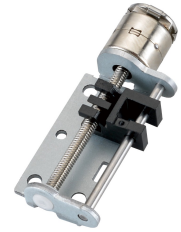


# Miniature Stepper Motor with Lead Screw

This miniature linear actuator is driven by a stepper motor. It incorporates a lead screw mechanism to achieve precise linear motion.



## General Overview

### VSM08 Precision Linear Actuator

The VSM08 is a high-precision miniature stepper motor equipped with a specialized lead screw mechanism for accurate linear positioning. Designed with a compact form factor, it features stable guide rods and a robust mounting plate for reliable operation in space-constrained applications. It supports multiple voltage configurations and provides consistent performance with a defined 18-degree step angle and clockwise rotation.

## Performance Metrics

### Key Operating Metrics

**18 deg**

Step Angle

**2000 PPS**

Max Response Freq

**0.4 mm**

Lead Screw Pitch

## Technical Specifications

Model	Voltage	Resistance	Self-Start Freq
VSM0809	3.3V	20 ±10%Ⓞ	800 PPS
VSM08107	3.3V	40 ±10%Ⓞ	1000 PPS
VSM08162	5.0V	50 ±10%Ⓞ	800 PPS

Engineering specification data and connection diagrams for the VSM08 series.

### Model Configuration Table

Model	Voltage	Resistance	Self-Start Freq
VSM0809	3.3V	20 ±10%Ⓞ	800 PPS
VSM08107	3.3V	40 ±10%Ⓞ	1000 PPS
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## Mechanical Design

### Precision Features

Clockwise Rotation, Single Lead Screw, High Precision, Compact Design