

with Air Spring Isolators and Automatic Level Controller



LTH Isolated Tables, Granite Plate

Product Description

Adjustable feet, torsion proofed, welded steel frame, membrane air spring isolator BiAir® (vertical natural frequency approx. 2 Hz) between frame and granite plate, mechanical-pneumatic level control (level accuracy of $\pm 1/100$ mm or $\pm 1/10$ mm).

LTH = Granite plate

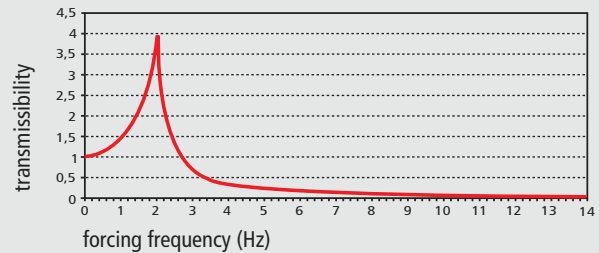
Range of Application

Vibration sensitive measuring and testing machines, laser, scales, optical and optoelectronic as well as medical equipment. The new LTH isolated table is used for all applications where vibrations or load changes may disturb the experiment or machine.

Technical

The BILZ model LTH isolated table is a vibration isolated workplace. Vibration of the surrounding area is isolated by high efficient membrane air springs. The level controller (mechanical-pneumatic valves) will maintain a level accuracy of $\pm 1/100$ mm or $\pm 1/10$ mm automatically even while the loading may change. An air regulator with water trap and air filter is included. As standard the isolated table is available in 3 different sizes. We are always pleased to fulfill custom made sizes and color. The work surface of the table can be delivered in granite (LTH).

Function of Transmissibility – Isolated Table



Standard Sizes

sizes	width	depth	granite thickness	height	max. loading capacity
LTH 60-50	600 mm	500 mm	100 mm	760 mm	250 kg
LTH 100-63	1000 mm	630 mm	100 mm	760 mm	320 kg
LTH 90-75	900 mm	750 mm	100 mm	760 mm	320 kg
LTH 100-80	1000 mm	800 mm	140 mm	760 mm	700 kg
LTH 100-100	1000 mm	1000 mm	160 mm	760 mm	750 kg
LTH 150-100	1500 mm	1000 mm	190 mm	760 mm	1800 kg
LTH 200-100	2000 mm	1000 mm	220 mm	760 mm	2800 kg



LTO-Optical laboratory tables



Basic set-up of an optical table model LTO

BILZ workstations are characterized by high end quality and functionality.

Product description:

Adjustable feet, torsion proofed, welded steel frame.
 - Membrane air spring isolators BiAir® between frame and table top. Other isolators on demand
 - mechanical-pneumatic positioner/controller (level accuracy of +/- 1/100 mm or +/- 1/10 mm)

Range of application

- set-up of optical laser systems, interferometer
 - special microscopy

Optical Table Top

HD steel honeycomb core with high natural damping, cover plate **without** thread insert
HDT steel honeycomb core with high natural damping, cover plate **with** thread insert

Description of construction

Cover plate: stainless steel 3 mm. Available magnetic or magnetic bloomed.

Base plate: steel plate 3 mm

Thread insert: M6 (HDT)

Core: (HD/T) steel honeycomb core with a 0.5 mm galvanized steel plate, precision formed, bonded with special resin.

Thread inserts: floating bedded thread inserts M6. No connection to the table core through closed sleeves. Adjustment of turnbuckles about 5 mm during simultaneous inclination of about +/- 3 degrees are possible. Max. depth of thread 30 mm

Optical workstations provide optimal damping and rigidity at a low weight.

The damping properties of the **BILZ LTO honeycomb lattice boards** have been optimized. High amplitudes at resonance, typically in high frequencies ranges, will be almost completely eliminated in the HD-series table by the high internal damping coefficient.

Standard Sizes LTO

sizes		LTO 60-50		LTO 90-60		LTO 120-60		LTO 150-90		LTO 200-100		LTO 240-120		LTO 300-150	
		width	depth	width	depth	width	depth	width	depth	width	depth	width	depth	width	depth
width		600 mm	900 mm	1200 mm	1500 mm	2000 mm	2400 mm	3000 mm							
depth		500 mm	600 mm	600 mm	900 mm	1000 mm	1200 mm	1500 mm							
table top thickness		100 mm	100 mm	100 mm	100 mm	200 mm	200 mm	300 mm							
height		760 mm	760 mm	760 mm	760 mm	760 mm	760 mm	760 mm							
max. loading capacity		150 kg	200 kg	300 kg	500 kg	500 kg	750 kg	750 kg							



○ LTH-S Isolated Tables / Special Models

Special dimensions:

It's possible to supply special dimensions, higher loads, stainless steel solutions or a high end solution with the BILZ AIS system. Available upon request.

Range of application

Vibration isolation of optical and optoelectronic working stations and small, high precision table top measuring instruments, e.g. roundness testers, gear measuring machines, surface measuring machines, etc.

General system properties

Vertical natural frequency: approx. 1.5 Hz

Horizontal natural frequency: approx. 2.5 Hz

- adjustable feet, caster wheels
- Torsion proofed, welded steel frame with integrated BiAir® air spring in the table leg
- BiAir® mechanical pneumatic level control (level accuracy of ± 0.01 mm) and a pneumatic service unit.



Zeiss roundness measuring machine