

# Vehicle Crash Test Load Cell Wall

## Multi-Axis

Industry: Automotive and Vehicle

### Summary

#### Customer Challenge

A facility wants to do crash tests on their vehicles. There are multiple tests such as structural testing of the vehicle, developmental tests, and regulatory and compliance tests. They need to measure the force of the vehicle crash tests, on all axis.

#### Interface Solution

Interface' suggests using multiple 3A400 3-Axis Force Load Cells, and attach it to the back of a cement crash wall. When connected to the BX8-HD44 Interface BlueDAQ Series Data Acquisition System, force result measurements will be recorded and displayed with the customer's PC or laptop.

#### Results

The customer was able to measure the force of impact for all of their different vehicle crash testing demonstrations.

### Materials

- 3AXX 3-Axis Force Load Cells
- BX8-HD44 Interface BlueDAQ Series Data Acquisition System
- Customer PC or Laptop

### How It Works

1. Multiple 3A400 3-Axis Force Load Cells are bolted and attached to the back of a cement crash test wall, creating a load cell wall.
2. The vehicle crash test is performed, and the 3-Axis load cells measure all forces on all axis.
3. Multiple BX8-HD44 Interface BlueDAQ Series Data Acquisition Systems will record the force results, which can be viewed when connected to the customer's PC or laptop.

