

Bolt Fastening-Force Multi-Axis

Industry: Industrial Automation, Test and Measurement

Summary

Customer Need / Challenge

- Over-tightening bolts during installation can cause damage to the objects being installed.

Interface Solution

- Using Interface Model LWCF Load Washers along with Interface Instrumentation can provide a solution that monitors the force being applied during bolt tightening.

Results

- Bolts are tightened to the correct force targets and objects are installed undamaged.

Materials

- Model LWCF Load Washer.
- Model INF-USB2 PC Interface Module which comes with logging and graphing software.
- Customer supplied bolt and nut.

How It Works

1. Model LWCF Load Washer is installed between the bolt head and nut. The load washer will measure the load as torque is applied to the nut.
2. Using Model INF-USB2 PC Module, force readings from the load cell will be displayed, logged, and graphed directly into the PC.

