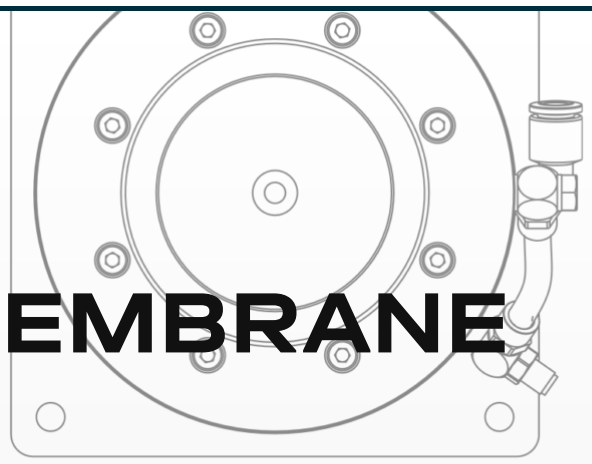
AIR SPRINGS (RUBBER AIR SPRINGS/MEMBRANE AIR SPRINGS)



Highly effective insulation of vibrations and structure-borne noise for a wide variety of machine types, optical and electronic devices, laser systems as well as vehicle,

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SIMPLY PUT

Low-frequency air springs from Bilz provide highly effective vibration isolation and can be combined with a variety of mechanical and electronic level control systems.
The damping level of the pneumatic and low-maintenance air springs can be adjusted as required.

SERIES FAEBI®

Rubber air spring insulator FAEBI®

Learn more →

SERIES FAEBI® IN STAINLESS STEEL

Rubber air spring insulator FAEBI® in stainless steel

Learn more →

SERIES FAEBI® HD

FAEBI®-HD series with adjustable damping

Learn more →

SERIES BIAIR®-ED-AL IN ANODISED ALUMINIUM

Low-frequency (vertical from 2.5 Hz) membrane air springs with precisely adjustable damping level for effective vibration isolation. Made of anodised aluminium especially for high demands on material properties.

Learn more →

SERIES BIAIR®-ED IN CAST ALUMINIUM

Low-frequency (vertical 2.5 Hz) membrane air springs with precisely adjustable damping level for effective vibration isolation. Made of cast aluminium, universally applicable.

Learn more →

SERIES BIAIR®-ED-HE IN CAST ALUMINIUM

Low-frequency (vertical 1.7 Hz) membrane air springs with precisely adjustable degree of damping for effective vibration isolation. Made of cast aluminium, universally applicable.

Learn more →

SERIES BIAIR®-ED-HE-MAX IN CAST ALUMINIUM

Low-frequency (vertical 1.2 Hz) membrane air springs with precisely adjustable degree of damping for effective vibration isolation. Made of cast aluminium, universally applicable.

Learn more →

AIR SPRINGS

GENERAL INFORMATION

The use of Bilz BiAir® air spring isolators with active level control constantly maintains the correct level of machines or foundations. The level control and adjustment is entirely automatic.
The pressure in the air springs is appropriately adjusted by pressurising or venting in response to load changes. This keeps the isolating effect constant in all events.

Unlike steel springs air springs do not transmit structure borne sound.

AIR SPRINGS

RUBBER AIR SPRING ISOLATORS FOR HIGHLY EFFECTIVE SHOCK AND VIBRATION ISOLATION

FAEBI® rubber air springs are used for the highly effective insulation of machines, apparatus and aggregates from shocks, vibrations and structure borne noise. The element comprises of a bellshaped rubber form made from high-grade elastomer.

The constructive design enables highly effective vibration isolation without the disadvantage of excessive horizontal deflection. Overloading of the element due to a sudden pressure drop is virtually impossible.

On request, the system is also available with **mechanical or electronic level control** (see "Accessories" section). The base plate is equipped with an anti-slip plate to eliminate the need for floor anchoring. The FAEBI® rubber air spring is also available in a stainless steel version for use in outdoor areas (e.g. air-conditioning technology).

APPLICATIONS FOR RUBBER SPRINGS

SHOCK AND VIBRATION ISOLATION WITH RUBBER AIR SPRINGS

AIR PRESSURE CONTROL

BILZ LEVEL CONTROL SYSTEMS

Air springs by Bilz for highly effective vibration isolation

Air spring (detail)

AIR SPRINGS

MEMBRANE AIR SPRINGS FOR EFFECTIVE VIBRATION DAMPING

With our **BiAir® air spring isolator**, the air volume is enclosed by a thin-walled, flexible and pressure-resistant rolling membrane. The piston sits on the membrane and is pressed into place by the air volume.

This design allows for **highly effective vibration isolation.**

APPLICATIONS FOR MEMBRANE AIR SPRINGS

HOW THE MEMBRANE AIR SPRINGS WORK

GENERAL INFORMATION REGARDING SELECTION AND APPLICATION OF OUR BIAIR® MEMBRANE AIR SPRINGS


We find solutions
Be it automotive, plant engineering or nanotechnology – we find a solution for every industry or any customer requirement.
Discover solutions