

## PREMIER® MV

Do you really need a viscometer this good?

Yes, you do.



### Everybody's got one.

With an all-new compact design, the Premier MV is a cost-effective way to perform three critical rubber and polymer tests:

- Mooney Viscosity
- Mooney Stress Relaxation
- Mooney Scorch

The enhancements and improved functionality of Premier MV mean one thing for companies who need to add a full-feature viscometer to their line-up – Premier MV gives you more bank for the buck.

### How to compare Premier MV with all the others.

**Superior Die Cooling and Temperature Stability** – Premier MV delivers excellent temperature stability and a 45% reduction in die cooling time compared to previous models.

**Multi-Speed Measurement** – Controls for multiple shear rates to establish power law curve and other shear-viscosity plots.

**Rotor Alignment Detection** – Prevents accidental damage to the rotor and shaft by closing on an out-of-alignment rotor, and reduces time and cost required for replacing rotor and shaft.

**Advanced Verification Procedures** – Provides assurance that you are meeting the setpoints specified by ASTM.

**Automatic Dead Weight Calibration** – Allows calibration of instrument in a matter of seconds.

**Standard multi-zone stress relaxation and variable speed digital motor** – essential in obtaining advanced processing information such as identifying thixotropic materials.

**Optional Long-Life O-Ring** – keeps your instrument on the job long by reducing frequent cleaning and calibration.

# There's a lot to like about every Premier Instrument.

## Custom Electronics that are matched to the instrument.

Faster. Better control. Better resolution. Other instruments use off-the-shelf PLCs to save money, but can't fine-tune their electronics to their instrument – they often overshoot set points then spend valuable time stabilizing.

**Efficient die cooling that gets your instrument ready for the next test.** Why wait 20 minutes for dies to cool down when Premier instruments take about 6 minutes.

**Better Heating Control.** Because they are designed specifically for Premier instruments, our heating control system ramps up heating cycles faster and maintains control for more accurate cure times and more efficient production.

**Always Aligned.** More accurate measurements. No loss of signal thanks to Premier's Smart Alignment and Dynamic Symmetry. On-target, parallel die closing, high stiffness and constant closing force.

**Cast Aluminum Frame.** Not only are Premier frames light, but incredibly stiff for less variability. What's more, Premier instruments incorporate frame compliance into the calibration for better data.

**Control with a Personal Touch.** Our incredibly intuitive user interface comes to you through a large, bright touch screen panel that lets you navigate to the view you want or the information you need.



## SPECIFICATIONS

<b>Testing Standards:</b>	Meets ASTM D1646 and D3346
<b>Temperature Range:</b>	Ambient to 392°F (200°C)
<b>Rotation:</b>	0.01 to 20 RPM
<b>Electrical:</b>	100/110/120/130 VAC ± 10%, 50/60 ±3 Hz, 10 amp single phase. 200/220/240/260 VAC ± 10%, 50/60 ±3 Hz, 5 amp single phase.
<b>LCD Screen:</b>	6.1 in x 3.3 in (155 mm x 85 mm), Resolution 800 x 480
<b>Air Pressure:</b>	60 psi (414Kpa, 4.2 kg/cm2) minimum
<b>Dimensions:</b>	Width: 22 in (56 cm), Height: 48 in (122 cm), Depth: 26 in (66 cm)
<b>Dimensions:</b>	W: 22 in (56 cm), H: 48 in (122 cm), D: 26 in (66cm)
<b>Weight:</b>	Net 350 lbs (159 kg)



For more information scan the QR code or visit [alpha-technologies.com/premier-mdr](http://alpha-technologies.com/premier-mdr).

There's a lot riding on our testing.™



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