

Robotic Bartender

Multi-Axis

Industry: Entertainment

Summary

Customer Challenge

Event planners and venues are under pressure to deliver fast beverage service during high-volume parties, weddings, corporate events, and festivals. With a clear need for a more efficient alternative, robotic bartenders were created to meet the demand. However, force testing is required to detect subtle shifts in shaking and pouring mechanics to prevent spillage or error.

Interface Solution

Interface's 6A40 6-Axis Load Cell measure force and torque along several directions simultaneously—vital for accurate drink preparation under dynamic conditions. The testing results can be logged, displayed, and measured when connected to Interface's BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software.

Results

Thanks to Interface's products, every drink is poured with exact precision, resulting in 100% consistency and eliminating errors due to manual preparation.

Materials

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

How It Works

1. The 6A40 6-Axis Load Cell is installed at the head of the robotic bartender arm.
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. The 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.

