

MDPS Testing Load Cell

Industry: Automotive and Vehicle

Summary

Customer Challenge

A car manufacturer wants to test the power steering for their vehicles. They want to test the linkage tension and compression between the rack and pinion.

Interface Solution

On a test frame, Interface's 1200 Standard Precision LowProfile™ Load Cell is installed at the end of the rack and pinion actuator. As the wheel is turned, the load cell tests the push and pull forces. Force measurements can be displayed in real time using the highly accurate 9870 High-Speed High Performance TEDS Ready Indicator.

Results

Interface's 1200 Standard Precision LowProfile™ Load Cell successfully measured the tension and compression between the rack and pinion of the customer's MDPS system.

Materials

- 1200 Standard Precision LowProfile™ Load Cell
- 9870 High-Speed High Performance TEDS Ready Indicator
- Customer's MDPS test frame

How It Works

1. The 1200 Standard Precision LowProfile™ Load Cell is installed at the end of the rack and pinion actuator.
2. As the wheel turns, the lateral push and pull forces are tested to determine the strength of the rack and pinion link.
3. Force measurements can be displayed in real time using the highly accurate 9870 High-Speed High Performance TEDS Ready Indicator.

