

# 隔 振

## 产品及服务

Vibration Isolation Products & Services



## 公司简介

北京华卓精科科技股份有限公司由清华IC装备团队在清华大学及其下属“北京-清华工业技术研究院”和02专项的支持下创立，是一家肩负着专项重大科研成果产业化重任的高新技术企业。公司建立初衷在于将清华大学在02专项中积累的高端垄断技术落地产业化，通过“技术辐射&下行”的方式，面向国内市场提供产业界急需的高端零部件、子系统类产品。华卓精科主要从事半导体制造装备及其关键零部件研发、设计、生产、销售与技术服务。

公司注册资金8400万，成立时间为2012年5月9日，2015年8月10日，有限公司整体变更为股份有限公司。公司现有团队200人左右。

**证券代码：834733，证券简称：华卓精科。**

华卓精科面向国内外的IC制造、光学、超精密制造等行业，致力于为行业提供整机装备、核心子系统、关键零部件和定制服务，主营产品包含光刻机双工件台、**精密隔振**、超精密运动系统、关键零部件等系列化产品。



## 企业发展历程



### Year 2018

美国全资子公司在北京市发展和改革委员会备案，同年在美国完成注册；  
杭州全资子公司正式成立；  
北京经济技术开发区产业化基地开工建设，项目总投资4.9亿元，占地面积30亩。

### Year 2017

公司位于北京经济技术开发区的光刻机工件台产业化基地奠基；  
公司与杭州青山湖科技城签订“集成电路智能装备研究院项目入区框架协议”。



### Year 2016

公司荣获“中关村高新技术企业”资质；  
公司加入集成电路重点项目。

### Year 2015 — 2014

新三板挂牌；  
产品实现标准化与系列化。



华卓精科



### Year 2012

公司注册成立；  
同年入驻清华科技园、新元科技园。

# VIT

## 桌上型隔振器

Desktop Vibration Isolator

### VIT系列

是一款可靠、紧凑的高性能桌上型隔振器，注重小巧、易用、美观的同时，保证发挥最佳的隔振性能

VIT Series is a reliable and compact desktop vibration isolator of high performance, focusing on the design of small size, good look and easy to use, at the same time to optimize the vibration isolation performance.

### VIT系列特点： VIT Series Features

#### 高性能空气弹簧

High Performance Air Spring Structure

#### 固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the Vibration Isolation Efficiency up to 90% and above

#### 自动调节水平

Auto-leveling Adjustment

#### 高精度水平阀，自动调节水平，使台面轻松恢复水平状态

The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

#### 高刚性台面

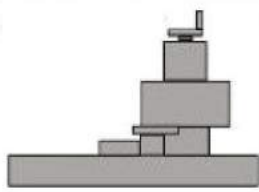
High Stiffness Plate

#### 以高刚性钢板为台面，亚光涂层表面，避免反射光对光学实验的影响

The high-stiffness steel plate with matt-coating surface to avoid the influence from catoptric light on optical experiment.



**应用领域：**  
Application



表面粗糙度仪  
Roughness Testers



显微镜  
Microscope

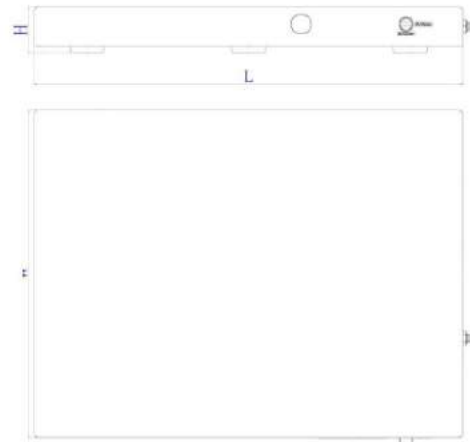
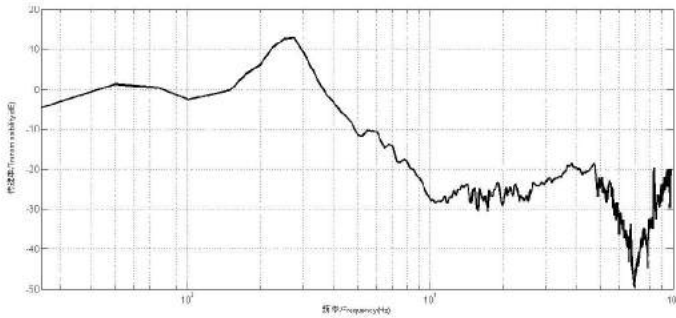
硬度仪、粗糙度仪、测长仪、圆度仪、切片机、  
小型探针台等

Hardness Testers, Roughness Testers, Dimension Measuring Equipment, Roundness Testers, Slicing Machine, Small-sized Probe Station, etc.

激光试验系统、激光显微镜、共聚焦显微镜、  
微操作系统和碎片夹钳等

Laser Experiments, Laser Microscope, Confocal Microscope, Micro-operation System and Debris Clamps, etc.

**性能曲线及规格：**  
Transmissibility and Specification



**VIT系列技术参数：**  
VIT Ordering Information

产品类型 / Product Type	VIT-0504	VIT-0605	VIT-0806
固有频率 / Nature Frequency	2.5~2.7 Hz	2.5~2.7 Hz	2.5~2.7Hz
承载能力 / Max. Payload Capacity (kg)	<80	<80	<80
建议承载尺寸 / Suggested Loading Size (mm)	500×400	600×500	800×600
外形尺寸 / Desktop Dimension (mm) (L×W×H)	530×430×60	630×530×60	830×630×60
隔振原理 / Vibration Isolation Mechanism	双腔室空气弹簧 / Two-chamber Air Spring		
水平维持方式 / Leveling Method	自动调节水平 / Auto Leveling by 3 Height Control Valves		
随配附件 / Accessories for Free	Φ6mm软管3m +过滤调压阀1个 / φ6 PU Air Tube 3m, 1 Filter Regulator		

\* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
According to special requires, we are pleased to provide customized solutions.
- 产品信息将持续更新，恕不另行通知；最新动态请关注网站。  
We will keep optimizing product specifications, for the latest information, please go to our website.

# VIT-H

桌上型隔振器  
Desktop Vibration Isolator

## VIT-H系列

是一款表面带阵列螺纹孔的桌上型隔振器，集紧凑、简约、高性能、易用性于一体

VIT-H Series is a desktop vibration isolator with tapped holes array surface, combining the features of small size, good look and easy to use together.

### VIT-H系列特点： VIT-H Series Features

高性能空气弹簧 - High Performance Air Spring Structure

固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the Vibration Isolation Efficiency up to 90% and above.

自动调节水平 - Auto-leveling Adjustment

高精度水平阀，自动调节水平，使台面轻松回复水平状态

The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

阵列螺纹孔台面 - Tapped Holes Array Surface

以优质铝合金板为台面，亚光涂层表面，避免反射光对光学实验的影响，同时具有M6阵列螺纹孔，易于安装仪器设备

The superior aluminum alloy plate with matt-coating surface to avoid the influence from catoptric light on optical experiment; meanwhile the M6 tapped holes make the installation easier.

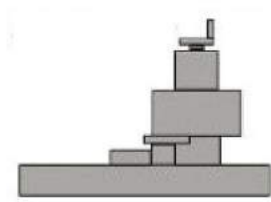
“软锁” - “Soft Lock”

在调试、移动负载时，启动软锁，可以显著降低回复水平时的摆动时间

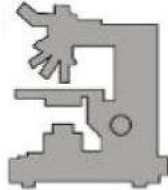
Once adjust or move the load on the isolator, the blue-colored “Soft Lock” is started, to short the swing time of recovering to level state.



## 应用领域： Application



表面粗糙度仪  
Roughness Testers



显微镜  
Microscope

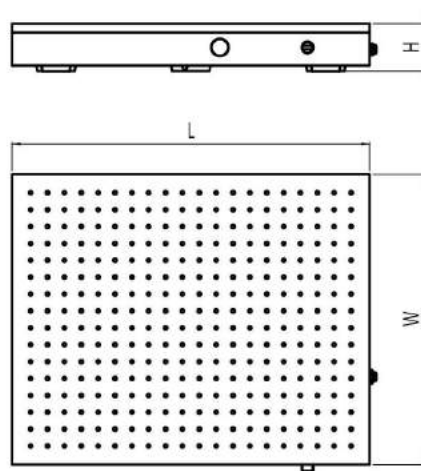
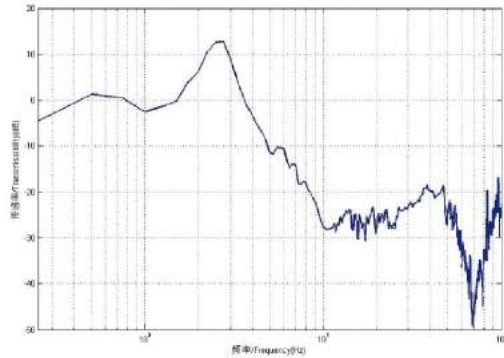
硬度仪、粗糙度仪、测长仪、圆度仪、切片机、  
小型探针台等

Hardness Testers, Roughness Testers, Dimension Measuring Equipment, Roundness Testers, Slicing Machine, Small-sized Probe Station, etc.

激光试验系统、激光显微镜、共聚焦显微镜、  
微操作系统和碎片夹钳等

Laser Experiments, Laser Microscope, Confocal Microscope, Micro-operation System and Debris Clamps, etc.

## 性能曲线及规格： Transmissibility and Specification



## VIT系列技术参数： VIT Ordering Information

产品类型 / Product Type	VIT-0504H	VIT-0605H	VIT-0806H
固有频率 / Nature Frequency	2.5~2.7 Hz	2.5~2.7 Hz	2.5~2.7Hz
承载能力 / Max Payload Capacity (kg)	<80	<80	<80
建议承载尺寸 / Suggested Loading Size (mm)	500×400	600×500	800×600
外形尺寸 / Desktop Dimension (mm) (L×W×H)	530×430×73	630×530×73	830×630×73
隔振原理 / Vibration Isolation Mechanism	双腔室空气弹簧 / Two-chamber Air Spring		
水平维持方式 / Leveling Method	自动调节水平 / Auto Leveling by 3 Height Control Valves		
随配附件 / Accessories for Free	Φ6mm软管3m + 过滤调压阀1个 / φ6 PU Air Tube 3m , 1 Filter Regulator		

\* Note:

- 1、若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 2、如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
According to special requires, we are pleased to provide customized solutions.
- 3、产品信息将持续更新，恕不另行通知；最新动态请关注网站。  
We will keep optimizing product specifications, for the latest information, please go to our website.

# VIT-N

桌上型隔振器  
Desktop Vibration Isolator

## VIT-N系列

是一款手动充气的桌上型隔振器，集紧凑、简约、高性能、易用性等于一体，省掉了压缩机的烦恼

VIT-N Series is a manual filling desktop vibration isolator, integrated the merits of compactness, conciseness, high performance and easy to use, avoiding the trouble of using compressor.

### VIT系列特点：

VIT Series Features

高性能空气弹簧 - High Performance Air Spring Structure

固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the Vibration Isolation Efficiency up to 90% and above

无需气源 - No Air Source Needed

用户充气1次，即可保证1~2周内不需供给空气，就能使其发挥优异的隔振功能

Once air is supplied, even 1-2 weeks after no air supply, also can assure the isolator excellent vibration isolation function.

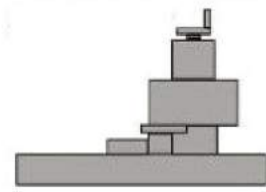
高刚性台面 - High Stiffness Plate

以高刚性钢板为台面，亚光涂层表面，避免反射光对光学实验的影响

The high-stiffness steel plate with matt-coating surface to avoid the influence from catoptric light on optical experiment.



## 应用领域： Application



表面粗糙度仪  
Roughness Testers



显微镜  
Microscope

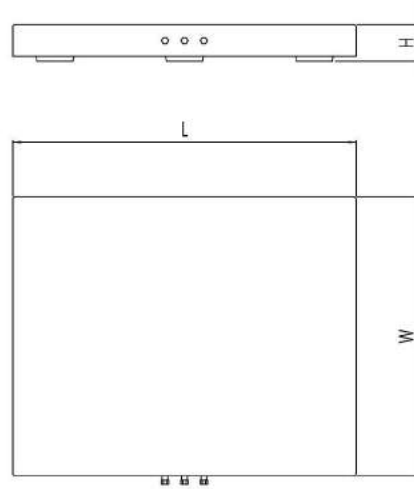
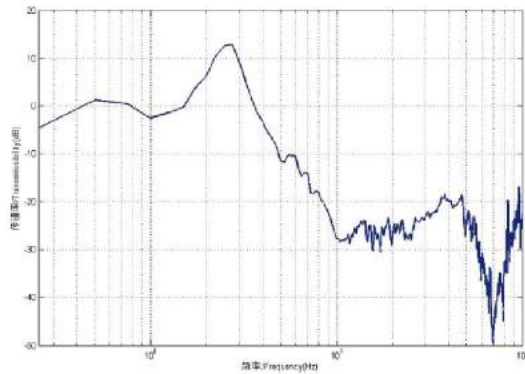
硬度仪、粗糙度仪、测长仪、圆度仪、切片机、  
小型探针台等

Hardness Testers, Roughness Testers, Dimension Measuring  
Equipment, Roundness Testers, Slicing Machine, Small-sized  
Probe Station, etc.

激光试验系统、激光显微镜、共聚焦显微镜、  
微操作系统和碎片夹钳等

Laser Experiments, Laser Microscope, Confocal Microscope,  
Micro-operation System and Debris Clamps, etc.

## 性能曲线及规格： Transmissibility and Specification



## VIT系列技术参数： VIT Ordering Information

产品类型 / Product Type	VIT-0504N	VIT-0605N	VIT-0806N
固有频率 / Nature Frequency	2.5~2.7 Hz	2.5~2.7 Hz	2.5~2.7 Hz
承载能力 / Max Payload Capacity (kg)	<80	<80	<80
建议承载尺寸 / Suggested Loading Size (mm)	500×400	600×500	800×600
水平维持方式 / Leveling Method	手动调节水平 / Manual Leveling		
外形尺寸 / Desktop Dimension (mm) (L×W×H)	530×430×60	630×530×60	830×630×60
隔振原理 / Vibration Isolation Mechanism	双腔室空气弹簧 / Two-chamber Air Spring		
随配附件 / Accessories for Free	手动充气筒1个 / 1 Manual Pump		

\* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
According to special requires, we are pleased to provide customized solutions.
- 产品信息将持续更新，恕不另行通知；最新动态请关注网站。  
We will keep optimizing product specifications, for the latest information, please go to our website.

# VIW-A

## 光学平台

Honeycomb Optical Table

### VIW-A系列

是一款表面带阵列螺纹孔的台桌型隔振平台，集成橡胶组件，具有一定隔振效果。

VIW-A Series is a table-type vibration isolation table with tapped holes array surface, the integrated rubber components themselves take on a certain extent of vi-isolation effect.

#### VIW-A系列特点：

##### VIW-A Series Features

##### 隔振系统 - Vibration Isolation System

高分子复合橡胶垫具有抑制高频振动的隔振能力

The polymer composite rubber mat is able to refrain the high frequency vibration.

##### 调节水平功能 - Leveling Function

独特的水平调节机构，轻松实现水平调节

The unique leveling structure to realize leveling adjustment lightly.

##### 限位保护 - "Bow- shape" Protection

独特的弓形限位保护装置，确保平台移动或工作中安全

The unique "bow-shape" design protects the table from being damaged when working or moved.

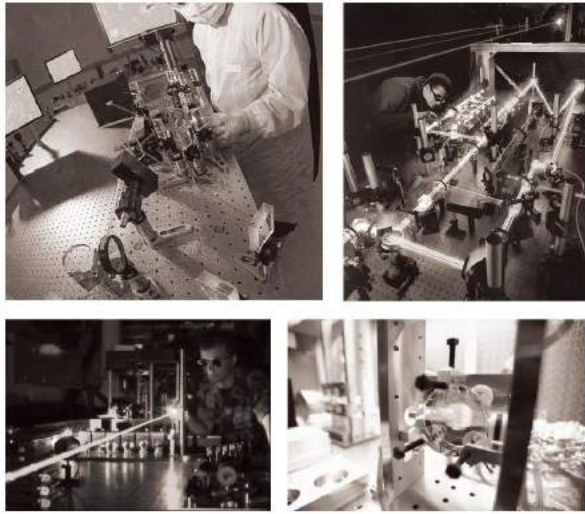
##### 阵列螺纹孔台面 - Tapped Holes Array Surface

采用高刚度钢制芯夹板结构，亚光涂层表面，避免反射光对光学实验的影响，同时具有M6阵列螺纹孔，易于安装仪器设备

The high stiffness steel plate structure is employed and matt-coated surface is used to avoid the influence from catoptric light on optical experiment; meanwhile the M6 tapped holes make the installation easier.

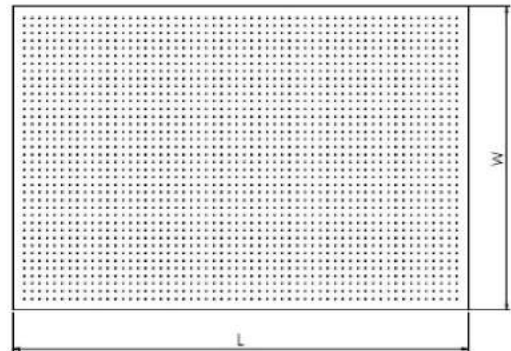
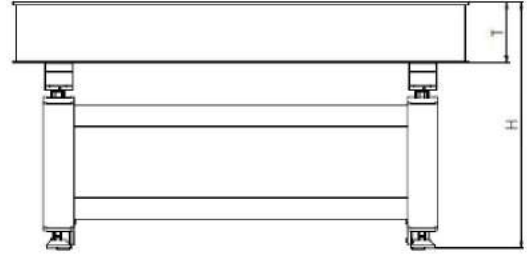


**应用范围：**  
Application



电生理 / Electrophysiology  
 光通信 / Optical Communication  
 光谱实验 / Spectrum Experiment  
 激光干涉 / Laser Interference  
 全息应用 / Optical Holographic Application  
 激光微细加工 / Laser Micro Machining  
 精密计量仪器 / Precision Measuring Instrument

**外形尺寸图：**  
Dimension



**VIW-A系列技术参数：**  
VIW-A Ordering Information

产品类型 / Product Type	075-075	09-06	12-08	15-10	18-10	18-12	20-10
隔振方式 / Vibration Isolation Method	高分子复合橡胶材料 / Polymer Composite Rubber Materials						
台面尺寸 / Board Dimension (mm) (L×W)	750×750	900×600	1200×800	1500×1000	1800×1000	1800×1200	2000×1000
台板厚度 / Board Thickness	100			200			
台板材质 / Board Material	上层板4.0~5.0mm导磁不锈钢 底板4.0mm厚钢板 喷塑处理 top plate 4.0~5.0mm magnetizer stainless steel, bottom plate 4.0mm steel plate with powder coat						
高度 / Table Height (mm)	800						
均匀承载 / Payload (Kg)	300 ~ 1200						

\* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
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# VIW-B

## 精密型隔振平台

Precision Vibration Isolation Table

### VIW-B系列

是一款通用性隔振平台，能够满足精密仪器对振动隔离需求

VIW-B Series is a versatile vibration isolation table which is able to fulfill the requirement of precision instrument on vibration isolation.

#### VIW-B系列特点：

VIW-B Series Features

##### 高性能空气弹簧

High Performance Air Spring Structure

固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the vibration isolation Efficiency up to 90% and above.

标配可调阻尼系统，轻松实现刚度调节

Equipped with adjustable damping system to realize rigid adjustment easily.

##### 自动调节水平

Auto-leveling Adjustment

高精度水平阀，自动调节水平，使台面轻松恢复水平状态

The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

##### 限位保护 - "Bow- shape" Protection

独特的弓形限位保护装置，确保平台移动或工作中安全

The unique "bow-shape" design protects the table from being damaged when working or moved.

##### 阵列螺纹孔台面 - Tapped Holes Array Surface

采用高刚度钢制芯夹板结构，亚光涂层表面，避免反射光对光学实验的影响，同时具有M6阵列螺纹孔，易于安装仪器设备

The high stiffness steel plate structure is employed and matt-coated surface is used to avoid the influence from catoptric light on optical experiment; meanwhile the M6 tapped holes make the installation easier.



**应用范围：**  
Application

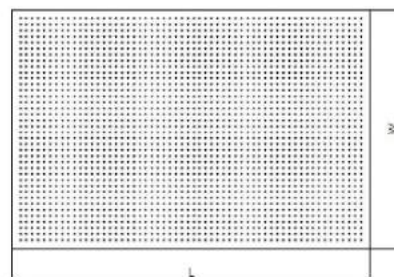
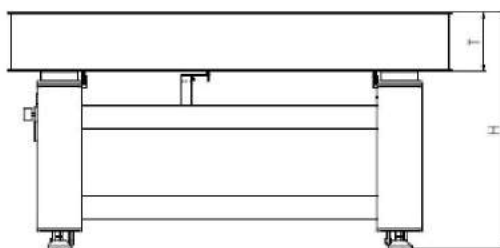


电生理 / Electrophysiology  
光通信 / Optical Communication  
光谱实验 / Spectrum Experiment  
激光干涉 / Laser Interference  
全息应用 / Optical Holographic Application  
激光微细加工 / Laser Micro Machining  
精密计量仪器 / Precision Measuring Instrument

适用范围非常广泛，对振动敏感的仪器或实验场所都可以应用到。

This table is widely used, like in the labs or the instruments which are sensitive to the vibration.

**外形尺寸图：**  
Dimension



**VIW-B系列技术参数：**  
VIW-B Ordering Information

产品类型 / Product Type	075-075	09-06	12-08	15-10	18-10	18-12	20-10
固有频率 / Natural Frequency	1.2 ~ 2.0 Hz						
隔振方式 / Vibration Isolation Method	双腔室空气弹簧 / Two-chamber Air Spring						
隔振来源 / Vibration Isolation Source	阻尼孔 / Damping Hole						
水平维持方式 / Leveling Method	高精度阀门自动维持水平 / High-precision Valve Auto-leveling						
台面尺寸 / Board Dimension (mm) (L×W)	750×750	900×600	1200×800	1500×1000	1800×1000	1800×1200	2000×1000
台板厚度 / Board Thickness (mm)	100			200			
台板材质 / Board Material	上层板4.0~5.0mm导磁不锈钢 底板4.0mm厚钢板 喷塑处理 top plate 4.0~5.0mm magnetizer stainless steel, bottom plate 4.0mm steel plate with plastic coat						
高度 / Height (mm)	800						
均匀承载 / Payload (Kg)	300						
供给压力 / Supply Pressure (MPa)	0.35 ~ 0.60 (安装有自带过滤器的减压阀 / installed with filter built in the reducing valve)						

\* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
According to special requires, we are pleased to provide customized solutions.
- 产品信息将持续更新，恕不另行通知；最新动态请关注网站。  
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# VIW-C

## 台桌型隔振平台

Table-type Vibration Isolation Table

### VIW-C系列

是一款集垂向和水平于一体的3自由度高性能隔振平台。

VIW-C Series is a high performance table with vertical and horizontal vibration isolation structure.

#### VIW-C 系列特点： VIW-C Series Features

高性能空气弹簧 —  
High Performance Air Spring Structure

固有频率可达2.5Hz，最高隔振效率达90%以上  
Natural Frequency up to 2.5Hz, the Vibration Isolation Efficiency up to 90% and above

标配可调阻尼系统，轻松实现刚度调节  
Equipped with adjustable damping system to realize rigid adjustment easily.

高性能水平隔振机构 —  
High Performance Vibration Isolation Structure in Horizontal Direction

固有频率可达1.2Hz，最高隔振效率达90%以上  
Natural Frequency up to 1.2Hz, the Vibration Isolation Efficiency up to 90% and above

自动调节水平 —  
Auto-levelling Adjustment

高精度水平阀，自动调节水平，使台面轻松回复水平状态  
The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

防护栏 —  
Guard Railing

有效避免操作者对系统带来的外力振动困扰  
To avoid the disturbance caused by external factor on vibration isolation system during operation.

模块化组件 —  
Modularized Components

满足多种需求的选购组件  
It is available for us to meet your requirements on components.



## 选购组件： Optional Accessory

袖板 (L & R) / Side Shelves	宽度250mm，可以用于安装精密仪器附件，能够将平台的工作空间向左或向右扩展 / Width 250mm (customizable), used for extending space toward left and right, via placing parts of installed instrument on L & R.
上面袖板 (UL & UR) / Upper Side Shelves	有效利用位于台面上部表面的空间，宽度为250mm的空间，可以扩展 / Width 250mm (customizable), for fully using the table's surface space.
棚板 (P) / Shelf Board	有效利用可隔振装置的下部空间 / Take advantage of the Table's under space.
格式键盘托架及显示器支架 (KS & MS) / Keyboard & Monitor Supporter	计算机应用扩展功能 / Support keyboard and computer monitor.
法拉第屏蔽网 (FC) / Faraday Shielding Net	使内部工作环境不受外部电场影响，也不对外部电场产生影响 / Electromagnetic shielding, protect the internal environment from being impacted by external electric & magnetic field, and vice versa.
防护罩 (SC) / Shielding Coat	防止气流、灰尘及切屑、有害光线等进入，减少外界对精密仪器或实验时的影响，保持仪器的精密度 / Prevent the external factors like airflow, dust, cutting ash and harmful rays access to the working environment, so as to keep the instrument's accuracy.

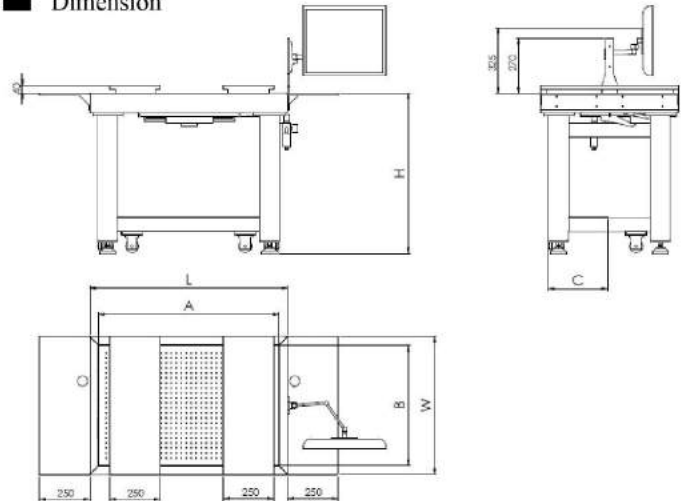
## 应用范围： Application

激光显微镜 / Laser Microscope  
 共聚焦显微镜 / Confocal Microscope  
 微操作系统和碎片夹钳 /  
 Micro-operation System and Debris Clamps  
 电生理实验 / Electrophysiological Experiments  
 精密计量仪器 / Precision Measuring Instrument

适用范围非常广泛，对振动敏感的仪器或  
 实验场所都可以应用到。

This table is widely used, like in the labs or the instruments  
 which are sensitive to the vibration.

## 外形尺寸图： Dimension



## VIW-C 系列技术参数： VIW-C Ordering Information

产品类型 / Product Type	0906	1007	1208
固有频率 / Natural Frequency (Hz)	垂直 / Vertical:1.2 ~ 2.0		水平 / Horizontal:0.75 ~ 1.0
隔振方式 / Vibration Isolation Method	双腔室空气弹簧 / Two-chamber Air Spring		
隔振来源 / Vibration Isolation Source	阻尼孔 / Damping Hole		
水平维持方式 / Leveling Method	高精度阀门自动维持水平 / Auto Leveling by 3 Height Control Valves		
台面材质 / Material of Platform	钢质蜂窝夹层：导磁不锈钢 / Steel Honey Comb:Top Plate Sus304		
台面尺寸 / Platform Dimension (mm)	900x600	1000x700	1200x800
整体尺寸 / Dimensions (mm) (L×W×H)	990x690x750	1090x790x750	1290x890x750
均匀承载 / Uniform Payload (Kg)	280		
供给空气压力 / Supply Pressure (MPa)	0.35-0.60 (安装有自带过滤器的减压阀 / Equipped with Filter Regulators)		

### \* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
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# VIW-M

## 小型台桌隔振平台

Mini Table-type Vibration Isolation Table

### VIW-M系列

是一款可靠、小巧易用的高性能隔振平台

VIW-M Series is a high performance vibration isolation table of reliable, low-profile and easy to use.

#### VIW-M系列特点： VIW-M Series Features

##### 高性能空气弹簧

High Performance Air Spring Structure

##### 固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the Vi-isolation Efficiency up to 90% and above

##### 自动调节水平

Auto-leveling Adjustment

##### 高精度水平阀，自动调节水平，使台面轻松恢复水平状态

The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

##### 限位保护

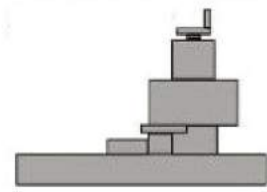
"Bow-shape" Protection

##### 独特的弓形限位保护装置，确保平台移动或工作中安全

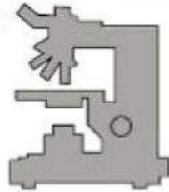
The unique "bow-shape" design protects the table from being damaged when working or moved.



**应用领域：**  
Application



表面粗糙度仪  
Roughness Testers



显微镜  
Microscope

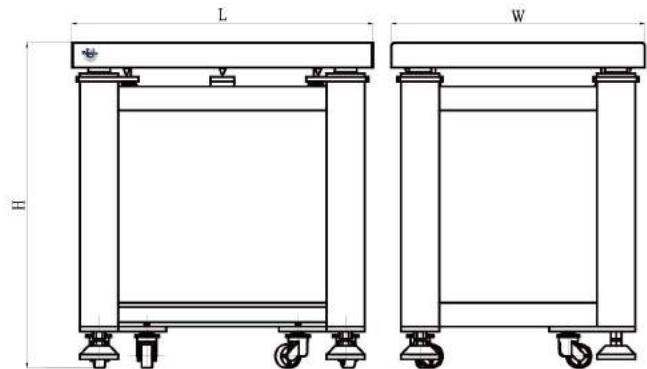
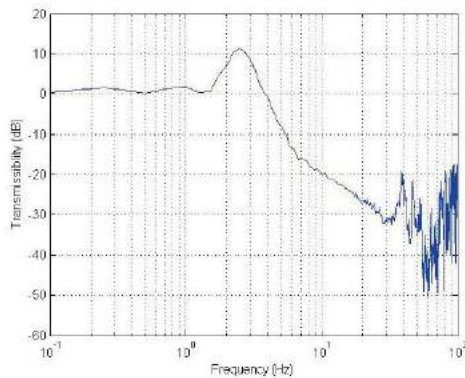
硬度仪、粗糙度仪、测长仪、圆度仪、切片机、  
小型探针台等

Hardness Testers, Roughness Testers, Dimension Measuring Equipment, Roundness Testers, Slicing Machine, Small-sized Probe Station, etc.

激光试验系统、激光显微镜、共聚焦显微镜、  
微操作系统和碎片夹钳等

Laser Experiments, Laser Microscope, Confocal Microscope, Micro-operation System and Debris Clamps, etc.

**性能曲线及规格：**  
Transmissibility and Specification



**VIW-M系列技术参数：**  
VIW-M Ordering Information

产品类型 / Product Type	0605	0806
固有频率 / Nature Frequency	2.5~2.7 Hz	2.5~2.7Hz
承载能力 / Max Payload Capacity (kg)	200	200
建议承载尺寸 / Desktop Dimension (mm)	600×500	800×600
外形尺寸 / Dimension (mm) (L×W×H)	630×530×650	830×630×650
隔振原理 / Vibration Isolation Mechanism	双腔室空气弹簧 / Two-chamber Air Spring	
水平维持方式 / Leveling Method	自动调节水平 / Auto Leveling by 3 Height Control Valves	
随配附件 / Accessories for Free	Φ6mm软管3m +过滤调压阀1个 / φ6 PU Air Tube 3m , 1 Filter Regulator	

\* Note:

- 1、若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 2、如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
According to special requires, we are pleased to provide customized solutions.
- 3、产品信息将持续更新，恕不另行通知；最新动态请关注网站。  
We will keep optimizing product specifications, for the latest information, please go to our website.

### VIU系列

是一款面向大负载的独立型隔振器，可方便集成到设备中，降低地面振动和运动负载对设备精度的影响

VIU Series is an unit vibration isolator for large payload which is convenient to be integrated into equipments to reduce the influence of vibration isolation from ground and moving load on the isolator.

#### VIU系列特点： VIU Series Features

##### 高性能空气弹簧

High Performance Air Spring

##### 固有频率可达2.5Hz，最高隔振效率达90%以上

Natural Frequency up to 2.5Hz, the Vibration Isolation Efficiency up to 90% and above

##### 自动调节水平

Auto-leveling Adjustment

##### 高精度水平阀，自动调节水平，使台面轻松恢复水平状态

The high-precision level valve to realize auto-leveling, makes the isolator recover to level easily.

##### 宽泛的负载能力

Wide Range of Loading Capability

##### 承载能力从数百公斤到数吨

Loading range from hundreds of kgs to tons



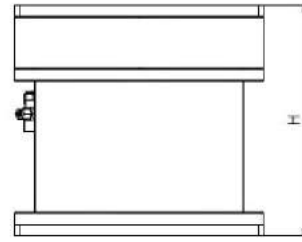
## 应用范围： Application

超精密运动系统、精密测量仪、三坐标测量系统、测量设备组  
Precision Motion Control System, Precision Measuring Instrument, CMM Measuring System and Measuring Equipment Group

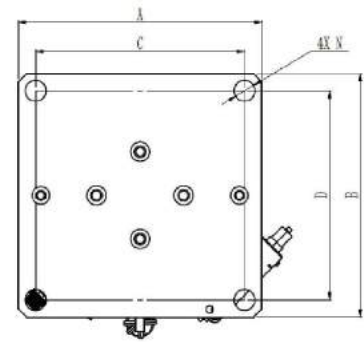
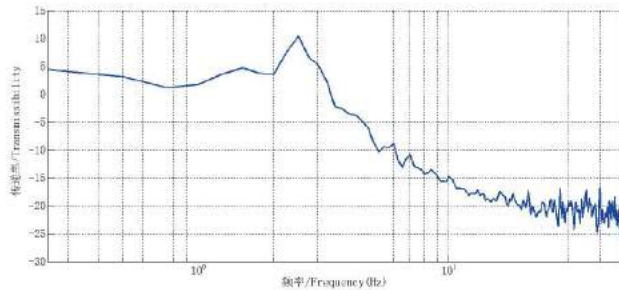
半导体制造检测设备、裂变产物探测装备检查设备、同位检测仪器  
Testing Equipment of Semiconductor Manufacture, Detecting Equipment of Fission Products, Isotope Detector

显微设备、激光设备、LED（切割）加工设备等  
Microscopic Equipment, Laser Equipment, LED Processing Equipment, etc.

## 外形尺寸图： Dimensions



## 振动传递率： Transmissibility



## VIU系列技术参数： VIU Ordering Information

产品类型 / Product Type	VIU-20	VIU-40	VIU-80	VIU-100	VIU-120	VIU-140	VIU-160	VIU-180	VIU-200	
固有频率 / Natural Frequency (Hz)	2.5 ~ 3.0									
隔振方式 / Vibration Isolation Method	双腔室空气弹簧 / Two-chamber Air Spring									
隔振来源 / Vibration Isolation Source	可调阻尼孔 / Adjustable Damping Hole									
水平维持方式 / Leveling Method	高精度阀门自动维持水平 / High-precision Valve Auto-leveling									
外形尺寸 / Dimension (mm)	尺寸图 / Dimension Figure									
	A	110	115	120	140	164	195	250		
	B	110	115	120	140	164	195	250		
	C	95	95	100	120	140	160	220		
	D	90	95	100	120	140	160	220		
	H	185								
单体最大承载 / Unit Max Payload (Kg)	60	120	180	310	700	1170	2030	4500	10800	
供给压力 / Supply Pressure (MPa)	0.35 - 0.6 ( 压缩空气或氮气 / Compressed Air and Nitrogen )									

### \* Note:

- 若超出工作压力范围或负载重量及重心发生明显偏移，可能影响仪器隔振性能。  
If the weight is out of the range or the gravity center shifts, the normal performance will be affected.
- 如负载超出范围或有特殊设计要求，请与我们联系，提供订制服务。  
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# VAT

桌上型主动隔振器  
Active Desktop Vibration Isolator

## VAT系列

是一款高性能桌上型主动隔振器

VAT Series is an active desktop vibration isolator of high performance.

### VAT系列特点： VAT Series Features

#### 高性能3DOF隔振 - 3DOF Vibration Isolation Capability

具有垂向和水平3DOF的低频隔振能力，起始隔振达到1Hz，10Hz达到90%以上的隔振效率，隔振带宽达到100Hz

The isolator has the capability of 3DOF low frequency vibration isolation in vertical and horizontal directions, it starts to isolate at 1Hz; when reaches 10Hz, the vibration isolation efficiency up to 90% and above, vibration isolation bandwidth up to 100Hz.

#### 自适应调节 - Auto-adaptive Adjustment

垂向和水平都是具有解耦的结构设计，使产品具有从空载到额定负载的自适应调节

The decoupling structure in both vertical and horizontal directions enables the isolator an auto-adaptive adjustment function from non-load to a rated payload.

#### 高效实时控制 - High Efficient Real-time Control

32位控制器，信号采样速率达到5kHz，结合前馈、反馈的特有控制算法，实现高效的实时控制

The 32 bit controller and the signals from the sensors will be sampled at the rate of 5kHz, combining the unique control algorithm of feed-forward and feedback to realize efficient real-time control.



## 应用领域：

Application

扫描探针显微镜(AFM/STM)  
Scanning Probe Microscope(AFM/STM)

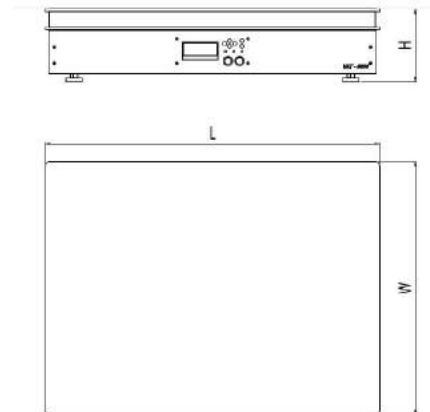
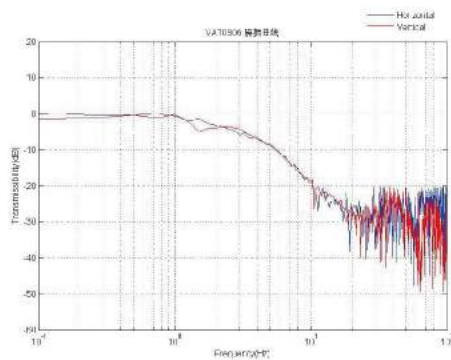
三维形貌分析仪(轮廓仪,台阶仪)  
Three Dimensional Morphology Analyzer  
(Contourgraph, Atomic-Profiler)

激光共聚焦显微镜  
Laser Scanning Confocal Microscope

激光微细加工及精密加工机床  
Laser Fine Machining and Precision Instrument  
Processing Machine Tool

## 性能曲线及规格：

Transmissibility and Specification



## VAT系列技术参数：

VAT Ordering Information

产品类型 / Product Type	VAT-0605	VAT-0806	VAT-1007
水平维持方式 / Leveling Method	自动调节水平 / Auto Leveling by 3 Height Control Valves		
外形尺寸 / Dimension (L×W)	600×500	800×600	1000×700
隔振性能 / Isolation Performance	> 10Hz = 20dB (90%)		
主动带宽 / Active Bandwidth	1.0 - 100Hz		
最大承载能力 / MAX Payload (Kg)	150		
供气 / Air Supply (MPa)	0.35~0.6		
电源供电 / Voltage Supply (V)	220		

\* Note:

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### SAV系列

SAV主动隔振系统，是面向承载中型大型精密设备的微振动主动隔振系统。可以对所承载的精密设备进行6自由度主动隔振。具有世界一流水平的微振动主动隔振性能。是精密光学观测、超精密加工、半导体先进设备等先进制造中必须的隔振系统。并且具有设置方便、操作便利等优良特性。

SAV Active Vibration Isolation System is an active micro-vibration isolation system for medium to large scale precision equipment with the capacity of providing 6 degrees of freedom active vibration isolation for the precision equipment carrying it. With world-class performance for micro-vibration isolation, it is an indispensable isolation system for the manufacture of precision optical observation, ultra-precision machining, advanced semiconductor equipment and other advanced manufacturing. Besides, it carries excellent features for easy set-up and easy operation.

#### SAV系列特点：

##### SAV Series Features

##### 高性能3DOF隔振 - 3DOF Vibration Isolation Capability

具有垂向和水平3DOF的低频隔振能力，起始隔振达到1Hz，10Hz达到90%以上的隔振效率，隔振带宽达到100Hz

The isolator has the capability of 3DOF low frequency vibration isolation in both vertical and horizontal directions. It starts isolation at 1Hz and reaches 90% effectiveness when it hits 10Hz, with a bandwidth of 100Hz.

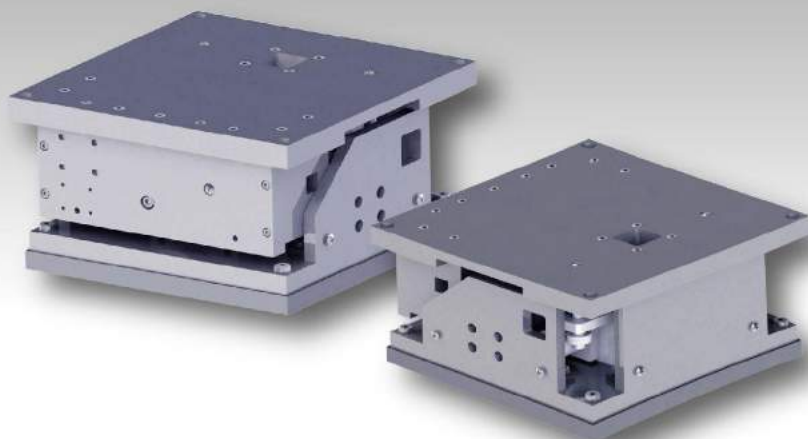
##### 自适应调节 - Auto-adaptive Adjustment

垂向和水平都是具有解耦的结构设计，使产品具有从空载到额定负载的自适应调节

The decoupling structure in both vertical and horizontal directions enables the isolator an auto-adaptive adjustment function from non-load to a rated payload.

##### 设置方便、使用便利 -

The setting of this active vibration isolation system is very easy, and the operating is also very convenience.



## 应用领域：

Application

扫描探针显微镜(AFM/STM)  
Scanning Probe Microscope(AFM/STM)

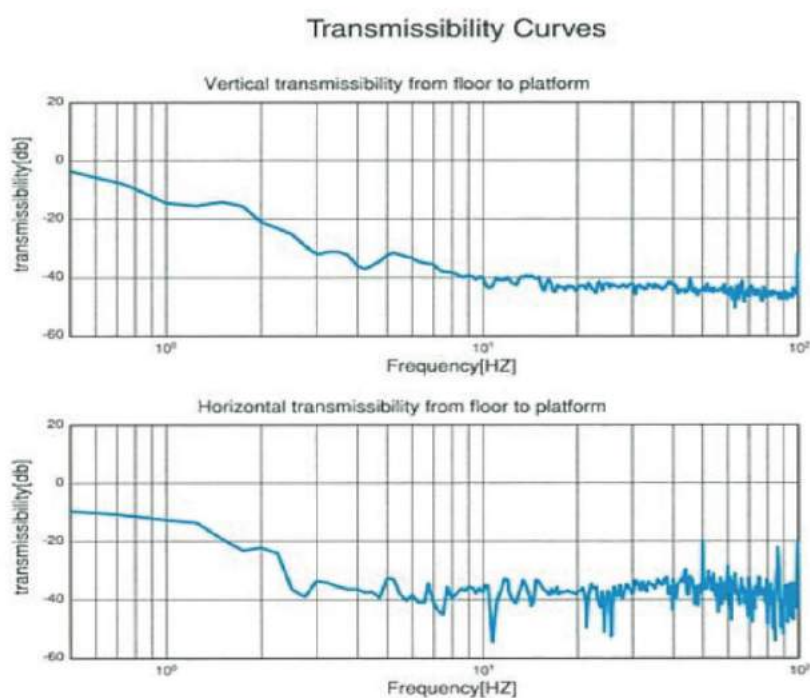
三维形貌分析仪(轮廓仪,台阶仪)  
Three Dimensional Morphology Analyzer  
(Contourgraph, Atomic-Profiler)

激光共聚焦显微镜  
Laser Scanning Confocal Microscope

激光微细加工及精密加工机床  
Laser Fine Machining and Precision Instrument  
Processing Machine Tool

## 性能曲线及规格：

Transmissibility and Specification



## VAT系列技术参数：

VAT Ordering Information

型号	SAV-008	SAV-016	SAV-033	SAV-065	SAV-130	SAV-240
可承载的重量[KN] ((kgf))	4-8 ( 400-800 )	8-16 ( 800-1600 )	16-33 ( 1600-3400 )	33-65 ( 3400-6600 )	65-130 ( 6600-13300 )	130-240 ( 13300-24500 )
机体尺寸W×D×H	235×235×130	290×290×140	350×350×150	450×450×190	600×480×190	700×600×267
1个组装体的机体重量[kg]	13	42	63	110	180	230
供给空气压[MPa]	0.6 - 0.8					
稳态空气压销量[L/min]				120-170		
最大空气压销量[L/min]				130		
电源电压(V)	200-240 ( AV,50/60Hz )					
额定消费电力 ( W )	400			450		
定位精度[mm]	0.001-0.050					
控制轴数量	≤6					



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