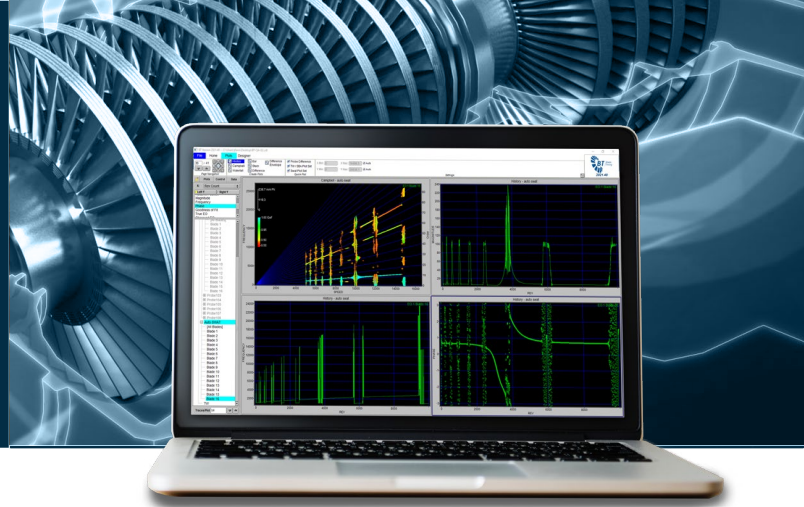# BT Blade Timing

BT is a data analysis software product for post-processing tip timing data from laser-based and capacitance-based tip timing systems (also known as NSMS).

Post-Processing Blade Vibration Analysis for tip-timing data

- BT supports industry standard *.ind formatted files and APEX *.cdt formatted files. Most commercial tip timing data acquisition products will export to *.ind, or create *.cdt files natively so you can start using BT right away!

- APEX BT was created using processing algorithms developed at the Arnold Engineering Develepment Complex (AEDC). AEDC tests leading edge military engines.

- Analysis routines include TWA (Travelling Wave Analysis) for non-integral vibration and SWAT (Sine Wave Analysis Technique) for integral vibration analysis.

- Import data into APEX DX Offline Analysis Software for advanced analysis. Analyze stain gage and tip timing data simultaneously!

- BT features Analysis Token Licensing model! Access the features you need from a pool of tokens hosted online.
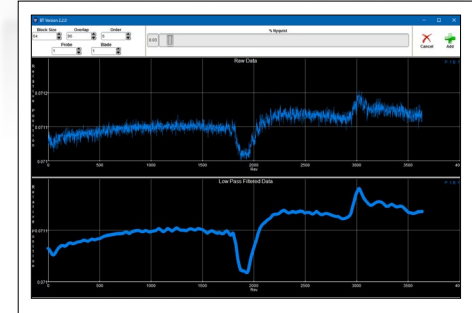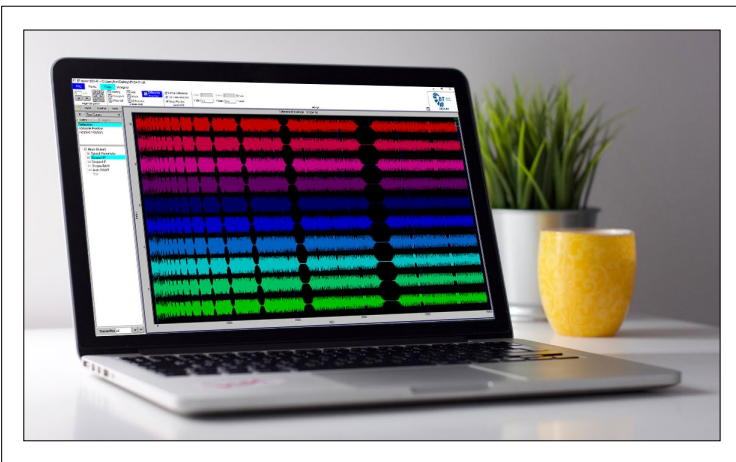

Interactive Filtering Tools
Low-pass & high-pass filtering and zeroing for preprocessing raw data files.
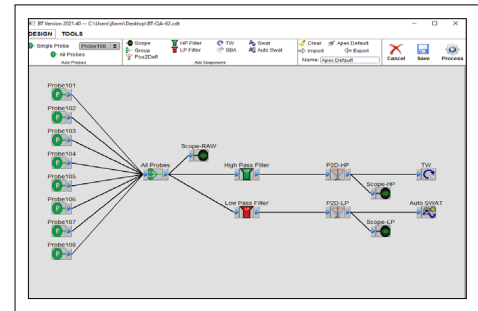
Process Data in Multiple Ways AT THE SAME TIME!
Utilize the same process design tool used in APEX DX Offline Aanalysis Software.

BT was designed to analyze a lot of tip timing data quickly
Analysis processes can be stored and reused so you can be sure your data is analyzed the same way every time. BT does all the filtering, zeroing, and analysis in parallel saving you time and effort during the analysis process.
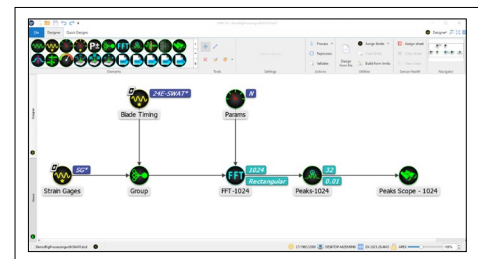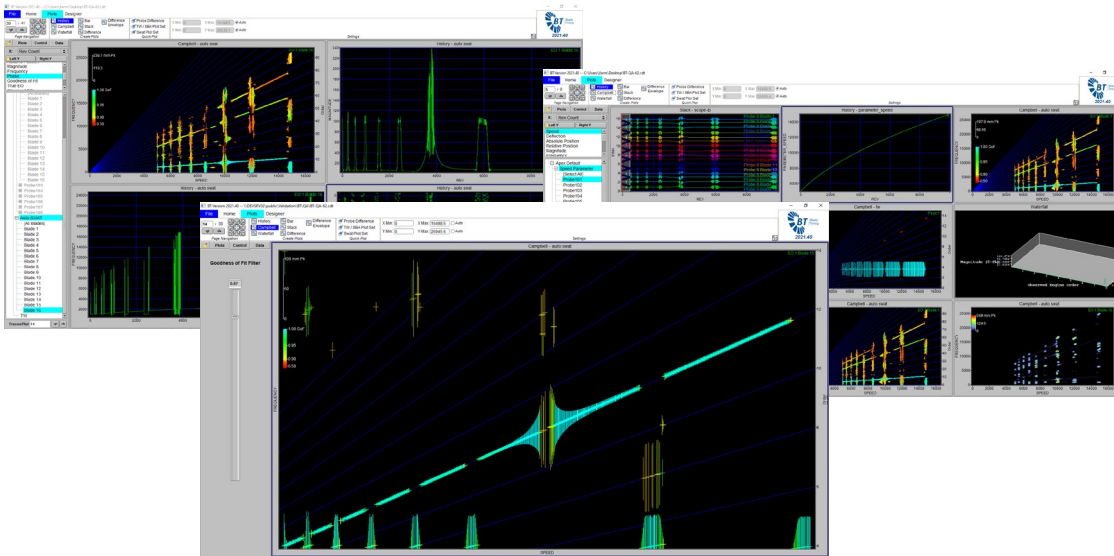

Advanced Analysis in APEX DX!

COMPLETE BLADE ANALYSIS
RELIABLE, REPEATABLE, ACCURATE!

BT *Blade Timing*

One-click, Quick Plots Provide Complete Analysis of Each Blade Instantly!

Detailed Blade Vibration Analysis

Insure analysis results are valid by color coding Campbell plot data by "Goodness of Fit". Quickly create page layouts with various kinds of plots in a variety of page layouts.
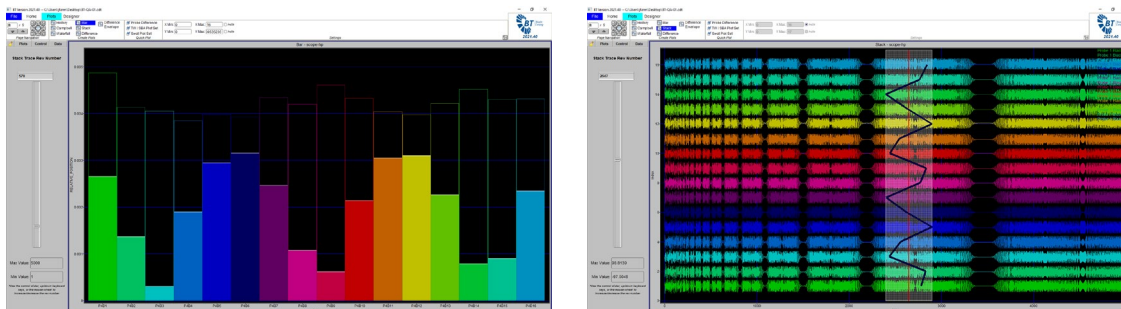
Interactively View Blade Stack Data

View blade stacks from any or all probes and even compare all revs at the same time! Use the slider or mouse wheel to effortlessly browse through vertical blade stacks for all revs.

Processing Elements

P — Probe

Probe Group

HP — High-Pass Filter

LP — Low-Pass Filter

Single Blade Analysis

SWAT Technique

AUTO-SWAT Technique

Traveling Wave Technique

Detrending Analysis

Scope

APEX Turbine®
Testing Technologies

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