

Aerial Arts Rig

Multi-Axis

Industry: Entertainment

Summary

Customer Challenge

An aerialist needs to measure how heavy they are on their aerial arts rig to ensure it can hold them during their performance. They want to ensure they rig will be stable, and will not reach the load limit.

Interface Solution

Interface's 6A80 Series 6-Axis Standard Capacity Load Cell is fitted with a rod end bearing and attached to the top aerial rig with a type of swivel mount. It is also connected to the BX8-HD44 BlueDAQ Series Data Acquisition System. The aerialist performer hangs from the rig, and their weight load results are fed to the BX8-HD44 BlueDAQ Series Data Acquisition System with supplied BlueDAQ software and to the connected laptop where it is displayed with included BlueDAQ software.

Results

The aerialist was able to determine if their aerial arts rig was able to hold their weight during a performance with Interface's force measurement system.

Materials

- 6A80 Series 6-Axis Standard Capacity Load Cell
- Rod end bearing
- BX8-HD44 BlueDAQ Series Data Acquisition System with supplied BlueDAQ software
- Customer PC or Laptop
- Customer's aerial rig

How It Works

1. The 6A80 Series 6-Axis Standard Capacity Load Cell is fitted with a rod end bearing and attached to the top aerial rig with a type of swivel mount. It is also connected to the BX8-HD44 BlueDAQ Series Data Acquisition System.
2. The performer hangs from their aerial rig, and their weight is captured with BX8-HD44 BlueDAQ Series Data Acquisition System supplied BlueDAQ software. The results can be viewed, logged, and graphed on the customer's PC or laptop.

