VIBRO/DYNAMICS

technologically advanced machinery mounting systems



Micro/Level® Isolators



MXL and BFM Series for Large Presses

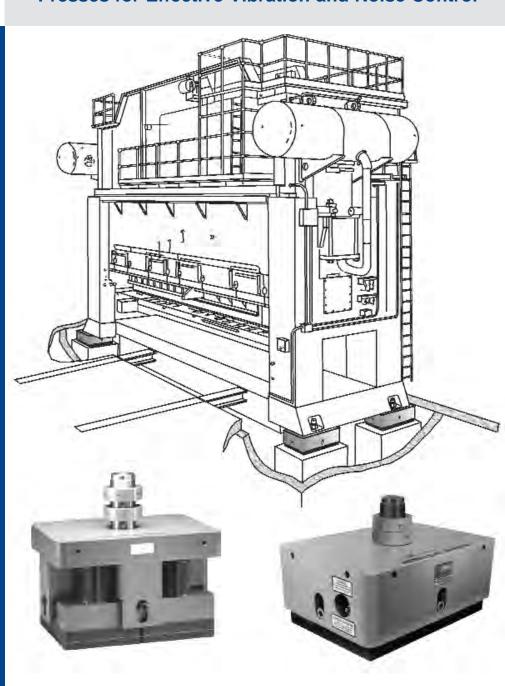
Your Best Way to Install and Level Heavy
Presses for Effective Vibration and Noise Control

MXL and BFM Series Micro/Level Isolators are designed for the free-standing installation of large Mechanical Presses, weighing from 34,000 to over 2.3 million kgs. (75,000 to 5 million pounds).

These Isolators are designed to provide the conditions necessary for a successful press installation:

- Precision leveling and alignment for increased tool and die life,
- Proper support for machine stability and no walking, and
- Vibration isolation for longer machine life and an improved working environment.

In addition, our HXL & HLM Series Isolators feature our patented Hydra/Level® System, making leveling and aligning even the heaviest presses faster and easier, especially when aligning presses that have rolling bolster rails.



H&O DIE SUPPLY, INC. 1-800-222-5441 sales@hodie.com

Features and Benefits (Based on Actual Case Histories)

Precision Leveling and Alignment

Ultra precise leveling adjustments can be made using the isolator's precision leveling screw. Actual Case Studies have shown that the *Benefits of Precision Leveling and Alignment are: Reduced Wear & Tear on the Machine; Increased Tool and Die Life; and Improved Part Accuracy and Repeatability.*

Proper Machine Support

Using the precision leveling capabilities of VIBRO/DYNAMICS' Isolators, a machine's support condition can be adjusted to mirror its weight distribution. *Benefits are Machine Stability, Reduced Machine Motion, and No Walking.*

Free-Standing Installation

VIBRO/DYNAMICS' Isolators do not bolt to the floor or foundation. *Benefits are Fast, Easy Installations; No Anchor Bolts, Shim Plates or Grout; Reduced Installation Time, and Plant Layout Flexibility.*

Vibration Control

Actual field tests showed that VIBRO/DYNAMICS' Isolators reduced vibration in a press structure by 82%, in the foundation by 98%, and reduced noise levels by 6.5 dB! Benefits are an Improved Working Environment for Personnel, Elimination of Neighbor Complaints, and Extended Life for Machine and Surrounding Equipment.

MXL and BFM Isolator Options

The Hydra/Level® System is a patented hydraulic lift-assist system available in the MXL & BFM Series Micro/Level® Isolators. Built-in hydraulic cylinders make leveling and aligning even the heaviest machines faster and easier, especially when aligning a transfer press with rolling bolster rails. No separate jacks or cribbing are necessary. Installation times

are typically reduced several days, resulting in significant savings.



1500 Ton Transfer Press

When the internal hydraulics are activated, the load on the precision leveling screw is reduced until it can be adjusted by hand. Precision leveling adjustments are made in this manner.

Lod/Sen™ is an optional Electronic Fine-Tuning (EFT) System available in both MXL and



Model F/T 410 Lod/Sen Analyzer with 9 Series Lod/Sen Isolator

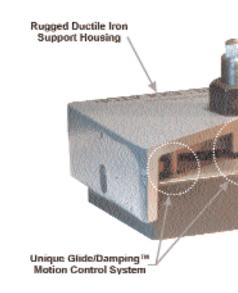
BFM Series Isolators. Electronic sensors within each isolator are connected to a Lod/Sen Analyzer to accurately determine a machine's support condition.

Easy-to-read graphical displays indicate which isolators to adjust, and how much to adjust them, for optimum machine support.

Ultra-precise leveling and support adjustments, without guesswork, result in an optimally supported, more productive machine.



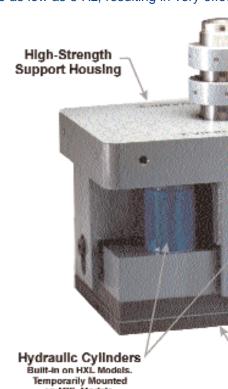
The BFA



The MXL &

This innovative *patented* design combinwith our popular Hydra/Level® hydraulic

By using multiple layers of elastomers, i be as low as 8 Hz, resulting in very effe

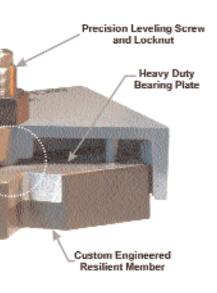


on MXL Models.

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1 Design

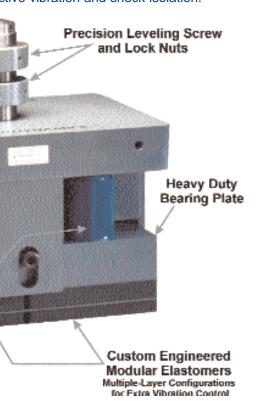




HXL Design

es multiple layer elastomer technology lift-assist feature.

solator dynamic natural frequencies can ctive vibration and shock isolation.





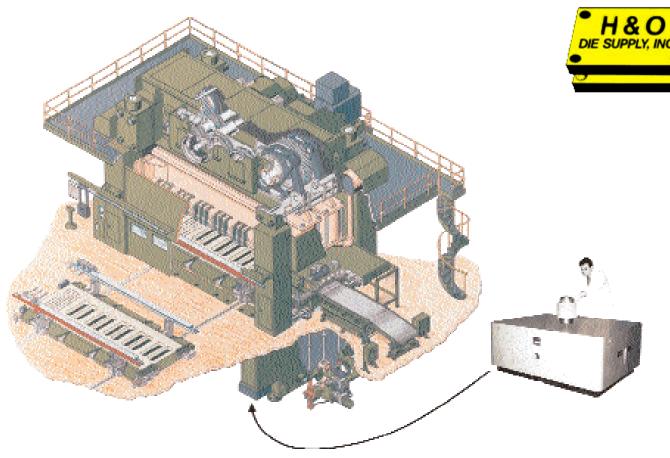


VIBRO/DYNAMICS

V

Custom Engineered Isolators for Optimum Performance

- MXL and BFM Series Isolators are available in over 84 different sizes with multiple models and load capacities.
- Our wide range of sizes and load capacities allows us to Custom-Engineer isolators for your machine that will provide the best combination of isolation effectiveness and machine stability.
- Proven durability -- large press installations in the field since 1970.
- VIBRO/DYNAMICS manufactures more than 10,000 different isolator models that include either elastomer or steel coil spring cushioning elements, and either vertical leveling screw or wedge type leveling systems.
- VIBRO/DYNAMICS offers a variety of Installation Advisory, Hydra/Level, Lod/Sen, and Engineering Services as well as on-site training.



A 3,000 Ton Transfer Press, weighing over 1,130 Metric Tons (2.5 million pounds), installed on four HLM Hydra/Level Isolators at a Big 3 Autobody Plant. (Pit mounted installation with the isolators below the floor line).

Typical Applications for MXL and BFM Series Micro/Level Isolators

- Punch Presses
- Progressive Die Presses
- Plastic Molding Machines
- Container Machinery

- Transfer Presses
- Forging Presses
- Die Casting Machines
- Floating Foundations

- Blanking Presses
- Hydraulic Presses
- Cold Headers
- Special Equipment

Technical Assistance

To assure the best installation, our application engineers will carefully analyze your particular application needs and recommend the proper isolator for the best installation.

Please give us a call, and we will be happy to assist you in your selection.

VIBRO/DYNAMICS Corporation

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