

Workstation – Active Isolation (700mm/800mm Height Self-Leveling)

Thorlabs' active isolation system is designed specifically to maximize vibration isolation for sensitive applications. It features a pneumatic self-leveling design that provides both vertical and horizontal vibration isolation of the work surface and effectively attenuates low frequency vibrations. These isolators ensure high instrument resolution and repeatability. Typical applications include interferometry, cell

injection, non-contact surface measurement, microscopy, and other motion-sensitive measurements. Select the active workstation if your application would benefit from a self-leveling facility and a high degree of vibration isolation. Please contact your nearest Thorlabs representative to discuss your options. Custom sizes available by contacting Tech Support.

Metric and Imperial Compatible



Optical breadboards for use with active workstations are available. See pages 18-32 for more details.

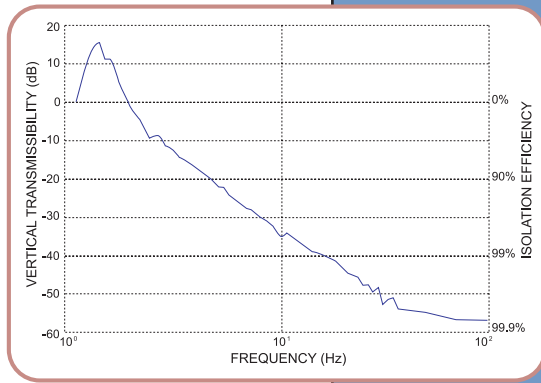
Active Self Leveling Vibration Isolation Data

Resonant Frequency		Transmissibility (Isolation Efficiency)	
Vertical	Horizontal	Vertical	Horizontal
<1.6Hz	<1.2Hz	<13dB at Resonance	<8dB at Resonance
		<0.13dB (>87%) at 5 Hz	<0.03dB (>97%) at 5 Hz
		<0.03dB (>97%) at 10 Hz	<0.03dB (>97%) at 10 Hz

*Performance values were measured using a 1.25m x 2.5m x 310mm (4 ft x 8 ft x 8.3") table. Lighter tables or loads will have a higher vertical resonant frequency, lower transmissibility at resonance, and higher transmissibility at 10Hz.

Specifications

- **Load Capacity:** 700kg (1,545lbs)
 - **Air Pressure Required:** 690kPa (100psi) Maximum
 - **Height:** 800mm (32")¹
 - **Height Adjustment Range:**
 - Isolators: ±6mm (0.25")
 - Leveling Feet: ±10mm (0.4")
 - **Self Leveling Repeatability:** ±0.25mm (0.010")
 - **Finish:** Black Paint
- ¹700mm (28") available upon request.



Vertical Transmissibility of Thorlabs' Workframes – Active Self-Leveling Isolation

Active Isolating Support Frames 700mm Height – Call for Lead Time

ITEM	\$	£	€	RMB	HEIGHT	DESCRIPTION
PFA51509	\$ 2,539.80	£ 1,600.10	€ 2,362.00	¥ 24,255.10	700mm (27.5")	750 x 750mm (2.5' x 2.5')
PFA51505	\$ 2,556.80	£ 1,610.80	€ 2,377.80	¥ 24,417.40	700mm (27.5")	900 x 750mm (3' x 2.5')
PFA51506	\$ 2,573.80	£ 1,621.50	€ 2,393.60	¥ 24,579.80	700mm (27.5")	900 x 900mm (3' x 3')
PFA51508	\$ 2,573.80	£ 1,621.50	€ 2,393.60	¥ 24,579.80	700mm (27.5")	1200 x 750mm (4' x 2.5')
PFA51507	\$ 2,607.80	£ 1,642.90	€ 2,425.30	¥ 24,904.50	700mm (27.5")	1200 x 900mm (4' x 3')
PFA51503	\$ 2,658.80	£ 1,675.00	€ 2,472.70	¥ 25,391.50	700mm (27.5")	1200 x 1200mm (4' x 4')
PFA51501	\$ 2,573.80	£ 1,621.50	€ 2,393.60	¥ 24,579.80	700mm (27.5")	1500 x 750mm (5' x 2.5')
PFA51502	\$ 2,607.80	£ 1,642.90	€ 2,425.30	¥ 24,904.50	700mm (27.5")	1500 x 900mm (5' x 3')
PFA51504	\$ 2,675.80	£ 1,685.80	€ 2,488.50	¥ 25,553.90	700mm (27.5")	1500 x 1200mm (5' x 4')

Active Isolating Support Frames 800mm Height – Call for Lead Time

ITEM	\$	£	€	RMB	HEIGHT	DESCRIPTION
PFA52509	\$ 2,550.00	£ 1,606.50	€ 2,371.50	¥ 24,352.50	800mm (31.5")	750 x 750mm, (2.5' x 2.5')
PFA52505	\$ 2,567.00	£ 1,617.20	€ 2,387.30	¥ 24,514.90	800mm (31.5")	750 x 900mm, (2.5' x 3')
PFA52508	\$ 2,584.00	£ 1,627.90	€ 2,403.10	¥ 24,677.20	800mm (31.5")	750 x 1200mm, (2.5' x 4')
PFA52501	\$ 2,584.00	£ 1,627.90	€ 2,403.10	¥ 24,677.20	800mm (31.5")	750 x 1500mm, (2.5' x 5')
PFA52506	\$ 2,584.00	£ 1,627.90	€ 2,403.10	¥ 24,677.20	800mm (31.5")	900 x 900mm, (3' x 3')
PFA52507	\$ 2,618.00	£ 1,649.30	€ 2,434.70	¥ 25,001.90	800mm (31.5")	900 x 1200mm, (3' x 4')
PFA52503	\$ 2,669.00	£ 1,681.50	€ 2,482.20	¥ 25,489.00	800mm (31.5")	1200 x 1200mm, (4' x 4')
PFA52504	\$ 2,686.00	£ 1,692.20	€ 2,498.00	¥ 25,651.30	800mm (31.5")	1200 x 1500mm, (4' x 5')
PFA52502	\$ 2,618.00	£ 1,649.30	€ 2,434.70	¥ 25,001.90	800mm (31.5")	1500 x 900mm, (5' x 3')

*Please contact your local sales office for a quotation including shipping.