

Daeil Systems DVIA-T Series



Active Vibration Isolation System for Tabletop Instruments

The DVIA-T Series is a plug and play system, with automatic leveling and weight distribution at the touch of a button. Metal springs are integrated into the DVIA-T series to reduce high frequency vibrations so compressed air is not required.

Every DVIA-MB includes a 10 year limited warranty.

Sub-Hertz Vibration Isolation

DVIA-T series provides excellent vibration isolation performance in the 1–10 Hz range where the low frequency vibration disturbs nanoscale measuring tools. The vibration control range of DVIA-T series starts from 0.5 Hz, achieving 90% vibration isolation at 2 Hz.

Compact, Lightweight and Portable

The smallest DVIA-T series unit measures 420 mm x 500 mm x 93 mm and weighs only 25 kg, allowing users to hand carry and install anywhere in their facility.

Optimal Vibration Solution

DVIA-T delivers optimized active vibration isolation by employing Daeil's own software to tune the feedback and feedforward control systems, while factoring in the user's instrument and its weight, plus the operating environment.

Real Time Vibration Isolation Performance Monitoring

DVIA-T software and integrated active sensors allow users to monitor real time vibration levels and isolation performance. Furthermore, an LCD display on the front side of DVIA-T enables users to monitor the automatic leveling and real time vibration levels.

DVIA-T Platform

Designed for Benchtop Instruments up to 150 kg

- Tabletop SEM
- AFM/SPM
- Optical and Confocal Microscopes
- Interferometers
- Micromanipulators
- Nanoindenters
- Ultra-Precision Metrology Tools

10 Year Limited Warranty



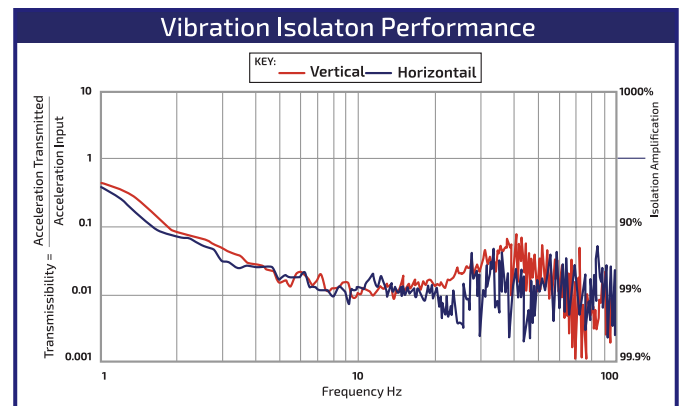
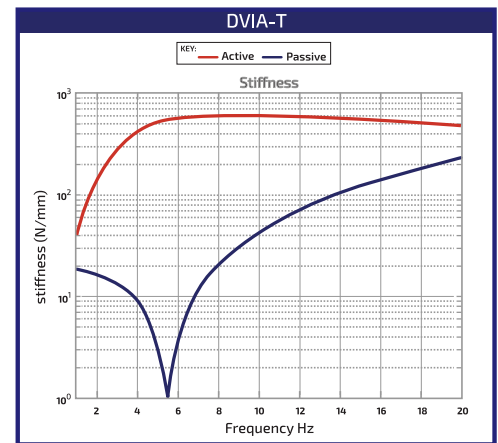
Daeil Systems DVIA-T Series

Active Vibration Isolation

Specifications

Model No.		DVIA-T45	DVIA-T56	DVIA-T67	DVIA-T78
Dimensions (W x D x H)		420 x 500 x 93 mm	500 x 600 x 93 mm	600 x 700 x 95 mm	700 x 800 x 95 mm
Max Load Capacity		90 kg/ 150 kg	90 kg/ 150 kg	90 kg/ 150 kg	90 kg/ 150 kg
Weight		25 kg	32 kg	47 kg	56 kg
Actuator		Electromagnetic Actuator			
Maximum Actuator Force		Vertical : 6 N, Horizontal : 3 N			
Active Isolation Range		0.5 - 100 Hz			
Degrees of Freedom		6 degrees			
Vibration Isolation Performance		≥90% at 2 Hz / 99% at 10 Hz			
Settling Time		≤0.3 sec*			
Automatic Leveling / Load Adjustment		Yes			
Real-Time Monitoring		Active isolation status and automatic leveling on LCD display			
Top Plate		No Mounting Holes / M6 Mounting Holes / Custom-made			
Transportation		Internal Lock System			
Input Voltage (V)		AC 80 - 260 V / 50 - 60 Hz			
Power Consumption (W)		Less than 36 W			
Operating Range	Temperature (°C)	5- 50 °C			
	Humidity (%)	20-90%			

*0.3 sec settling time is measured after 90% reduction of input. (the settling time varies with several conditions, such as payload, force, natural frequency, etc.)



Vibration isolation performance for the DVIA-T Series.

All Daeil systems are TUV and CE certified. Daeil and VEC provide a 10 year warranty on all DVIA-T products.

Daeil Vibration Isolation systems are TUV certified.

Daeil Active Vibration Isolation Systems are CE Certified.



**VIBRATION
ENGINEERING
CONSULTANTS**

1441 Rollins Road
Burlingame, CA 94010
+1 831-465-9189
info5@vibeng.com
www.vibeng.com

DAEIL SYSTEMS



© 02-2020 Vibration Engineering Consultants.
Specifications subject to change without notice.