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.

EX Series Hydraulic Actuators

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 Road & Piston
- Internal Porting-No External Drain Lines
- Compatible with Team, MOOG and Industrial Servo valves
- 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

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

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.