Landing Gear Joint Testing
Load Pin

Industry: Aerospace

Summary

Customer Challenge

An aerospace company wants to test their new spacecraft assembly and design by testing its landing gear joints. They want to ensure there are no flaws in the gear shock absorber design and can handle the applied forces when the craft lands from a flight.

Interface Solution

Interface's WTSLP Wireless Stainless Steel Load Pins can be installed and replace the normal pin joints. The spacecraft undergoes multiple drop tests at different heights, where the forces applied on the load pins are measured. The force results are transmitted wirelessly to the WTS-BS-4 USB Industrial Base Station in the customer's computer, and the WTS-BS-1-Ha Handheld Digital Display for multiple transmitters.

Results

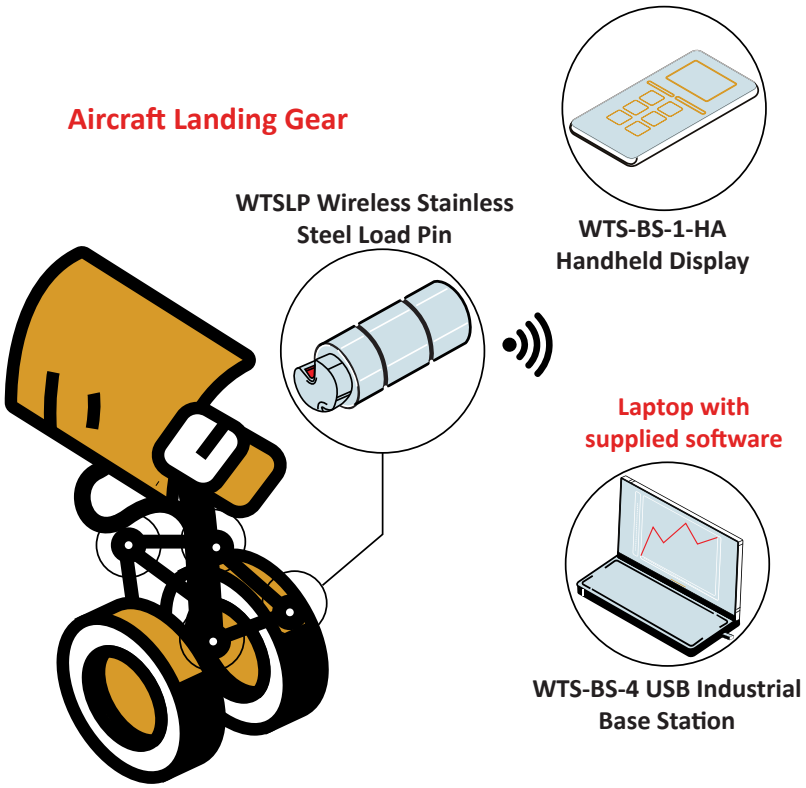
The customer was able to validate their spacecraft's landing gear structure is working effectively and safely.

Materials

- WTSLP Wireless Stainless Steel Load Pins
- WTS-BS-4 USB Industrial Base Station
- WTS Toolkit
- WTS-BS-1-HA Handheld Display for multiple transmitters
- Customer PC or Laptop

How It Works

1. The WTSLP Wireless Stainless Steel Load Pins are installed in the multiple articulating pin joints.
2. After multiple drop tests, the force measurements are transmitted wirelessly to the customer's computer through the WTS-BS-4 USB Industrial Base Station and the WTS-BS-1-HA Handheld Display for multiple transmitters.
3. The customer can record and log data with the supplied WTS toolkit that comes with the WTS-BS-4 USB Industrial Base Station.



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