

# Linear Servo Actuator Cylinder

This linear servo actuator cylinder is designed for precise linear motion and force control. It delivers exceptional frequency response and stability for accurate positioning.



## Product Overview

### High-Precision Hydrostatic Actuation

The Linear Servo Actuator Cylinder is engineered for demanding testing environments where high accuracy in control and measurement is essential. Utilizing a specialized hydrostatic bearing system, the actuator eliminates sealing gaskets and ensures constant alignment between the piston rod and cylinder housing. By maintaining a pressurized oil film between all sliding surfaces, it effectively eliminates friction and wear, even under lateral force.

## Technical Features

Bearing System	Hydrostatic bearing unit with self-regulating piston rod
Friction Management	Yes
Key Advantages	No sealing gaskets, Zero friction, Wear-free operation, High-accuracy control, Constant alignment

## Application Suitability

### Primary Applications

- Material testing
- Friction pair analysis
- High-precision control tasks
- Measurement-critical applications