



PRUFTECHNIK Establishes New Calibration Laboratory for Vibration Sensors

Bavarian Expert for Condition Monitoring Systems Raises Quality to the Next Level

ISMANNING – January 30, 2018 – Worlds meet in the new calibration laboratory of PRUFTECHNIK Condition Monitoring in Ismaning: Seven tons of concrete and 600 kilograms of granite form the foundation for the calibration of vibration sensors with an average weight of just 50 grams each. Using two state-of-the-art calibration systems, it is now possible to calibrate PRUFTECHNIK vibration sensors far beyond the standard limits to ensure reliable readings for a long period of time from factory calibration as well as after re-calibration.

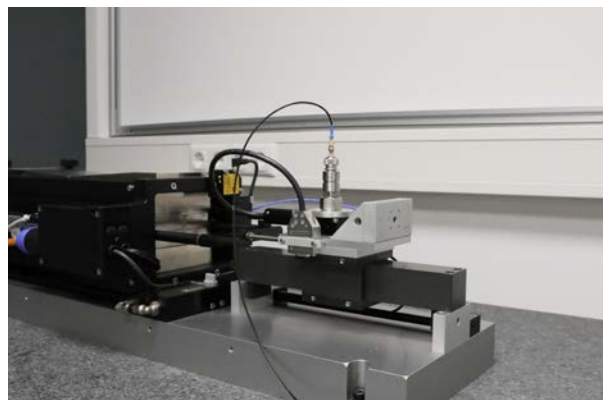
The largest treasures of PRUFTECHNIK Condition Monitoring are literally located in the basement. In addition to the PARALIGN® and alignment laser calibration laboratory, a completely new calibration laboratory was set up for Condition Monitoring vibration sensors. Two state-of-the-art shakers on a solid concrete-granite foundation enable the calibration of in-house PRUFTECHNIK vibration sensors. Both new high-frequency shakers generate vibrations in the ranges of 0 to 200 Hertz and 5 to 50.000 Hertz. With that, the analysis and calibration possibilities exceed far beyond the limits of requested standards and measuring tolerances.

Especially in R&D (*Research & Development*), PRUFTECHNIK now has new capabilities to calibrate vibration sensors even more precisely and to develop even more meaningful measuring results. The calibration measurement per sensor just takes a minute. This provides an enormous advantage of saving factory calibration time during volume production. Beyond that, end-to-end calibrations will be possible in the future. Thus, the vibration sensor is calibrated directly using a connected measuring device (e.g., VIBXPERT II).

Thanks to the high weight of the base of 7.6 tons and decoupling of this foundation from the remainder of the building, faulty measurements caused by building vibrations (e.g., caused by employees in the building) are excluded. Extremely suppressed interference sources, such as the adjacent road or train track, are considered in the measurement, however, they do not have any influence on the respective measuring result.

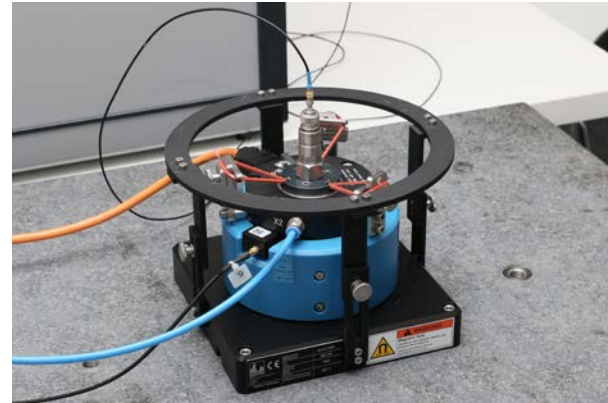


Both shakers are installed on more than seven tons of concrete and granite to calibrate Condition Monitoring vibration sensors with a weight of approx. 50 grams. In the background: high computation power for fastest possible analysis.



Frequencies between 0 and 200 Hz can be realized in the low frequency range. The calibration is completed in a few seconds.

It took roughly one year from the initial idea to establish and complete the new calibration laboratory. In the meantime, the calibration laboratory is fully functional and is extensively used for research and production of PRUFTECHNIK vibration sensors.



Vibrations between 5 Hz and 50 kHz are generated on this test bench.

About PRUFTECHNIK:

PRUFTECHNIK is a worldwide provider of maintenance technology with a wide product, service, and training program tailored to the needs of maintenance experts in the areas of shaft alignment, vibration analysis, condition monitoring, and destruction-free testing. Many manufacturing companies worldwide trust our solutions for reliable and condition-based maintenance of rotating machines.

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