

THS series passive vibration isolator

THS series isolator are mainly used in semi-conductor, panel industry, 3C equipment, 5G related equipment and testing equipment.

It minimize the settling time and effectively isolate the vibration, thus it can be widely used in the moving platform of different velocity and with various payload.



Instrument demonstration



Customizable



Excellent quality and price



Quick solution

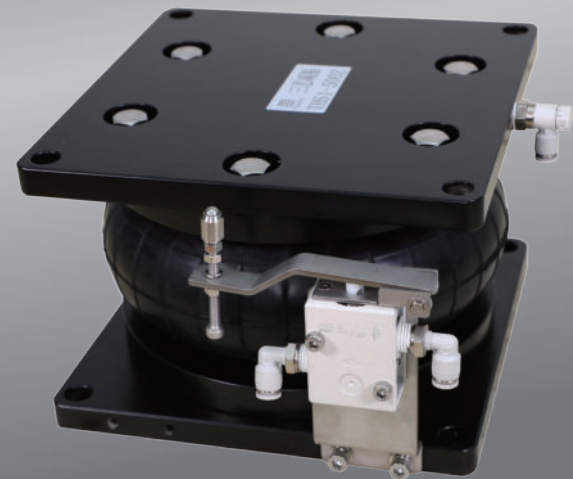


Quality Assurance



THS1 series pneumatic vibration isolator

THS1 series is a basic pneumatic vibration isolator with bellows air springs, which is simple in design and provide basic isolation performance in both horizontal and vertical at low cost. Bellows air spring is light and has long service life.



Product Introduction

If higher level of repeatability is required, the precision leveling valve with repeatability of 0.05mm can be equipped with the vibration isolation system to shorten the settling time and ensure the stability of the platform. Standard leveling valve with repeatability of 0.5mm is also available.

THS1 pneumatic isolators incorporating the built-in oil damper can shorten the settling time of the equipment with linear stage, and increase the stiffness of the platform.

Product Application

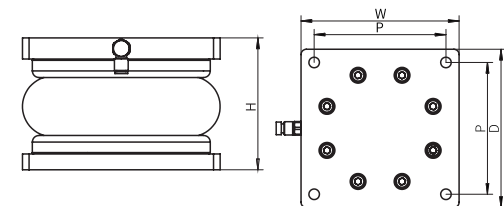
Panel equipment, Optical equipment, Testing equipment, Semi-conductor equipment, Medical Aerospace and military industry, Precision motion platform etc.

Isolation type: pneumatic

Natural frequency: horizontal/vertical =2.8-3.5Hz
Isolation performance: 70-90% at 10Hz

Automatic leveling: Yes

Standard Leveling Repeatability: ±0.1mm High Precision Leveling Repeatability: ±0.05mm



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	Size WxDxH(mm)	Installation Size PxP(mm)	Installation aperture(φ)	Weight(kg)	Load(kg)
THS 1-100Z	100*100*88	80*80	10	2.5	70~100
THS 1-200Z	120*120*88	100*100	10	4	140~200
THS 1-300Z	150*150*100	125*125	10	7	210~300
THS 1-400Z	190*190*130	165*165	12	13	280~400
THS 1-500Z	220*220*150	195*195	14	18.5	350~500
THS 1-1000Z	240*240*150	210*210	14	21	700~1000
THS 1-1500Z	280*280*150	250*250	14	26	1050~1500
THS 1-2000Z	320*320*150	290*290	14	32	1400~2000
THS 1-2500Z	360*360*172	330*330	14	46	1750~2500
THS 1-3000Z	380*380*172	350*350	14	51	2100~3000
THS 1-3500Z	450*450*174	410*410	14	65	2450~3500
THS 1-4000Z	500*500*174	460*460	16	74	2800~4000
THS 1-4500Z	540*540*174	500*500	16	86	3150~4500
THS 1-5000Z	600*600*174	560*560	16	100	3500~5000
THS 1-6000Z	650*650*187	600*600	16	122	3850~6000