## **Specialized Probes**

# **Application Story**

## Check bicycle components

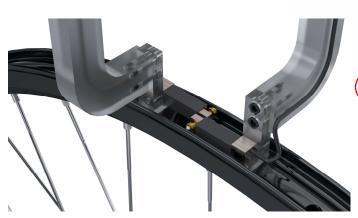
#### The Challenge

High end bicycle manufacturers have complex challenges. Their must manufacture components that have tight tolerances and extreme performance standards to justify a high selling price. Even worse, critical dimensions might be small, awkward, and difficult to measure with standard contact sensors.

#### **The Solution**

Solartron Metrology offers specialized probes that are short, skinny, and built to check the awkward shapes a bicycle might have:.

- ➤ High Resolution: Solartron LVDTs offer resolution up to 0.01 micron, which is excellent for checking flatness and height build.
- ➤ **Short:** Solartron offers DZ and Digital Short probes that are up to 50% shorter than comparable LVDT's. These are great for tight spaces.
- Skinny: Solartron offers both 6mm diameter and 3mm diameter probes for areas where several points need to be measured.
- Specialized Mini Probes: Solartron Mini Probes and Mini Single Leaf Flexures can fit into bores and tight gaps that other sensors cannot.
- Customization: Elements such as special length cables or tips can be added.
- Digital Option: In addition, Solartron's Digital Orbit® network offers a calibrated sensor, and enables multiple, synchronized readings into a PC or PLC



DUSM probes checking gap in wheel









Gauging probes checking flatness of a gear



Checking distance between gears



6mm probes and mini probes checking end of bicycle fork

## Digital Probes & Orbit® Network



### Orbit® - The Total Measurement System from Solartron Metrology

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

