

Field Technical Services (FTS)

Motion amplification

Sulzer Field Technical Services provides on-site expert support to assist customers in solving their rotating equipment problems. Whether it be pump performance, vibration problems, poor mean time between repairs (MTBR), bad actors or system issues, Sulzer FTS has the engineers, experience and expertise to identify the root cause and recommend corrective action.

Sulzer Pump Services has many service centers strategically located in North America that specialize in pump, turbomachinery and motor repair. These service centers exist to support Sulzer's customers and can carry out FTS' recommended corrective action.

Motion amplification

Sulzer FTS include a Motion Amplification™ system to solve customer's complex vibration problems and help identify unseen motions/vibrations. RDI's Motion Amplification™ enables us to assess critical manufacturing operations, processes and structural components that affect plant reliability and productivity. Motion Amplification™ is a revolutionary technology that detects subtle motion and amplifies that motion to a level visible with the naked eye. Every pixel becomes a sensor creating millions of measurement locations in an instant.

This technology platform can provide real-time video information to aid in decision-making relative to solving vibration problems. The Motion Amplification™ software produces an easy to understand amplified video of the vibration motion of the equipment which will lead to solutions to the problem. Videos can be produced within seconds of data collection. In other words, it saves time and money.



- 24/7 support and strategically located in North America
- Great root cause troubleshooting tool
- Quick and effective alternative to traditional ODS



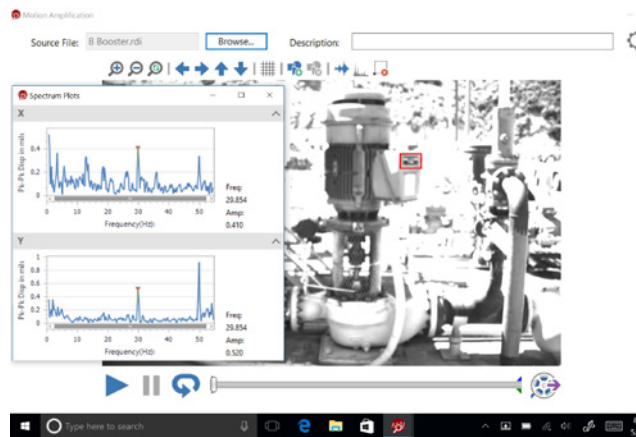
Operation

By pointing the camera at the vibrating equipment and recording video data, the FTS engineer then pushes a button to amplify the true motion of the entire field of view. Then by drawing a 'box' anywhere in the image to measure the displacement (or velocity) vibration, a time waveform and frequency spectrum can be generated. This can be done without adding costly sensors or spending days modeling the equipment.

Benefits

- Quick and effective alternative to traditional ODS
- Great root cause troubleshooting tool
- Creates a time waveform and frequency spectrum anywhere in the image
- Completely non-contact solution
- Acquires data during normal operations
- Software provides instant results for fast, efficient and powerful data

Sulzer's experienced field service teams offer expert support on site, while the local service centers that are equipped with modern repair facilities will ensure any downtime is minimized. Contact our expert to learn more.



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