

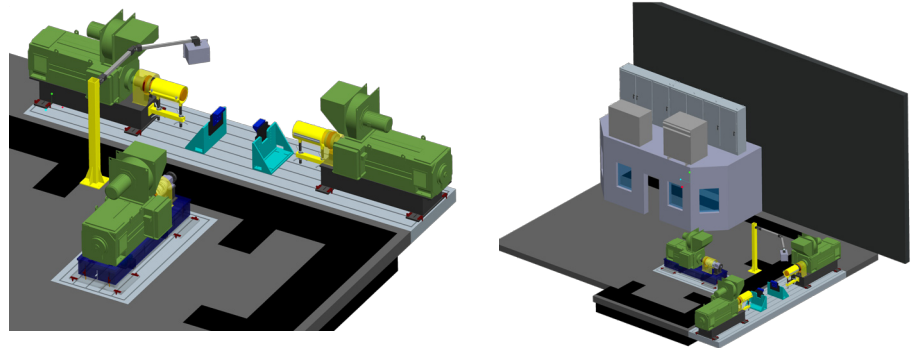
Axle Test Systems

Revolutionary Engineering (RE) Axle Test Systems provide our customers with a streamlined method for testing their axles using a single versatile test system. This system incorporates the latest technological advancements in sensor, control, and power electronics while relying on an experienced design. Our test systems come with AC input and output dynamometers that move axially to accommodate a variety of axle sizes. This allows the same drive shafts to be used for multiple axle designs. It also enables users to have precise speed and torque control of the dynamometers.

Tests

Using RE Axle Test Systems, customers are able to successfully perform steady-state tests as well as more demanding, highly transient tests, such as the following:

- Thermal cycles
- Gear fatigue
- Road-load simulation
- Track playback
- Torque bias
- Efficiency measurement
- Seizure
- Durability
- Key life
- Impact testing



As part of the test system, RE offers complete data post-processing. RE Axle Test Systems also allow users to set accelerometer limits to detect early failure. These limits can be changed during scheduled tests or manual operation. A detected failure will either de-energize the system (coast stop) or command a controlled-ramp stop.

Revolutionary Engineering Pro System

All of these tests are easily scheduled using the Revolutionary Engineering Pro System (REPS) for data acquisition and control. REPS provides customers with a direct interface to monitor an array of testing characteristics via user-customizable screens. Data is collected in real time on the REPS system and downloaded into ASCII, Excel, or TDMS formats that can be easily converted to other formats as well.

Sub-Systems Included

With our RE Axle Test Systems, we supply all the sub-systems required for axle testing. Following are some examples of the sub-systems RE provides:

- Recirculating oil systems
- Water-over-axle cooling systems
- CAN communication
- Adjustable axle-mounting fixtures
- Drive-shaft systems

