

## Systems & Solutions

Engineered

vibration testing

solutions for

improved

product quality.

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# EX Series Hydraulic Actuators

The *Team* EX Series Actuator is a high performance, versatile and cost effective vibration test system component. EX Series Actuators have been developed specifically for vibration testing and vibration test systems requiring high force, long stroke or high frequency capability. The EX Series Actuator will provide consistent, reliable test results year after year.

EX Series Actuators are all double acting, double ended and hydrostatically lubricated. *Team* actuators are designed to be stiff both mechanically and hydraulically. This is achieved by using a heavy body cross-section, a large diameter one-piece piston shaft and by keeping the trapped oil volume to a minimum.

The actuator piston is internally supported by hydrostatic bearings; a thin film of high-pressure oil. This feature eliminates metal-to-metal contact so bearing life is virtually infinite. To provide position feedback, an LVDT (linear variable displacement transformer) is mounted concentrically in the piston shaft.

The EX Series Actuator is designed to attach to conventional actuator rod end bearings or directly to the *Team* HydraBall, which provides for zero backlash transmission of force.

### Features:

- Internal LVDT
- Hydraulic Cushions
- Over 500 Hz. capability
- Hydrostatic Bearing Supported Piston
- Fatigue Rated One-Piece Rod & Piston
- Internal Porting-No External Drain Lines
- Compatible with *Team*, MOOG and Industrial Servovalves
- Low Pressure Seals (No annual (teardown / seal replacement)
- Spherical Bearings and Zero-Backlash Hydrostatic End Connections Available



### Applications:

- MAST Tables
- Load Frames
- Multi-Axis Systems
- Seismic Simulation Systems

# Sample Specifications

**Actuator Model**

EX-33-6  
 EX-33-10  
 EX-55-6  
 EX-55-10  
 EX-110-6  
 EX-110-10

Stroke	Dynamic Force Rating	Static Force Rating
6.0 in. (152.4 mm)	3,300 lbs (14.7 kN)	5000 lbs (22.2 kN)
10.0 in. (254 mm)	3,300 lbs (14.7 kN)	5000 lbs (22.2 kN)
6.0 in. (152.4 mm)	5,500 lbs (24.5 kN)	8,250 lbs (36.7 kN)
10.0 in. (254 mm)	5,500 lbs (24.5 kN)	8,250 lbs (36.7 kN)
6.0 in. (152.4 mm)	11,000 lbs (48.9 kN)	16,500 lbs (73.4 kN)
10.0 in. (254 mm)	11,000 lbs (48.9 kN)	16,500 lbs (73.4 kN)

