

# Metal Bending Force Wireless Telemetry System

Industry: IoT

## Summary

### Customer Challenge

A customer wants to know how much force it takes to bend different grades of steel metal. They use their metal bending machine to create different metal hardwares, and would like to record the amounts of force it takes to bend the metal used for their projects.

### Interface Solution

Interface suggests using a wireless method so cables do not interfere with the machine. The WTS 1200 Standard Precision LowProfile® Wireless Load Cell can be attached to the head of the hydraulic operated steel bender. Results will wirelessly transmit to the customer's PC through the WTS-BS-4 Wireless Base Station with USB Interface, where data can be displayed, logged, and graphed with supplied Log100 software.

### Results

The customer was able to record the force results of his metal bending machine with Interface's Wireless Telemetry System.

## Materials

- WTS 1200 Standard Precision LowProfile® Wireless Load Cell
- WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure with Log100 software
- Customer hydraulic metal bending machine
- Customer PC or Laptop

## How It Works

1. The WTS 1200 Standard Precision LowProfile® Wireless Load Cell is installed onto the actuator portion of the metal bender.
2. The machine bends different kinds of steel, and the load cell captures the forces.
3. Force data is wirelessly transmitted directly to the customer's PC through the WTS-BS-4 Wireless Base Station with USB Interface using supplied Log100 software. Results are displayed, recorded, and graphed.

