

PREMIER™ MDR

Moving Die Rheometer

▶ The MDR that's driving the next generation of testing – delivering data with the highest consistency and long term stability of all moving die rheometers.



▶ The Premier™ MDR is built for optimum performance in both laboratory and production environments. It's streamlined design includes an LED back-lit logo for test status indication, a wrap-around front cover and shield for ease of use and access, a touch-screen user interface, and a built-in storage drawer.

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Performance

With unsurpassed test repeatability and reproducibility, the Premier™ MDR provides a smaller instrument footprint for effective use of bench space. The Premier™ MDR features improved forced air die cooling with independent control to the upper and lower dies, providing rapid temperature changes for better non-isothermal control. The biconical cruciform-less dies with optimized groove profiles offer reduced slippage and improve performance with stiffer stocks. A uniquely designed heater provides reduced temperature gradients and improved temperature recovery, while transducers provide both torque and pressure measurements.

Features

Dynamic Symmetry™

Smart Alignment™

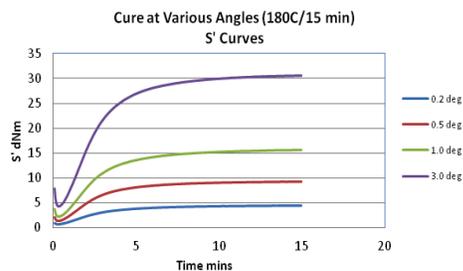
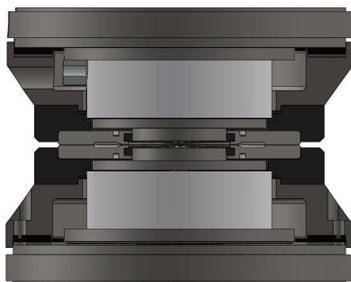
Rapid Change™

Benefits

A system that ensures dies remain parallel to reduce variation

A system that ensures excellent die cavity sealing for better repeatability

An optional adjustable eccentric option that allows simple and fast oscillation angle changes without the need for re-calibration (0.5 degrees arc is standard)



Specifications

Frequency:	100 cpm (1.67 Hz)	Testing Standards:	Meets ASTM D5289, ISO6502, and DIN 53529
Temperature Range:	Ambient to 446°F (230°C)	Electrical:	100/110/120/130 VAC +/- 10%, 60 +/- 3Hz, 10amp, single phase
Strain:	0.5 Standard (7%); 0.2, 1.0, 3.0 and 7.17 degrees (2.8%, 14%, 42% or 100%) available ML, MH, MH-ML, Ts1, Ts2,		200,220,240,260 VAC +/-10%, 50Hz +/- 3amp single phase
Onboard:	T10, T50, T90, S' at ML, S' at MH, TD at ML, TD at MH, Max Cure Rate, Time at Max Cure Rate, Pressure point PH-PL and pressure time points	Air Pressure:	60 psi (414Kpa, 4.2 kg/cm2) minimum
		Dimensions:	W: 22 in (56 cm), D: 26 in (66 cm), H: 48 in (122 cm)
		Weight:	Net 350 lbs (159 kg)
		LCD Touch Screen:	155mm x 85mm, resolution 800 x 480