



Prescott
instruments

B U I L T T O L A S T

Rheoline MDR 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 **Moving Die 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

- **Durability:** The high-stiffness steel frame is robust enough to withstand the demands of a busy production environment with the high precision performance to match.
- **Reliability:** Expertly-crafted construction provides stability and reliability even when testing the hardest of materials.
- **Unique:** Our bespoke high-end electronics ensure the highest data sampling rates available.



Repeatability and Connectivity

- **The Moving Die Rheometer Auto-Load** is an innovative automated instrument.
- **Personnel can perform other tasks** while testing takes place autonomously.
- Each machine is supplied with **3 trays holding 16 samples per tray**.
- **Fully flexible software** is installed as standard allowing users to test samples in any order.
- Prescott Instruments' **unique loading mechanism gives automation** to the Moving Die Rheometer without sacrificing **test performance**.
- Easily adaptable to deadlines, a user can **adjust the order of sample priority** as required.
- **Simplicity of design** means you can replace components **easily and affordably**.

Rheoline MDR Auto-Load

Technical Specification

Standards	ISO No. 6502 / ASTM D5289
Sample Capacity	16
Die Configuration	Sealed 4.5cm ³
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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Prescott Instruments Ltd. Unit F, Northway Trading Est, Northway Lane, Tewkesbury, Gloucestershire, GL20 8JH UK
Tel: +44 (0) 1684 274300 ; sales@prescott-instruments.com ; www.prescott-instruments.com



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