

Airloc Application News...

AirLoc Wedgmounds® with Hi Damping Pads reduce severe shock on 300 ton press

Recently AirLoc's representative, Stamping Concepts, Greenville, SC, contacted AirLoc describing severe shock and noise problems with a 300 ton press at United Tool & Stamping in Fayetteville, NC. Mr. Ervin Ellis, Maintenance Manager at U.T. & S. was contacted to investigate. Vibration data was gathered by AirLoc which confirmed that the forces were indeed severe. Not only were measurements on the press foot extremely high but the floor levels were almost as high. Existing felt pads under the feet, rather than isolating, were in fact *allowing a transmission of over 80% of the press energy.*

AirLoc's recommendation was twofold:

1. AirLoc proposed a set of custom AirLoc 450 VRC Wedgmounds® with attachment bolts located to fit the press foot and with 2" of 700 Series High Damping Pad. The benefits were a significant degree of isolation, negligible increase in floor space and ability to precisely raise and level the press without the usual hydraulic jacks.
2. Due to the extreme floor movement, a suggestion was also made to have cores taken in the floor and to consider pressure grouting to more fully support the floor.

The results were outstanding! While stamping the same part, subsequent vibration measurements documented the dramatic improvement, with the floor averaging only about a fifth of the previous energy levels. In addition to the significant reduction in transmitted shock to the floor, the press "ringing" (the main contributor to the high reflected noise levels) was reduced by approximately 50%. Needless to say, Mr. Ellis was very pleased with his investment!



Original pads



AirLoc Isolation Mounts

For more information on AirLoc Wedgmounds® or other AirLoc products, contact our headquarters in Franklin, MA or your regional AirLoc Representative