

# Installation Methods For Die Cast Machines

- **No Shims**
- **No Grout**
- **No Welding**
- **No Anchors**
- **No Buttresses**
- **No Walking**



**Wedge Style Mounts**



**Vertical Screw Style Isolators**

How much do you think about the installation of your die cast machines? You recognize that the machine needs to be level and aligned for maximum performance, but you may not know that it is not necessary to hard mount these machines.

Vibro/Dynamics Isolators save time, money, and headaches because they are free-standing. There is no need for shims, welding, anchor bolts, or grouting. They also feature a unique, built-in Glide/Damping™ action. This provides a small degree of lateral freedom, allowing a machine to move slightly when acted on by horizontal forces, and then return to its home position without walking. This Patented Feature allows the frame to move as a rigid body due to the inertia forces caused by the opening and closing of the die or from an emergency stop. Comparative tests on plastic injection molding machines, which generate operational horizontal energy similar to die cast machines, have shown that mounting systems with Glide/Damping show as much as a 50% decrease in distortion of the stationary platen.

How do you measure the value of installing die cast machines on free-standing isolators versus anchoring them permanently to a foundation? In addition to the up front rigging/leveling savings, estimated to be upward of \$2500 on a large machine, the savings is realized again each time the machine is relocated.

Vibro/Dynamics makes a full range of machinery mounting systems for hundreds of industrial applications. Our products are designed to make machine installation faster and easier, and to increase uptime and profitability by maintaining proper machine alignment, extending die and mold life, and keeping machines level and properly supported.

#### 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.

## Huge Installation Savings seen at Keeler Die Cast!

Keeler Die Cast of Grand Rapids, MI, USA, has many die cast machines, most in the 200 - 600 ton range. They first used Vibro/Dynamics Micro/Level<sup>®</sup> Isolators in 1986. Before that, they had shimmed, tack welded the shims to steel beams, then anchor bolted everything together.

“Due to the nature of our manufacturing process, we have always been extremely exacting with our machine installation process”, says Dale Vandenberg, Maintenance Supervisor at Keeler. “We have the fastest cycling machines of anyone around.”

“At first, I was completely skeptical. I was sure the machines would walk all over the place. Now, I don’t hesitate to put any of our machines on Vibro/Dynamics isolators”, says Vandenberg. “The biggest savings we have seen using Vibro/Dynamics is that installation time has been cut 60 to 75 percent as compared to the old method,” says Dale.

Keeler also feels that the machines are in much better shape because Vibro/Dynamics Glide/Damping™ action virtually eliminates flexing in the machine frame. “The machines seem to work in a more stress-free condition”, according to Vandenberg.

According to a local rigger who has worked at Keeler Die Cast, a typical leveling of a 600 ton die cast machine took 4 trained millwrights about 5 hours. Using isolators, the same installation is typically done in under an hour. Along with the time savings, there are NO SHIMS, NO WELDING, NO ANCHOR BOLTS, AND NO GROUT!!

#### VIBRO/DYNAMICS LLC

2443 Braga Drive

Broadview, IL 60155-3941

E-Mail: [vibro@vibrodynamics.com](mailto:vibro@vibrodynamics.com)

Web site: [www.vibrodynamics.com](http://www.vibrodynamics.com)

Telephone 708-345-2050

Toll-Free in USA 1-800-842-7668

Fax 708-345-2225

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