



**ZUDAK
SOLUTIONS**

"Reliability Empowered"

Engineering & Field Services Vibration Analysis



A quick, non-destructive way to gauge equipment health

Our 3-step approach (identify, prepare, execute) enable us to offer two options: the Hybrid Solution - you collect the data, we analyze and report it; or the Outsourced Solution - we collect, analyze, and report it.

Common issues visualized:

- Soft-footing
- Structural cracks
- Structural looseness
- Imbalance of rotating equipment
- Ineffective damping
- Equipment Misalignment
- Early indication of equipment failures
- Early signs of bearing defects propagation

Our approach:

- Identify and qualify vibration monitoring candidate-assets based on enterprise criticality.
- Build assets database, routes and machine configurations.
- Establish vibration targets based on industries best practices.
- Provide training to your team on proper data collection techniques (for in-house collection)
- Provide detailed vibration report documenting equipment trends/patterns, interpretation, and actionable recommendations.
- Review report one-on-one with plant reliability and/or management team

Captured benefits:

- Improved maintenance planning
- Increased productive capacity of equipment
- Minimized unplanned maintenance downtime
- Extend equipment life and efficiency
- First-Time-Right equipment commissioning
- Reduce on-site safety risk and worker exposure