

OPTOSIGMA EUROPE

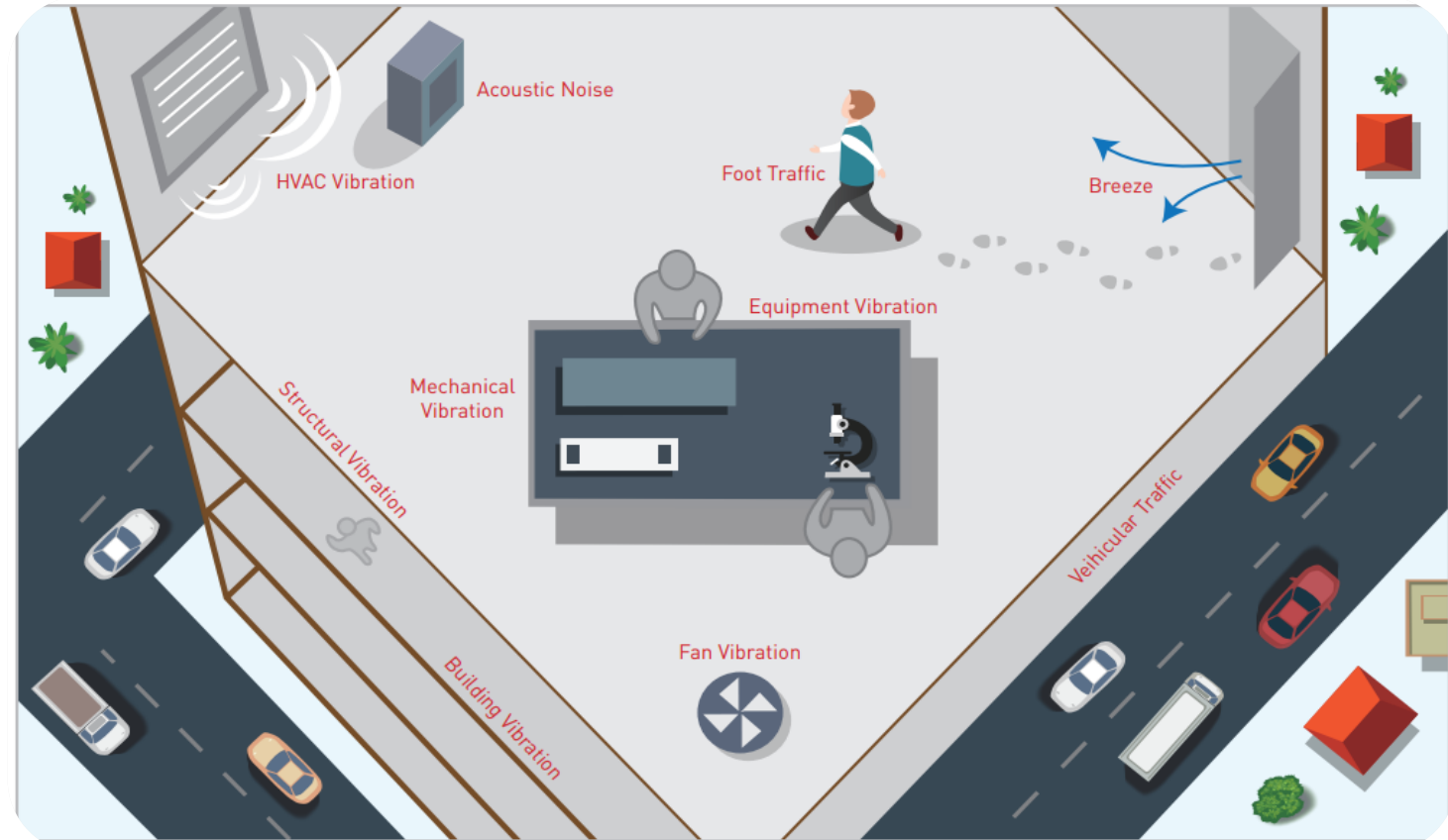
Optical Tables

Do you know all vibration influences in a laboratory?

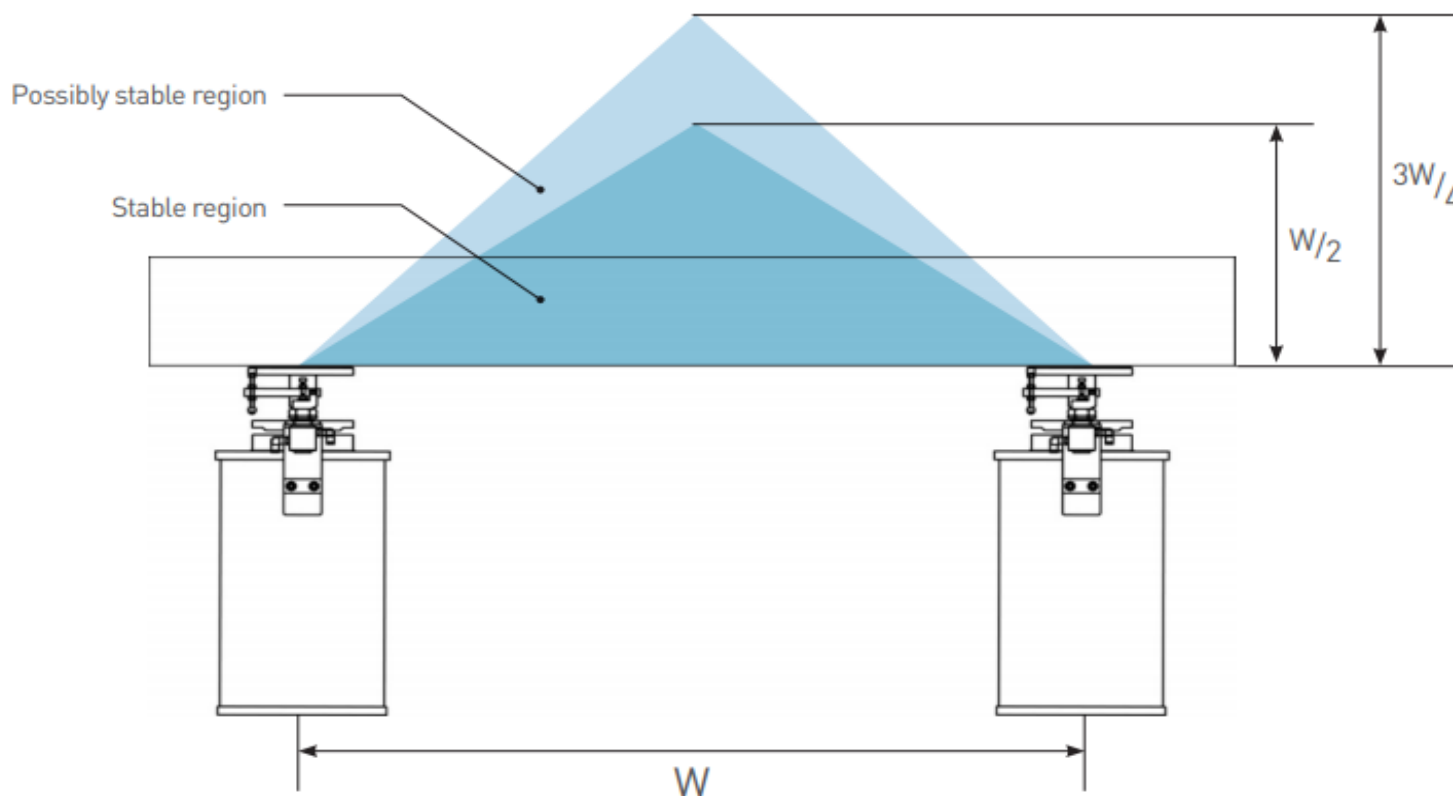
Ground vibrations indicate all the factors that cause vibrations on a floor. This includes foot and vehicular traffic, external noises, wind blowing and building and HVAC systems.

Acoustic noises are the factors that directly apply a force to a payload, such as wind blowing from fans.

A direct force is a force that directly applied to a payload on a platform, including cable connecting all the equipment and motorized linear stages.



Do you know the high you can use with your optical table?



Solutions if you want to place a load with a high center of gravity:



Design a cradle vibration isolation platform



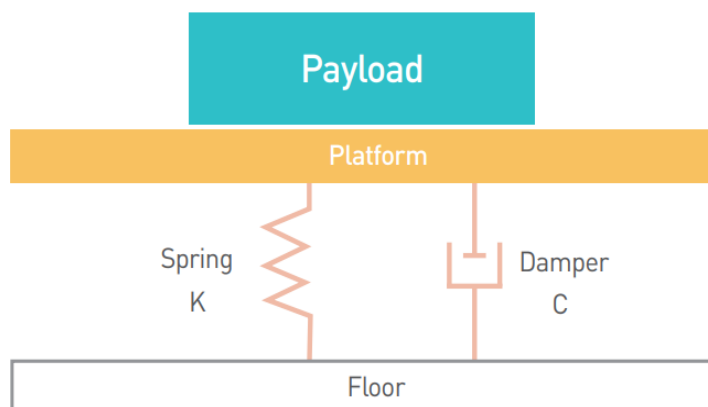
Add extra weights on top of the isolator



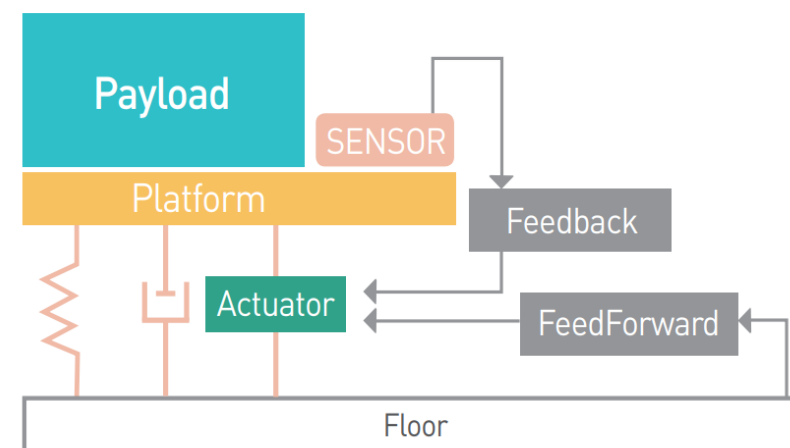
Increase the space between the isolators

Active isolation vs. Passives isolation. What is the difference?

Passive Isolation



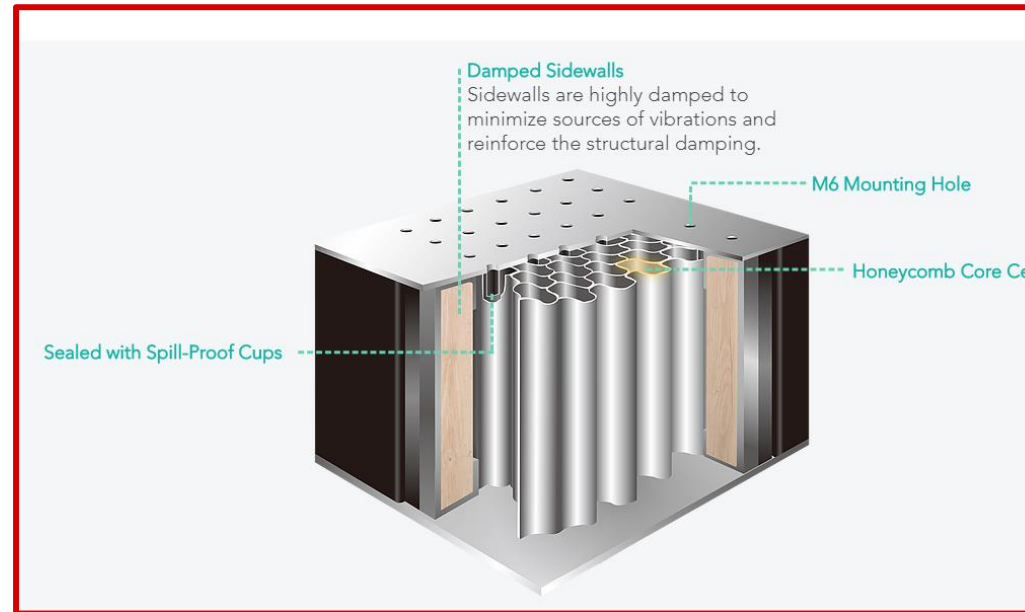
Active Isolation



Optical Breadboard

Tapped Surface
25 x 25mm M6 Holes

Steel Honeycomb
Structure (2,9cm²)



Dust Cups

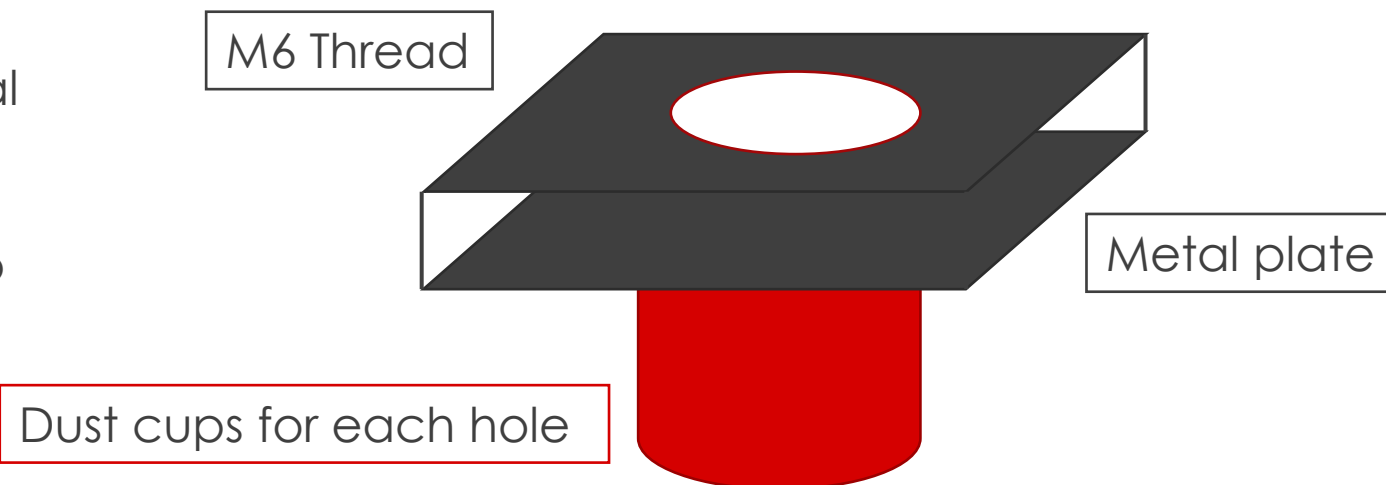
Factor : x1.42

Size	400 – 800	800-1500	1500-2500	2500 & more
Recommended Thickness	50mm	100mm	200mm	300mm
Price Range	800€	1200€	2700€	5000€

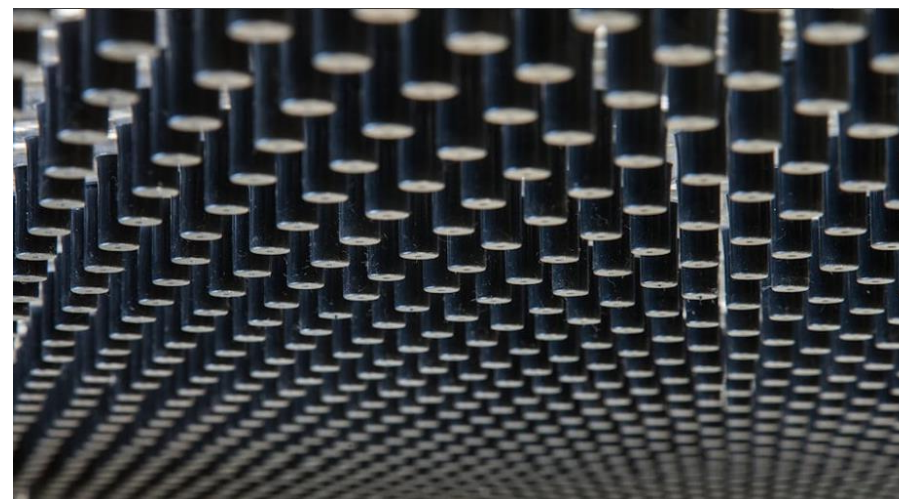
Part Number Explanation :
OSDVIO-B-XXXXM-XXX†
Ex : OSDVIO-B-1812M-200† => 2969€

!Unique selling point! - Screws and dust cups

- The dust cups **are standard** for our optical tapers.
- You prevent any liquid and dust related damages to the core of the Honeycomb structure

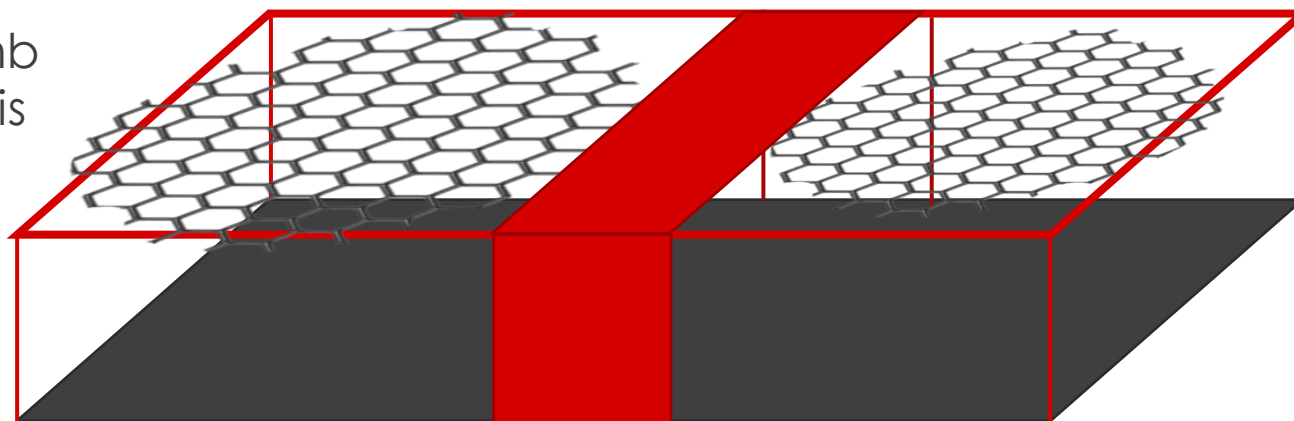


Prevent:



What happens if we want to change holes?

A metal plate is worked into the honeycomb structure and the changes are made on this incorporated metal.



Metal insert for applying change of holes

Standard (Passive) Isolation

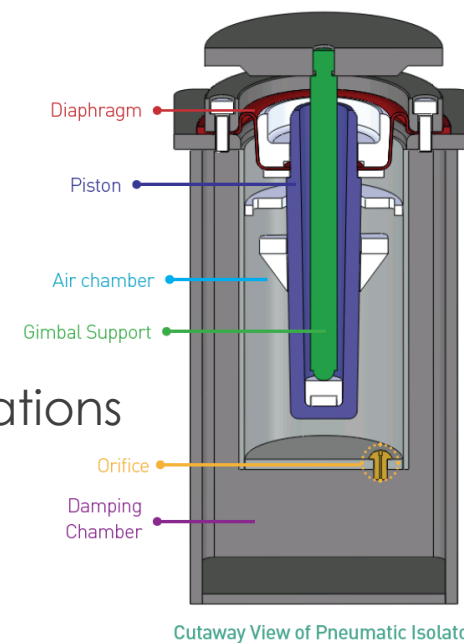
Rigid

- Cost Effective
- Non Critical Experiment
- Manual Leveling System
- High Stiffness Legs
- No Vibration Isolation



Pneumatic

- Independent Isolators
- Dual Chamber Design
- Self-leveling System
- Damping System
- Preventing amplifying vibrations
- Vibration Isolation



Part Number

OSDVIO-Y-XXXXM-I†(Hh)

Y = Iso Type :

- If Tie Bar : R for Rigid and I for Pneumatic
- If Self Standing : Iso type + Number of Legs => Rigid : R4 or R6 | Pneumatic : S/M/L/P + 4/6

XXXX = Breadboard Size in 100mm (Ex: 2000x1200mm => 2012)

M = Metric

I = Thickness of the Breadboard

H = Total Height of the table

EX : OSDVIO-L4-3015M-300†(800h)

Load capacity on the isolators

Rigid Supports

Kind of isolators	Comment	Number of isolators	Maximum load capacity [kg]
R	Tie-Bar & Caster	4	1700
R	Tie-Bar & Casters	6	2500
R4	Self-Standing	4	1700
R6	Self-Standing	6	1700

Pneumatic Supports

Kind of isolators	Comment	Number of isolators	Maximum load capacity [kg]
ISO-S	Tie-Bar & Caster	4	300
ISO-M	Tie-Bar & Caster	4	500
ISO-L	Tie-Bar & Caster	4	1000
ISO-P	Tie-Bar & Caster	4	1500
M4	Self-Standing	4	500
L4	Self-Standing	4	1000
P4	Self-Standing	4	2000

Active Table Top

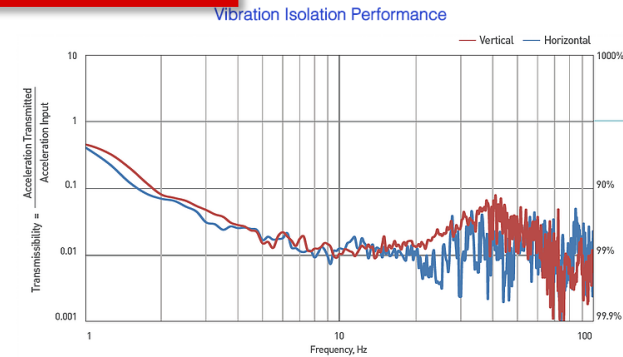
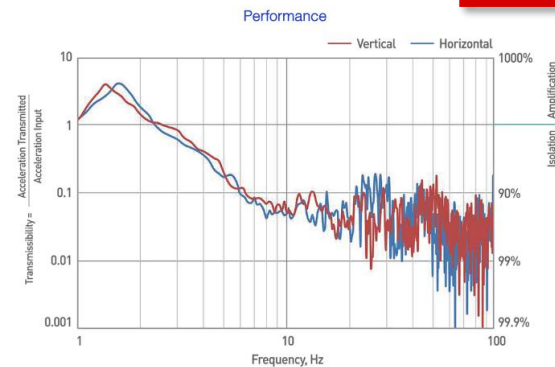
Electronic Feedback &
Real Time monitoring

OSDVIA



No Resonant
Frequency

Ideal for Microscopy



Customization

Overhead Shelves
OSDOTS series



Joined Table
System



Non Magnetic
Vacuum Compatible
Stainless Steel



Custom size
Breaboard



Table Enclosure



Options for the tables



Workstations

Smaller Frames

DVID Series



Half table Half
Breadboard

Custom Size



DVID-L
Lab Workstation



DVID-H
Optical Workstation



DVID-C
Cleanroom Workstation



DVID-T
Tabletop Workstation

Options for Work Stations

Armrest
Around 60€/side



Sliding Shelf

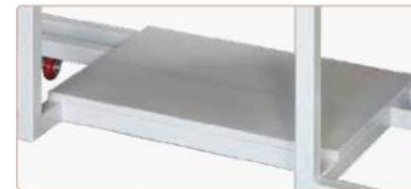


Drawers



Overhead & Under Shelf

Provides extra space to store other equipment.



How are the tables packed?



Polish warehouse

The tables that are in the Polish warehouse **are separate packed** with feet and tops so that they can be combined in a variety of ways.



Tables straight from Korea

Tables smaller than 2000 mm are shipped in one craft. Larger tables, feet and optical breadboards are shipped separately.

What tools are recommended of setting up tables? – 1



What tools are recommended of setting up tables? -2



Why optical tables from OptoSigma?



1. Get fast access to your optical table, we are holding for you the biggest stock in Europe and use our third parties partners to setup your table at the location you want.
2. Change your mounting threads on the table, the height of the table and choose any size. We are capable to your table with requirement you need.
3. You need a non-magnetic table ? No problem, our special non-magnetic stainless steel is the option for you. Bonus points : it's also vacuum compatible. These tables are not a problem for our production.
4. Do you need help with the installation ? We will take care of the transport up to the installation, so that you only have to place the opto-mechanics on the table.