

Industrial Fan Load Cell

Industry: Industrial Automation

Summary

Customer Challenge

Blowers and fans are used in key industries such as mining, chemical plants, and power plants. A manufacturer of industrial fans needs fan bearing solution that can perform at high speeds and loads. They want to ensure the fan's functionality, therefore, ensuring its service life as well.

Interface Solution

Interface's PBLC2 Pillow Block Load Bearing Load Cells were installed on the industrial fan's drive shaft during the assembly process. This is to measure the forces that could be transferred through the fan shaft like out of balance conditions and bearing loads.

Results

The PBLC2 Pillow Block Load Bearing Load Cells were the perfect solution for the assembly of the manufacturer's large industrial fans, producing high quality and trouble free fans.

Materials

- PBLC2 Pillow Block Load Bearing Load Cell
- BSC2 Dual Channel PC Interface Module with included BlueDAQ software
- Customer PC or Laptop

How It Works

1. Two PBLC2 Pillow Block Load Bearing Load Cells are installed on the industrial fans drive shaft, which is connected to a drive motor.
2. The motor is turned on, and the pillow block load bearings are tested to see if they are durable enough to hold high speeds and loads of the fan.
3. When connected to the BSC2 Dual Channel PC Interface Module, data is displayed, logged, and graphed on the customer's PC with supplied BlueDAQ software.

