



# VIBWORKS MULTICHANNEL ANALYZER: MASTERING MACHINERY DYNAMICS

## INTRODUCING OUR MULTICHANNEL ANALYZER:

A state-of-the-art solution meticulously designed to illuminate and decipher the complex dynamics of machinery.

Engineered specifically for Expertise Jobs, VibWorks ANALYZER presents a range of versatile channel options, including 4, 8, 16, or 32 channels,

Meticulously crafted to minimize machine shutdowns while maximizing data capture efficiency.

Embark on a journey of unparalleled insight as you delve into cross-channel analysis and Frequency Response Functions, seamlessly uncovering nuanced details with unmatched precision and efficiency.



### Expertise Tools Menu



Impact  
Test



A.R.M.A



Orbit  
Analysis



Absolute  
CH Phase



Cross  
CH Phase



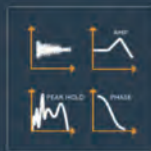
Envelope  
Detection



Sound  
Monitoring



Advanced  
Monitoring

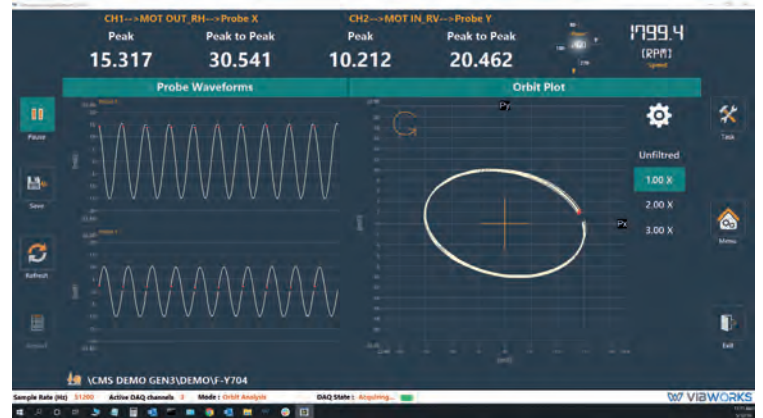


Coastdown  
Test

## A.R.M.A

An advanced signal processing technique redefining Frequency Response Functions without the need for an impact hammer.

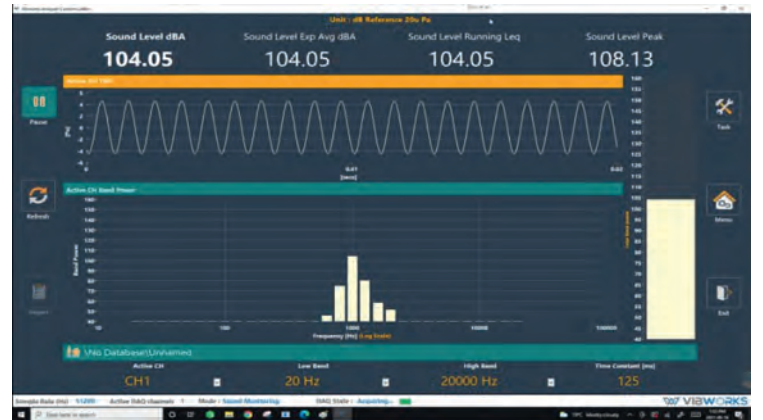
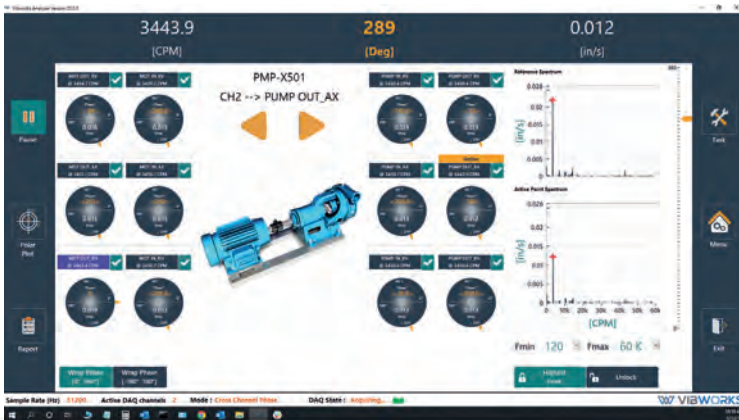
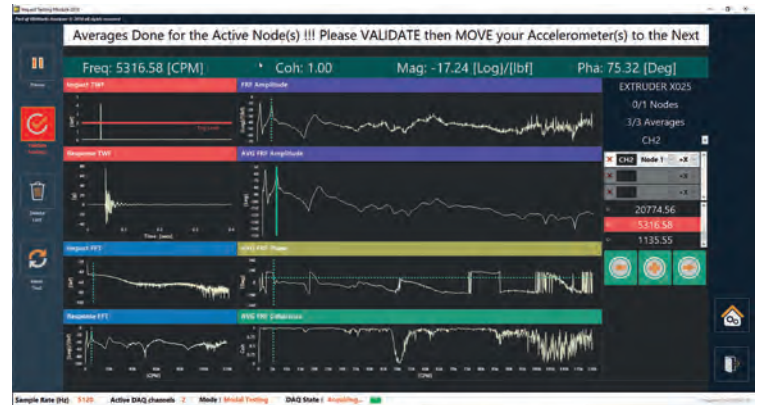
Unlike traditional methods like FFT, A.R.M.A delves deeper, decomposing all components of the transfer function to provide cleaner FRFs, including stability coefficients and natural frequencies with corresponding damping ratios.



## APPLICATIONS

VibWorks Multi-channel Analyzer exemplifies BETA VIB's commitment to simplicity and power. Detect subtle changes in machine vibration and analyze dynamic behavior with ease.

Explore Cross Phase analysis, deduce deflection shapes, and extract natural frequencies and damping ratios using FRF algorithms. With channel options ranging from 4 to 32, and compatibility with various sensors, the possibilities are endless.



## OPTIMAL EXPERTISE JOBS

OPTIMAL EXPERTISE JOBS VibWorks Analyzer equips you with expertise tools tailored to your needs, fully compatible with BETA VIB SUITE Hardware.



## ADVANCED SIGNAL

Signal processing techniques embedded within our Multichannel analyzers help investigate structural dynamic behaviors, combined to a smart and programmable data logger for more flexibility, and for more complex App, see our "WavStorm" solution.