

**ZUDAK  
SOLUTIONS***"Reliability Empowered"*

# Engineering & Field Services Motion Amplification®



## Leveraging the forefront of technology

Measure, visualize, and quantify vibration related issues pertaining (but not limited to) to rotating assets and structures. All accomplished without placing a single sensor on the equipment.

## Common issues visualized:

- Structural Cracks
- Structural looseness/soft footing
- Imbalance of rotating equipment
- Ineffective damping
- Equipment Misalignment
- Drive transmission faults, couplings, belts, chains, cardan shafts

## Our approach:

- Learn about current issues and opportunities relevant to equipment of interest.
- Coordinate Motion Amplification study during opportune operating time.
- Record video footage and conduct motion amplification to detect problematic areas.
- Analyze inspection results and compare with existing monitoring data to identify trends.
- Provide detailed engineering report documenting wear patterns (photos), interpretation, recommendations and return on investment.
- Review report one-on-one with plant reliability and management team

## Captured benefits:

- Visualize effectively root cause problem
- Communicate to management team with ease
- Assess issues using 2.3M contactless sensors
- Extend equipment life and efficiency
- First-Time-Right equipment commissioning
- Reduce on-site safety risk and worker exposure