

PREMIER® MDR DUO

More of What
You Want.
Less of What
You Don't.



Double your throughput, not your bench space.

You want more capacity, but you don't have more room or an unlimited budget. We have your answer.

Introducing the latest member of the Alpha Technologies Premier Line - The MDR DUO. The patent-pending DUO offers the same benefits you've come to expect from our Premier MDR but with the DUO you get More and Less:

More Throughput:

Dual-die design allows you to test two samples at once, reducing lead time.

Less Bench Space:

Twice the production speed in half the bench space.

Less Cost & Complexity:

Lower upfront cost and cost of maintenance in a single device with the same certified Alpha OEM parts as our MDR.

More Consistency:

Batch-to-batch results that match production conditions.

More Data:

Includes the Alpha Enterprise Software platform.

More Support:

Your uptime is critical. We have a dedicated global service team ready to help with instrument calibration and repair.

Same Proven Platform. Twice the Output.

The DUO runs on the exact platform behind the industry's most trusted MDR. You add capacity without adding complexity. 2X the capacity. ½ the space. 0 compromises.

- **No retraining required.** The DUO shares the same interface and workflow as the MDR, so your team keeps existing SOPs.
- **One motor drives two arms,** which means fewer moving parts and fewer points of failure.
- **One predictive maintenance schedule** covers both sensors, keeping upkeep simple.
- **Room to queue up to 224 samples** for unattended runs, day and night.
- **Both cure and foaming** reaction measurements in a single test, giving you a fuller view of each compound.



SPECIFICATIONS

Frequency:	100 cpm (1.667 Hz)
Temperature Range:	Ambient to 446°F (230°C)
Strain:	0.5 Standard (7%); 0.2, 1.0 and 3.0 degrees (2.8%, 14% and 42%)
Torque range:	0.01-212 dNm (individual head limit), 0.01-270 dNm (combined torque limit)
Testing Standards:	Meets ASTM D5289, ISO6502 and DIN 53529
Electrical:	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:	85 psi minimum
Air flow rate:	20 sCFM minimum
Dimensions:	Basic: W: 22.5in (57cm), H:48in (122 cm), D: 29in (74cm) Duo with 4Q: W: 49in (124cm), H:48in (122 cm), D: 29in (74cm) Duo with HC: W: 55in (140cm), H:48in (122 cm), D: 29in (74cm)
Weight:	Basic: 420 lbs. [190 kg] Duo with 4Q: 440 lbs. [200 kg] Duo with HC: 550 lbs. [250 kg]
LCD Touch Display:	No display

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

- Custom Electronics that are matched to the instrument. Better control. Better resolution.
- Custom Designed Heating Control System that ramps up heating cycles faster and maintains control for more accurate cure times and more efficient production.
- Efficient die cooling that gets your instrument ready for the next test.
- Smart Alignment and Dynamic Symmetry means you get on-target, parallel die closing, high stiffness and constant closing force.
- Cast Aluminum Frame that's lighter... stronger... stiffer.



For more information scan the QR code or visit:
<https://www.alpha-technologies.com/premier-mdr-duo-moving-die-rheometer/>

There's a lot riding on our testing.™



ALPHA TECHNOLOGIES

Rheologists and Engineers

ALPHA TECHNOLOGIES

6279 Hudson Crossing Parkway,
Suite 200
Hudson, Ohio 44236
330.745.1641

Alphasales@alpha-technologies.com

www.alpha-technologies.com



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