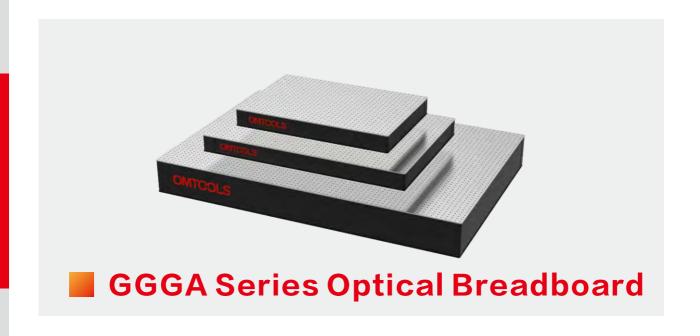




OMTCOLS

Catalogue 2023



OMTOOLS HMBA series breadboard are widely used in optical experiments, life science, precision instrument measurement, aerospace experiments etc. With 430 stainless steel on top and bottom, 4mm thick well shape core cell making the top of breadboard supper rigid, clean, and stainless, also minimize the sources of vibrations and reinforce the structural damping. The breadboard is all steel structure which ensuring the long term thermal stability.

Features

Breadboard Thickness (mm)	50-300
Top Board Thickness	6mm 430 (stainless)
Surface	Matte
Damping Method	Broadband Damping
Welding Core Cell	Well Shape

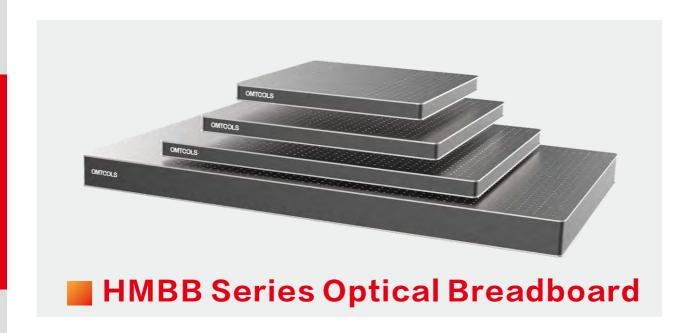
Screw Holes	M6 \ 25x25mm	
Surface Flatness	≤0.1mm/600X600mm	
Surface Roughness (um)	≤3.2	
Deformation	< 2um/m²	
OEMservice	support	

Name Rule



Model	platform size (mm)	thickness (mm)	
HMBA0606	600x600		
HMBA075075	750x750		
HMBA0906	900x600	50/00/400	
HMBA1007	1000×700	50/80/100	
HMBA1008	1000×800		
HMBA1208	1200×800		
HMBA1509	1500×900		
HMBA1510	1500x1000	100/150/200	
HMBA1512	1500x1200	100/100/200	
HMBA1609	1600x900		
HMBA1812	1800x1200		
HMBA1815	1800x1500		
HMBA2010	2000x1000	100/150/200	
HMBA2012	2000x1200		
HMBA2015	2000x1500		

__thickness in red are for options.



OMTOOLS HMBB series breadboard are widely used in optical experiments, life science, precision instrument measurement, aerospace experiments etc. With 430 stainless steel on top and bottom, 4mm thick well shape core cell making the top of breadboard supper rigid, clean, and stainless, also minimize the sources of vibrations and reinforce the structural damping. The breadboard is all steel structure which ensuring the long term thermal stability.

▶ Features

Thickness (mm)	50-300
Top Board Thickness	6mm 430 (stainless)
Damping Method	Broadband Damping
Welding Core Cell	Well Shape
Screw Holes	M6、 25x25mm

Surface Plane	≤0.1mm/600X600
Surface Roughness (um)	≤3.2, matte surface
Deviation	< 2um/m²
OEM Serivice	Suppport

▶ Name Rule



Model	Platform Size (mm)	Thickness (mm)	
HMBB0606	600x600		
HMBB075075	750x750		
HMBB0906	900x600	50/80/ <mark>100</mark>	
HMBB1007	1000×700	30/80/100	
HMBB1008	1000×800		
HMBB1208	1200×800		
HMBB1509	1500×900		
HMBB1510	1500×1000	100/150/200	
HMBB1512	1500x1200	100/130/200	
HMBB1609	1600x900		
HMBB1812	1800x1200		
HMBB1815	1800x1500		
HMBB2010	2000x1000	100/150/ <mark>200</mark>	
HMBB2012	2000x1200		
HMBB2015	2000x1500		

^{*}thickness in red are for options.



OMTOOLS HPBC series breadboard are widely used in optical experiments, life science, precision instrument measurement, aerospace experiments etc. With 430 stainless steel on top and bottom, 4mm thick well shape core cell making the top of breadboard supper rigid, clean, and stainless, also minimize the sources of vibrations and reinforce the structural damping. The breadboard is all steel structure which ensuring the long term thermal stability.

Also there are 5 counterbores on bottom of the breadboards of length more than 300mm, 4 counterbores in each corner and the other one in the center of the breadboard which could be mounted with ground mats to reduce the deviation of the breadboard.

Features

Thickness (mm)	13/20	
Material	6061-T6 aluminum alloy	
Surface Process	black anodic oxidation	
Screw Holes	M6、25×25mm	

▶ Name Rule



Model	Platform Size (mm)	Thickness (mm)	
HPBC015010	150x100		
HPBC015015	150x150		
HPBC03015	300x150		
HPBC0202	200x200	13	
HPBC0303	300x300	15	
HPBC04503	450x300		
HPBC0603	600x300		
HPBC06045	600x450		
HPBC0606	600x600	42/20	
HPBC0906	900x600	13/20	

^{*} support customized dimensions.



OMTOOLS HGZT series optical table provide excellent rigidity and damping, effectively reducing the relative motion over a wide frequency range which is widely used in optical & photonics experiments, optic fiber industry, laser manufacturing & measurement, precision measurement applications. The table adopted stainless magnetic steel, which is light weight, rigid, damping and high levelness. The surface is grinded and matte, it is really a good choice as a perfect optical table.

▶ Features

Vibration Isolator	Damping Rubber	
Adjustment Direction	Horizontal Adjustment	
Total Height (mm)	800	
Surface Plane	0.1mm/600X600mm	
Surface Roughness	≤3.2um	

Surface	Matte
Frequency	7Hz~16Hz
Adjustment Method	Manual
Adjustment Range (mm)	±10

Name Rule



Model	Dimensions (LxWxH) (mm)	Load (kg)	Q'TY of Supports	Support(LxW) (mm)
HGZT0606	600x600x800	<750		
HGZT0906	900x600x800	<720		120×120
HGZT1008	1000x800x800	<700		120x120
HGZT1208	1200x800x800	<670		
HGZT1509	1500x900x800	<1300		
HGZT1510	1500x1000x800	<1250		
HGZT1512	1500x1200x800	<1250		
HGZT1609	1600x900x800	<1300	4	
HGZT1812	1800×1200×800	<1200	4	
HGZT1815	1800×1500×800	<1135		200×200
HGZT2010	2000×1000×800	<1230		200x200
HGZT2012	2000×1200×800	<1176		
HGZT2412	2400×1200×800	<1112		
HGZT2415	2400×1500×800	<1014		
HGZT3010	3000×1000×800	<1095		
HGZT3012	3000x1200x800	<1014		

Model	Dimensions (LxWxH)(mm)	Load (kg)	Q'TY of Supports	Support(LxW) (mm)
HGZT3015	3000x1500x800	<1650	6	- 200x200
HGZT3512	3500×1200×800	<1700		
HGZT3515	3500×1500×800	<1683	0	
HGZT4015	4000×1500×800	<1542		
HGZT4215	4200×1500×800	<2150	- 8	
HGZT4815	4800×1500×800	<2028		
HGZT5015	5000x1500x800	<3488	- 12	
HGZT6015	6000x1500x800	<3285		



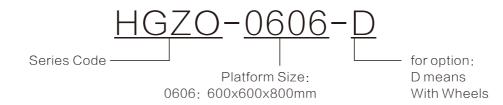
HGZO series advanced damping vibration isolation optical table is special designed for experiments with high vibration isolation requirements, which is combined with precision damping rubber and tapered horizontal bearing, as well as 430 stainleness steel on top of the table, it provides excellent rigidity and damping, effectively reducing the relative motion over a wide frequency range. This series optical table can be used in optic communictaions, electronic manufacturing, life science, optic & photonics experiments, laser interference, optical measurements and so on.

▶ Features

Vibration Isolation Method	Damping Rubber	
Adjustment Method	tapered horizontal bearing	
Total Height (mm)	800	
Surface Plane	0.1mm/600X600mm	
Surface Roughness	≤3.2um	

Surface	Matte
Frequency	6Hz~12Hz
Adjustment Method	Manual
Adjustment Range (mm)	± 10

Name Rule



Model	Dimensions (LxWxH) (mm)	Load (kg)	Thick (mm)	Q'TY of Support(PCS)	Support Size(LxW)mm
HGZ00606	600x600x800	<750			120x120
HGZO0906	900×600×800	<720	100		
HGZO1008	1000x800x800	<700	100		
HGZO1208	1200x800x800	<670			
HGZO1509	1500x900x800	<1300			
HGZO1510	1500×1000×800	<1250	150		200×200
HGZO1512	1500×1200×800	<1250	150	- 4 200x	
HGZO1609	1600x900x800	<1300			
HGZO1812	1800×1200×800	<1200			
HGZO1815	1800×1500×800	<1135			
HGZO2010	2000x1000x800	<1230			
HGZO2012	2000×1200×800	<1176	200		
HGZO2412	2400×1200×800	<1112	200		
HGZO2415	2400×1500×800	<1014			
HGZO3010	3000×1000×800	<1095			
HGZO3012	3000x1200x800	<1014			

Model	Dimensions (LxWxH) (mm)	Load (kg)	Thickness (mm)	Q'TY of Support(PCS)	Support Size(LxW)mm
HGZO3015	3000×1500×800	<1650			200×200
HGZO3512	3500×1200×800	<1700		6	
HGZO3515	3500×1500×800	<1683		0	
HGZO4015	4000×1500×800	<1542	300		
HGZO4215	4200×1500×800	<2150	300	12	
HGZO4815	4800×1500×800	<2028			
HGZO5015	5000×1500×800	<3488			
HGZO6015	6000x1500x800	<3285			



OMTOOLS HGZQ series is the advanced vibration isolation table series, which is special designed with 2 chambers (Air Chamber & Damping Chamber) to get the best performance of vibration isolation. HGZQ series is also support automatic adjustment in 6 degree of freedom. This series optical table can be used in optic communictaions, electronic manufacturing, life science, optic & photonics experiments, laser interference, optical measurements and so on.

Features

Vibration Method	pneumatic	
Table Height (mm)	800	
Table Flatness	0.1mm/600X600mm	
Table Roughness	≤3.2um	
Surface	Matte	

Amplitude	≤0.7mm/s
Rated Frequency	2.5Hz~3Hz
Adjustment Method	Automatic Adjustment
Air Compressor	Silent < 65Db
Adjustment Range (mm)	± 10

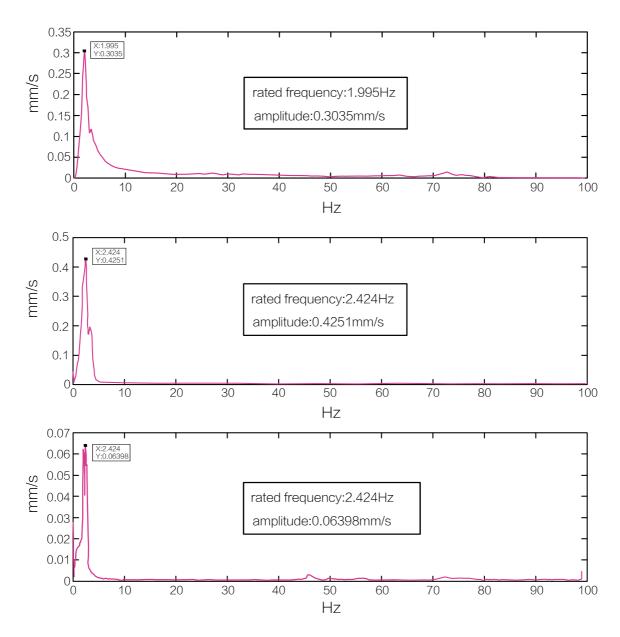
Name Rules



Model	Dimensions(LxWxH) (mm)	Load (kg)	Table Top Weight (kg)	Q'TY of Support(PCS)	Support Size(LxW)mm
HGZQ0606	600x600x800	<350	54		400 400
HGZQ0906	900x600x800	<320	81		
HGZQ1008	1000x800x800	<300	120		120x120
HGZQ1208	1200x800x800	<270	144		
HGZQ1509	1500x900x800	<600	202		
HGZQ1510	1500×1000×800	<550	210		
HGZQ1512	1500×1200×800	<550	250		
HGZQ1609	1600x900x800	<600	216	4	
HGZQ1812	1800×1200×800	<500	324	4	
HGZQ1815	1800×1500×800	<435	378		200x200
HGZQ2010	2000×1000×800	<530	300		
HGZQ2012	2000×1200×800	<476	360		
HGZQ2412	2400×1200×800	<412	432		
HGZQ2415	2400×1500×800	<314	540		
HGZQ3010	3000×1000×800	<395	480		
HGZQ3012	3000×1200×800	<314	576		
HGZQ3015	3000×1500×800	<600	720		
HGZQ3512	3500×1200×800	<650	672		
HGZQ3515	3500×1500×800	<633	840	- 6	
HGZQ4015	4000×1500×800	<492	960		000 000
HGZQ4215	4200×1500×800	<750	1008		200x200
HGZQ4815	4800×1500×800	<628	1152	- 8	
HGZQ5015	5000×1500×800	<1388	1200	40	
HGZQ6015	6000×1500×800	<1185	1440	12	

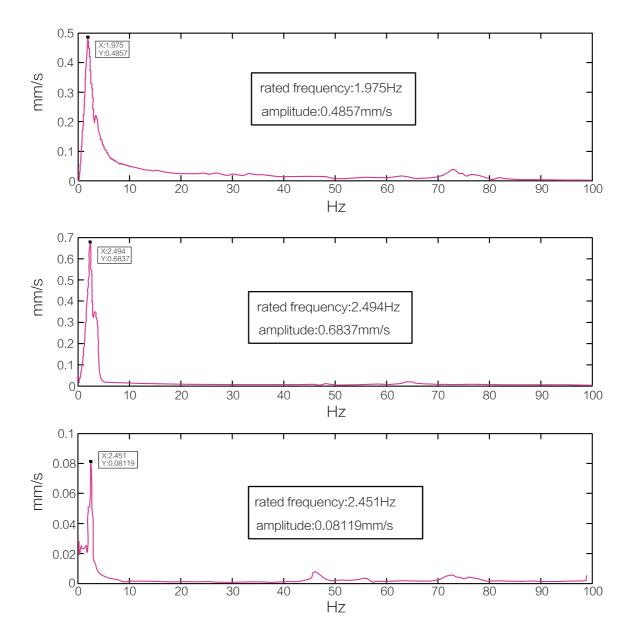
► Rated Frequency

Support (LxW): 120X120mm

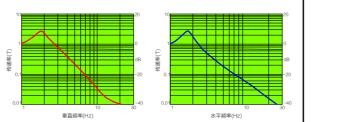


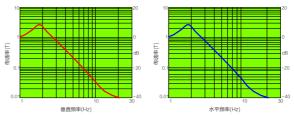
► Rated Frequ

Support (LxW): 120X120mm



Efficiency







Scientific Grade HGZK series is the high efficient vibration isolation optical table sereis. Adopted German super thin composite material as the air sac, and with the advance damping technology, which makes this series optical table more stable, silent, autoinflation and high efficient. HGZK series could be used in high precision optical&photonics experiment, microscope industry, life science, laser industry, optic fiber testing and so on.

Features

Vibration Isolation Method	air spring, damping rubber	
Flatness	0.1mm/600X600mm	
Roughness	≤3.2um	
Surface	matte	

Rated Frequency	1.5Hz~2.7Hz
Adjustment Method	automatic
Air Compressor	silent compressor < 65Db
Adjustment Range (mm)	±10

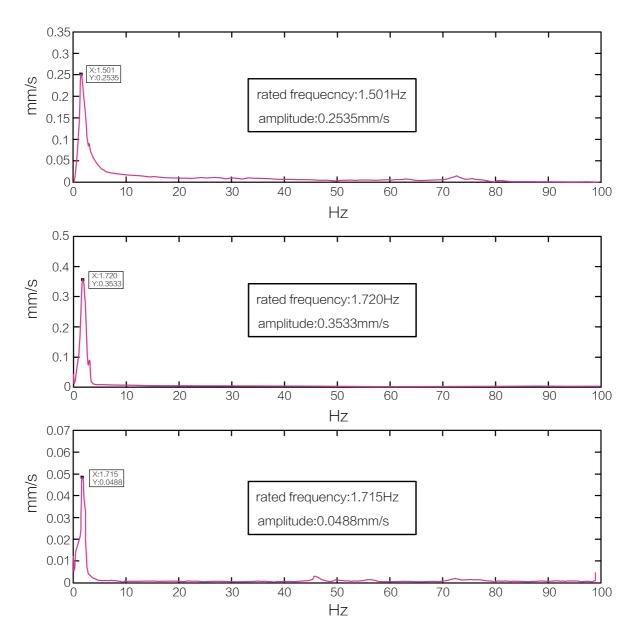
Name Rule



Model	Dimensions (LxWxH) (mm)	Load (kg)	Thickness (mm)	Table Top Weight (kg)	Support's Q'TY (pcs)	Support's Size(LxW) (mm)
HGZK0606	600x600x800	<350	54			
HGZK0906	900x600x800	<320	100	81		120,420
HGZK1008	1000x800x800	<300	100	120		120x120
HGZK1208	1200x800x800	<270	144 202 210 250	144		
HGZK1509	1500x900x800	<600				
HGZK1510	1500x1000x800	<550		210		
HGZK1512	1500x1200x800	<550		250		
HGZK1609	1600x900x800	<600		216	4	
HGZK1812	1800×1200×800	<500		324	4	200x200
HGZK1815	1800×1500×800	<435		378		
HGZK2010	2000x1000x800	<530		300		
HGZK2012	2000x1200x800	<476	200	360		
HGZK2412	2400×1200×800	<412	200	432		
HGZK2415	2400x1500x800	<314		540		
HGZK3010	3000x1000x800	<395		480		
HGZK3012	3000x1200x800	<314		576		
HGZK3015	3000x1500x800	<600		720		
HGZK3512	3500x1200x800	<650		672	6	
HGZK3515	3500x1500x800	<633		840	- 6	
HGZK4015	4000x1500x800	<492	200	960		200,200
HGZK4215	4200×1500×800	<750	300	1008	0	200x200
HGZK4815	4800×1500×800	<628		1152	- 8	
HGZK5015	5000x1500x800	<1388		1200	10	
HGZK6015	6000x1500x800	<1185		1440	- 12	

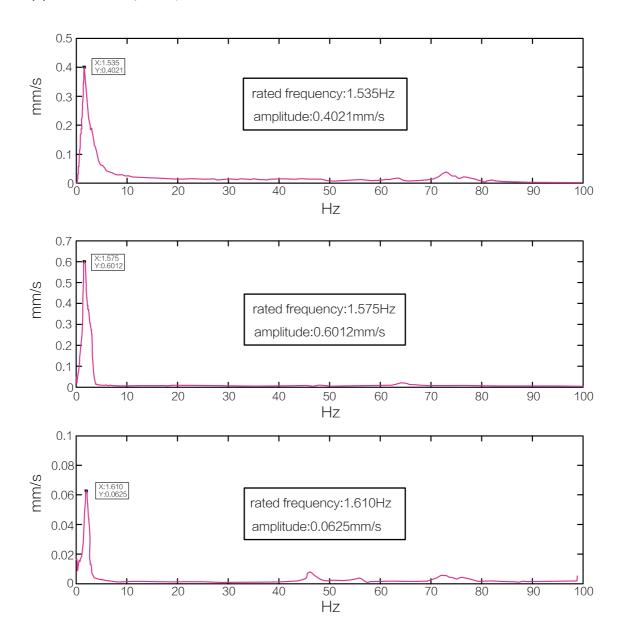
▶ Rated Frequency

Support's Size(LxW): 120X120mm

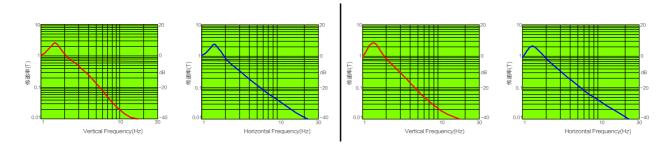


► Rated Frequency

Support's Size(LxW): 200X200mm



vibration isolation efficiency





HGZM series adopted POM nonmagnetic table top, which is rigid, high strengh, high ware resistance. It's mechanical properties are excellent, the specific strength can reach 50.5 MPa, and the specific stiffness can reach 2650 MPa, which is very close to metal. POM has good electrical insulation and is hardly affected by temperature and humidity; the dielectric loss changes little in a wide range of temperature, humidity and frequency; it has excellent arc resistance and can be maintained at high temperatures. Suitable for occasions with high requirements for magnetic fields.

Note: if it is in long-term use in temperature range of -40° C \sim 100° C, please avoid strong acid corrosion, avoid contact with high temperature, and it is easy to decompose at temperature of 280° C.

▶ Name Rule

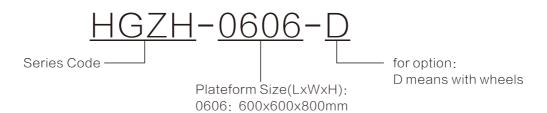


Model	Dimensions (LxWxH) (mm)	Load (kg)	Thickness (mm)	Support's Q'TY(pcs)	Support Size(LxW) (mm)
HGZM0606	600x600x800	<90		4	120×120
HGZM0906	900x600x800	< 135	100		
HGZM1008	1000x800x800	< 200	100	4	120x120
HGZM1208	1200×800×800	< 240			



The stainless steel nonmagnetic HGZH series optical table adopted 304/316 stainless steel, if you need a specific level of nonmagnetic table, we will suggest our HGZM series POM nonmagnetic optical table, which has two types for option. We support only table top magnetic and also both table top and support legs nonmagnetic, just feel free to contact us on details.

▶ Name Rule

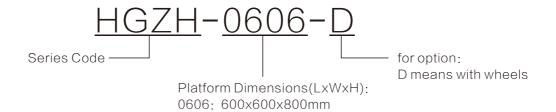


Model	Size(LxWxH) (mm)	Load (kg)	Table Top Weight (kg)	Support's Q'TY(pcs)	Support's Size(LxW) (mm)	
HGZH0606	600x600x800	<90	54	_		
HGZH0906	900x600x800	< 135	81		120x120	
HGZH1008	1000x800x800	< 200	120			
HGZH1208	1200x800x800	< 240	144			
HGZH1509	1500x900x800	<338	202			
HGZH1510	1500x1000x800	<375	210			
HGZH1512	1500x1200x800	< 390	250			
HGZH1609	1600×900×800	< 360	216	4		
HGZH1812	1800x1200x800	< 540	324	4		
HGZH1815	1800x1500x800	< 570	378	-		200×200
HGZH2010	2000x1000x800	< 500	300		200,200	
HGZH2012	2000x1200x800	< 600	360			
HGZH2412	2400×1200×800	< 720	432			
HGZH2415	2400x1500x800	< 900	540			
HGZH3010	3000×1000×800	< 750	480			
HGZH3012	3000x1200x800	< 900	576			
HGZH3015	3000×1500×800	< 1125	720			
HGZH3512	3500x1200x800	< 1050	672	6		
HGZH3515	3500x1500x800	< 1310	840	O		
HGZH4015	4000x1500x800	< 1500	960			
HGZH4215	4200x1500x800	< 1575	1008	8	200x200	
HGZH4815	4800x1500x800	< 1800	1152	Ø		
HGZH5015	5000x1500x800	< 1875	1200	40		
HGZH6015	6000x1500x800	< 2250	1440	12		

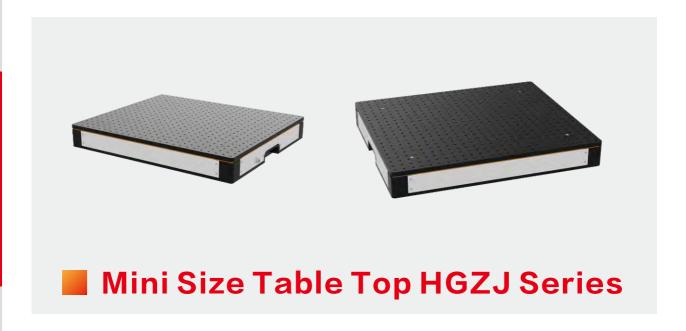


Marble optical table HGZD series adopted healthy pure marble to instead traditional steel structure table top, which is in high flatness, heavy, rigid, stable and with strong corrosion resistance, combined with precision damping rubber and horizontal adjustment bearing system, this series is in high performance of vibration isolation, and suits for experiments & production process which requires high flatness and stability.

▶ Name Rule



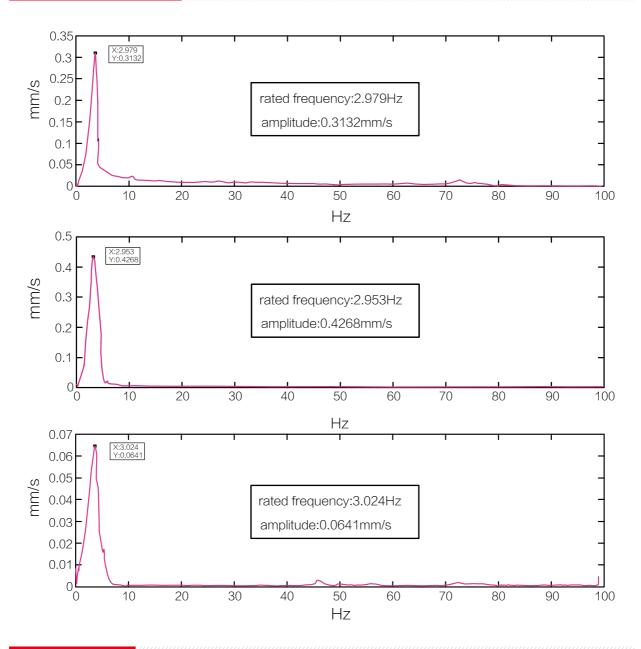
Model	Dimensions (LxWxH) (mm)	Load (kg)	Table Top Weight (kg)	Support's Q'TY(pcs)	Support's Size(LxW) (mm)
HGZD0606	600x600x800	<1102	97		120×120
HGZD0906	900x600x800	< 1054	145		
HGZD1008	1000x800x800	< 984	216		120x120
HGZD1208	1200×800×800	< 940	259		
HGZD1509	1500×900×800	< 1853	546		
HGZD1510	1500x1000x800	< 1792	607	-	
HGZD1512	1500x1200x800	< 1671	729		
HGZD1609	1600×900×800	< 1816	583	4	
HGZD1812	1800×1200×800	< 2433	1166	4	200x200
HGZD1815	1800×1500×800	<2142	1458		
HGZD2010	2000x1000x800	< 2520	1080		
HGZD2012	2000×1200×800	< 2304	1296		
HGZD2412	2400×1200×800	< 2044	1555		
HGZD2415	2400×1500×800	< 1656	1944		
HGZD3010	3000×1000×800	< 1920	1620		
HGZD3012	3000×1200×800	< 1656	1944		
HGZD3015	3000x1500x800	< 1755	3645		
HGZD3512	3500x1200x800	< 1998	3402	6	
HGZD3515	3500×1500×800	< 1147	4250	6	
HGZD4015	4000×1500×800	< 540	4846		200,200
HGZD4215	4200×1500×800	< 2097	5103	0	200x200
HGZD4815	4800×1500×800	< 1368	5832	- 8	
HGZD5015	5000×1500×800	< 4725	6075	10	
HGZD6015	6000×1500×800	< 3510	7290	12	



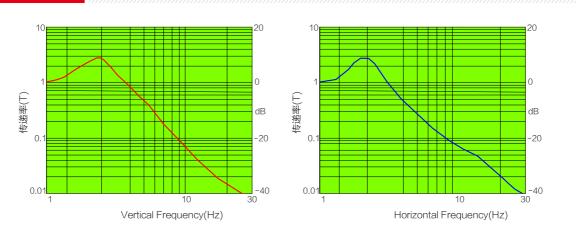
HGZJ series is auto-inflation table top, which is in mini size, thin, and very easy to install. The vibration isolation adopted thin-film high-performance air spring which can effectively eliminate vibration interference, the natural frequency can reach 2.5Hz, and the highest vibration isolation efficiency can reach more than 90%. The high-rigidity mounting surface makes the mounted instrument more stable, and it is equipped with three height-adjusting valves, which can automatically adjust the level. It is mainly used in laser test systems such as hardness testers, length measuring instruments, roundness meters, slicers, small probe stations, laser microscopes, confocal microscopes, micro-operating systems and debris clamps and other operations.

Model	HGZJ0605	HGZJ0806		
Top Material	advance aluminum alloy			
Flatness	≤0.1mm/600x600mm			
Surface	matte			
Rated Frequency	2.5Hz~3.2Hz			
Vibration Isolation Efficiency	Horizontal Frequency 5Hz: 80%, 10Hz: 90% Vertical Frequency 5Hz: 80%, 10Hz: 90%			
Vibration Isolation Method	duplex air spring			
Load	180KG			
Table Top Dimensions	630x530x60mm	830x630x60mm		
Suggest Load Size(LxW) smaller than 600x500mm smaller than		smaller than 800x600mm		

Rated Frequency



▶ Efficiency

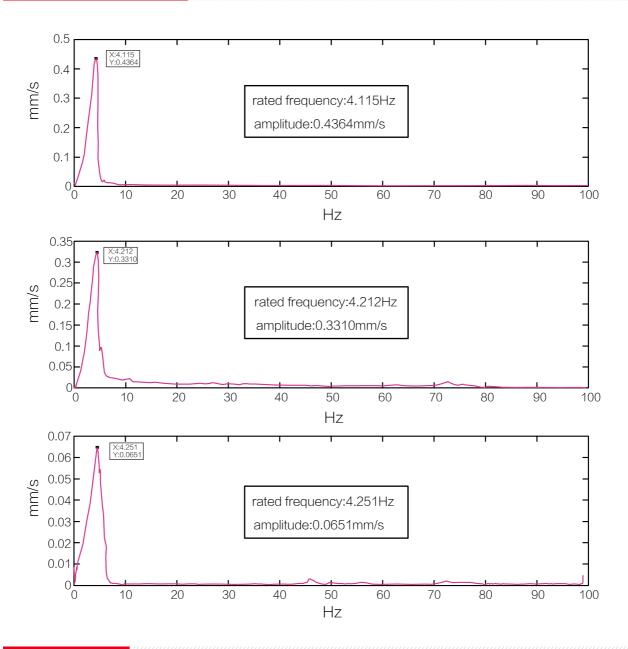




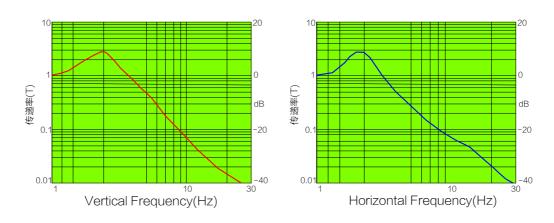
HGZV series can directly carry high-precision processing equipment, and can be embedded in the equipment to absorb high-frequency vibration, variable damping, and quickly suppress disturbance. At the same time, it has the characteristics of large static bearing capacity, low natural frequency, small loss, fast dynamic response, simple and fast installation, etc. Mainly suitable for high-precision and ultra-high-precision processing equipment (ultra-precision diamond lathe, ultra-precision grinding machine, etc.), ultra-precision measuring equipment (AFM, scanning electron microscope, profiler, etc.)

Model	Dimensions (LxWxH) (mm)	Weight (KG)	Load (KG) /unit	Mounting Holes	Pitch-row (mm)	
HGZV165	165X165X70	10	140		145	
HGZV200	200X200X70	15	450		175	
HGZV260	260X260X70	23	800	∮ 13x4	230	
HGZV350	350X350X70	42	1800		320	
HGZV400	400X400X70	53	2400		370	
Rated Frequency≤4.5Hz						
Adjustment Range5~20mm						

▶ Rated Frequency



▶ Efficiency





Pneumatic Vibration Isolator HGZG Series

Guide

HGZG series adopted the extremely durable air bag type air spring, which has a long service life, light weight, short stabilization time after excited vibration, fast response speed, high repeatable level positioning accuracy, and is equipped with a precision level height adjustment valve. Large bearing capacity, low natural frequency, low loss, fast dynamic response, easy and fast installation. The isolator can save the horizontal adjustment information and automatically adjust the horizontal for the second use. Generally 4 (or more) are used together as a set.

Model	Dimensions (LxWxH)(mm)	Install Size (LxW)(mm)	Install Hole Diameter(mm)	Rated Frequency	Weight (KG)	Load (KG)
HGZG110A	112X158.5X1 02	75X75	6.6	3Hz~5Hz	2.0	150-250

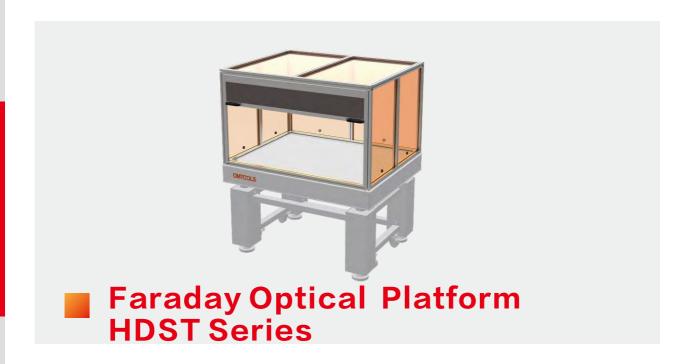


Pneumatic Vibration Isolator HGZC Series

Guide

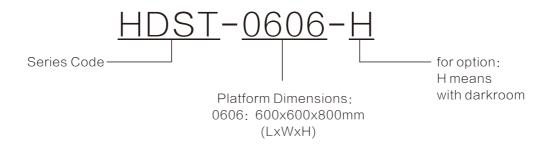
OMTOOLS HGZC series uses a highly durable air bag type air spring, which has a long service life and is light in weight, it adopts a double-layer air chamber design and is equipped with a precision level height adjustment valve. Stable vibration reduction, adjustable damping rigidity of the shock absorber, short stabilization time after excited vibration, fast response speed, high repeatable level positioning accuracy. Large bearing capacity, low natural frequency, low loss, fast dynamic response, easy and fast installation. The isolator can save the horizontal adjustment information and automatically adjust the horizontal for the second use. Generally, 4 (or more) are used together as a set.

Model	Dimensions (LxWxH)(mm)	Install Size (LxW)(mm)	Install Hole (mm)	Rated Frequency	Weight (KG)	Load (KG)
HGZC130A	130X202.5X1 14	108X108	7	3Hz~5Hz	4.1	250-350



The HDST series of optical platform, also known as Faraday cages, are designed for medical and biological science laboratories and can be customized. The frame of this series of products is directly installed on the top plate of the optical table, which can effectively isolate the interference of airflow, dust, sound, magnetic field, etc. on the experiment. The main frame is made of aluminum profile frame, transparent or dark brown color side panels and top panels. All platform can realize the function of electro-physiological.

▶ Name Rule



Model	Dimensions (LxWxH) (mm)	Load (kg)	Support's Q'TY(pcs)	Support's Size (LxW) (mm)	Cage Internal Height (mm)
HDST0606	600x600x800	<80		120×120	
HDST0906	900x600x800	< 135		1208120	
HDST1008	1000x800x800	< 200	4		800
HDST1208	1200x800x800	< 240		200×200	
HDST1509	1500x900x800	< 338			

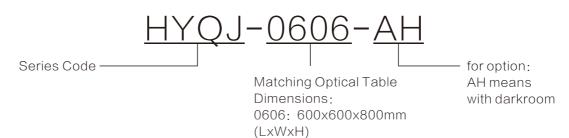


The optical shelves is a normally used platform for accessories, which is multi-function and does not affect the vibration resistance of the platform, and also provides experimental conditions such as power supply.

The standard optical shelves HYQJ-A series is welded by square steel pipes, the surface is black, electrostatic spraying, corrosion-resistant and wear-resistant, and the load is 150kg, and with load of 100kg, and with wheels could be moved freely.

Equipped with leakage protectors and multiple power sockets, equipped with steel plates, and the storage space is 660mm high.

▶ Name Rule



Model	Matching Optical Table Dimensions (LxWxH) (mm)	Note
HYQJ0606A	600x600x800	
HYQJ075075A	750×750×800	
HYQJ0906A	900x600x800	
HYQJ1007A	1000x700x800	
HYQJ1008A	1000×800×800	
HYQJ1208A	1200x800x800	
HYQJ1509A	1500x900x800	
HYQJ1510A	1500x1000x800	
HYQJ1512A	1500x1200x800	
HYQJ1609A	1600×900×800	
HYQJ1812A	1800×1200×800	
HYQJ1815A	1800×1500×800	
HYQJ2010A	2000×1000×800	With Wheels
HYQJ2012A	2000×1200×800	
HYQJ2412A	2400×1200×800	
HYQJ3010A	3000×1000×800	
HYQJ3012A	3000×1200×800	
HYQJ3015A	3000×1500×800	
HYQJ3512A	3500x1200x800	
HYQJ3515A	3500x1500x800	
HYQJ4015A	4000×1500×800	
HYQJ4215A	4200×1500×800	
HYQJ4815A	4800×1500×800	
HYQJ5015A	5000×1500×800	
HYQJ6015A	6000×1500×800	



HYQJ-B series is the shelves on top of the optical table, which is used to place various instruments and lab equipments to save space, and does not affect the vibration resistance of the platform, and also provides experimental conditions such as power supply.

The standard optical platform instrument rack HYQJ-B series frame is welded by square steel pipes, the surface is black, electrostatic spraying, corrosion-resistant and wear-resistant, and the load is 100kg.

Equipped with leakage protectors and multiple power sockets, equipped with steel plates, and the storage height is 660mm.





Model	Matching Optical Table Dimensions(LxWxH) (mm)
HYQJ0606B	600x600x800
HYQJ075075B	750x750x800
HYQJ0906B	900x600x800
HYQJ1007B	1000x700x800
HYQJ1008B	1000x800x800
HYQJ1208B	1200x800x800
HYQJ1509B	1500x900x800
HYQJ1510B	1500×1000×800
HYQJ1512B	1500x1200x800
HYQJ1609B	1600x900x800
HYQJ1812B	1800x1200x800
HYQJ1815B	1800x1500x800
HYQJ2010B	2000x1000x800

Model	Matching Optical Table Dimensions(LxWxH) (mm)
HYQJ2012B	2000×1200×800
HYQJ2412B	2400×1200×800
HYQJ3010B	3000×1000×800
HYQJ3012B	3000x1200x800
HYQJ3015B	3000×1500×800
HYQJ3512B	3500x1200x800
HYQJ3515B	3500x1500x800
HYQJ4015B	4000×1500×800
HYQJ4215B	4200×1500×800
HYQJ4815B	4800×1500×800
HYQJ5015B	5000x1500x800
HYQJ6015B	6000×1500×800

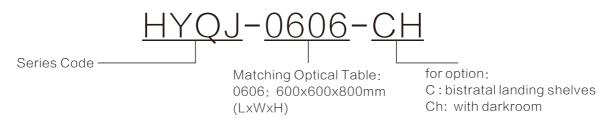


HYQJ-C bistratal landing shelves with wheels, which is used to place various instruments and lab equipments to save space, and does not affect the vibration resistance of the platform, and also provides experimental conditions such as power supply.

The standard optical platform instrument rack HYQJ-B series frame is welded by square steel pipes, the surface is black, electrostatic spraying, corrosion-resistant and wear-resistant, and with load of 150kg, and with wheels could be moved freely.

Equipped with leakage protectors and multiple power sockets, equipped with steel plates, and the storage height is 660mm.





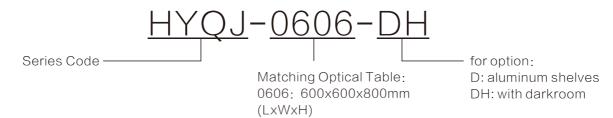
Model	Matching Optical Table (LxWxH) (mm)	Note
HYQJ0606C	600x600x800	
HYQJ075075C	750x750x800	
HYQJ0906C	900x600x800	
HYQJ1007C	1000x700x800	
HYQJ1008C	1000x800x800	
HYQJ1208C	1200×800×800	
HYQJ1509C	1500x900x800	
HYQJ1510C	1500x1000x800	
HYQJ1512C	1500x1200x800	
HYQJ1609C	1600x900x800	
HYQJ1812C	1800x1200x800	
HYQJ1815C	1800x1500x800	
HYQJ2010C	2000x1000x800	With Wheels
HYQJ2012C	2000x1200x800	
HYQJ2412C	2400x1200x800	
HYQJ3010C	3000x1000x800	
HYQJ3012C	3000x1200x800	
HYQJ3015C	3000x1500x800	
HYQJ3512C	3500x1200x800	
HYQJ3515C	3500x1500x800	
HYQJ4015C	4000x1500x800	
HYQJ4215C	4200x1500x800	
HYQJ4815C	4800x1500x800	
HYQJ5015C	5000x1500x800	
HYQJ6015C	6000x1500x800	



HYQJ-D series optical table landing shelves is made of aluminum type metal, which is used to place various instruments and lab equipments to save space, and does not affect the vibration resistance of the platform, and also provides experimental conditions such as power supply. The surface is naturally oxidized, corrosion-resistant and wear-resistant, easy to install, and with load of 100kg, and with wheels could be moved freely.

Equipped with leakage protectors and multiple power sockets, equipped with steel plates, and the storage height is 660mm.

▶ Name Rule



Model	Matching Optical Table (LxWxH) (mm)
HYQJ0606D	600x600x800
HYQJ075075D	750×750×800
HYQJ0906D	900x600x800
HYQJ1007D	1000x700x800
HYQJ1008D	1000x800x800
HYQJ1208D	1200x800x800
HYQJ1509D	1500x900x800
HYQJ1510D	1500×1000×800
HYQJ1512D	1500x1200x800
HYQJ1609D	1600x900x800
HYQJ1812D	1800x1200x800
HYQJ1815D	1800x1500x800
HYQJ2010D	2000x1000x800

Model	Matching Optical Table (LxWxH) (mm)
HYQJ2012D	2000x1200x800
HYQJ2412D	2400×1200×800
HYQJ3010D	3000x1000x800
HYQJ3012D	3000x1200x800
HYQJ3015D	3000×1500×800
HYQJ3512D	3500x1200x800
HYQJ3515D	3500×1500×800
HYQJ4015D	4000×1500×800
HYQJ4215D	4200×1500×800
HYQJ4815D	4800×1500×800
HYQJ5015D	5000×1500×800
HYQJ6015D	6000x1500x800



The desktop active vibration isolation system consists of two parts, the shock absorber and the controller. The shock absorber adopts precision metal springs to achieve passive vibration isolation, and the voice coil motor to achieve active vibration reduction. The speed sensor used for feedback control detection which adopts the product of GEOSPACE in the US, and all parts and components are enclosed in the body.

The system does not need compressed air during operation, and it is easy to install and plug and play. It can automatically adjust the foundation vibration to achieve 6 degrees of freedom vibration reduction.

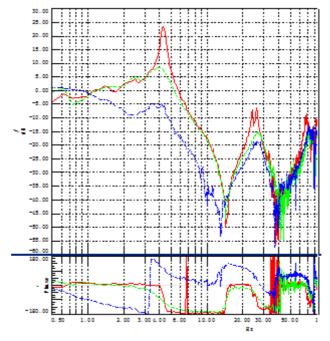
The desktop active vibration reduction system consists of a Lorentz motor, a speed sensor and a controller to form a closed-loop control system, which implements active vibration reduction within the range of 0.7Hz-50Hz. Vibrations at frequencies above 50Hz are isolated by passive metal springs. The natural frequency of the isolation spring of the shock absorber in the three translational directions is 3Hz-5Hz. Due to the implementation of feedback and feedforward control, the minimum isolation frequency of the vibration damping table can reach 0.7Hz in six degrees of freedom.

We can customize vibration damping platforms of various sizes according to user requirements. If your instruments are in irregular shape, we can design the workbench according to your requirements.

▶ Features

- © Clean room environment: purification at 10000 or above; ambient noise is less than 65dB;
- © Test tools: LMS SCADASIII data acquisition system, 32-channel input module, 2-channel output module; LMS Test.Lab data analysis system;
- © PCB type acceleration sensor; GS speed sensor (extended by low frequency);
- © Test method: Install (place) the vibration-reducing platform on the foundation. If the surface of the foundation is uneven, add ground glue. Add an appropriate amount of load on the vibration-absorbing platform.
- © Remove the four locking plates, and manually shake the vibration-isolated load to ensure that the shock absorber can work normally. Observe the Lorentz motor to ensure that there is no connection between the stator and the mover, and adjust the air gap distance reasonably.
- © Turn on the speed control loop. The foundation is randomly excited, and the vibration transmission rate in the X, Y, and Z directions is tested with a PCB type acceleration sensor.
- © LMS SCADASIII is used for data acquisition, and LMS Test.Lab is used for data analysis to determine the resonance point transmission rate and high frequency attenuation rate.

Model	Size(LxW) (mm)	Load (kg)	Transmissibility	Freedom of Degree	Min. Frequency (Hz)	Min.Frequency Transmissibility (dB)	Thrust constant (N/Amp)	Max.Power (kW)
WVIB JZX1 1000A	900X750	750–1000 see the testii curves	see the testing curves	6	0.7	<0	80	1
WVIB JZX1 1000B	900X850							
WVIB JZX1 1000C	900X880							
WVIB JZX1 1000D	900X900							



Testing Curves



This Series is a high-precision vibration isolation platform with multiple national patents. The platform consists of a honeycomb core optical table, a vibration isolator and a stand. The vibration isolator adopts precision metal springs to achieve passive vibration isolation, and the Lorentz motor to achieve active vibration reduction. The platform provides six degrees of freedom, high precision, vibration isolation with foundation feedback. Compared with the traditional active vibration reduction scheme, this system uses three speed sensors to realize the foundation feed-forward control, which can achieve the best vibration isolation effect in the 50Hz frequency range.

The system does not need to provide compressed air during operation, and it is easy to install and plug and play. It can adaptively adjust the foundation feedforward to achieve 6 degrees of freedom vibration reduction. Excellent value/price ratio.

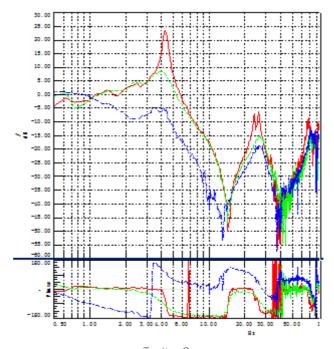
The table-type active vibration reduction table consists of a Lorentz motor, a speed sensor and a controller to form a closed-loop servo control system, which can achieve active vibration reduction within the range of 0.7Hz-50Hz. Vibrations at frequencies above 50Hz are isolated by passive metal springs. The natural frequency of the isolation spring of the damping table in the three translational directions is 3Hz-5Hz. Due to the implementation of feedback control, the minimum isolation frequency of the vibration damping table can reach 0.7Hz in six degrees of freedom.

 $Table \ top \ with \ different \ sizes \ and \ materials \ can \ be \ customized \ according \ to \ your \ requirements.$

▶ Feautres

- © Clean room environment: purification at 10000 or above; ambient noise is less than 65dB;
- © Test tools: LMS SCADASIII data acquisition system, 32-channel input module, 2-channel output module; LMS Test.Lab data analysis system;
- PCB type acceleration sensor; GS speed sensor (extended by low frequency);
- © Test method: Install (place) the vibration-reducing platform on the foundation. If the surface of the foundation is uneven, add ground glue. Add an appropriate amount of load on the vibration-absorbing platform.
- © Remove the four locking plates, and manually shake the vibration-isolated load to ensure that the shock absorber can work normally. Observe the Lorentz motor to ensure that there is no connection between the stator and the mover, and adjust the air gap distance reasonably.
- \odot Turn on the speed control loop. The foundation is randomly excited, and the vibration transmission rate in the X, Y, and Z directions is tested with a PCB type acceleration sensor.
- © LMS SCADASIII is used for data acquisition, and LMS Test.Lab is used for data analysis to determine the resonance point transmission rate and high frequency attenuation rate.

Model	Table Top Size(LxW) (mm)	Load (kg)	Transmissibility	Freedom of Degree	Min. Frequency (Hz)	Min.Frequency Transmissibility (dB)	Thrust constant (N/Amp)	Max.Power (kW)
WVIB JZX2 400A	1100X950	1 /301=400	see the testing curves	6	0.7	<0	80	1
WVIB JZX1 400B	1100X1050							
WVIB JZX1 400C	1100X1080							
WVIB JZX1 400D	1100X1100							



Testing Curves

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