



Prescott
instruments

Rheoline MFR Auto-Load

A Trusted Name in Material Testing

- Prescott Instruments is a **U.K. company** with **over 30 years' experience** in material testing.
- We manufacture all instruments **onsite in the U.K. under ISO 9001** and our in-house laboratory team perform all **instrument calibrations under ISO 17025**.
- Our **Multi-Function Rheometer Auto-Load** is an innovative solution for busy laboratories with high levels of testing.
- Its **precision, reliability and durability** make it an indispensable instrument for laboratory personnel worldwide.

Built to Last

- **Reliability:** Our **MFR Auto-Load** is the perfect blend of traditional principles and the latest modern technology, revolutionising this laboratory classic.
- **State of the Art:** The microprocessor-based PID control system enables complete confidence in maintaining the die temperature throughout the testing process.
- **Accuracy:** Fully compliant with international standards and with temperature control accuracy of $\pm 0.03^{\circ}\text{C}$.

Repeatability and Connectivity

- Our **Multi-Function Rheometer Auto-Load** is an easy-to-use instrument with an **innovative and automated design**.
- Activating the **full automatic mode** gives laboratory personnel **valuable time to perform other tasks** whilst testing takes place.
- **Simplicity of design** means you can replace components **easily and affordably**.
- Standard instruments are supplied with **3 trays of 16 samples**, and fully flexible **software allows the samples to be tested in any order**.
- Prescott Instruments' **unique loading mechanism** allows **automation to work alongside accuracy**.
- To prevent the common problem of slippage, samples are **transferred automatically to the die cavity by way of film**, ensuring a positive test result with no slippage.



Rheoline MFR Auto-Load

Technical Specification

Standards	ISO No. 6502 / ASTM D5289
Sample Capacity	16
Die Configuration	Sealed
Oscillation Frequency	1.67 Hz
Oscillation Amplitude	0.5, 1.0, 3.0 degrees. (0.5 Standard, 1, 3, optional)
Temperature Range	Ambient to 250 °C
Temperature Control	3 term PID, control accuracy +/- 0.03 °C
Units of Measurement	Torque Inlb, dNm. Temp. Celsius, Fahrenheit. Pressure Lb/sqin., Kg/sqcm. (Optional) Time Min/Sec, Min/Decimal.
Output Type	Real time display of: - Elastic torque - Viscous torque - Tangent delta - Cure Rate - Pressure in Cavity (optional)
Data Format	All data stored in Access database with full export
PC Specification	Pentium Processor, networkable
Electrical	Single Phase 220/240V 50Hz 110V 60Hz
Pneumatics	Filtered Air; 4.2 Kg/cm, (60 Psi)
Optional Extras	Programmable Temperature Zones Additional Oscillation Eccentric Pressure Transducer Rheoline Volumetric Sample Cutter

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