

# MDR-C<sup>®</sup>

Compact Moving Die Rheometer

▶ A rheometer designed for simplicity and value, the MDR-C is effective in simple production batch control, cure time setting, and compound evaluation.



▶ As Alpha's entry level moving die rheometer, the MDR-C<sup>®</sup> provides cure testing for general rubber applications. The MDR-C<sup>®</sup>'s smaller footprint allows for more effective use of bench space, while its LCD touch screen and user interface provides convenient stand-alone operation.

## Testing Features



- Cost effective cure testing for general rubber applications
- Sealed biconical dies
- Does not require a PC or printer to run tests
- Versatile LCD touch screen and user interface
- Simple sample loading and unloading due to open design
- Smaller instrument footprint for effective use of bench space

## Performance



- Rotorless design for reduced test time and faster temperature recovery
- Excellent repeatability
- Measure cure under nearly true isothermal conditions
- Excellent test sensitivity to mixing errors
- Limited operator influence
- Suitable for quality control

## Options



- Pressure measurement option available for the testing of sponge compounds
- Cure and pressure curves can be collected simultaneously
- Enterprise software for handling historical data - provides user definable datapoints for time, temperature and torque @ time
- Sample cutter Model 2000R for rubber
- Film to protect dies and seals from contamination and wear

## Specifications



FREQUENCY: 100 cpm (1.67 Hz)  
 TEMPERATURE RANGE: RT to 200°C  
 STRAIN: 0.5 Standard (7%); 0.2, 1.0 or 3.0 degrees available (2.8%, 14% or 42%)  
 STANDARD DATAPOINTS: ML, MH, MH-ML, Ts1, Ts2, T10, T50, T90, S" at ML, MH, TD at ML, MH, Max Cure Rate, Time at Max Cure Rate  
 LCD Touch Screen: 155mm x 85mm, Resolution 800 x 480  
 TESTING STANDARDS: Meets ASTM D5289 and ISO6502

LANGUAGES: English, Italian, Dutch, Spanish, Portuguese, Turkish, Polish, Romanian, Czech, French, Hungarian, German, Swedish, Danish, Finnish, Chinese and Russian  
 ELECTRICAL: 110-120VAC/60Hz (10amp) Single phase  
 220-240VAC/50Hz (5amp) Single phase  
 AIR PRESSURE: 70 psi (483Kpa, 5.0 kg/cm2) minimum  
 DIMENSIONS: 20"W x 20"D x 47"H (508mmW x 507mmD X 1194mmH)  
 WEIGHT: 260 lb (118kg) approx

