



Rheoline Mini MDR Auto-Test



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 **Mini Moving Die Rheometer** stands out as Prescott Instruments' **top-selling product** and consistently remains a **leading choice** for rubber testing professionals.
- Its **precision, reliability and durability** make it an indispensable instrument for laboratory professionals 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 **cost-effective choice** for any testing laboratory, this compact instrument **increases laboratory productivity** through its **semi-automatic sample-loading mode (4 samples at a time)**.
- Maintain **accuracy and reproducibility** by using film for loading, **preventing slippage** often found in other automated systems.
- **Simplicity of design** means you can replace components **easily and affordably**.
- **Perform tests on demand** with our built-in **Labline** analytical software.
- Data is calculated in real-time, displaying **live data traces on screen**.
- After the test is complete, the sample is removed from the test chamber and conveyed along on the film, with the **results automatically graded as pass or fail**.

Rheoline Mini MDR Auto-Load

Technical Specification

| | |
|------------------------------|--|
| Standards | ISO No. 6502 / ASTM D5289 |
| Sample Capacity | 4 |
| 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, Seconds. |
| 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 functionality |
| PC Specification | Pentium Processor, networkable |
| Electrical | Single Phase 220/240V 50 Hz or 110V 60 Hz |
| 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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