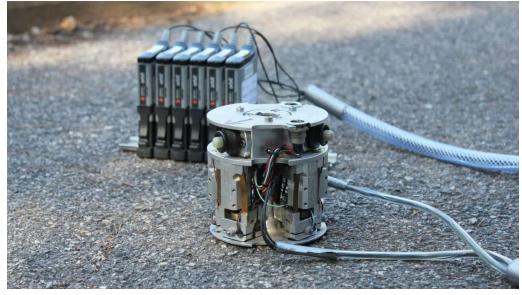
Gauging Probes







Solartron

Metrology

The Challenge

The French Laboratory Cerema (www.cerema.fr) was looking to build an "Ovalization" probe, which is inserted into roads and monitors the horizontal deformations of different layers of pavement. For this, you need a sensor that is compact, rugged, and can easily output data to a software package.

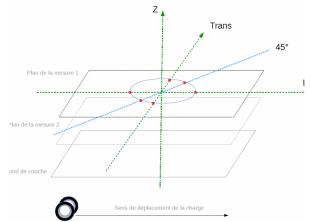
The Solution

Cerema chose to use (6) Solartron sensors for their Ovalization probe. They also utilized the Orbit Network, to easily connect all six sensor and output to a data acquisition software. Advantages include:

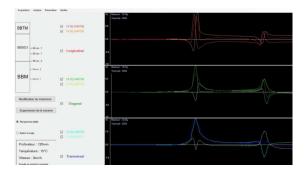
- High Resolution: Solartron transducers have resolution up to 0.01 microns, measuring the slightest shift in materials in a rugged, long lasting package.
- Compact package: Cerena needed to make an easily portable probe, and Solartron sensors fit their needs.
- Quick Outputs: Testing is carried out at different speeds, which means quick, accurate measurements is paramount. Orbit allows up to 3906 readings, per probe, per second.

More information about the Ovalization Probe can be found here.

https://www.cerema.fr/fr/actualites/modernisationchaine-acquisition-sonde-ovalisation



A diagram of the measurements that the Ovalization probe takes



The software being developed displays immediate feedback





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