

APPLICATION SOLUTION: Steering Linkage Test



Product Family: Rod-Style Screw-Drive
Electric Actuator

Product Used: RSA High Performance, High
Force Actuator

Product Type: Standard

Application Requirements

Stroke: 24 in (610 mm)

Speed: 3 - 4 in/sec (76 – 102 mm/sec)

Thrust: 10,000lbf (4.4 kN)

Application Description

Pull Tester Assembly – Pull test for steering/strut linkage assemblies

Challenge

To ensure high standards of performance, quality, durability, and safety an automotive supplier continuously tests their steering components. To streamline the testing they wanted a fixture that could provide and record feedback with customizable controls for different product lines.

Tolomatic Solution

Tolomatic collaborated with Solve, Inc. to provide the complete test fixture. This combined expertise was a significant added value for the automotive supplier. The RSA64 Rod-Style Screw-Drive Electric Actuator provides the needed force, speed, and stroke. Solve, Inc. developed the fixture and custom controllable electronics for feedback and data collection.

Customer Benefit

- Tolomatic sizing and selection software for best actuator choice
- The roller screw in the RSA64 provides high force, high precision, and long life
- Added value of the combined expertise of Tolomatic and Solve
- Feedback and data collection integrated into the system
- The complete test system met or exceeded user requirements