature rheometer (up to 1,000 psi and 500 °F). It is engineered to measure various rheological properties of fluids, including n' , k' and viscosity.

The **M5600** is also available with an optional viscoelastic module for performing oscillatory tests to derive G' , G'' and phase angle. This vastly increases the researcher's ability to predict the behavior of fluids, such as its capacity for carrying solids (weight material sag, drill cuttings transport, proppant transfer, etc.).

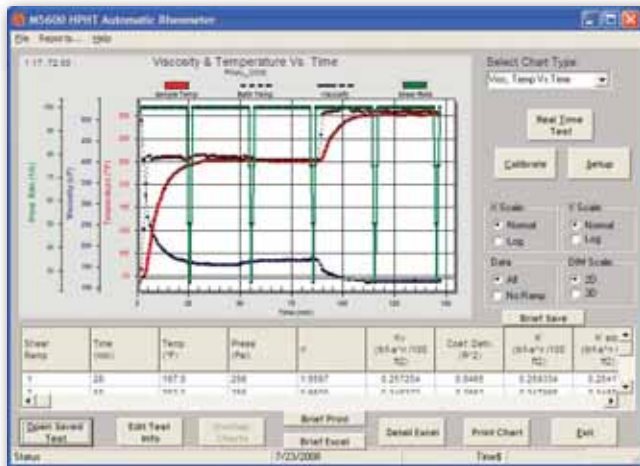
The **M5600** incorporates a direct drive between the bob shaft and the torque transducer, which eliminates momentum of inertia errors associated with magnetically coupled torque transducers. The patented design also eliminates bob shaft bearings, allowing the torque transducer to respond quickly and consistently to changing bob shaft torque.



Grace M5600-PC™ Software:

- Tests are simple to set up and run with **Grace M5600-PC™ Software**
- Customizable charts and real-time data are displayed during testing
- Data can be instantly exported into Microsoft® Excel™

M5600-PC™ Software - Screen Capture



Test Report:

- example report generated by clicking on "Detail Excel" button in **M5600-PC™ Software**

The **M5600** incorporates years of research into its innovative design:

- sturdy compact automatic
- fully digital LCD Display PC interface
- fast test cycle: *setup - load - test - clean*
- direct-coupled torque transducer
- repeatable results oil bath or carbon block

Measurement Range (B1, B2, B5 bob)

- Sample size: 32 – 78 ml
- Speed: 0.0001 – 1,100 rpm continuous
- Shear Rate: 0.00004 – 1870 S⁻¹
- Freq. Range: 0.01 – 5 Hz (with dynamic option)
- Amp. Range: 0.1% – 500% (with dynamic option)
- Temperature: Ambient (20 °F w/chiller) to 500 °F
- Pressure: Atm to 1,000 psi
- Viscosity: 0.5 – 5,000,000 Centipoise
- Torque: 14 μN.m to 100 mN.m
- Shear Stress: 1 to 10,000 dyne/cm²
- Resolution: .01% of full scale range or better
- Repeatability: ±0.5% of full scale range or better

Mechanical Specifications:

- Dimensions / Footprint: 25.5" tall x 8.5" wide x 12.5" deep
- Weight: 66 lbs

Utility Requirements:

- Electrical Supply Voltage: 120 VAC or 240 VAC
- Coolant supply: Tap water or chiller
- Compressed nitrogen: 1,000 psi

The **Grace Instrument M6500 Spinning Drop Tensiometer** was developed for measuring interfacial tension, surface tension, and absorption rate between two different fluids. Engineered with the researcher in mind, the **M6500** is built to be dependable, accurate, and easy to operate. Responsive temperature controls and optimum synchronization of the instrument allow the sample to be observed over a long period of time under constant conditions.

When measuring low interfacial tension, the **M6500** features enhanced accuracy compared to automatic, software-controlled units thanks to an advanced much-higher-resolution microscope than on competing models.

Features:

- RTD temperature transducer - accurate temperature reading
- PID temperature controller - stable at target temperature
- Accurate speed controller ensures high image synchronization
- High accuracy of reading with stroboscope illumination
- Side handles for portability
- Quick and easy leveling adjustment
- Optional chilling sleeve for low temperature applications



The **M6500** is designed around the needs of the modern laboratory:

- high resolution
- microscope-enhanced LCD readout
- easy to operate
- responsive speed-strobe synchronization
- light weight
- repeatable results
- low maintenance
- fast test cycle: setup-load-test-clean

Measurement Range:

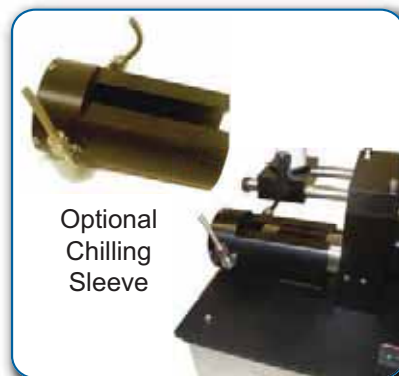
Temperature Range: Ambient (45 °F w/chiller) to 212 °F
 Speed Range: 0 to 11,000 rpm continuous
 Surface Tension Measurement Range: 10^{-6} to 2 mN/m
 Capillary Diameter: 2.0 mm
 LCD Resolution: 0.0001 mm
 Microscope Magnification: 25x
 Voltage: 120 VAC or 240 VAC (with transformer)

Utility Requirements:

Electrical Supply Voltage: 120 VAC to 240 VAC
 Line Frequency: 50 to 60 Hz
 Power Consumption: 500 VA

Mechanical Specifications:

Dimensions / Footprint: 19" tall x 19.5" wide x 11.5" deep
 Weight: 24 lbs



Optional Chilling Sleeve

The **Grace Instrument M7500 Ultra HPHT Rheometer** is a coaxial cylinder, rotational, high pressure, and high temperature rheometer. It is engineered to measure various rheological properties of fluids (including API HPHT tests) under a range of pressures and temperatures, up to 30,000 psi and 600 °F. An optional cement module is also available for testing the rheology of cements.



- The M7500 is built with a thick-walled steel pressure cell, which is surrounded by a fail-safe steel containment vessel to ensure operator safety.
- It is designed for easy test set up, sample loading and post-test cleaning.
- Cool-down after tests can be sped up by connecting a tap water supply or a chiller into the M7500's cooling fluid loop.
- Innovative patented design ensures against contamination of test sample with pressurization fluid.
- Recently patented design eliminates the need for fragile and expensive "V" jewel bearings.

Measurement Range (B1, B5 bob):

- Sample size: 132 mL
- Speed: 0.01 to 600 rpm continuous
- Shear Rate: 0.0082 to 1020 S⁻¹
- Temperature: Ambient (20 °F w/chiller) to 600 °F
- Pressure: Atm to 30,000 psi
- Viscosity: 0.5 to 5,000,000 Centipoise
- Torque: 7 μN.m to 10 mN.m
- Shear Stress: 2 to 1,600 dyne/cm²
- Resolution: 0.3% of full scale range or better
- Repeatability: ±1% of torque span or better

Mechanical Specifications:

- Dimensions / Footprint: 22" tall x 12" wide x 24" deep (tower)
- Weight: 250 lbs 12" tall x 25" wide x 15.5" deep (cab)

Electrical Supply:

- Voltages: 120 VAC or 240 VAC

Misc. Supply Specification:

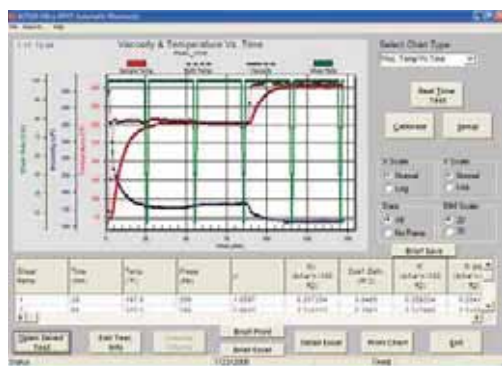
- Coolant supply: Tap water or chiller
- Compressed air: 120 psi

Includes:

- R1 sleeve • B1 bob • 1 gal. High Pressure Oil • 16 oz 100 cP cal. oil • 16 oz 200 cP cal. oil • USB/Serial adaptor • Operation manual

M7500 geometries conform to API test specifications

M7500 Software - PC Screen Image:



Address	Comment	Units	Bit Number
0	Temperature	°F	15
1	Pressure	Psi	16
2	Shear Rate	1/S	17
3	Speed	RPM	18
4	Shear Stress	dyne/cm2	19
5	Viscosity	cP	20
6	Gamma	1/Sec	21

- report generated by clicking on "Detail Excel" button in **M7500daq™**

Step No.	Time (Min)	Temp (°F)	Pressure (Psi)	Shear Rate (1/S)	Speed (RPM)	Shear Stress (dyne/cm2)	Viscosity (cP)	Gamma (1/Sec)	Gamma Dot (1/Sec)
1	20	117	0	102.00	200	210.0	41.2	49.9	41.2
2	27.2	110	0	102.38	600	388.1	36.1	71	70.1
3	28.6	120	0	102.00	200	202.7	36.7	69.8	36.7
4	29.8	110	0	340.48	200	101.2	44.4	80	29.8
5	31	110	0	102.23	100	98.8	66.6	29.8	10.0
6	32.4	130	0	10.21	5	26.9	200	19.9	5.1
7	34.5	142	0	101.00	200	19.25	31.7	5	25.1
8	46	149	0	102.38	600	202.8	28.7	57.5	57.5
9	47.5	150	0	340.48	200	107.9	34.8	57.5	34.8
10	48.5	150	0	340.48	200	107.1	43.3	34.9	26.8
11	49.5	150	0	10.21	5	21.7	310.4	18.3	6.1
12	50.5	151	0	10.21	5	20.2	502.2	6.6	6.1
13	51	150	0	10.21	5	18.1	34.7	69.9	69.9
14	52.2	152	0	102.00	200	203.0	41.7	69.4	41.7
15	53.9	152	2382	102.38	600	394	34.7	69.9	69.9
16	55.2	152	2384	102.00	200	203.0	41.7	69.4	41.7
17	56.4	151	2387	340.48	200	160.4	47.1	42.1	31.4
18	57.6	150	2391	102.23	100	106	62.4	21.5	21.5
19	58.8	151	2381	10.21	5	26	342.7	21.1	6.4
20	60	151	2385	10.21	5	27.5	544.4	11.2	6.4
21	61	150	2384	10.21	5	27.5	544.4	11.2	6.4
22	62.4	150	5194	102.38	600	321.5	31.5	64.8	62.8
23	63.6	200	5194	101.00	200	202.2	38.8	61	28.8
24	64.8	199	5029	340.48	200	147.8	43.4	38.9	28.8
25	66.1	199	5026	102.23	100	107.2	57.1	29	19
26	67.3	199	5052	10.21	5	31	303.5	18.1	6.1

The **Grace Instrument M8500 High Pressure, High Temperature Dynamic Sag Tester** is designed for evaluating barite and other weight material sag under simulated drilling conditions.

Data Integrity

The innovative design of the **M8500** accumulator piston prevents contamination of the drilling fluid inside the testing cell with pressurization fluid.

Control Parameters

A sample of drilling fluid is subjected to an adjustable temperature, pressure, rotor (pipe) speed and borehole angle for a set period of time.

Sample Extraction

Small amounts of the sample are taken from a defined collection site within the testing cell while maintaining temperature, pressure, and shear conditions. This method of sample extraction produces repeatable results.

Sample Characterization

Density and composition of the extracted sag samples can be measured. Other qualitative and quantitative analysis can also be performed.

Multifunction Option

The **M8500 HPHT Dynamic Sag Tester** is available with optional HPHT Fluid Rheometer, HPHT Cement Rheometer, and/or PVT Tester modules. These options allow a laboratory to significantly expand the scope and variety of fluid performance testing, without having to purchase, operate and maintain multiple instruments.

Measurement Range (B1, B2, B5 bob):

Total Sample Size: 400 mL
 Speed Range: 0.01 to 600 rpm continuous
 Shear Rate: 0.004 to 202 S⁻¹
 Temperature: Ambient (20 °F w/chiller) to 600 °F
 Pressure: Atm to 20,000 psi
 Borehole Angle: 0 to 80°
 Computer: Windows PC

Mechanical Specifications:

Dimensions: 30" tall x 12.5" wide x 25" deep (tower)
 20" tall x 14" wide x 25" deep (cab)
 Weight: 278 lbs

Electrical Supply:

Viscometer Voltage: 120 VAC (or 240 VAC w/transformer)
 Frequency: 50 or 60 Hz



Example of Sag Test Results:

Table 1: M8500 Dynamic Sag Tester Results for 11.00 lb/gal, oil-based fluid with API Barite weight material		
Initial Mud Density	lb/gal	11.00
Borehole Angle	degrees	80
Temperature	°F	300
Pressure	psi	20,000
RPM	rpm	100
Annulus	inch	0.375
Shear Rate	S ⁻¹	33.71
Sag Density after 1 hour	lb/gal	13.14
Density Difference	lb/gal	2.14
Relative Density Increase	%	19.45

The **Grace Instrument M9100 Automatic Core Flow Tester** is designed to accurately measure permeability changes to a formation core sample in a high temperature and high-pressure environment, while exposing it to a variety of test fluids. A core that is collected from a formation is inserted into a core holder. A computer with **Grace Instrument M9100 Core Flow™ Software** controls the environment within the core holder and the injection rate and/or pressure of fluid into the core. Many different types of tests can be performed with the **M9100** by changing the test parameters in the test setup section of the **M9100 Core Flow™ Software**.



The M9100 is easy to operate:

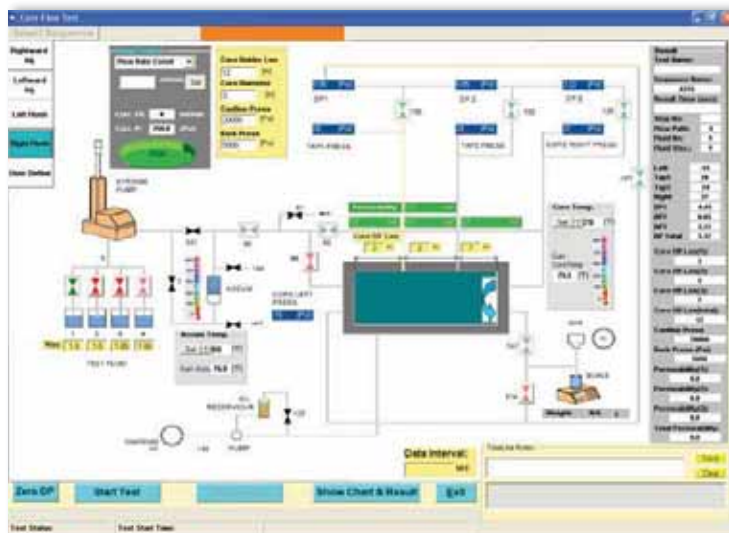
- Step 1. Setup test parameters using the **M9100 Core Flow™ Software**
- Step 2. Insert a core into the core holder
- Step 3. Load test fluid into the accumulator
- Step 4. Click **Start** on the **M9100 Core Flow™ Software** main screen

Specifications:

- Operating temperature: Ambient to 392 °F
- Confining pressure: Atm to 15,000 psi
- Working pressure: Atm to 10,000 psi
- Back Pressure: Atm to 10,000 psi
- Accumulator: 0.5 or 1 L
- Fluid Injection Rate: 0 to 80 mL/min
(depends on type of pump)
- Core Dimensions: 1" or 1.5" x 6" or 24"
- Dimensions: 28" tall x 70" wide x 26" deep
- Weight: 250 lbs

M9100 Core Flow™ Software:

- Tests controlled and data recorded by computer
- Data instantly exported into Microsoft® Excel™

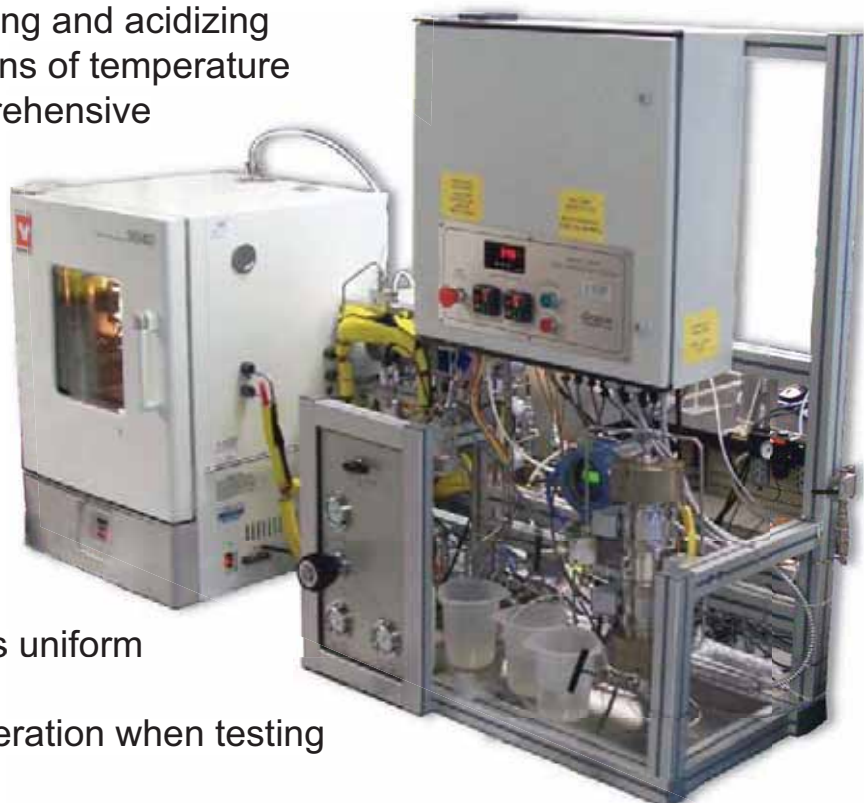


- Standard core injection with optional cross-face
- Complete with fully illustrated Operation Manual

M9100 can also be built to custom specifications.

The **Grace Instrument M9200 HPHT Foam Rheometer**

is designed to simulate foam fracturing and acidizing processes under down hole conditions of temperature and pressure, while providing comprehensive data collection, including power law n' and k' values for future modeling. The **M9200** computer-controlled automation package allows precise monitoring and variable flow-rate control.



M9200 Features:

- Single or dual gas (CO₂ and/or N₂) foam testing capabilities
- Continuous foam circulation ensures uniform foam properties
- HPHT viewing cell provides safe operation when testing acidic samples
- Direct visual assessment of foam half life
- Computer-assisted analysis of bubble size and distribution
- Integrated heating trace maintains a uniform temperature on all sample lines
- Accumulator for injection of high-viscosity and/or corrosive samples

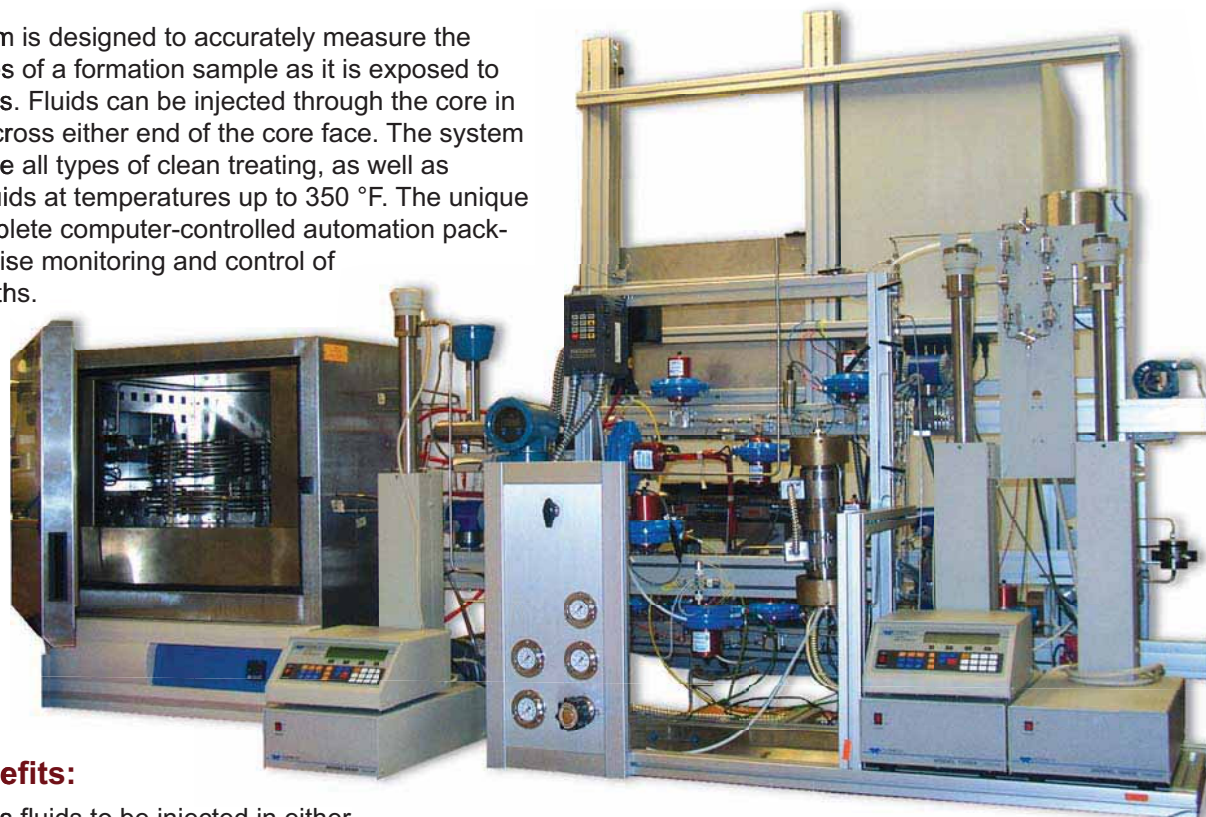
Specifications:

Operating Temperature:	Ambient to 350 °F (up to 400 °F optional)
Working Pressure:	Atm to 5,000 psi
Shear Rate:	0 to 1,500 S ⁻¹
Microscope Magnification:	Up to 450 X
Viewing Window Material:	Sapphire
Foam Density:	0.3 to 1.0 g/cm ³ controllable
Half-life of Foam:	0 to 72 hr
Foam Bubble Diameter:	≥1 μm
Sample Volume:	115 mL
Accumulator Volume:	500 mL
Rheology Characterization:	API standard and other rheological tests

***M9200** can also be built to custom specifications.*

The **Grace Instrument M9300 Foam Loop & Core Flow Tester** combines the functionality of a foam loop rheometer with a core flow tester. Foam can be created, measured, modified, and passed through a core flow system for complete core flow analysis, including temperature, pressure, and viscosity parameters.

The core flow system is designed to accurately measure the permeability changes of a formation sample as it is exposed to a variety of test fluids. Fluids can be injected through the core in either direction or across either end of the core face. The system is designed to handle all types of clean treating, as well as corrosive treating fluids at temperatures up to 350 °F. The unique design offers a complete computer-controlled automation package that allows precise monitoring and control of the different flow paths.



Features & Benefits:

- Unique design allows fluids to be injected in either direction or across either end of a core
- Accurate temperature control to 350 °F
- Accurate pressure control to 5,000 psi (41,344 kPa)
- Core holder pivots for easy visual inspection of the core
- Ability to pump solid-laden fluids
- Fully automated for ease of use

Specifications:

Foam Generation & Foam Loop System

Operating Temperature:	Ambient to 350 °F
Operating Pressure:	Atm to 5,000 psi
Flow Rate:	375 mL/min
Shear Rate:	0 to 1,500 S ⁻¹
Microscope Magnification:	11 to 144 X
Viewing Window Material:	Quartz
Rheology Characterization:	API standard rheological and shear history
Foam Density:	0.3 to 1.0 g/cm ³ controllable
Half-life of Foam:	0 to 72 hr
Diameter of Visible foam bubble:	≥1 μm

Formation Damage System

Operating temperature:	Ambient to 350 °F
Confining pressure:	Atm to 15,000 psi
Working pressures:	Atm to 10,000 psi
Flow Rate:	0 to 60 mL/min
Back Pressure:	Atm to 10,000 psi

Combined Foam Loop & Formation Damage System

Operating temperature:	Ambient to 350 °F
Operating pressure:	Atm to 5,000 psi
Shear rate:	0 to 1,500 S ⁻¹
Confining pressure:	Atm to 15,000 psi
Back Pressure:	Atm to 10,000 psi

The **M9300** can test a foam fluid with a viscosity of 200 mPa•s with a maximum shear rate of 1,000 S⁻¹



CALIBRATION OIL ORDER FORM

Name:	Part No.	U.S. Price per piece:	Outside U.S. Price per piece:	Quantity to order:
20 cP CALIBRATION FLUID 16oz	CALI0000005	94.00	113.00	
50 cP CALIBRATION FLUID 16oz	CALI0000001	74.25	95.00	
50 cP CALIBRATION FLUID ½ Gal.	CALI0000008	242.55	266.80	
50 cP CALIBRATION FLUID 1 Gal.	CALI0000009	481.80	530.00	
100 cP CALIBRATION FLUID 16oz	CALI0000002	74.25	95.00	
100 cP CALIBRATION FLUID ½ Gal.	CALI0000010	242.55	266.80	
100 cP CALIBRATION FLUID 1 Gal.	CALI0000011	481.80	530.00	
200 cP CALIBRATION FLUID 16oz	CALI0000003	74.25	95.00	
200 cP CALIBRATION FLUID ½ Gal.	CALI0000012	242.55	266.80	
200 cP CALIBRATION FLUID 1 Gal.	CALI0000013	481.80	530.00	
500 cP CALIBRATION FLUID 16oz	CALI0000004	74.25	95.00	
500 cP CALIBRATION FLUID ½ Gal.	CALI0000014	242.55	266.80	
500 cP CALIBRATION FLUID 1 Gal.	CALI0000015	481.80	530.00	

CUSTOMER INFORMATION

CONTACT NAME: _____ PHONE #: _____

CONTACT EMAIL: _____

COMPANY NAME: _____

ADDRESS: _____

Send the completed form to Grace Instrument by mail, email or fax, along with your payment arrangements, at the address and/or phone number listed below.

Grace Instrument
1660 Townhurst Dr. Bldg G
Houston, Texas USA 77043

Email: sales@graceinstrument.com
info@graceinstrument.com

Fax: **713-974-7144**



Grace Instrument supplies parts and accessories for the entire line of products, from carrying cases to calibration oil. Our service and training personnel are always glad to offer assistance when needed. For more information, contact a **Grace Instrument** representative at 713-783-1560, or visit us on the web at www.graceinstrument.com.

Products Include:

- Viscometers
- Oscillatory Rheometers
- HPHT Rheometers
- HPHT Cement Rheometers
- Tensiometers
- HPHT Linear Swell Meters
- HPHT Sag Testers
- Core Flow Testers
- Foam Generator
- Testing Loops



Grace
INSTRUMENT

Scientific Innovations • Industrial Solutions

1660 Townhurst Dr. Bldg G

Houston, TX 77043

Telephone: 713.783.1560

Fax: 713.974.7144

Email: info@graceinstrument.com

www.graceinstrument.com

Grace Instrument specializes in designing and manufacturing rheology equipment capable of basic testing and advanced research of fluids. Our products conform to the needs of the exploration and production sector of the oil and gas industry worldwide.



MADE IN USA