Sanding Machine Force Monitoring

Multi-Axis

Industry: Test and Measurement

Summary

Customer Challenge

A machining company that sells large sanding machines needs a force system to measure the z-axis of their machines. They want to measure the pressure feedback of their sanding machines, while maintaining the set amount of force as well. A force monitoring system is required to ensure their sanding machines are performing effectively.

Interface Solution

Interface's solution is to install the 3AXX 3-Axis Force Load Cell in between the sanding block and the sanding machine's head. Alongside Interface's BSC4A Multi-Channel Bridge Amplifier in conjunction with the customer's controls, the forces implemented on the 3-Axis load cell will be recorded for monitoring purposes.

Results

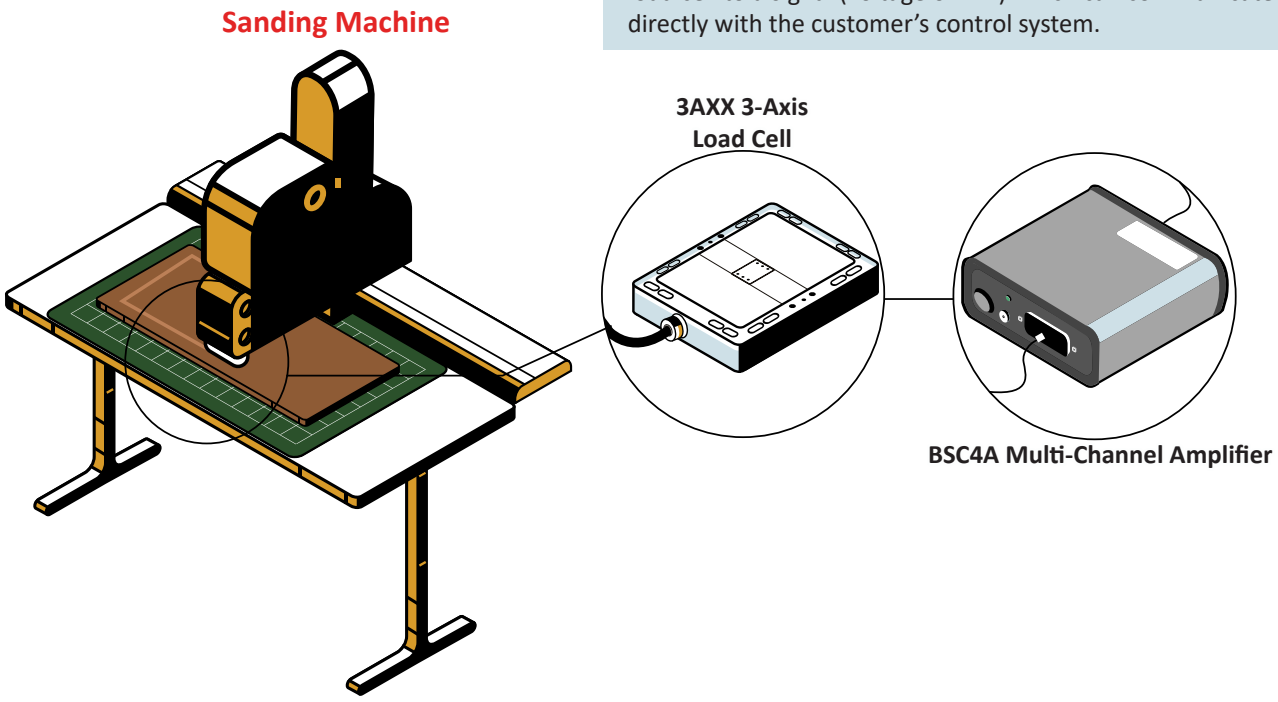
The customer's sanding machine was successfully able to monitor and maintain the pressure forces on their sanding machine with Interface's multi axis load cell.

Materials

- 3AXX 3-Axis Force Load Cell
- BSC4A Multi-Channel Bridge Amplifier
- Customer's controls
- Customer's sanding machine being tested

How It Works

1. The 3AXX 3-Axis Load Cell is installed between the sanding machine's sanding block and the head of the machine that will be putting pressure on the material being sanded.
2. When connected to the BSC4A Multi-Channel Bridge Amplifier, it will convert the mv/V signal from the 3-Axis load cell to a signal (voltage or mA) which can communicate directly with the customer's control system.



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7418 East Helm Drive, Scottsdale, AZ 85260 ▪ 480.948.5555 ▪ interfaceforce.com