

DVIA-MO系列主动隔振平台 (进口)



说明:

DVIA-MO 系列高精度主动隔振平台为韩国 DAEIL (大一) 株式会社生产的主动隔振平台, 由台面和主动隔振支撑两部分组成。

台面采用真蜂窝三层夹心式结构, 上台面为热形变系数很小的 430 系列高导磁镍合金不锈钢, 台面按照 25mmX25mm 孔距均布 M6 螺纹孔, 方便安装仪器, 每个螺纹孔下方具有独立的隔离杯, 方便清洁。中间是真蜂窝支撑结构, 是把 0.25 毫米厚度的钢板加工成蜂巢的结构, 增加了台面结构的密度, 减小体积, 采用先进的粘合工艺, 坚固耐用。台面的底部和侧板用碳钢作为主体材料, 具有非常优秀的动态和静态的刚性。

主动隔振支撑部分主要包括了被动隔振机构和主动隔振器 DVIA-M, 每个支撑里面一般会有 4 个 DVIA-M 系列主动隔振器和一台主控箱。主动隔振器包含了采集信号的传感器和消除振动的驱动器, 主要消除 0.5-10Hz 的外部振动, 被动隔振系统部分同时承担着支撑负载和隔绝高频率振动的作用。

这个系列的平台可以在低频范围 (0.5-10Hz) 提供非常卓越隔振性能, 它可以应用于很多对振动要求非常高, 甚至具有挑战的领域, 比如高分辨率的光谱仪、高分辨率电子显微镜和精密纳米科学研究和制备等。

特点:

- 具有非常优秀的隔振性能, 特别是在低频 0.5Hz-10Hz 达到 90% 以上的隔振效率。
- 采用惯性传感器, 可以检测出六个自由度的振动, 并做补偿。
- 采用真蜂窝三层夹心式结构台面, 厚度可选 100/200/300mm。
- 进口精密主动隔振平台。
- 隔振性能优异, 广泛应用于扫描探针显微镜, 原子力显微镜, 扫描隧道显微镜, 激光干涉仪, 半导体检测设备, 三维形貌分析仪和激光共聚焦显微镜等。

主动隔振平台技术指标:

- 隔振频率: 0.5~100Hz
- 自动平衡, 响应时间短, 平衡速度快
- 钢蜂巢内核: 钢制蜂窝芯, 钢板厚度 0.25mm, 每个蜂巢面积 3.2cm²
- 表面平整度: ±0.1mm / 600 mm²
- 台面: 4.0mm 厚度 430 系列高导磁镍合金不锈钢
- 底面: 4.0mm 厚碳钢, 表面氧化处理
- 边墙板: 2.0mm 厚碳钢, 包裹高阻尼聚乙烯材料
- 孔径: M6 (英制螺孔可选)
- 孔距: 25mmX25mm (英制孔距可选), 最外边孔距平台边缘 37.5mm
- 螺孔密封: 每个螺纹孔下方设有柱形隔离杯密封, 方便清洁
- 阻尼隔振方式: 宽带阻尼

细节说明:

整体台面



平台控制器



DVIA-M 系列主动隔振器



应用案例:



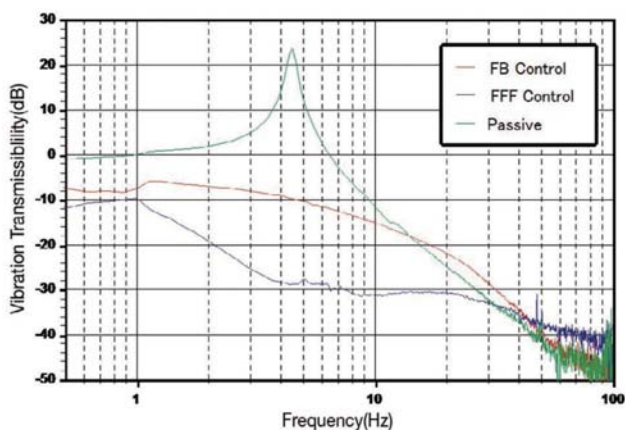
DVIA-M系列主动隔振器参数表

型号		DVIA-M1000	DVIA-M2000	DVIA-M3000
尺寸	隔振器(mm)	215x215x180	232x232x180	308x308x180
	控制器(mm)	334x357x120	334x357x120	334x357x120
最大负载(kg)		1500-3500	1500-3500	1500-3500
重量(kg)		15	15	15
驱动方式		电机驱动		
隔振自由度		6个自由度		
隔振效率		95%-99%at 10Hz		
回复时间		<0.5Sec		
驱动器推力		竖直>20N,水平>40N		
输入电压		AC 85-264/50-60Hz		
功率消耗		峰值功率110W,稳定功率50W		
空气压力		大于0.5Mpa		
环境要求	温度℃	5-50℃		
	湿度	20%-90%		
主动隔振频率范围		0.5-100Hz		
初始水平调整		自动调整		
系统配置		4个隔振器包含控制箱		

选型表:

型号	外形尺寸(mm)	台面厚度
DVIA-MO-1209M-100t(800H)	1200X900X800	100mm
DVIA-MO-1212M-100t(800H)	1200X1200X800	100mm
DVIA-MO-1509M-100t(800H)	1500X900X800	100mm
DVIA-MO-1512M-100t(800H)	1500X1200X800	100mm
DVIA-MO-1809M-100t(800H)	1800X900X800	100mm
DVIA-MO-1812M-100t(800H)	1800X1200X800	100mm
DVIA-MO-2010M-100t(800H)	2000X1000X800	100mm
DVIA-MO-2012M-100t(800H)	2000X1200X800	100mm
DVIA-MO-2409M-100t(800H)	2400X900X800	100mm
DVIA-MO-2412M-100t(800H)	2400X1200X800	100mm
DVIA-MO-1509M-200t(800H)	1500X900X800	200mm
DVIA-MO-1510M-200t(800H)	1500X1000X800	200mm
DVIA-MO-1512M-200t(800H)	1500X1200X800	200mm
DVIA-MO-1515M-200t(800H)	1500X1500X800	200mm
DVIA-MO-1809M-200t(800H)	1800X900X800	200mm
DVIA-MO-1812M-200t(800H)	1800X1200X800	200mm
DVIA-MO-1815M-200t(800H)	1800X1500X800	200mm
DVIA-MO-2010M-200t(800H)	2000X1000X800	200mm
DVIA-MO-2012M-200t(800H)	2000X1200X800	200mm
DVIA-MO-2015M-200t(800H)	2000X1500X800	200mm
DVIA-MO-2409M-200t(800H)	2400X900X800	200mm
DVIA-MO-2412M-200t(800H)	2400X1200X800	200mm
DVIA-MO-2415M-200t(800H)	2400X1500X800	200mm
DVIA-MO-3009M-200t(800H)	3000X900X800	200mm
DVIA-MO-3010M-200t(800H)	3000X1000X800	200mm
DVIA-MO-3012M-200t(800H)	3000X1200X800	200mm
DVIA-MO-3015M-200t(800H)	3000X1500X800	200mm
DVIA-MO-3612M-200t(800H)	3600X1200X800	200mm
DVIA-MO-3615M-200t(800H)	3600X1500X800	200mm

隔振平台隔振性能参数:



型号	外形尺寸(mm)	台面厚度
DVIA-MO-1509M-300t(800H)	1500X900X800	300mm
DVIA-MO-1510M-300t(800H)	1500X1000X800	300mm
DVIA-MO-1512M-300t(800H)	1500X1200X800	300mm
DVIA-MO-1515M-300t(800H)	1500X1500X800	300mm
DVIA-MO-1809M-300t(800H)	1800X900X800	300mm
DVIA-MO-1812M-300t(800H)	1800X1200X800	300mm
DVIA-MO-1815M-300t(800H)	1800X1500X800	300mm
DVIA-MO-2010M-300t(800H)	2000X1000X800	300mm
DVIA-MO-2012M-300t(800H)	2000X1200X800	300mm
DVIA-MO-2015M-300t(800H)	2000X1500X800	300mm
DVIA-MO-2409M-300t(800H)	2400X900X800	300mm
DVIA-MO-2412M-300t(800H)	2400X1200X800	300mm
DVIA-MO-2415M-300t(800H)	2400X1500X800	300mm
DVIA-MO-3009M-300t(800H)	3000X900X800	300mm
DVIA-MO-3010M-300t(800H)	3000X1000X800	300mm
DVIA-MO-3012M-300t(800H)	3000X1200X800	300mm
DVIA-MO-3015M-300t(800H)	3000X1500X800	300mm
DVIA-MO-3612M-300t(800H)	3600X1200X800	300mm
DVIA-MO-3615M-300t(800H)	3600X1500X800	300mm
DVIA-MO-1509M-400t(800H)	1500X900X800	400mm
DVIA-MO-1510M-400t(800H)	1500X1000X800	400mm
DVIA-MO-1512M-400t(800H)	1500X1200X800	400mm
DVIA-MO-1515M-400t(800H)	1500X1500X800	400mm
DVIA-MO-1809M-400t(800H)	1800X900X800	400mm
DVIA-MO-1812M-400t(800H)	1800X1200X800	400mm
DVIA-MO-1815M-400t(800H)	1800X1500X800	400mm
DVIA-MO-2010M-400t(800H)	2000X1000X800	400mm
DVIA-MO-2012M-400t(800H)	2000X1200X800	400mm
DVIA-MO-2015M-400t(800H)	2000X1500X800	400mm
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DVIA-MO-3012M-400t(800H)	3000X1200X800	400mm
DVIA-MO-3015M-400t(800H)	3000X1500X800	400mm
DVIA-MO-3612M-400t(800H)	3600X1200X800	400mm
DVIA-MO-3615M-400t(800H)	3600X1500X800	400mm