Package Drop Tester

Load Cell

Industry: CPG

Summary

Customer Challenge

A package drop test is an experiment of the falls that a package carrying goods experiences during shipping and handling. During the test, a full package will be dropped in various ways in order to find any weaknesses which can then be addressed. A force system is needed to help create the package drop test environment.

Interface Solution

Four of Interface's SSB Sealed Beam Load Cells are mounted to each corner of the of the tester's platform. A package is dropped, and the SSB's are connected to the JB104SS 4-Channel Stainless Steel Junction Box to sum the forces. The junction box is then connected to the WTS-AM-1F Fast Wireless Strain Bridge Transmitter Module. Data is wirelessly transmitted to the WTS-BS-4 USB Base Station connected customer's computer, where it is displayed, logged, and graphed with supplied Log100 software.

Results

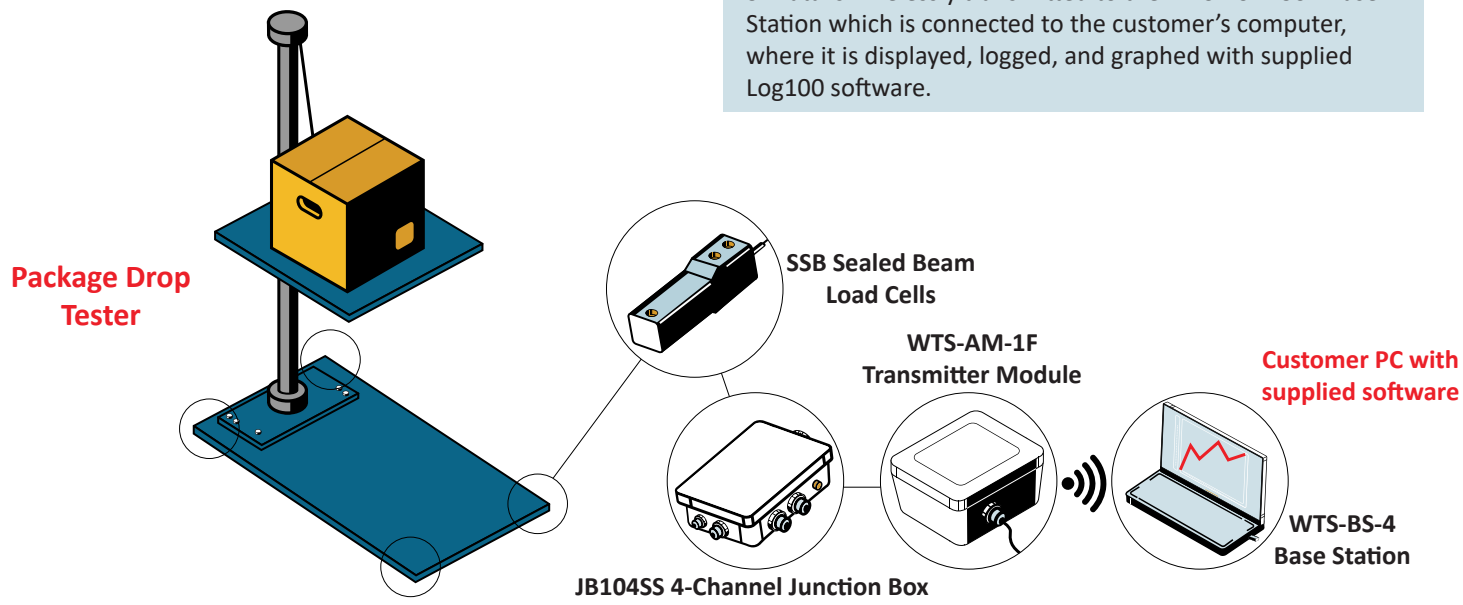
Interface's SSB Load Beam Load Cells successfully measured and monitored the force of the customer's package drop tester experiment.

Materials

- Four SSB Sealed Beam Load Cells
- JB104SS 4-Channel Stainless Steel Junction Box
- WTS-AM-1F Fast Wireless Strain Bridge Transmitter Module
- WTS-BS-4 Wireless Base Station with Log100 Software
- Customer PC

How It Works

1. Four of Interface's SSB Sealed Beam Load Cells are mounted to each corner of the of the tester's platform.
2. When a package is dropped, the SSB's are connected to the JB104SS 4-Channel Stainless Steel Junction Box to sum the forces. The junction box is then connected to the WTS-AM-1F Fast Wireless Strain Bridge Transmitter Module.
3. Data is wirelessly transmitted to the WTS-BS-4 USB Base Station which is connected to the customer's computer, where it is displayed, logged, and graphed with supplied Log100 software.



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