

Pickleball Racket Core Assembly

Multi-Axis

Industry: Entertainment, Test and Measurement

Summary

Customer Challenge

A pickleball manufacturing company needs a force sensor during their assembly process. They need to measure the right amount of force it takes to press their pickle ball rackets core together, materials made of aluminum, polymer, Nomex, carbon fiber, fiber glass, foam and more.

Interface Solution

Interface's suggests installing their 3AXX 3-Axis Force Load Cell into the industrial press machine where the pickleball racket's materials are pressed together. When connected to WTS-AM-1E Wireless Strain Bridge Transmitter Modules, wireless results are transmitted to the customer's computer through the WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied Log100 Software, or using the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters.

Results

The customer was able to determine the different amount of force it took to assemble their pickleball rackets core during the manufacturing process.

Materials

- 3AXX 3-Axis Force Load Cell
- Three WTS-AM-1E Wireless Strain Bridge Transmitter Module, for each axis
- WTS-BS-6 Wireless Telemetry Dongle Base Station with Log100 Software
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- Customer PC or Laptop

How It Works

1. The 3AXX 3-Axis Force Load Cell is installed into the industrial press machine. It is also connected to three WTS-AM-1E Wireless Strain Bridge Transmitter Modules, one for each axis.
2. The pickleball racket is inserted, and the racket is pressed.
3. The force results are then wirelessly transmitted to the customer computer using the WTS-BS-6 Wireless Telemetry Dongle Base Station, where the customer is able to display, graph, and record the results using supplied Log100 software, or using the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters.

Industrial Press Machine

