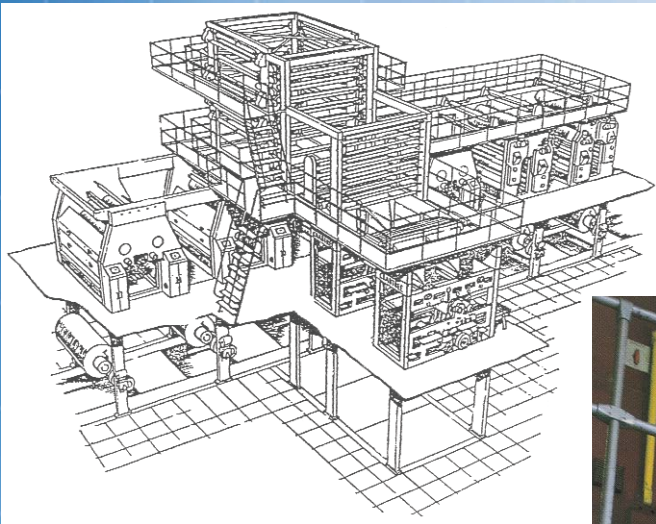


Vibration Isolation for Newspaper and Printing Press Applications



Typical Applications:

- *Press Floors and Walls*
- *Transfer Pits*
- *Press and Reel Rooms*
- *Press Columns*
- *Press Room Floor Framing Beams*
- *Isolation between all Metal-to-Metal Connections*

Since 1937, Fabreeka® International has designed vibration solutions for newspaper and printing press plants. In today's newspaper publishing environment, the press room is typically located near or next to the hub of activity. The additional benefit of vibration isolation and noise abatement contributes to the well being of all personnel.



Newspaper and Printing Press Installations

With the demand for higher quality and volume, newsprint plants are changing to machines with greater speeds to provide them with the competitive edge. Higher speed, rotary offset presses, with standard operating production speeds of 1400-1800 rpm, produce vibration problems that are transmitted through the building structure. This negatively affects the quality of the print and the environment of the workers.

A critical requirement for printing presses is alignment and tram. Print plants typically have between six and eight presses, but larger plants could have up to 50 presses in operation. Synchronization of many presses could cause vibration at a structural resonant frequency that could be extremely damaging to the building and to the workers. A rotating offset press can produce noise in excess of 105 dB of sound.

The frequency levels of vibration produced from letterpress or web offset presses may be either high or low frequency. They produce a disturbing frequency which resonates and causes less than perfect print images.

Most print plants are designed with presses on the second and third floor levels and with the paper feed on the ground floor. This creates a severe vibration at these floor levels, which must be reduced to an acceptable range.

Fabreeka® pads address all of these problems with their ability to isolate and attenuate shock and vibration while providing stability and minimum deflection under heavy load.

Vibration test results have shown that Fabreeka® pads have reduced high frequency vibrations by as much as 80% in critical press applications.

For low frequency vibrations, Fabreeka® pads prevent resonance associated with machine operations. Energy is dissipated as much as 25-50% during each cycle, with the result that the vibration is efficiently damped through energy transfer in the form of heat, through hysteresis.

Both high and low frequency vibrations are isolated by the 90 durometer Fabreeka® pads, which are stiff enough to remain stable, helping to maintain press alignment and tram.

Fabreeka® Engineers can provide Vibration Measurement and Analysis services to determine the source and level of vibrations and recommend solutions for proposed or existing print plant installations.

It is for these reasons that press manufacturers, architectural and structural engineers specify Fabreeka® pads for building and press support.

An alternate and preferable method for isolating presses is to support and isolate the entire foundation on isolators. This enables the use of "softer" isolators, which provide greater isolation while remaining stable and level due to the large support foundation.

Fabreeka® Engineers can assist in the design and analysis of the support foundation with complete construction drawings.

For more information on this or any Fabreeka® application, please visit our website or contact one of our sales and service facilities worldwide.

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