

Bike Fork Bending S-Type

Industry: Test and Measurement

Summary

Customer Challenge

A bike manufacturing company wants to test their bike forks for any structural imperfections.

Interface Solution

Interface's SSMF Fatigue Rated S-Type Load Cell can be attached to the bike fork as it undergoes a bending fatigue test. The customer is able to view, log, and graph the results using Interface's INF-USB3 Universal Serial Bus Single Channel PC Interface Module on their PC or laptop computer.

Results

Interface's SSMF Fatigue Rated S-Type Load Cell successfully measured the forces under the bike fork's fatigue test, testing it's overall structural quality.

Materials

- SSMF Fatigue Rated S-Type Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with supplied graphing software
- Customer PC or Laptop

How It Works

1. A SSMF Fatigue Rated S Type Load Cell is installed in between the bike fork and the actuator of the machine.
2. The actuator applies forces to bend the bike fork, and the SSMF Fatigue Rated S Type Load Cell measures the force applied during the fatigue cycles.
3. Results are recorded by the INF-USB3 Universal Serial Bus Single Channel PC Interface Module where the results can be logged and graphed onto the customer's PC or laptop with provided software.

