

# Reaction Torque Cell

For Dynamometer Testing

**Product Highlights**



A world renowned manufacturer of high performance automotive drive trains is using the Stellar Technology Model RFF530 reaction torque cell on a dynamometer test stand to perform fatigue and failure testing of various power train and drive-line components such as drive shafts, axles, and chassis mounts.

The torque cell is a modified RFF530 rated at 100,000 in/lbs with  $\pm 5Vdc$  output. It is calibrated for positive output in the clockwise direction, and negative output in the counter-clockwise direction. The bolt pattern and flange size were specified by the customer and engineered by Stellar Technology to fit their test facility.

The parts are designed to withstand the amount of torque typically found in the application. During the test, the part is twisted to that spec and then the test is repeated over and over again to determine the life expectancy for the part. In another test, continuously increasing torque is applied to the part to determine the failure point. The combination of data from these two tests is used to determine a rated torque specification for each drive train part.

Stellar Technology's design, manufacturing, and test capability provided the exact sensor solution required by the customer's application.

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