

# Hydrostatic Linear Bearing Servo Cylinder

This servo cylinder features hydrostatic bearings, eliminating sliding friction and stick-slip for exceptional frequency response. It maintains constant alignment under high lateral loads and provides exceptional reliability and endurance.



## Overview

### High-Precision Hydrostatic Actuation

The Hydrostatic Linear Bearing Servo Cylinder is engineered for applications requiring exceptional control and measurement accuracy. By eliminating sealing gaskets and utilizing a specialized hydrostatic bearing unit, the piston rod maintains constant alignment and central guiding. This design ensures that all sliding surfaces are separated by a pressurized oil film, effectively eliminating friction and wear even under lateral forces.

## Technical Features

### Friction Management

Zero Friction • Wear-free Operation • Pressurized Oil Film

### Bearing Technology

Hydrostatic

### Alignment System

Automatic self-regulation

## Performance

### Key Performance Indicators

**1 None**

Friction Level

**100 %**

Alignment Efficiency

## Application Suitability

### Recommended Applications

- Precision machinery
- Testing equipment
- High-accuracy control systems
- High-accuracy measurement tasks