



### Press Stamps at Night, Neighbor Sleeps Tight

Tests prove superior vibration isolation by Vibro/Dynamics Isolators vs. felt pads

We received a call from Acro Industries of Rochester, New York because they received a call from a neighbor living directly behind their plant.

Acro Industries was located in a light industrial zoned area and was busy stamping out stainless steel parts on a 500-ton straight-side press. Their neighbor was located about 150 feet away in his home and was busy trying to relax, eat, and sleep. See the conflict?

With more and more residential areas popping up near manufacturing plants, there are more and more conflicts. Vibration can travel easily through soil and disturb nearby homes or even other equipment in nearby manufacturing plants.

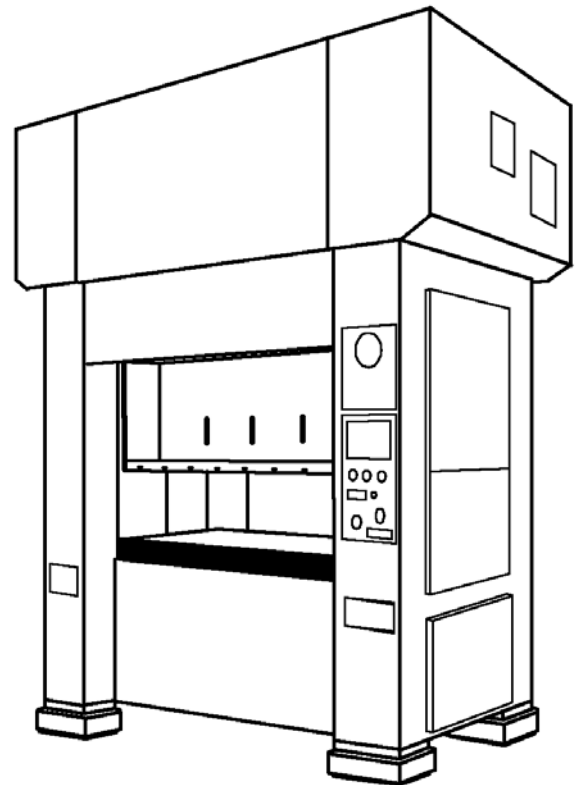
This is a scenario we've seen over and over again. But it's also one we've been able to solve over and over again.

By the time Acro Industries contacted us for help to reduce the transmitted vibration, they had already received a summons from the police restricting them from operating the press during nighttime shifts. Only operating the press during daylight hours was a definite production problem. And all these problems occurred with 1" thick felt pads under the press feet.

To handle the problem, we provided shock and vibration isolation mounts based on the specific operating characteristics of the press. We were also asked to measure the vibration before and after the press was reinstalled on our isolators. This would establish to the local authorities the extent to which Acro Industries reduced the vibration.

Measurements of the foundation vibration response near the press feet and inside the home were made with the press installed on the existing 1" thick felt pads with anchor bolts. The press was later installed and precisely leveled on the Micro/Level® Isolators. Then, with the same die and material, and duplicate operating conditions, the press was again run while vibration measurements were made in the same locations.

The purpose of the procedure was to measure and compare the vibration acceleration response of the press foundation and also at the neighbor's home due to each impact of the press for the press installed on the existing 1" thick felt pads versus the isolators. This testing procedure would also determine the effectiveness of the isolators in reducing the vibration relative to the felt pads.



Vibro/Dynamics' Isolators can save you money by providing precision leveling, proper support, and vibration control.

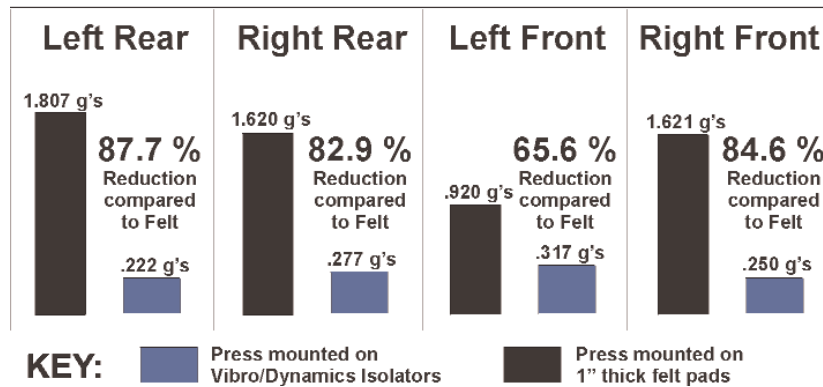


## VIBRO/DYNAMICS

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The results of the press foundation readings are shown in the illustration on the reverse side. The test results show that the isolators effectively reduced the foundation vibration acceleration from 66% to 88% compared with the felt pads. What the illustration doesn't show is that the results were just as excellent at the neighbor's home. The isolators effectively reduced the vibration acceleration in the home on the first floor support beams by 82%.

Comparisons of Peak Vibration from a 500 Ton Press



But the most important results were that the neighbor couldn't tell when the press was running and eventually Acro Industries could again run their presses 24 hours a day, seven days a week. And with the neighbors taken care of, Acro Industries also realized they had eliminated problems inspecting parts in their quality lab because of the reduced vibration.

The legal battle is now a thing of the past and both parties can go about their business. The neighbor can relax, eat, and sleep in the peace of his own home and Acro Industries can continue their business of stamping parts day and night.

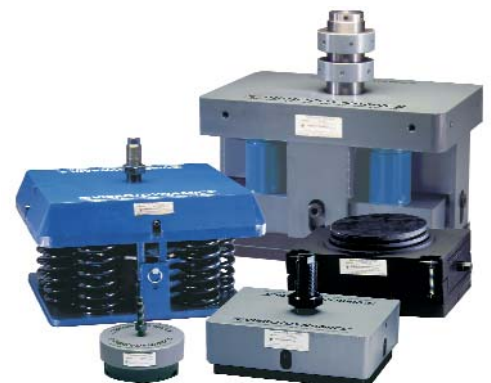
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[www.vibroynamics.com](http://www.vibroynamics.com)**

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.

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