



VIBRO/DYNAMICS

technologically advanced machinery mounting systems

Your Best Way to Install and Level
Industrial Machinery for Effective
Control of Vibration, Shock and Noise

**Machinery
Mounting News**
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What's Happening?




Vibro/Dynamics is on the Web!

We've made it easier for you to submit a request for quotation or learn more about our products. Check out the case histories on line and see for yourself how others have saved time and money on machine installations.

Visit us at www.vibrodynamics.com, and you'll find application and product information, and request for quotation forms so you can e-mail your requests to us.

Workshops are available

We conduct workshops on the following subjects:

-  Press Installation
-  Injection Molding Machine Installation
-  Machine Tool Installation

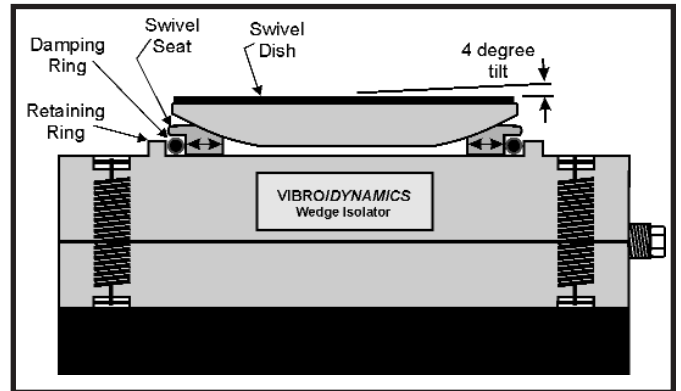
Other topics are available too! Call us toll-free 1-800-842-7668 for more information.

Focus on: Wedge Isolators

Vibro/Dynamics manufactures a variety of machinery mounting systems to fit almost any industrial machinery application. We believe that the only way to guarantee long-term performance is by matching isolators to each machine's operating characteristics. Some machines can not use traditional vertical leveling screw-type isolators, because the machine's mounting holes are too small or are non-existent. Our Wedge Isolators are designed with a side-adjust leveling screw which makes it easy to adjust up or down with the turn of a wrench.



Wedge isolators are available in many sizes and configurations.



Close up of the Glide/Ring damper on a wedge isolator

In addition, our wedge isolators are available with our unique Glide/Ring™ damper which is designed to dissipate horizontal forces that cause some machines to walk. The Glide/Ring damper's built-in swivel automatically adjusts for an out-of-parallel condition between your foundation and the bottom of the machine feet for improved machine support and isolator performance.

Do you have a machine without mounting holes, or with holes that are difficult to reach?

For more information or a free quotation, call 1-800-842-7668.

Heavy stamping in an industrial park -- how to stop neighbor complaints

Like many metal stampers, Jade Corporation, in Southampton, Pennsylvania, is located in an industrial park. One of their biggest and most profitable jobs involved blanking 0.188" cold rolled steel at about 30 - 35 SPM on a 400 ton press.

The press was installed on a neoprene rubber pad on an 18" thick foundation, and was located less than 30 feet from one of their neighbors. This 280 ton job generated a lot of complaints from the neighbor, so square holes were cut in the rubber pads in an attempt to reduce the transmitted vibration. Unfortunately, this did little to ease the neighbor's annoyance.

The original pad supplier conducted a vibration study which concluded that the vibration would have to be reduced by 80% to achieve ambient levels measured at the neighbor's doorway. While looking for a permanent solution, Jade tried two temporary fixes: first, they ran the press at a reduced speed, less than 10 SPM. Second, they occasionally ran the job in a press that was technically overloaded, but was farther away from the neighbor. Meanwhile, they requisitioned an isolated foundation as the long-term solution.

We were contacted for help and recommended a timely and permanent solution to alleviate the neighbor's discomfort. To begin with, we custom-engineered a viscously damped, coil spring isolator for maximum isolation (model number SVS14904). We also recommended that the press be reinstalled on outrigger channels to spread the front-to-back mounting points to twice their original span, resulting in reduced rocking motion. Past experience told us that an isolated foundation would not rectify the severe vibration transmission problem.



Press installation at Jade Corporation in Southampton, Pennsylvania



Close-up of the outrigger, press foot, and isolator

The press was reinstalled on the SVS14904 isolators and the outrigger beams. Extensive tests were taken to compare vibration levels of the "old" and "new" installations. The tests showed, when running at 20 SPM, a 97% reduction of peak acceleration on the foundation for the "new" installation versus the "old". Additionally, the SVS14904 installation achieved better than 95% reduction in peak acceleration running at 30 SPM, compared with the rubber pad installation running at 20 SPM.

Since reinstallation on Vibro/Dynamics isolators, the press has been running at capacity and the industrial park is peaceful once again.

Having trouble with an installation? We can help!
Call toll free 1-800-842-7668 or visit us at
www.vibrodynamics.com

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