

MDR 2000™

The world standard for a rotorless curemeter to test rubber compounds

Features

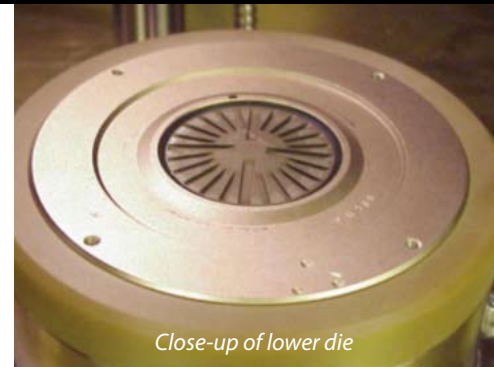
- Sealed biconical dies.
- Low friction reaction torque measurement.
- Superb temperature stability and control.
- Repeatable and reproducible data.
- Meets ASTM D5289 and ISO 6502.
- Does not require a PC or printer to run tests.
- System can be automated to test up to 100 samples.
- Measures dynamic properties.

Specifications

OSCILLATION FREQUENCY:	100 cpm (1.67 Hz)
TEMPERATURE RANGE:	RT to 200°C
DATA POINTS WITHOUT OPTIONAL SOFTWARE:	ML, MH, S'' at ML, S'' at MH, tan (delta) at MH, ts1, ts2, t10, t50, t90
PRINTER OUTPUTS:	Data points and/or graphical data versus time (S, S'', tan (delta), temperature)
INSTRUMENT LANGUAGES:	English, French, German, Spanish, Dutch, Swedish, and Italian
ELECTRICAL:	<ul style="list-style-type: none">• 100/110/120/130 VAC ±10%, 60 ±3 Hz, 10-amp single phase• 200/220/240/260 VAC ±10%, 50 ±3 Hz, 5-amp single phase
AIR PRESSURE:	60 psi (4.2 kg/cm ² 414 kPa) minimum
DIMENSIONS:	Width 68 cm (27 in), height 132 cm (52 in), depth 76 cm (30 in)
WEIGHT:	Net 177 kg (389 lb), gross 280 kg (616 lb)



MDR 2000 with optional computer



Close-up of lower die

www.alpha-technologies.com

MDR 2000™

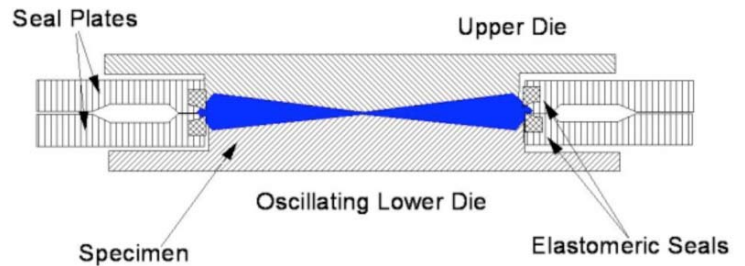
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Performance

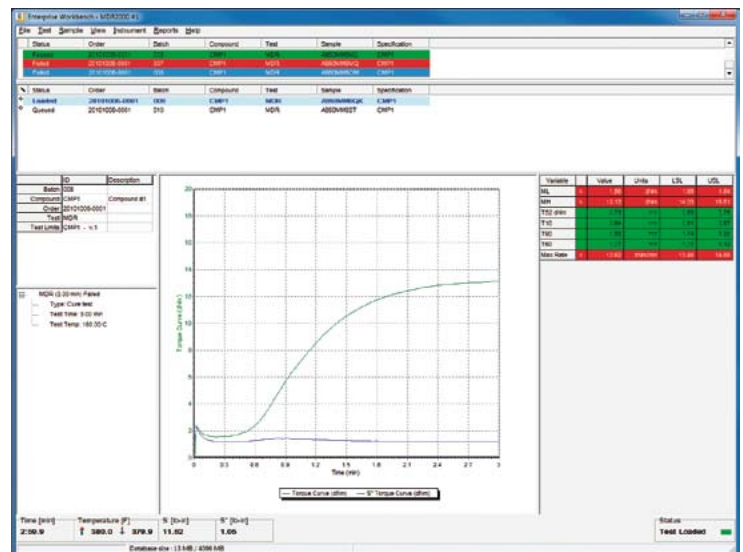
- Measure cure under nearly true isothermal conditions.
- Excellent test sensitivity to mixing errors.
- Limited operator influence.
- Suitable for quality control or research and development.

Options

- Automation (10 or 100 samples).
- Strain angles: 0.2, 0.5, 1.0 and 3.0 degrees (2.8%, 7%, 14% and 42%).
- Enterprise or eclipse software systems for handling historical data.
- Sample cutter Model 2000R for rubber.
- Films to handle easy or difficult samples.



Die configuration of MDR 2000



Typical cure curves displayed by the Eclipse software system