

Vibration study

For smoother, better and more cost-effective machine line runnability

Vibration studies include specific studies for rebuilds, troubleshooting and condition monitoring. The aim of these studies is to reveal and eliminate sources of vibration, to determine the potential for increasing speed, and to predictively keep the machine running stably.

Benefits

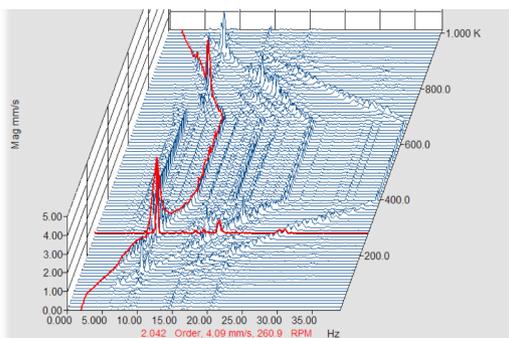
- Ensures vibration-free runs after rebuilds
- Evaluates the feasibility of speed increases
- Helps to find the right corrective measures to improve quality
- Predicts future mechanical problems
- Reduces maintenance costs and unexpected shutdowns



Tangible savings from reduced risks

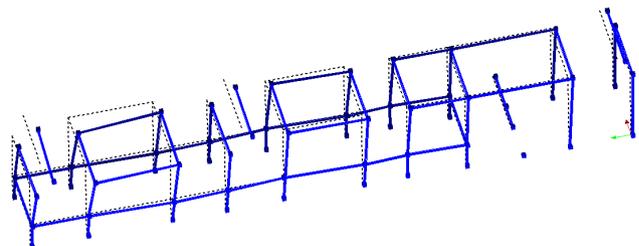
Vibrations in machine equipment can lead to severe problems in the paper- and board-making process, as well as limiting the efficiency of the machinery. Vibration is also a safety hazard. By combining mathematical analysis and vibration measurements, a vibration study checks the mechanical condition and dynamic behavior of frames, cylinders, rolls and other components at the current production speed and evaluates their usability at the target speeds.

Valmet can conduct vibration studies in any section of the machine, from stock preparation to finishing. Measurements and investigations are carried out while the machine is running or during a shutdown, depending on the case.



Paper sample analysis includes

- For rebuilds
 - Evaluates the dynamic behavior and mechanical condition of the machine and the consequences at current or increased speeds
 - Benefit: ensures smooth operation after rebuilds
- For troubleshooting
 - Identifies sources of vibration with a detrimental effect on the machinery and paper or board quality
 - Benefit: helps to identify the right corrective measures
- For condition monitoring
 - Regular measuring of bearings
 - Benefit: helps avoid unplanned shutdowns as part of predictive maintenance



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valmet.com/solutionfinder, e-mail: paper.service@valmet.com
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