

THS4 series Lengthened Type pneumatic vibration isolator

The THS4 extended vibration isolators provide superior vibration isolation performance with much shorter settling time than optical tables because of the larger space in the internal damping chamber.



Product Introduction

Providing horizontal damping performance in both vertical and horizontal directions, the THS4 damper uses a two-chamber system with orifice to connect the air chamber to the damping chamber.

The two-chamber structure can effectively reduce the vibration transmitted to the equipment, resulting in a shorter settling time of the moving platform and a lower inherent frequency.

For higher leveling, a precision leveling valve ($\pm 0.05\text{mm}$) can be placed on the vibration isolators for better vibration isolation performance.

The THS4 series dampers can be equipped with built-in oil damper, which shortens the settling time of the moving platform and increases the rigidity of the vibration isolators.

Product Application

Optical equipment, testing equipment, semiconductor equipment, probe stations

Isolation type: pneumatic

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Natural frequency: horizontal/vertical = 1.5-2Hz

Isolation performance: 90-99% at 10Hz

Automatic leveling: Yes Standard Leveling Repeatability: $\pm 0.1\text{mm}$ High Precision Leveling Repeatability: $\pm 0.05\text{mm}$

Main parameter

Note: the height (H) is the inflatable height, and the uninflatable height is reduced by 10mm.
The best selection is according to 70% - 80% of the load, the air pressure is between 0.3 and 0.4Mpa.

Model	Load(kg)	Height
THS 4-100Z	70~100	Customizable
THS 4-300Z	210~300	Customizable
THS 4-500Z	350~550	Customizable
THS 4-800Z	560~850	Customizable
THS 4-1200Z	840~1200	Customizable
THS 4-1500Z	1050~1500	Customizable
THS 4-2000Z	1400~2000	Customizable
THS 4-2500Z	1750~2500	Customizable
THS 4-3000Z	2100~3000	Customizable
THS 4-4500Z	3150~4500	Customizable

THS5 Mini Vibration Isolator

The THS5-1 mini damper is compact and can be used in scenarios requiring less space to achieve excellent vibration isolation performance in both vertical and horizontal directions.



Instrument demonstration



Customizable



Excellent quality and price



Quick solution



Quality Assurance

