

# ULTRASOUND ASSISTED LUBRICATION BASICS

3 Ways to Incorporate Ultrasound into Bearing Lubrication

**CHOOSE YOUR PATH TO LUBRICATION EFFICIENCY**

When a bearing lacks proper lubrication, damaging friction can occur. Ultrasound Assisted Lubrication allows inspectors to prevent over and under lubrication of bearings. While greasing, the inspectors watch the decibel levels of the bearing. If too much grease is added, decibel levels will slowly start to increase. If a bearing needs grease, dB levels will gradually fall as grease is added, eventually down to a more normal or baseline level.

No matter what your plant's circumstances, there are lubrication programs where ultrasound can be added that can improve your facility's preventative maintenance (PM) practices.



GOOD	BETTER	BEST
 <p>When timed based lubrication is the only option, use equipment run time and calculate the amount of grease to apply.</p>	 <p>Use ultrasound equipment and software to create routes, establish baselines, lack of lubrication alarms, and a more critical high alarm.</p>	 <p>Enable Proactive Bearing Management to optimize the frequency, quantity and quality of your bearing lubrication practices and to avoid failures before they begin.</p>
 <p>Use a Grease Caddy for lubrication PM's to let the lubrication know when enough grease has been added.</p>	 <p>Collect data on a routine basis including dB levels and sound file recordings. Trend the dB over time.</p>	 <p>Adopt the required technology to make it easy for maintenance staff to remotely monitor bearing condition and perform lubrication tasks from anywhere at anytime.</p>
 <p>Usage of ultrasound instruments may also lead to the discovery of other problems and adjustments to lube PM's.</p>	 <p>Use ultrasound equipment to apply lubricant once the lack of lubrication alarm has been reached. Apply lubricant until dB falls to the baseline level.</p>	 <p>Automate your lubrication workflow to save time and improve work performance through automated condition-based bearing lubrication.</p>

**THERE ARE ULTRASOUND INSTRUMENTS AVAILABLE FOR WHATEVER STAGE YOUR LUBRICATION PROGRAM MAY BE IN.** From high-end instruments that store data,trend, set baselines and alarm levels, to more cost effective and easier to use instruments that lubricators can use to let them know when they have applied enough grease, an option is available that allows any plant to benefit from ultrasound assisted lubrication solutions.

**SOURCES:** UE Systems, Ultrasound Assisted Lubrication; UE Systems, Ultrasound Assisted Lubrication...From Time-Base to Condition-Based