

Cobot Arm Torque Transducer

Industry: Industrial Automation

Summary

Customer Challenge

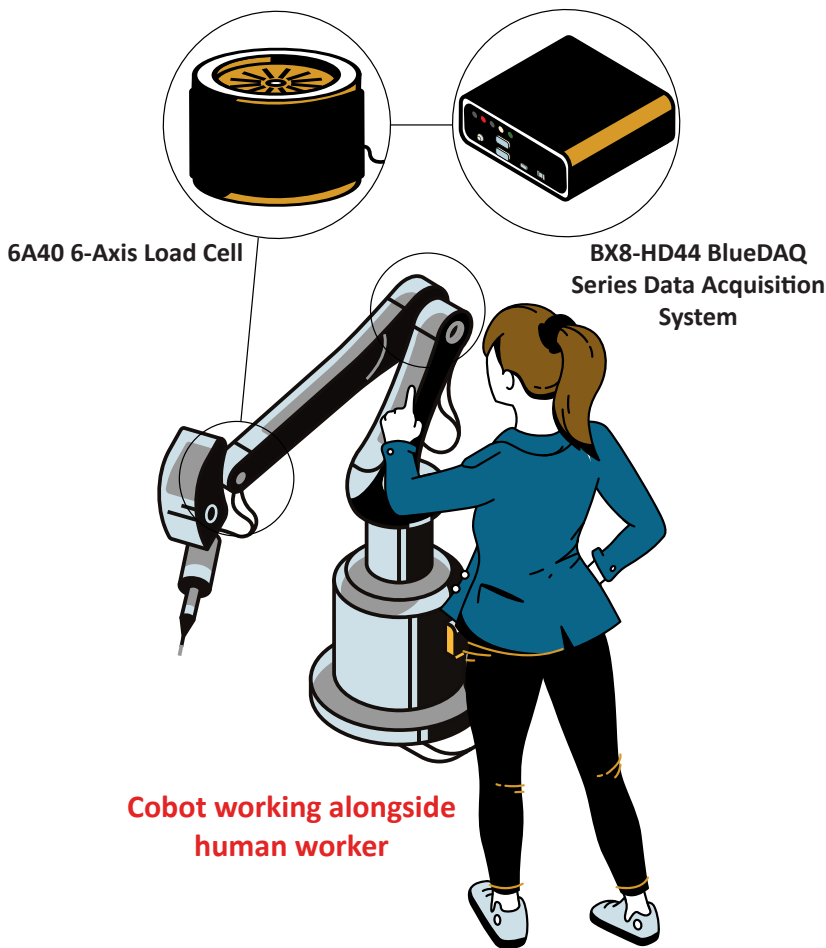
Collaborative robots, or cobots, are on the rise as they are more affordable, versatile, and user friendly along a range of different industries. However, as they are used to work alongside humans, the need for extensive safety measures need to be taken.

Interface Solution

Interface's Model 6A40A 6-Axis Load Cell can be installed at the head of the cobot to understand the amount of force and torque being applied during interactions with humans. These results can be logged, displayed, and measured when connected to Interface's BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software.

Results

The customer was able to detect any potential force or torque anomalies of the cobot, especially when working alongside a human worker during operations.



Materials

- 6A40 6-Axis Load Cell
- BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software
- Customer's robotic arm and control system

How It Works

1. The 6A40 6-Axis Load Cell is installed at the head of the cobot.
2. For data collection of force and torque measurements, the 6A40 6-Axis Load Cell interfaces with the BX8-HD44 BlueDAQ Series Data Acquisition System.
3. The customer connected the BX8's analog outputs to their control system. As a result, customer is able to log, display, and graph these measurements. The results are sent to the customer's control system via analog or digital output.