

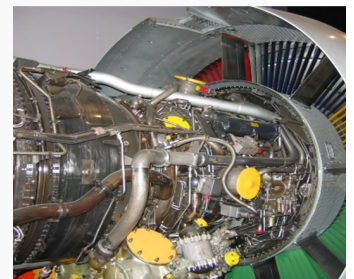
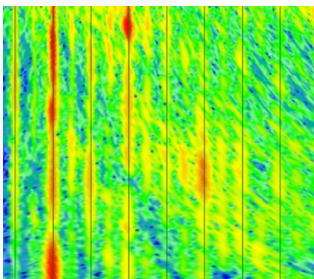
- **Real-Time Diagnostic Power**
- **Comprehensive Analysis Toolkit**
- **Advanced Visualization**
- **Focused Bearing Analysis**
- **Streamlined Usability**



Unlock Peak Performance in Rotating Machinery

Introducing DATS-Rotating Machinery Analysis—Your Comprehensive Solution for Vibration and Noise Diagnostics

Elevate your machinery diagnostics with the DATS-Rotating Machinery Analysis option. This comprehensive toolkit seamlessly integrates with Prosig for real-time displays, enabling Waterfall and Time Sampled analyses that pinpoint vibration and noise in engines and gearboxes. Additional features like tacho conditioning and band-pass filtering make this a must-have for engineers focused on maximizing performance and reliability.



NVH/Refinement Measurement Analysis

Unlock Peak Performance in Rotating Machinery: Elevate Your Diagnostics with DATS-Rotating Machinery Analysis

Take your rotating machinery analytics to the next level with the DATS-Rotating Machinery Analysis suite. Designed for professionals in demanding sectors like automotive, aerospace, and industrial engineering, our software package delivers an unmatched range of specialized features for both vibration and noise diagnostics.

Precision with Time-Sampled Data: Achieve meticulous analysis using time-sampled data to generate average waterfalls and gain insights from speed signals directly from your tachometer.

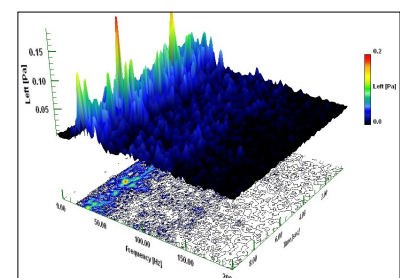
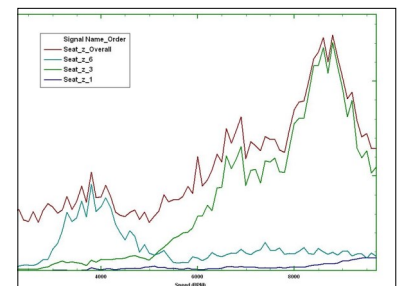
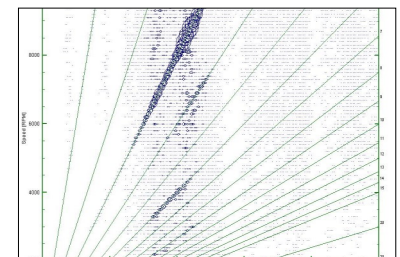
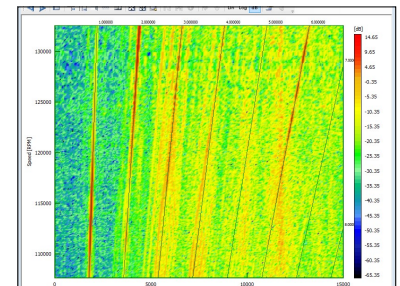
Advanced Order Extraction & Visualization: From generating waterfalls with or without phase to utilizing equalization order filters, our software offers multiple avenues for detailed order extraction and visualization.

Comprehensive Tacho Analysis: Leverage an array of tachometer-centric features like Angular Vibration from Tachometer, Tachometer Crossing Times, and various speed metrics like Average Period Speeds and Interpolated Speeds for in-depth understanding and troubleshooting.

Robust Synchronous Data Tools: Opt for synchronous sampling to enable features like Order Waterfall with Phase, Average Cycle Calculation, and various spectral density options including Auto and Cross Spectral Density.

Multi-Faceted Frequency Domain Tools: Benefit from a diverse array of frequency domain analysis options like DFT, FFT, and Zoom Transfer Functions, as well as advanced time-frequency analyses like Born-Jordan, Wigner Ville, and Wavelet Transforms.

Engineered for ease-of-use without compromising on capability, the DATS-Rotating Machinery Analysis suite is your comprehensive solution for maximizing machinery efficiency, enhancing reliability, and contributing to operational excellence.



Time Sampled Data

Average Waterfalls
Speed Signal from Tachometer
Extract Orders and Overall Level
Generate Waterfall
Generate Waterfall with phase
Equalisation Order Filter

Advanced Tacho Analysis

Angular Vibration from Tachometer
Tachometer Crossing times
Tachometer Ideal Equivalent
Tachometer to time periods
Raw Speeds
Average period Speeds
Smooth Curve Fitted Speeds
Interpolated Speeds
Tachometer Crossing Checks

Synchronously Sampled Data

Angular Vibration of Shaft
Asynchronous to Synchronous
Order Waterfall
Order Waterfall with Phase
Synchronous Orders
Calculate Average Cycle
Calculate Cycle Statistics
Tachometer Synthesis

Order Domain Data Analysis

Auto Spectral Density
Cross Spectral Density
DFT
FFT
Multiple Spectrum RMS Level
Spectrum Level
Spectrum RMS Over Order Range

Transfer Function
Zoom Transfer
Zoom Auto Spectral Density
Zoom Cross Spectral Density
Time Frequency Analysis
Born-Jordan
Wigner Ville
Zhao Atlas Marks
Mother Wavelet Generation
Wavelet Transforms

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