

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