

# 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 continuous and consistent, reliable test results year after year.

## 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 tear down or seal replacement)
- Spherical Bearings and Zero-Backlash Hydrostatic End Connections Available

## Applications:

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



# Specifications

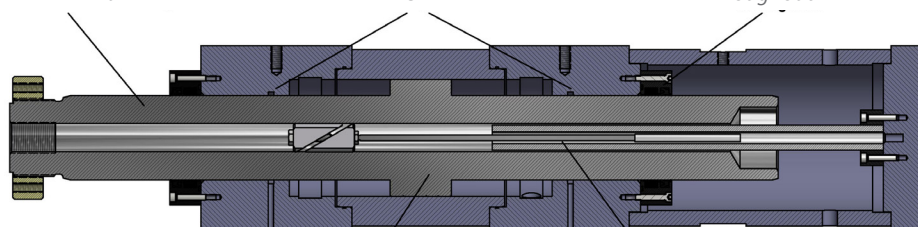
Actuator Model	Stroke	Dynamic Force Rating	Static Force Rating
EX-33-6	6.0 in. (152.4 mm)	3,300 lbs (14.7 kN)	5000 lbs (22.2 kN)
EX-33-10	10.0 in. (254 mm)	3,300 lbs (14.7 kN)	5000 lbs (22.2 kN)
EX-55-6	6.0 in. (152.4 mm)	5,500 lbs (24.5 kN)	8,250 lbs (36.7 kN)
EX-55-10	10.0 in. (254 mm)	5,500 lbs (24.5 kN)	8,250 lbs (36.7 kN)
EX-110-6	6.0 in. (152.4 mm)	11,000 lbs (48.9 kN)	16,500 lbs (73.4 kN)
EX-110-10	10.0 in. (254 mm)	11,000 lbs (48.9 kN)	16,500 lbs (73.4 kN)

EX Series Actuators are double acting, double ended and hydrostatically lubricated. Team EX series 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.

*One Piece, Fatigue Rated Piston  
and Piston Rod Assembly*

*Hydrostatic Bearings  
Throughout*

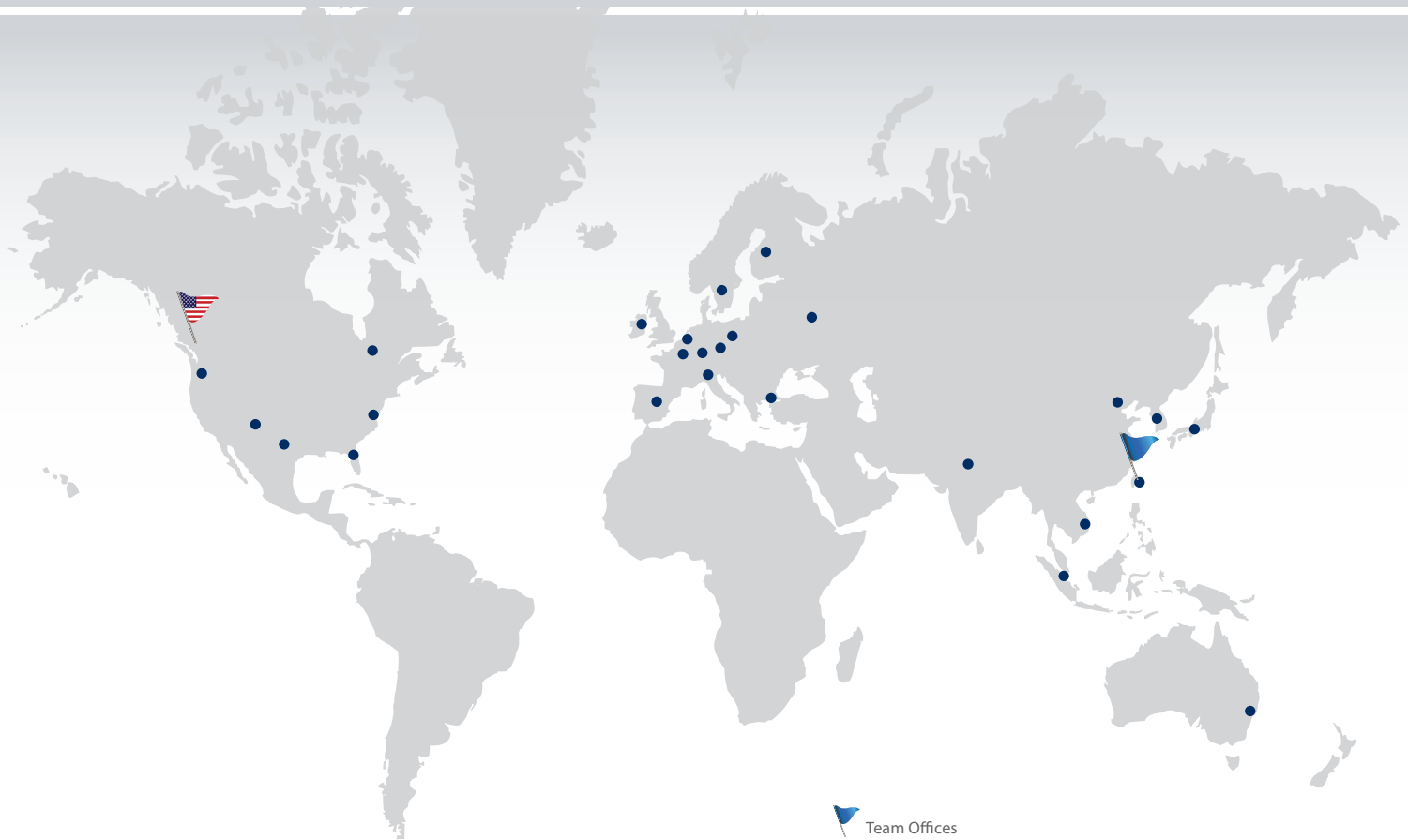
*Low Pressure Seals  
Throughout*



*No Contact Moving Element*

*Integrated LVDT*





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