

Rheoline Smart 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 **Smart Moving Die Rheometer Auto-Test** streamlines the testing process for rubber laboratory professionals.
- Its **precision, reliability and durability** make it an indispensable instrument for rubber laboratories of any size.

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.**



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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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