

MDR-X™

Moving Die Rheometer

- ▶ The new X-Series™ instruments are Alpha Technologies' modular production floor solution for customers who are looking to bring testing closer to the production line.



- ▶ The MDR-X™ brings Alpha's superior testing solutions to the production floor with a mobile design that easily connects to any X-Dock™ station. The "X" in the MDR-X™ brand name stands for "cross-over" from lab environment to production floor. These test instruments are based on Alpha's flagship Premier™ technologies with the same outstanding reproducibility, repeatability, and test sensitivity.

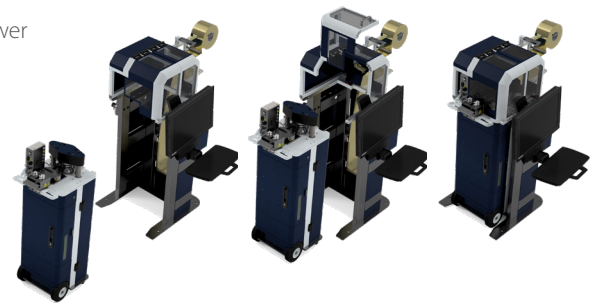
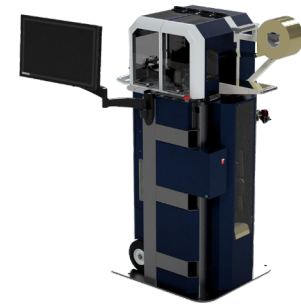


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Features



- Adaptable for lab and production floor use
- Auto module docking identification
- Sealed design for production floor environments
- Biconical cruciform-less dies with optimized groove profiles to reduce slippage and improve performance with stiffer stocks
- Uniquely designed heater provides reduced temperature gradients and improved temperature recovery
- Improved forced air die cooling with independent control to the upper and lower dies provides rapid temperature changes for better non-isothermal control
- Pressure transducer standard to provide pressure measurement in addition to torque
- Operates using Enterprise software, a flexible LIMS system based on an open SQL database design



Performance



- Unsurpassed test repeatability and reproducibility
- DYNAMIC SYMMETRY™ - A system that ensures parallel die closing, reducing variation
- SMART ALIGNMENT™ - A system that ensures excellent die cavity sealing for better repeatability
- SMART SEAL™ - An optional upper die assembly to eliminate the conventional elastomeric seal while maintaining a closed, pressurized cavity for improved long-term data stability and reduced need for torque calibrations (Lower Die Long Life Seal - Standard)

Options



- Oscillation amplitudes of 0.2, 1.0, 3.0, and 7.17 degrees arc mechanically set
- Smart Seal™ die assembly
- Multiple film types available
- Multiple languages available
- RAPID CHANGE™ - An 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 and ISO6502 and DIN 53529
TEMPERATURE RANGE:	Ambient to 230°C	ELECTRICAL:	100/110/115/120 VAC - 50/60 Hz, Single phase
STRAIN:	0.5 Standard (7%); 0.2, 1.0, 3.0 and 7.17 degrees (2.8%, 14%, 42% or 100%) available		2 x 120 VAC & 2 x 18 VAC
DIMENSIONS:	19.7"W x 27.6"D x 57.4"H (50cmW x 70cmD x 145.8cmH)		Power consumption 600 VA; 2.6A at 230V; 5A at 120V
		AIR PRESSURE:	60 psi (414Kpa, 4.2 kg/cm2) minimum
			120 psi (827Kpa, 8.4kg/cm2) maximum

