

WIND TURBINE GEARBOX TESTING

AVOID COSTLY DOWNTIME



MINIMIZE FAILURE, WARRANTY ISSUES AND SERVICING

Thoroughly test gearboxes in development, evaluation and production phases

RAPIDLY PERFORM DETAILED DIAGNOSIS

Keep flexible, on-site troubleshooting systems available in the operational environment

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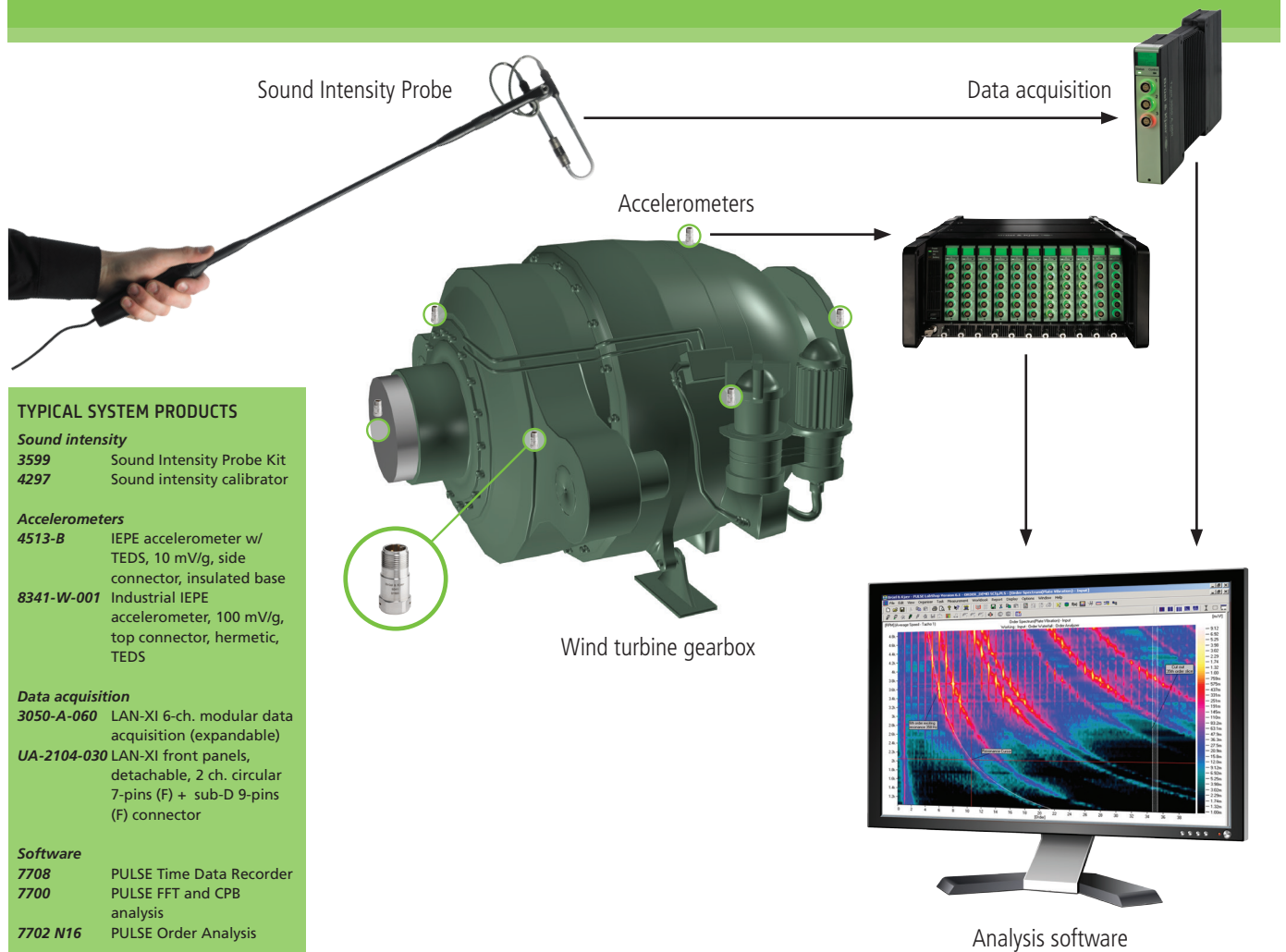
Repairing or replacing a wind turbine gearbox is a costly exercise compounded by an expensive loss of energy output. Failure, warranty issues and servicing can be Minimized by thoroughly analysing the sound and vibration of each gearbox.

Brüel & Kjær's configurable gearbox test system consists of acoustic or vibration transducers, a data acquisition front-end, and analysis software. A variety of analyses can be applied during research, development and production,

including FFT Analysis, CPB Analysis, Order Analysis, Noise Source Identification, Operating Deflection Shapes and Operational Modal Analysis, to isolate inefficient or flawed parts, and analyse design effectiveness.

This rugged and portable solution can also be used under operational conditions. With Brüel & Kjær's gearbox test system at hand, you can ensure quick and precise fault diagnosis in the field as issues arise.

POSSIBLE SYSTEM SETUP FOR WIND TURBINE GEARBOX TESTING



TYPICAL SYSTEM PRODUCTS

Sound intensity

3599 Sound Intensity Probe Kit
4297 Sound intensity calibrator

Accelerometers

4513-B IEPE accelerometer w/ TEDS, 10 mV/g, side connector, insulated base
8341-W-001 Industrial IEPE accelerometer, 100 mV/g, top connector, hermetic, TEDS

Data acquisition

3050-A-060 LAN-XI 6-ch. modular data acquisition (expandable)
UA-2104-030 LAN-XI front panels, detachable, 2 ch. circular 7-pins (F) + sub-D 9-pins (F) connector

Software

7708 PULSE Time Data Recorder
7700 PULSE FFT and CPB analysis
7702 N16 PULSE Order Analysis