

## MDR-C<sup>®</sup>

### Compact Moving Die Rheometer

A rheometer designed for simplicity and value, the MDR-C<sup>®</sup> 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 allows both stand-alone and computer-connected operation.

#### Features

- Cost effective cure testing for general rubber applications
- Sealed biconical dies
- Does not require a PC or printer to run tests; stand-alone or Enterprise software operation
- Versatile LCD touch screen and user interface
- Open design for easy sample loading and unloading
- 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 intervention
- Suitable for quality control

#### Options

- Pressure measurement
- Enterprise software for handling historical data – provides user definable datapoints for time, temperature and torque @ time
- Sample prep
- Multiple languages
- Wide assortment of films

## Specifications

Frequency:	100 cpm (1.67 Hz)	Strain:	0.5 standard (7%); 0.2, 1.0 or 3.0 degrees available (2.8%, 14% or 42%)
Temperature Range:	Ambient to 392°F (200°C)	Testing Standards:	Meets ASTM D5289 and ISO6502
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	Air Pressure:	70 pi (483Kpa, 5.0 kg/cm <sup>2</sup> ) minimum
Electrical:	100-120 VAC, 60 Hz, 10 amp single phase 220-240 VAC, 5 Hz, 5 amp single phase	Dimensions:	Width: 20 in (50.8 cm) Height: 47 in (119.4 cm) Depth: 20 in (50.8 cm)
LCD Screen:	6.1 in x 3.3 in (155 mm x 85 mm), Resolution 800 x 480	Weight:	260 lbs (118 kg) approx..