

Models	MDR - Elite-6300	RPA 4500 Primero	RPA 4500 Ultimo
ASTM Standards	Meets or exceeds ASTM D5289	Meets or Exceeds ASTM D 5289, Meets ASTM D 6204- Part B & Part C, Meets ASTM D6601	Conforms to ASTM D6204, Exceeds ASTM D 5289, ASTM D6601
Torque Transducer	High Stiffness	Ultra-high Stiffness	Ultra-high Stiffness
Torque Range	0.01 to 20 Nm	0.001 to 20 Nm	0.0001 to 20 Nm
Motor	Direct Drive	Direct Drive	Direct Drive
Strain Degrees	Fix $\pm 1.0^\circ$ (optional 0.5, 2 $^\circ$) selectable	(± 0.1 to $\pm 10^\circ$) (1.4 TO 100%) Continuously Variable	(± 0.02 to $\pm 90^\circ$) (0.28 to 1250 %) Continuously Variable
Oscillation Frequency	Fixed 1.667 Hz	0.1 to 10Hz	0.0016 TO 50Hz
Cooling System ¹	-	Built in @ RT ¹	Built in @ RT ¹
Enhanced Cooling System ²	-	Optional	Available
Isothermal	Available	Available	Available
Non - Isothermal	Optional	Available	Available
Stress Relaxation	-	Optional	Available
Advanced Wave Maker	-	Optional	Available
Portable Console	-	Optional	Available
Motors	Middle Inertia	Middle Inertia	Low Inertia
Temperature	RT + 10 To 200°C	RT + 10°C to 200°C	25°C to 230°C
Calculated Data	ML, MH, S'' at ML, tan δ at ML, tan δ at MH, MH-ML, tc10, tc50, tc90, ts1, ts2, Max Cure Rate, Time at Max Cure Rate.		
Additional Data	-	G', G'', G*, S', S*, Tan δ , η' , η'' & η^*	G', G'', G*, S', S*, Tan δ , η' , η'' & η^*
Additional Accuracy Torque Range	Not Applicable	Not Applicable	Available (as optional)
Reports & Export files	Numerous Formats		
Weight	180 kg	180 kg	250 kg
Dimensions (inches)	23 x 23 x 43	23 x 23 x 43	23 x 23 x 83

1*- Cooling System: A cooling system with blowing air at room temperature on both the die cavities with individual air blowing control for each die for better temperature control.

2*- Enhanced Cooling System: Blowing of cool air at 5°C to 10°C on both the dies from efficient air cooler.

General Specifications:

Max Heating Ramp Rate:	1°C/s
Max Cooling Rate:	0.5°C/s
Measured Data:	Torque, Temperature, Frequency, Strain
Electrical:	220/240 Vac $\pm 10\%$, 60 ± 3 Hz, 20-amp Three Phase 440/480 Vac $\pm 10\%$, 250 ± 3 Hz, 10-amp Three Phase
Air Pressure:	80 Psi (5.6 Kg/cm ² 551 kPa) Minimum