

# GET TO MARKET FASTER!

Turn measured strain data into meaningful load time histories with True-Load™ software

# TRUE LOAD™

## Do you know your loads?

One of the most challenging tasks for an analyst is to develop load cases for their FEA model that match measured strain values. Typically, it will take weeks to develop the right load cases that match just one or two strain gauges at a single point in time.

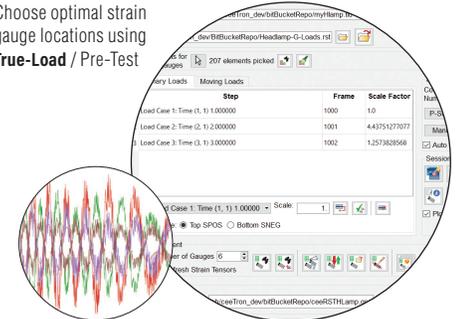
True-Load makes that situation a thing of the past. True-Load will determine optimal gauge placement based on the FEA model. Once strains are collected at these optimal gauge locations, the strain data is read into True-Load to calculate load time histories that will typically match the measured strain to within 2% at every point in time. When combined with True-QSE, interrogating any point in the model for strain, stress or displacement is easy and interactive. Typically, it takes a few minutes to determine the strain gauge placement and a few minutes to back calculate the loading profiles.

**IDEAL FOR INDUSTRIES WITH COMPLEX LOADING SUCH AS: Automotive • Off-Road • Heavy Equipment...and more!**

## WHY TRUE-LOAD?

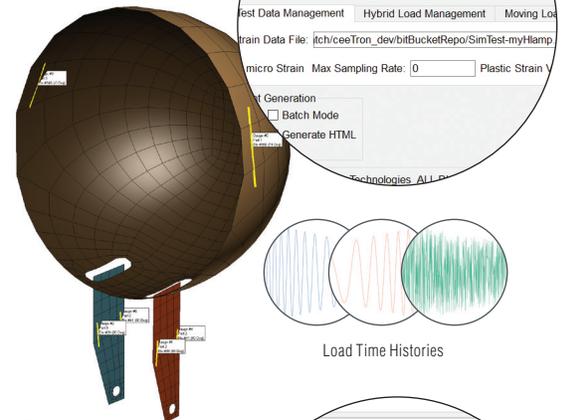
- » **SAVE TIME AND MONEY** by eliminating entire design / build / test cycles as a result of correct design decisions through the understanding of product loading
- » **TURN COMPONENTS INTO MULTI-DOF LOAD TRANSDUCERS** by leveraging the FEA model and uniaxial strain gauges
- » **DETERMINE OPTIMAL GAUGE PLACEMENT**
- » **CALCULATE LOADS** within 2% of measured data
- » **RAPIDLY ITERATE ON DESIGNS** using measured loading and highly efficient results reconstruction
- » **DRIVE FEA BASED FATIGUE ANALYSIS** using strain correlated loads
- » **COMPATIBLE WITH ALL FEA CODES** including Abaqus, Ansys, Nastran and more

### 01 Choose optimal strain gauge locations using True-Load / Pre-Test



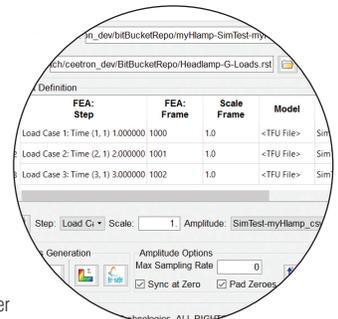
Measured Strain Data

### 02 Convert measured strain data into load time histories using True-Load / Post-Test



Load Time Histories

### 03 Produce results reconstruction in the FEA model using True-QSE



### 04 Get to market faster with True-Load



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