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Technical bulletin

Vibration Limitation for Trendsetters

If there is a concern about excessive vibration near the Trendsetter® installation position, Creo recommends that the customer hire a third-party contractor to proceed with a full measurement of the vibration characteristics at that location.

This measurement should be done to determine the amount of shock acceleration in the frequency range of 30 to 150 Hz that could be transmitted to the Trendsetter engine. Some guidelines[1] for results are:

- A result of less than 1 to 2 mg would be on the safe side.
- A result of more than 12 to 15 mg would probably cause some image artifacts (in the form of a couple of vertical hair lines 50.8 to 76.2 mm (2 to 3 in.) in the image).
- A result between 1 to 2 mg and 12 to 15 mg would require further testing.

Normal industrial operations at a site (for example, a lift truck dropping a 200-pound load on the floor with dropping speed of 1 foot/sec) on a concrete ground level floor cause 1 to 1.5 mg shock. However, on a second floor or higher, it might be as high as 5 to 30 mg depending on the type of building.

The vibration spectrum results obtained through proper measurement should be sent back to Creo Vancouver Output Devices Product Development for analysis and comments.

[1] Lab analyses were done with an accelerometer probe with sensitivity of 1000 mV/g (for example, Kistler® PiezoBeam® accelerometer, Model 8628B5). The analyzer was set to a range of 0 to 200 Hz (x-axis) and 0 to 10 mg (y-axis).

About Creo

Creo is a world leader in solutions for the graphic arts industry. Core product lines include image capture systems; inkjet proofers; thermal imaging devices for films, plates, and proofs; professional color and copydot scanning systems; workflow management software; and proofing and printing consumables. Creo is also an original equipment manufacture supplier of on-press imaging technology, components for digital presses, and color servers for high-speed, print-on-demand digital printers. Creo trades under the symbols CREO on NASDAQ and CRE on the Toronto Stock Exchange. www.creo.com

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