

# Press Load Monitoring Load Cell

Industry: Industrial Automation, Test and Measurement

## Summary

### Customer Challenge

Press forming is a method to deform different materials. For instance, materials such as steel can be bent, stretched, or formed into shapes. A force measurement solution is required to monitor the forces being applied by the press forming machine. This ensures quality control and traceability during the production process.

### Interface Solution

For large press forming machines, Interface recommends installing the 1000 High Capacity Fatigue-Rated LowProfile™ Load Cell. When the material is placed under the punch plate to form a shape, the force applied is measured by the 1000. The force results captured is sent to the INF-USB3 Universal Serial Bus Single Channel PC Interface Module, where results can be graphed and logged on the customer's PC with provided software.

### Results

Interface's force measurement products and instrumentation accurately monitored and logged the force results of the press force machine, ensuring zero-error production performance.

## Materials

- 1000 High Capacity Fatigue-Rated LowProfile™ Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with included INF-USB3 software
- Customer press forming machine
- Customer's PC or Laptop

## How It Works

1. Interface's 1000 High Capacity Fatigue-Rated LowProfile™ Load Cell is installed in the press forming machine, within the punch plate.
2. A material is placed under the force plate to form a shape.
3. Force results are captured by the 1000 load cell, and sent to the INF-USB3 Universal Serial Bus Single Channel PC Interface Module, where results can be graphed and logged on the customer's PC with provided software.

