• Analyze the cause of Vibration
• Improve the machine condition by fine balancing the rotor
• Increase plant availability.
• Vibration under control even at varying speeds.
High machine vibrations

High machine vibration is an undesirable phenomenon. It not only affects the product quality but also operational safety as well as reduce the component life. Unbalance is the most common cause of increased vibration. Usually we find unbalance on blowers, fans, couplings, pulleys etc. Our goal is to limit stresses generated due to unbalance.

The service and diagnostic specialists at PRUFTECHNIK can identify and quickly eliminate unbalances, even under challenging conditions, for example with VIBXPERT® II. Unbalances and the balancing results are automatically compared with the evaluation standards for the balancing state of rotating, rigid bodies, DIN ISO 21940.

The frequency spectrums for abnormalities are measured and evaluated before executing balancing. As, it only makes sense to balance when the rotational frequency in spectrum is dominating. All results are also documented in a measurement reports as per customer request.

Does in-situ balancing consume more time?

The measuring itself only takes a few minutes. Most of the time is needed to start up and shut down the machines, let the machines stabilize, set balance weights and add on the rotor and cleaning deposits on the rotor. Specialists need a maximum of four balancing runs.