• Continuous measurement over longer time periods with remote access
• Up to 5 dB noise reduction thanks to measures on the housing
• Up to 7 dB noise reduction thanks to modifications to the gearing, rotors and to the housing
• Reductions in excess of 10 dB require secondary sound shielding or a soundproof enclosure

PRUFTECHNIK Service Center

Measuring the noise level of machines remotely and online to purposefully reduce noise
What is to be noted in relation to acoustic values?
Noise data is not definite. Emission and immission levels are defined differently and appropriate measurement technology and knowledge are required. Noises occur on the machine for which the cause is unknown or because production of such noises was heightened due to an increase in speed.

Frequently asked questions
What noise levels are affecting the system and what are the causes? Does the machine conform to the state-of-the-art? What are appropriate active and passive sound reduction measures? How high are the exposure levels?

How is noise measured?
PRUFTECHNIK conducts acceptance measurements for both noise emission and noise immission using category 1 measurement technology and compares the results against the state-of-the-art and against statutory requirements. A special feature of PRUFTECHNIK’s solution is that measurements can be taken remotely over the course of complete working days and weeks. Should the need arise, a search for suitable noise reduction measures is carried out and a recommendation is made.

A real-life measurement example
Resident of a wind turbine had complained about the noise being too loud. PRUFTECHNIK was commissioned to measure the noise pollution and to search for the cause of the noise. From both the third octave and narrow band spectra it was possible to identify the tooth mesh frequency in the gear output stage as the dominant source of the noise. A wear pattern displacement and loose bearing seat were detected during a wear pattern inspection. This is how the cause of the noise was found and corrective measures were recommended.