Bilz®

General Catalogue

ANTI VIBRATION TABLES AND TABLE TOPS

BILZ ANTIVIBRATION TABLES

LABORATORY TABLE LTH (HARD STONE)

LABORATORY TABLE LTO (OPTICAL TABLE TOP) -

This system can be supplied with Membrane air spring (BiAir®) system and Rubber air spring system (Faebi®)with and without auto level controllers based on application required.

Product properties

- Adjustable table feet
- Rigid, welded steel subframe
- BiAir® membrane air spring (vertical natural frequency approximately 3 Hz) between the subframe and table top.
- Painting as desired by the customer
- The system can also be supplies with option of Rubber air spring bellow.

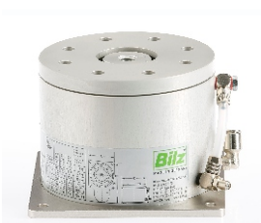
Description of the table tops:(LTO)

- Cover plate: Stainless steel 3 mm, magnetic or non-magnetic, anti-reflective.
- Base plate: Steel sheet 3 mm
- Clamping hole grid: 25 mm (standard)
- Core: HD/HDT: Steel honeycomb made of galvanised 0.5 mm steel sheet, precision formed, bonded with specifically matched resin
- Thread inserts (HDT):Floating mounted threaded inserts M6,closed sleeves prevent any contact with the table core. Capability to displace the clamping bolts by 0.5 mm whilst simultaneously Inclining by ±3°. Maximum depth of thread 30 mm.

(Tabletop made from hard stone with a ground finish is also available)

Applications

- Special Microscopy
- Vibration-sensitive measuring and testing equipment
- Laser equipment
- Optical and Electronic instruments
- Scales
- Medical instruments



BiAir®

Faebi®

Dimensions	LTH/LTO 90-75	LTH/LTO 100-80	LTH/LTO 100-100	LTH/LTO 120-80	LTH/LTO 150-100	LTH/LTO 200-100
Width (mm)	900	1,000	1,000	1,200	1,500	2,000
Depth (mm)	750	800	1,000	800	1,000	1,000
Thickness (mm)	100	140	160	160	190	220
Working Height (MM)	760	760	760	700	760	760
Max Load (kg)	360	700	760	700	1,800	2,800

BILZ LTH - LABORATORY TABLES WITH BIAIR OC

Product Properties

- Adjustable table feet
- Rigid, welded steel subframe, powder-coated
- BiAir®-OC membrane air spring isolators (vertical natural frequency 2 Hz) between subframe and table top
- Mechanical-pneumatic level control (level accuracy ±1/10 mm or ± 1/100 mm, depending on the valve used)
- Table top made from hard stone with a ground finish
- Choice of colour according to customer requirements

Applications

Vibration-sensitive measuring and testing equipment e.g. atomic force microscopes (AFM), inter- ferometer

Description

- Due to their increased air volume the newly-developed BiAir® OC air springs achieve a reduced natural frequency of approximately 2 Hz in the vertical plane.
- The laboratory tables with BiAir®OC air springs are suitable for applications with lower dynamics that require an excellent insulation effect.

Dimensions	LTH 60-50	LTH 80-60	LTH 100-63	LTH 90-75	LTH 100-80	LTH 100-100	LTH 120-80	LTH 150-100	LTH 200-100
Width [mm]	600	800	1,000	900	1,000	1,000	1,200	1,500	2,000
Depth [mm]	500	600	630	750	800	1000	800	1000	1000
Thickness [mm]	100	120	100	100	140	160	160	190	220
Working Height [mm]	760	760	760	760	760	760	700	760	760
max load [Kg]	250	250	300	360	700	700	700	1, 800	2,800

BILZ PASSIVE TABLE PLATFORM - VITAP

Applications

- For very light and very small measuring or test equipment
- Weight range up to 200 kg
- Optical devices, optical microscopes, microscopes with a CCDcamera, inspection microscopes, small surface roughness and roundness measuring equipment, hardness testers, analytical balances, applications in industrial production environments,laboratories and measuring rooms up to clean rooms.

Product properties

- Portable, robust, powder coated metal housing with integrated Bilz rubber air springs FAEBI® or optionally with Bilz membrane air springs BiAir®
- A ground-finished hard stone plate lies on the insulators as a support base and solid base mass
- Available with and without a connection to an external compressed air supply

(VITAP Passive Platform is available in two sizes 500x400 mm & 600x500 mm with height 100 mm)

SERIES VITAP®

With autonomously operated FAEBI® rubber air springs, load 600 - 1,300 N, vertical natural frequency 4.5 - 6 Hz

SERIES VITAP® - FP

With FAEBI® rubber air springs, manually adjustable height level, load 600 -1300 N, vertical natural frequency 4.5 - 6 Hz

SERIES VITAP® - BM

With level-controlled BiAir® membrane air springs, load 750 - 2,000 N, vertical natural frequency 3 Hz

VITAP® Sizes and technical data

	VITAP®-F 50-40	VITAP®-F 60-50	VITAP®-FP 50-40	VITAP®-FP 60-50	VITAP®-BM 50-40a	VITAP®-BM 50-40b	VITAP®-BM 60-50a	VITAP®-BM 60-50b
Dimensions L x W [mm]	540X440	640X540	540X440	640X540	540X440	540X440	640X540	640X540
Installation surface [mm]	500X400	600X500	500X400	600X500	500X400	500X400	500X500	600X500
Maximum load [KG]	60	130	60	130	75	150	150	120

BILZ ACTIVE VIBRATION ISOLATED TABLE TOP PLATFORM - E-stable

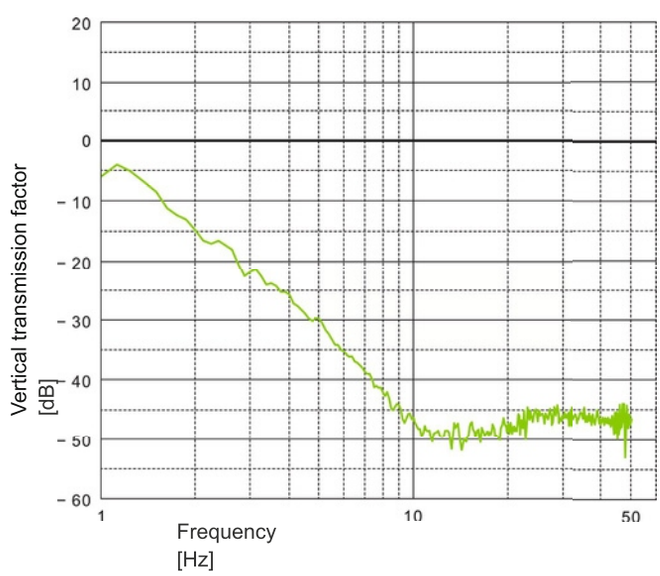
Applications

- Microscopes, e. g. SPM, AFM, SEM, laser microscopes Interferometers
- Electronic scales
- Surface roughness measuring equipment
- Other sensitive table top appliances

Product properties

- Active control in 6 degrees of freedom allows excellent vibration isolation
- LCD monitor for displaying various diagrams, e. g. acceleration spectrum
- Suitable for clean rooms: aluminium cover plate and clean room compatible housing
- No compressed air supply required
- Automatic levelling and clamping at the push of a button
- Power supply: 1-phase-AC, 85-230 V, 50/60 Hz

Technical data e-Stable	mini 450F	mini 560F
Dimensions WxDxH [mm]	400x500x80	500x600x84
Max. load [kg] (At centric load)	120	100
Empty weight [kg]	19	28



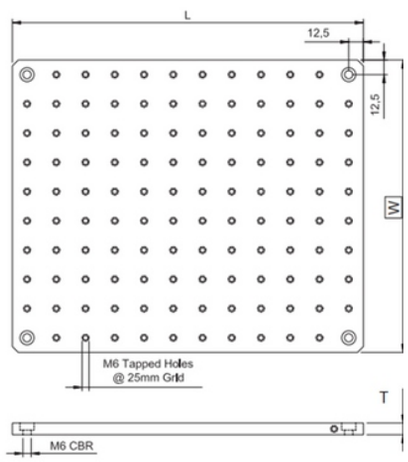
SOLID BREADBOARDS

Product Properties

- Standard breadboards are commonly used platforms for building optical setups. The thickness is 12 mm/18 mm.
- There are M6 tapped holes on 25mm grid. These solid aluminium, nonmagnetic baseplates provide a convenient and cost-effective platform for assembling prototype optical assemblies, conducting experiments, and mounting small subsystems.
- They are finished with a black, minimally reflective anodized coating.
- For vacuum applications, we recommend using our selection of Un-anodized Breadboards.

Description

- 12 and 18mm thickness available
- M6 Standard tapped holes on 25mm Grid.
- Aluminium construction
- Black hard Anodized finish for aluminium
- Surface flatness +/- 0.05mm over 300 mm square area



Model no.	W (mm)	L (mm)	T (mm)	Mounting hole
BPG/RT/100100/AL	100	100	12 / 18	M6
BPG/RT/100150/AL	100	150	12 / 18	M6
BPG/RT/100200/AL	100	200	12 / 18	M6
BPG/RT/100250/AL	100	250	12 / 18	M6
BPG/RT/100300/AL	100	300	12 / 18	M6
BPG/RT/100400/AL	100	400	12 / 18	M6
BPG/RT/150150/AL	150	150	12 / 18	M6
BPG/RT/150200/AL	150	200	12 / 18	M6
BPG/RT/150250/AL	150	250	12 / 18	M6
BPG/RT/150300/AL	150	300	12 / 18	M6
BPG/RT/150400/AL	150	400	12 / 18	M6
BPG/RT/200200/AL	200	200	12 / 18	M6
BPG/RT/200250/AL	200	250	18	M6
BPG/RT/250300/AL	250	300	18	M6
BPG/RT/250400/AL	250	400	18	M6
BPG/RT/300300/AL	300	300	18	M6
BPG/RT/300400/AL	300	400	18	M6
BPG/RT/400400/AL	400	400	18	M6
BPG/RT/400500/AL	400	500	18	M6
BPG/RT/500500/AL	500	500	18	M6

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