

Prosthetic Foot Performance

Multi-Axis

Industry: OEM

Summary

Customer Challenge

Customer would like to know how a prosthetic foot responds as it is loaded during different stances.

Interface Solution

Interface's 3A120 3-Axis Load Cell was installed between the leg socket and the prosthetic foot. The 3A120 was then connected to the BSC4D Multi-Channel Bridge Amplifier and PC Interface Module.

Results

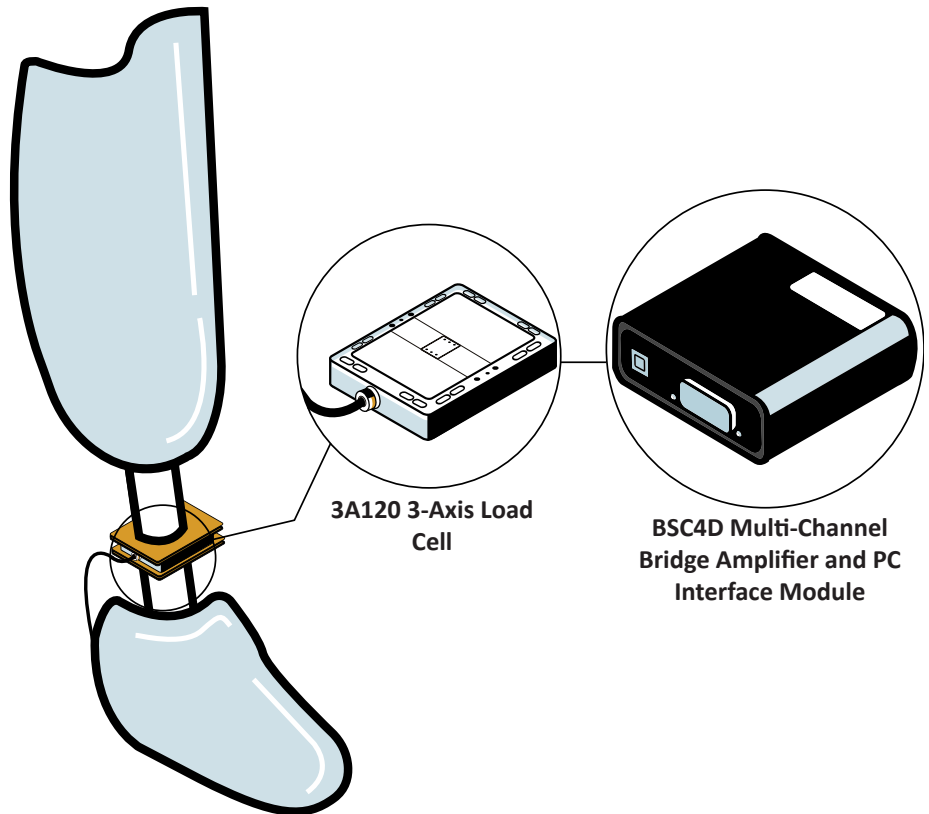
Data was logged for X, Y, and Z axis. Customer was able to review the results and identify premature foot flat and dead spots during foot's use. They can now make improvements to the design.

Materials

- 3A120 3-Axis Load Cell
- BSC4D Multi-Channel Bridge Amplifier and PC Interface Module
- Prosthetic foot

How It Works

1. Install the 3A120 into prosthetic foot load stream.
2. Connect to the BSC4D Multi-Channel Bridge Amplifier and PC Interface Module.
3. Review X, Y and Z force measurements to determine foot flat and dead spots.



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