



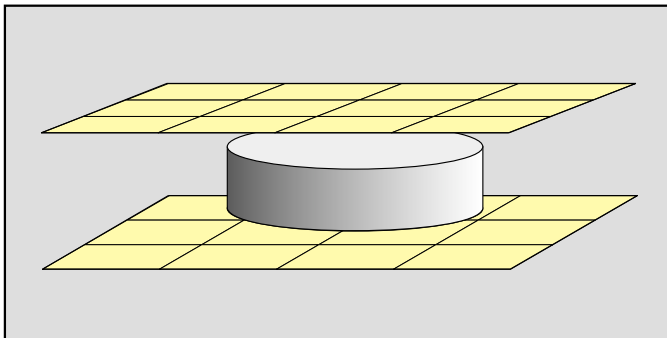
Automated Rheo-Line Moving Die Rheometer

To meet the needs of the modern testing laboratory, Prescott Instruments has developed an automated Moving Die Rheometer, which can be operated in a fully automatic mode permitting Laboratory personnel time to perform other tasks while testing takes place.

Automated Moving Die Rheometers have been in use for some time but a major problem encountered is slippage between the sample and the measuring transducer which can lead to a reduction in accuracy and reproducibility.

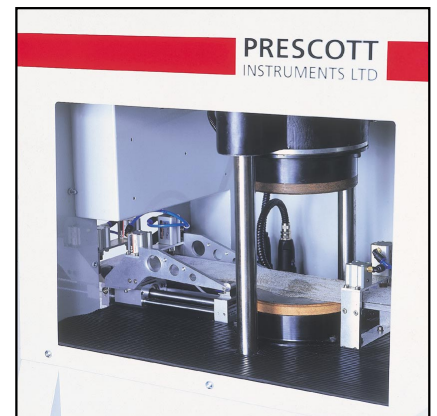
Prescott Instruments' unique patented technology gives automation to the Moving Die Rheometer without sacrificing test performance. Samples are placed on a tray which is inserted into the loader, the samples are then transferred automatically to the die cavity by way of a fabric belt. During the test the rubber is not completely covered but allowed to flow to the surface of the dies thus ensuring a positive test result with no slippage. When the test is completed, the sample is removed from the die cavity complete with the fabric belt and the instrument is then ready to test the next sample.

Diagram showing the sample with the fabric.



Standard instruments are supplied with 3 trays of 16 samples, and fully flexible software can be configured for the samples to be tested in any order. In addition if an urgent test is required it can be tested ahead of other samples simply by increasing the priority of the sample in question.

Samples tested can be given pass/fail criteria and the networkable software system can then send the pass/fail information to any destination on the network such as the Laboratory manager or Quality manager.



TECHNICAL SPECIFICATIONS

Design Spec.	ISO No. 6502 / ASTM D5289
Sample Capacity	3 trays, 16 per tray.
Electrical	Single Phase 220/240V 50HZ, 110v 60HZ.
Pneumatics	Filtered air, 4.2 Kg/cm, (60 Psi)
Die Configuration	Sealed
Oscillation Frequency	1.67 HZ.
Oscillation Amplitude	0.5, 1.0, 3.0 degrees. (0.5 Standard, 1 and 3 Optional)
Temperature Control	Digital PID.
Temperature Range	35 to 250 degrees C.
Units of Measurement	Torque In lb, dNm. Temp. Celsius, Fahrenheit. Pressure Lb/sqin., Kg/sqcm. (Optional) Time Min /Sec, Min/Decimal, Seconds
Output Type	Real time display of- Elastic Modulus. Viscous Modulus. 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.
These options are available:	Programmable temperature zones Additional oscillation eccentric Pressure transducer. Volumetric sample cutter



It is essential that samples are prepared with an automatic volumetric cutter which is available from Prescott Instruments Ltd. Please see our brochure for full specification.

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