Sherborne Sensors

IMPACT REPORT

AUTOMOTIVE K&C RIG

THE NEED

Kinematics and compliance testing (K&C testing) is a type of quasi-static suspension testing that applies realistic loads and displacements to a vehicle's chassis and tires to determine suspension geometry and stiffness characteristics. The kinematics and compliance (K&C) characteristics of a chassis system have a major influence on the vehicle driving behavior and the overall vehicle performance.

THE CHALLENGE

In the lateral compliance test, the lateral forces are driven into the tires through a wheel pad. This test determines axle steer, lateral toe stiffness, lateral camber stiffness, and more. Knowing the exact angle under which the lateral force is introduced increases the measuring accuracy.

THE SOLUTION

The Sherborne inclinometer model LSOC/P is perfectly suited to measure the angle of the lateral force under dynamic conditions. The signal output (voltage or current) connects directly to a data acquisition system without the need for signal conditioning.

The robust design of the force balance torque system is extremely robust and will withstand shocks in excess of 1500g. The design is well proven with many thousands in use throughout the world in the most demanding application.

ABOUT US

Sherborne Sensors is an established, innovative company based in 'Transducer Valley' in Hampshire, UK with a strong global customer base.

Our core operations focus on the design and manufacture of precision Accelerometers, Inclinometers, and Load Cells.

Our products enjoy unsurpassed industry standing for ultra-reliability and long-life precision in critical industrial applications.

LEARN MORE

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