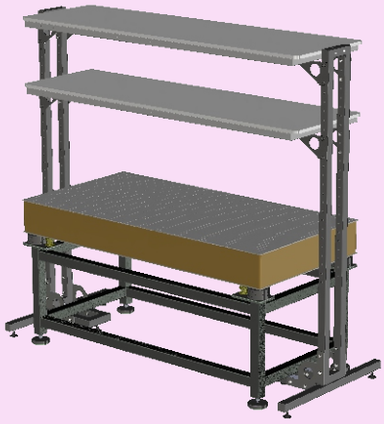
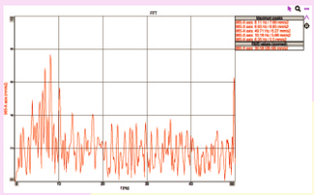
Dynemech
VIBRATION TECHNOLOGY

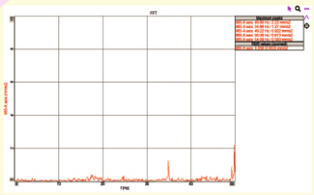
SHOCK RESISTANT /ANTI VIBRATION TABLE ON AIR SPRING WITH AUTO LEVELLING WITH HONEYCOMB TABLE TOP & TOP STORAGE SERIES : DIT-AL-HC-SR



Before Installing of Dynemech Antivibration Table



After Installing of Dynemech Antivibration Table



Dynemech Anti-Vibration Table **Series DIT-AL-HC-SR** is suitable for all types of measuring and testing equipment used in the labs and clean rooms. These tables have a levelling adjustable leg. By rotating the nut, the level of the table top can be maintained using precision spirit level/electronic level gauge. This levelling adjustment leg ensures the rigid placement of the frame on the ground.The table top is a honeycomb table top. The core of this table top is composed of hexagon cells which provides remarkable strength to weight ratio ensuring a robust and stable surface which is light weight and easier to handle. The core is sandwiched between two layers of high quality material such as SS 304 or Magnetic SS. Additional two levels of slabs are provided with independent stand. The frame of the table is made from the structural steel having grade IS 2062. Powder coating on the frame is done to maintain corrosion free service life of the table. The vibration isolation is achieved at 2 stages. The first stage is in the legs where the antivibration pads are assembled in the levelling leg which damps medium to high frequency vibrations. The second level of vibration isolation is achieved by using DRAS air springs with non return valve or connector with continuous air supply are tuned to low natural frequency range between 4-6 Hz. This table damps most of the incoming vibrations above 10 Hz. Optional sturdy castor wheels are also provided for heavy versions for easy relocation of the table. Keyboard, CPU and monitor stands,. Drawers and cabinets can also be accommodated in these tables as per the application requirements. These tables undergo a modern manufacturing process and rigorous testing before being supplied to customers. The entire process is carried out in our dedicated in-house facility.

APPLICATIONS: Used in industries with requirement for mounting optical assemblies and modules, like lasers, lenses, and other precision equipment, Microscopy and Research Labs, Balance and Precision Testing Equipment, Seismic and Vibration-Sensitive Environments.

Sl. No.	Model	Load (Kg.)	Length (mm)	Width (mm)	Height at mean position (mm)	Honeycomb Table Top Thickness (mm)	Natural Frequency (Hz)
1.	**DIT-AL-HC-SR-01**	upto 400	500	500	800-1000	80	7-8
2.	**DIT-AL-HC-SR-02**	upto 400	630	630	800-1000	80	7-8
3.	**DIT-AL-HC-SR-03**	upto 500	750	500	800-1000	80	7-8
4.	**DIT-AL-HC-SR-04**	upto 1250	900	600	800-1000	100	7-8
5.	**DIT-AL-HC-SR-05**	upto 1250	1000	800	800-1000	150	7-8
6.	**DIT-AL-HC-SR-06**	upto 1250	1200	1000	800-1000	150	7-8
7.	**DIT-AL-HC-SR-07**	upto 1500	1800	900	800-1000	200	7-8

A.HONEYCOMB TABLETOP TECHNICAL SPECIFICATIONS :

1.	Breadboard core type	Honeycomb build
2.	Size	As per standard
3.	Thickness	As per standard
4.	Top Plate material	Magnetic Stainless Steel
5.	Bottom Plate material	Steel
6.	Top layer hole grid	M6 tapped holes, 25mm grid/As per requirement
7.	Maximum screw depth	20mm or more
8.	Surface Flatness	+/-0.2mm

B. VIBRATION ISOLATION SUPPORT SYSTEM :

1.	Vibration Isolation Type	Passive (Pneumatic)
2.	Mounting legs per system	As per standard
3.	Leg height	As per standard
4.	Support leg assembly	As per standard
5.	load bearing capacity	upto 750kg
6.	Vibration isolation range	10-50Hz
7.	Vertical & Horizontal Resonant frequency	7Hz
8.	Air pressure	78 psi
9.	Leg finish	Black paint
10.	Air filter	Included
11.	Portable electric air compressor/pump	Included

C. STANDING OVERHEAD SHELF :

1.	System	Standing overhead shelf & supporting structure
2.	Structure Material	Steel welded with black coat finish
3.	Shelf/Platform size	As per standard
4.	No. of shelf/Platform	As per requirement
5.	Shelf Height	To be adjustable over structure
6.	Mounting holes size across shelf & structure	M6

D. OVERHEAD SHELF ACCESSORIES :

1.	As Per Requirement	