



## Application: Half Shaft Monitoring

### The Challenge

A manufacturer of aftermarket automotive parts wanted to measure torque at the wheels during hard launch, to compare results of a stock vehicle with those of vehicle built with their parts. They needed a wireless torque measurement solution that could be packaged on the vehicle half shafts.

### System Requirements

There were several requirements for this monitoring system that drove the company to a TECAT solution.

- ✓ Compact: The system had to be mounted on halfshafts with a small diameter.
- ✓ Durable: The test required revving the engine to 7000RPM and then dumping the clutch, putting high load spikes into the system.
- ✓ Wireless: Only a wireless system could be used for testing this system on the test track.

### The TECAT Solution

TECAT installed their WISER torque measurement system on several stock halfshafts, which were then installed on both stock vehicles and vehicles with the aftermarket products. The test results showed that the torque output of the vehicle with the aftermarket products was actually yielding the stock halfshafts that were installed! The company was able to quickly obtain data that was critical information for their business.

