

VIBRATION-INSULATED TABLES

LABORATORY TABLES FOR THE INSULATION OF INTERFERING ENVIRONMENTAL VIBRATIONS FOR WORKING ON HIGHLY SENSITIVE EQUIPMENT.



All information about our vibration-insulated tables is also available on our website.

Our laboratory tables are vibration-insulated work places that can be used, for example, as microscope tables and are available with a hard stone (model LTH) or optical table top (model LTO).

Disturbing vibrations from the environment are insulated through highly effective membrane air spring insulators. At the same time, the mechanical-pneumatic level control ensures that the level ($\pm 1/10\text{mm}$ as standard or $\pm 1/100\text{mm}$ as an option) is retained even with load changes.

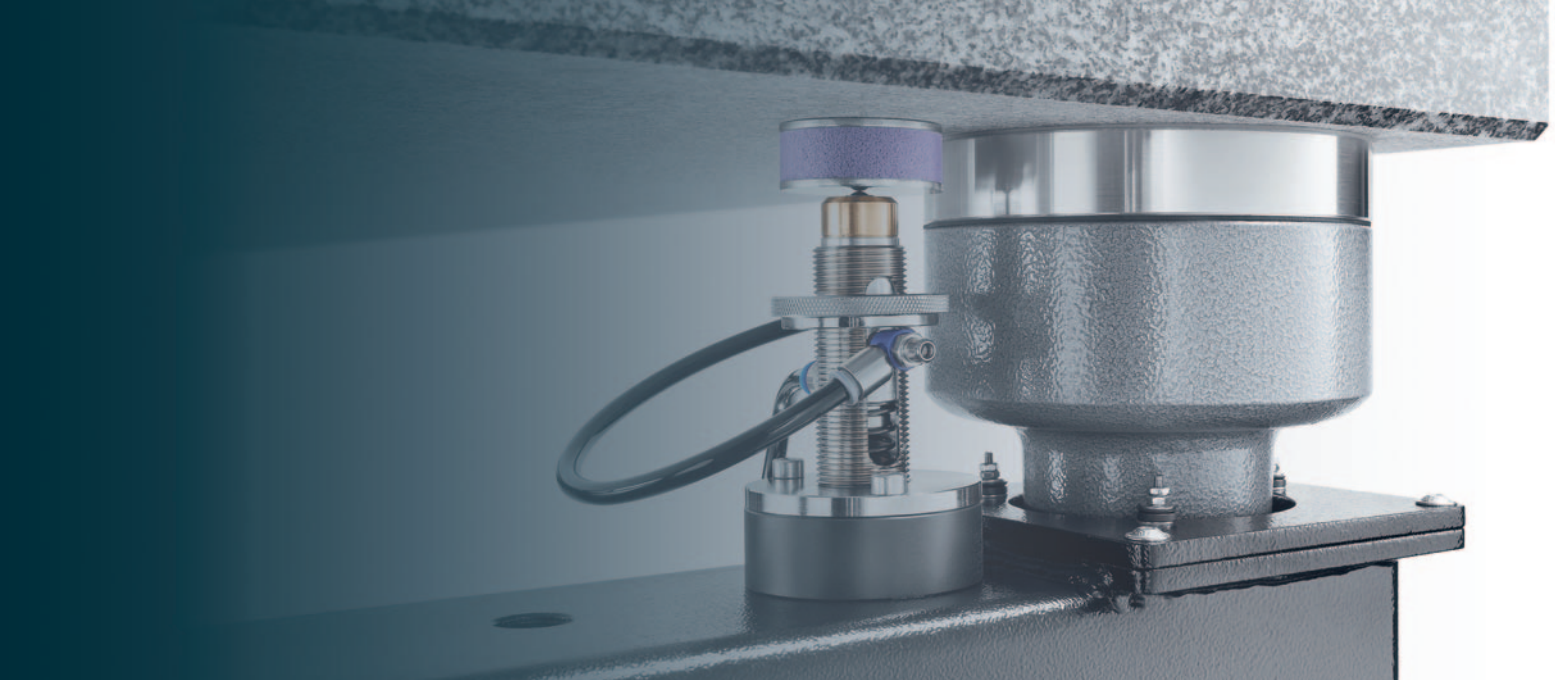
A maintenance unit is also included, which is connected upstream for compressed air conditioning.

NOTES

- LTH with hard stone as intrinsic solid base and additional mass for ideal vibration insulation
- LTO with optical pad for flexible attachment of attachments (e.g. optics)

TAILORED TO YOUR APPLICATIONS

Individual requirements vary greatly depending on the application, particularly in the area of laboratory tables. There is a wide range of possible special designs available in terms of dimensions, potential load-bearing capacities, materials, insulating efficiency and equipment.



Versions

Various underframes
in standard and special sizes

Protective
cover

Arm rests

Various materials (wood, metal)
and lacquering for:

- Doors
- Floor slab/intermediate floors
- Housing

Wooden pad:

- Various sizes
- Sections
- Rounded corners

Holders for
monitor, keyboard,
mouse, etc.

Rolls

Levelling elements

Profiles and brackets for
additional components

Lacquering in RAL colours

EXAMPLES FOR OPTIONAL EQUIPMENT:

- Special sizes
- Mechanical or electronic level control
- Membrane air springs or rubber air spring
- Insulator optionally integrated in the underframe hood bonnets
- Drawers
- Arm rests
- Holders for PC, monitor, keyboard etc.
- Additional holes/threads in tabletop or subframe
- Profiles and brackets for additional components
- Castors or levelling elements
- Various materials and finishes for doors, enclosure, shelves etc.

Please get in touch, we are happy to provide advice on the configuration of your tailor-made, vibration-isolated table.

LABORATORY TABLES WITH HARD STONE TOP

and membrane air springs for effective vibration insulation.

The Bilz laboratory tables LTH are extremely robust, resistant and vibration-insulated tables and work places with a massive hard stone pad. They are used in all applications where vibrations and/or changes in level are to be avoided to enable the measurement, experiment or work to be performed with the utmost precision.

LABORATORY TABLE LTH (HARD STONE) WITH BIAIR[®]-ED



Description

- Adjustable table feet.
- Rigid, welded steel subframe, powder-coated.
- BiAir[®]-ED membrane air spring insulators (**vertical natural frequency 2.5 - 3 Hz**) between subframe and table top.
- Mechanical-pneumatic level control systems (reset accuracy $\pm 1/10\text{mm}$ or $\pm 1/100\text{mm}$, depending on the valve used).
- Table top made from hard stone with a ground finish.
- Choice of colour according to customer requirements.

We specialise in custom solutions.

Please get in touch. We are always happy to offer our advice.

We also offer the following **standard sizes**:

Type	Item no.	Width mm	Depth mm	Thickness hard stone mm	Working height mm	max. load N
LTH 60-50	55-0011	600	500	100	760	2.500
LTH 80-60	55-0022	800	600	120	760	2.500
LTH 100-63	55-0007	1.000	630	100	760	3.200
LTH 90-75	55-0012	900	750	100	760	3.200
LTH 100-80	55-0008	1.000	800	140	760	7.000
LTH 100-100	55-0006	1.000	1.000	160	760	7.000
LTH 120-80	55-0021	1.200	800	160	760	7.000
LTH 150-100	55-0009	1.500	1.000	190	760	18.000
LTH 200-100	55-0010	2.000	1.000	220	760	28.000

Application area:

- Vibration-sensitive measuring and testing equipment
- Electronic devices
- Scales
- Medical

Colour: RAL 9005, deep black

LABORATORY TABLE LTH (HARD STONE) WITH BIAIR®-OC



Application area :

- As for laboratory table LTH with BiAIR-ED.
- Best suited for low dynamic applications requiring excellent insulation performance.

Colour: RAL 9005, deep black

Description

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

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We also offer the following **standard sizes**:

Type	Width mm	Depth mm	Thickness hard stone mm	Working height mm	max. load N
LTH 60-50-OC	600	500	100	760	2.500
LTH 80-60-OC	800	600	120	760	2.500
LTH 100-63-OC	1.000	630	100	760	3.200
LTH 90-75-OC	900	750	100	760	3.200
LTH 100-80-OC	1.000	800	140	760	7.000
LTH 100-100-OC	1.000	1.000	160	760	7.000
LTH 120-80-OC	1.200	800	160	760	7.000

LABORATORY TABLE LTH (HARD STONE) WITH BIAIR®-PAS



Application area :

- As for laboratory table LTH with BiAIR-ED.
- Ideally suited for applications with low dynamics and high requirements for vibration insulation, particularly in the horizontal plane.

Colour: RAL 9005, deep black

Description

- Adjustable table feet.
- Rigid, welded steel subframe, powder-coated.
- BiAir®-PAS membrane air spring insulators (**vertical natural frequency approx. 2 Hz, horizontal approx. 1.2 Hz**) between subframe and table top.
- Mechanical-pneumatic level control systems (reset accuracy $\pm 1/10\text{mm}$ or $\pm 1/100\text{mm}$, depending on the valve used).
- Table top made from hard stone with a ground finish.
- Choice of colour according to customer requirements.

We specialise in custom solutions.

Please get in touch. We are always happy to offer our advice.

We also offer the following **standard sizes**:

Type	Width mm	Depth mm	Thickness hard stone mm	Working height mm	max. load N
LTH 60-50-PAS	600	500	100	760	2.500
LTH 80-60-PAS	800	600	120	760	2.500
LTH 100-63-PAS	1.000	630	100	760	3.200
LTH 90-75-PAS	900	750	100	760	3.200
LTH 100-80-PAS	1.000	800	140	760	7.000
LTH 100-100-PAS	1.000	1.000	160	760	7.000
LTH 120-80-PAS	1.200	800	160	760	7.000

LABORATORY TABLES WITH OPTICAL PAD

and membrane air springs for effective vibration insulation.

Bilz optical work places are distinguished by their excellent quality and functionality. The honeycomb pads are optimised with regard to their insulation response so that the usually high resonance amplitude in the higher frequency range are attenuated by the tables in the HD/HDT model series by their inherent insulation.

- HD steel honeycomb core with high natural insulation, hood pad **without** thread insert
- HDT steel honeycomb core with high natural insulation, hood pad **with** thread inserts

LABORATORY TABLE LTO (OPTICAL PAD) WITH BIAIR®-ED



Application area:

- Vibration-sensitive measuring and testing equipment
- Optical and electronic devices
- Laser devices
- Electronic devices
- Scales
- Medical instruments

Colour: RAL 9005, deep black

Description

- Adjustable table feet.
- Rigid, welded steel subframe, powder-coated.
- BiAir®-ED membrane air spring insulators (**vertical natural frequency 2.5 - 3 Hz**) between subframe and table top.
- Mechanical-pneumatic level control systems (reset accuracy $\pm 1/10\text{mm}$ or $\pm 1/100\text{mm}$, depending on the valve used).
- Optical table tops:
 - HD steel honeycomb core with high natural insulation, hood pad without thread insert
 - HDT steel honeycomb core with high natural insulation, hood pad with thread inserts
 - Also available in a suitable clean room version with stainless steel base pad.
- Choice of colour according to customer requirements.

We specialise in custom solutions.

Please get in touch. We are always happy to offer our advice.

We also offer the following **standard sizes**:

Type	Width mm	Depth mm	Thickness mm	Working height mm	max. load N
LTO 90-75	900	750	100	760	2.000
LTO 120-60	1.200	600	100	760	3.000
LTO 150-90	1.500	900	100	760	5.000
LTO 200-100	2.000	1.000	200	760	5.000
LTO 240-120	2.400	1.200	200	760	7.500
LTO 300-150	3.000	1.500	300	760	7.500

LABORATORY TABLE LTO (OPTICAL PAD) WITH BIAIR®-OC



Application area:

- As for laboratory table LTO with BiAIR-ED.
- Best suited for low dynamic applications requiring excellent insulation performance.

Colour: RAL 9005, deep black

Description

- Adjustable table feet.
- Rigid, welded steel subframe, powder-coated.
- BiAir®-OC membrane air spring insulators (vertical natural frequency 2 Hz) between subframe and table top.
- Mechanical-pneumatic level control systems (reset accuracy $\pm 1/10\text{mm}$ or $\pm 1/100\text{mm}$, depending on the valve used).
- Optical table tops:
 - HD steel honeycomb core with high natural insulation, hood pad without thread insert
 - HDT steel honeycomb core with high natural insulation, hood pad with thread inserts
 - Also available in a suitable clean room version with stainless steel base pad.
- Choice of colour according to customer requirements.

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We also offer the following **standard sizes**:

Type	Width mm	Depth mm	Thickness mm	Working height mm	max. load N
LTO 90-75	900	750	100	760	2.000
LTO 120-60	1.200	600	100	760	3.000
LTO 150-90	1.500	900	100	760	5.000
LTO 200-100	2.000	1.000	200	760	5.000
LTO 240-120	2.400	1.200	200	760	7.500
LTO 300-150	3.000	1.500	300	760	7.500

LABORATORY TABLE LTO (OPTICAL PAD) WITH BIAIR®-PAS



Application area:

- As for laboratory table LTO with BiAIR-ED.
- Ideally suited for applications with low dynamics and high requirements for vibration insulation, particularly in the horizontal plane.

Colour: RAL 9005, deep black

Description

- Adjustable table feet.
- Rigid, welded steel subframe, powder-coated.
- BiAir®-PAS membrane air spring insulators (vertical natural frequency approx. 2 Hz, horizontal approx. 1.2 Hz) between subframe and table top.
- Mechanical-pneumatic level control systems (reset accuracy $\pm 1/10\text{mm}$ or $\pm 1/100\text{mm}$, depending on the valve used).
- Optical table tops:
 - HD steel honeycomb core with high natural insulation, hood pad without thread insert
 - HDT steel honeycomb core with high natural insulation, hood pad with thread inserts
 - Also available in a suitable clean room version with stainless steel base pad.
- Choice of colour according to customer requirements.

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We also offer the following **standard sizes**:

Typ	Width mm	Depth mm	Thickness mm	Working height mm	max. load N
LTO 90-75	900	750	100	760	2.000
LTO 120-60	1.200	600	100	760	3.000
LTO 150-90	1.500	900	100	760	5.000
LTO 200-100	2.000	1.000	200	760	5.000
LTO 240-120	2.400	1.200	200	760	7.500
LTO 300-150	3.000	1.500	300	760	7.500