



OnLEVEL™ Tire Test Machine

TMSI's OnLEVEL™ tire test machine performs multiple tire tests on a realistic flat road surface with computer-controlled speed, load, inflation pressure, steer angle, and camber angle, while capturing tire performance data for immediate analysis. Test reports and data are immediately available upon the completion of each test using TMSI's built-in report generation system.

High Quality Tire Measurements

- ◇ Force and Moment
 - Steady State
 - Dynamic
- ◇ High Speed Uniformity
- ◇ Rolling Resistance
- ◇ Ply-Steer Residual Aligning Torque
- ◇ Conicity Residual Aligning Torque
- ◇ Rolling Radial Spring Rate
- ◇ Revolutions Per Kilometer
- ◇ Effective Rolling Radius



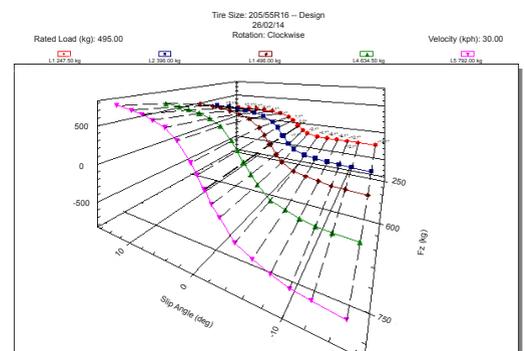
Technical Specification

(OnLEVEL Mk I, Mk III and Mk III GT)

	Mk I	Mk III	Mk III GT
Fx (longitudinal), N	±1,000	±10,000	±20,000
Fy (lateral), N	±15,000	±15,000	±25,000
Fz (vertical), N	±24,000	±25,000	±25,000
Mx (overturning moment), Nm	±10,000	±10,000	±10,000
Mz (aligning moment), Nm	±700	±3,000	±3,000
Wheel Torque, Nm	670	3,500	6,000
Slip Angle, deg	±15	±45	±25
Max Slip Angle Rate, deg/s	5	50	50
Inclination Angle, deg	±10	+45 to -15	+45 to -15
Max Inclination Angle Rate, deg/s	5	5	9
Roadwheel Velocity, km/h	±150	±250	±250
Maximum Tire O.D., mm	1,000	1,000	1,000
Drive System	Electric	Electric	Electric
Inertial Compensation Using DFMS *	✓	✓	✓

* TMSI US Patent Number 6,606,569 - Methods and Systems for Dynamic Force Measurement

Customized Test Reports



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