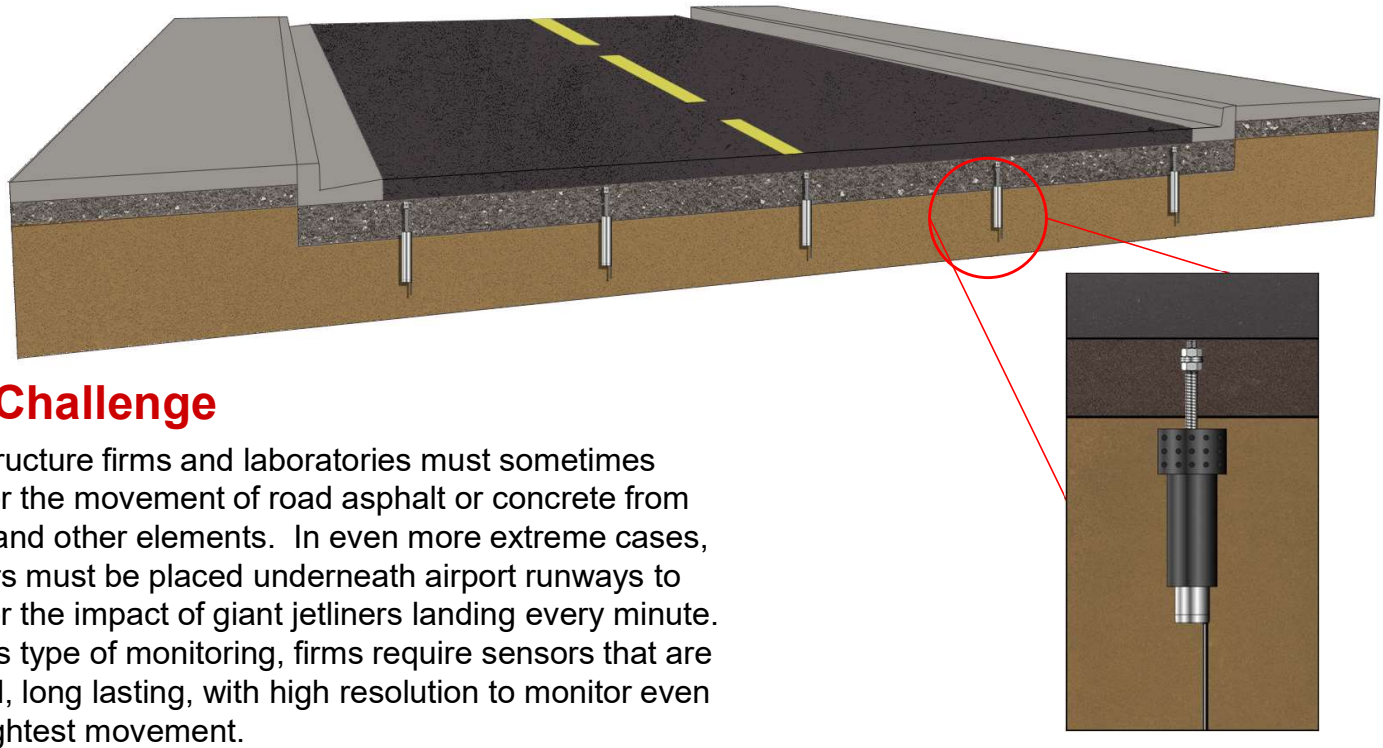
Application Story

Monitor Pavement Displacement



The Challenge

Infrastructure firms and laboratories must sometimes monitor the movement of road asphalt or concrete from traffic and other elements. In even more extreme cases, sensors must be placed underneath airport runways to monitor the impact of giant jetliners landing every minute. For this type of monitoring, firms require sensors that are rugged, long lasting, with high resolution to monitor even the slightest movement.

Special S-Series transducers mounted beneath an asphalt roadway.

The Solution

Solartron Metrology offers a full array of displacement transducers and gauging probes that precisely measure any concrete or asphalt displacement for a roadway.

- **High Resolution:** Solartron transducers have resolution up to 0.01 microns, measuring the slightest shift in materials.
- **Endurance:** Solartron LVDT sensors are crafted in the UK with the highest quality materials. They can last for several years in adverse settings.
- **Up to IP 68 Sealing:** Solartron Displacement LVDTs are available with IP 65 or IP 67 sealing, to protect the internal electronics from tough environments. G-Type probe and Gauging probes can be sealed to IP 68.
- **Customization:** Displacement transducers can be customized for different mounts, such as Universal Joints, and have measurement ranges up to 300mm. They are also available as free core or guided, with various cable lengths.
- **Multiple Outputs:** Solartron offers DC, 4-20mA, TTL, Digital, and other output options.

S-Series Sensors, available with IP 67 sealing and multiple outputs.

Displacement sensors have also been used to measure the impact of jetliners landing on airport runways.

Solartron Metrology

AMETEK

Orbit® – The Total Measurement System from Solartron Metrology

The Solartron Orbit® Digital Measuring System provides a limitless set of measurement solutions, with numerous different interfaces to computers and PLC's.

S-Series

Special probes for low temperatures

SI 8500

Compact displacement

S-series transducers in an auto frame

OP Series

Measurement of concrete compression with Displacement Sensors