

Expanded Frequency Response Through Xcite's Unique Dual Loop Control

The Xcite line of standard force generation systems includes a broad range of built-in features, as well as all the electronic and hydraulic equipment options for complete application versatility. These Xcite systems were the first to be totally engineered for high frequency mechanical impedance testing with minimal operational training required. The end user is assured ease of use with little knowledge of electrohydraulic systems due to the systems flexibility of operation in numerous applications. All Xcite systems consist of three basic components: The Exciter Head, Master Controller, and Hydraulic Power Supply.

Exciter Head The Exciter Head, with its force and displacement transducers, generates and measures the force or torque to the structure being tested and provides feedback signals for control of the test variables.

Exciter heads are designed for maximum problem-solving flexibility in applications, fixtures and operation. Available in a broad range of force/ torque capabilities in linear, torsional, and inertial mass models, the exciter heads provide controlled static and dynamic force for a wide range of structural testing applications.



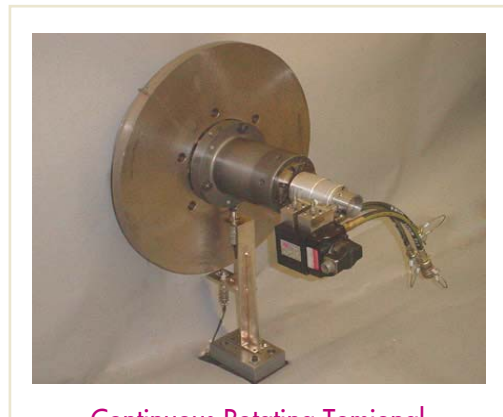
Linear Exciter Head



Torsional Exciter Head



Linear Inertial
Exciter Head



Continuous Rotating Torsional
Exciter Head

- Miniature strain gauge load cell for both static and dynamic force feedback and output
- Small size
- Tandem mounted displacement kit
- High frequency servovalve
- Low maintenance
- Easy to fixture
- Bronze impregnated TFE piston rings for low stiction
- Long life rod seals
- Precision ground piston rods