

Hydraulic Jacking System Testing Load Cell

Industry: Infrastructure

Summary

Customer Challenge

A heavy lift company wants to test their hydraulic jacking system has the ability to lift heavy loads and objects, like a bridge during construction. They want to monitor the forces being applied to ensure the hydraulic jack is not only safe to use, but works well enough to avoid any potential structural issues. They also want the results in real-time.

Interface Solution

Interface's 1200 Standard High Capacity Load Cell can be attached in between the hydraulic jack and a heavy load. The 1200 Standard High Capacity Load Cell will measure the forces of the hydraulic jack as it lifts the load cell located in between the jack and the object. With the 9890 Strain Gage, Load Cell, & mV/V Indicator, the customer is also able to see the results in real-time.

Results

The heavy lift company tested their hydraulic jack, resulting in it being safe and functions properly to be sold. It also ensures buyers that the hydraulic jack system upholds its use of continuous heavy load lifting or moving, and maintains structural probity.

Materials

- 1200 Standard High Capacity Load Cell
- 9890 Strain Gage, Load Cell, & mV/V Indicator

How It Works

1. Multiple 1200 Standard High Capacity Load Cell's are located in between the hydraulic jack and a heavy lifting load.
2. The 1200's will be connected to its own 9890 Strain Gage, Load Cell, & mV/V Indicator to give accurate and real-time results of the forces from hydraulic jacking system when it puts compression on the load cell against the heavy load.

