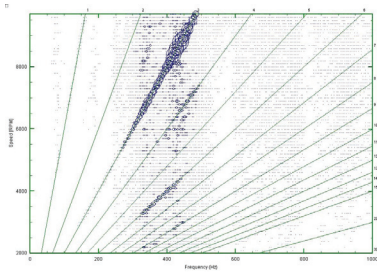# Rotating Machinery Analysis

Seamlessly analyse data in the time, order & angle domains
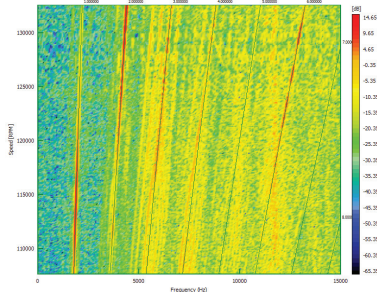

The DATS Rotating Machinery option contains a complete set of tools for analyzing the sources of vibration and noise caused by cyclic forces such as those found in engines, motors, shafts, gearboxes and wheel excitation.

Prosig acquisition software has additional realtime displays for use with Rotating Machinery Analysis.
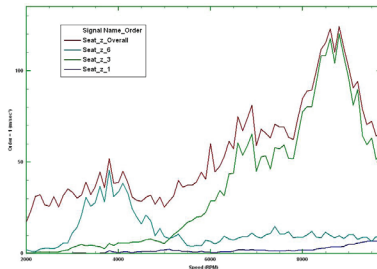
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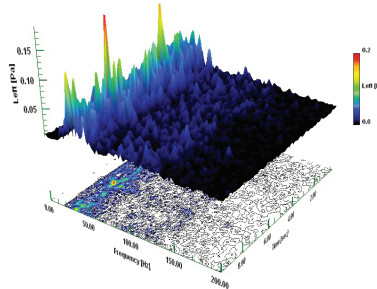
Prosig acquisition software has additional realtime displays for use with Rotating Machinery Analysis.

The Time Sampled analysis enables a user to carry out classical waterfall analysis, producing frequency spectra related to the speed of rotation. It includes comprehensive tacho conditioning software. The software allows waterfalls and orders to be visualized in many ways. Band-pass filtering and envelope analysis can be carried out for bearing analysis.

Various synchronous analyses can be used to view the data in the order domain. In particular a discrete Fourier transform (DFT) can be used to extract orders directly. Data which has been sampled using a fixed time sample rate can be resampled using the tacho as the synchronous marker, so that the same number of samples are generated for each cycle.

Find out more about Rotating Machinery Analysis at
prosig.com/dats/optroma.html

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youtube.com/user/TheProsig

Rotating Machinery Analysis
Features

- **Waterfall analysis**
- **Order waterfall analysis**
- **Tacho/speed signal processing**
- **Order extraction**
- **ASD/CSD in order domain**
- **A, B, C & D weighting factors**
- **Waterfall averaging**

- **Angular vibration of shaft**
- **Shaft twist**
- **Torsional vibration**
- **Cycle average**
- **Cycle statistics**

Contact Prosig

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