CONDITION MONITORING SOLUTIONS

VibWorks COLLECTOR

How fast we are
5 seconds per point (3 Axis) are enough to analyze machines running at conventional speeds (Around 1800 CPM).

TAKE THE RIGHT DECISION
When you have the right tool at your disposal you can increase assets uptime, protect your investments and maintain economic operations.

VibWorks U.H.D.M

Increase Efficiency
Ultra HD Monitoring is a unique feature offering simultaneously the widest range of tools. On 40" to 60" 4K (4096px) display for unmatched monitoring efficiency.

Gain Productivity
Thanks to its revolutionary acquisition process, route acquisition is 5 to 10 times faster than any other conventional collector WITHOUT ANY LOSS of Data.

Improve Performance
Create databases for your assets, kinematic parameters, assign analysis configurations, machines and routes, take readings, perform a complete analysis and generate reports. Using our ClickOnce™ technology.

Time Traveler
After taking measurements you can change your analysis configuration, VibWorks will reprocess old vibration data and reconstruct machine history, you have the right to make mistakes and/or change your mind.

VibWorks DAQ Lite

Easier Visualization of machinery state with Real-time over-all indicators color-coded tanks according to alarms

Advanced Analysis Ability to perform real-time analysis on raw data coming from the sensor.

Higher accuracy with real-time waveform, customizable velocity and acceleration spectrum.

VibWorks SERVER

UP-TO-DATE INFORMATION ENTERPRISE WIDE.

VibWorks Server Transforms your Collector into an OCA (Occasionally Connected App.), Allowing you to access all the databases while off-line in the field, and sync the data with a central DB and/or with other users while online. This means you can generate reports, analyze data and perform all your daily tasks even when you are offline.

VibWorks ANALYZER

Designed for Expertise Jobs, VibWorks ANALYZER comes in 4, 8, 16, or 32 channels, with less machine shutdowns.

VibWorks ANALYZER is fully loaded with all the essential tools to perform a proper expertise and is scalable according to your needs. The product is entirely compatible with BETAVIB SUITE Hardware (Balancing and Collector).

ADVANCED SIGNAL PROCESSING: All the tools required to investigate structural dynamic behavior are embedded within VibWorks ANALYZER as well as Long-time data Logger for post-processing.

APPLICATIONS: VibWorks ANALYZER is the perfect example to emphasize how BETAVIB's vision is reflected on our solutions interfaces: interaction is clean and simple while providing more power on demand whenever it's needed.

AUTO REGRESSIVE MOVING AVERAGES is an advanced signal processing technique embedded in VibWorks ANALYZER and used to perform Frequency Response Functions (FRF) without an impact hammer.

REAL TIME ANALYZER: Multichannels functions will provide you with a better understanding of your machines' dynamic behaviour, deflection modes can be deducted using cross channel phase analysis.

VibWorks BALANCER

VibWorks Balancer is an add-on module to the BETAVIB Suite. Running on the same hardware platform as the VibWorks Collector and Analyzer. Like all BETAVIB products, VW Balancer comes with user-friendly interface, simple yet powerful.

Single Shot VibWorks Balancer will save shaft sensitivities coefficients, future balancing of machinery are made with a single shot measurement without a trial run.

Dynamic Vectors Real-time phase stability is indicated on polar graphs during measurements, to ensure proper balancing conditions.

Report Generation Balancing reports are generated automatically and available in several universal formats (PDF, Doc, HTML...).

CORTEX MONITORING SYSTEM

Central DB and Visualization tools

Real Time monitoring Analysis, Assets overview

Data Explorer, trends and archive

CMS-0x16 / CMS-0x32

Standard, off the shelf permanent monitoring solution allowing multiplexed measurements from accelerometers and proximity probes. Vibration is routed in real time to dynamic dashboard from the sensors and local signal processing is performed to insure proper and safe operating conditions.

A real time assets viewer will help locate the status of each monitored point.

Recording can be triggered with programmable timers, and/or with RPM counters (2 counters available). 8 output voltage channels are available to share valuable information like alarm crossing/network malfunction... with other systems.

Autonomous analysis and data logging to prevent network failures

Maximum autonomy with onboard decision

ONBOARD STORAGE

ARCHITECTURE

CMS comes:
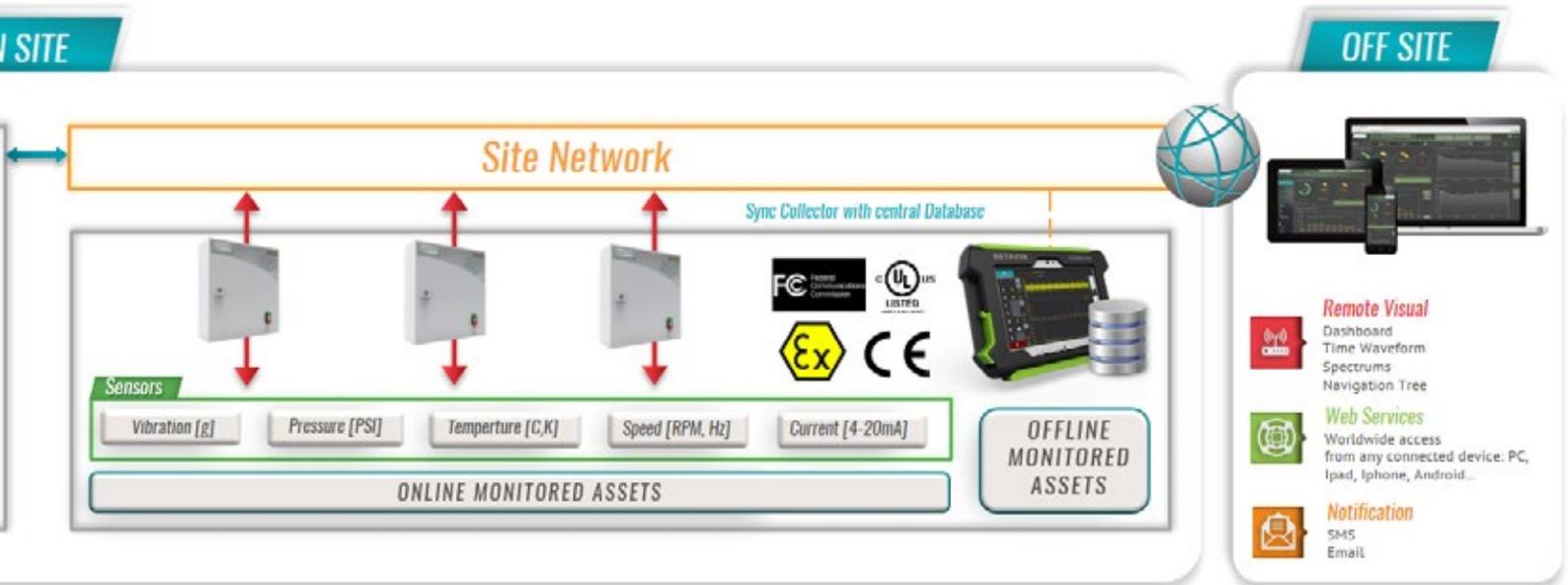fully Cabled, fully wireless **or** cabled/wireless.

Over 50 input/Output Modules to measure and interact with all parameters. OnLine And Offline Measurements share the same Database Structure.

FLEXIBLE & INNOVATIVE

CRAFTED FOR RELIABILITY
READY TO RUN

ACHIEVE PERMANENT HEALTH MONITORING OF YOUR CRITICAL EQUIPMENT WITH A UNIQUE AND SCALABLE TURNKEY SOLUTION, DEVELOPED TO FIT YOUR NEEDS.

Site Network

Sync Collector with central Database

Sensors

| Vibration [g] | Pressure [PSI] | Temperture [C,K] | Speed [RPM, Hz] | Current [4-20mA] |

ONLINE MONITORED ASSETS

OFFLINE MONITORED ASSETS

Remote Visual
Dashboard
Time Waveform
Spectrums
Navigation Tree

Web Services
Worldwide access
from any connected device: PC,
Ipad, Iphone, Android...

Notification
SMS
Email

Machine Shut down on
Alarm crossing.

Sound or light warning
on exception events.

ONBOARD DECISION

SCALABLE AND RUGGED

CMS will fit your needs in
terms of channels count
and multiple sensors.
CMS is certified Class1,
Div2 ATEX and has ex-
tended temperature range

Email notification on alarm
crossing and accessible
data through Web services
from any connected device.

REMOTE ACCESS

CMS-OC

High-end online monitoring solution allow-
ing simultaneous measurements from ANY
time of sensor (Vibration, voltage, current
temperature, pressure, prox, 4-20mA sen-
sors...). Cortex Monitoring System OC is
a custom built solution that will fit exactly
your application: exact number of sensors,
trigger handling, recording parameters, com-
munications, environment...

No matter how complex your application is
(Parameters, channel count, variable operat-
ing conditions) we can build a custom solu-
tion that fits your machine perfectly. You will
be able to monitor dynamic signature of your
assets but also relate their behavior to the
process variables.

HIGHER ACCURACY

Manual measurements increase the
possibility of data errors and missed
events, with CMS you can ensure high
data accuracy thanks to a continuous
data collection

OPTIMIZED PERFORMANCES

On-line condition monitoring can help
you ensure an optimized distribution of
a limited reliability staff to perform the
most valuable tasks required for main-
tenance.

THOROUGH DIAGNOSIS

CMS provides you with unique
tools to improve assets monitoring
and guarantee consistent analysis
based on stored historical baseline
data

VibWorks SUPERVISOR

SEE THE BIG PICTURE

VW SUPERVISOR is developed to provide reliability staff with statistical data describing the GLOBAL health of the monitored assets.

TAKE THE RIGHT DECISION

When you have the right tool at your disposal you can increase assets uptime, protect your investments and maintain economic operations.

Precise Analysis

You have the opportunity to see detailed analysis over departments, machine types, criticality and date.

Global Overview

Make informed decisions thanks to the enterprise wide access to the data offered by VibWorks Supervisor.

Actions Impact

Quantify the result of your management actions and strategies based on up-to date information.

VibWorks MOBILE

EASY ACCESS TO DATA

VW Mobile integrates all reliability information, including ongoing reports, with maintenance data into a single access point, accessible through your smartphone.

REMOTE MAINTENANCE

Designed for reliability leaders, this tool provides a variety of features to simplify, manage and keep track of your machine health

DATA INTEGRATION

All important key performance indicators are integrated into a central access location so you can get all the data you need, wherever you are.
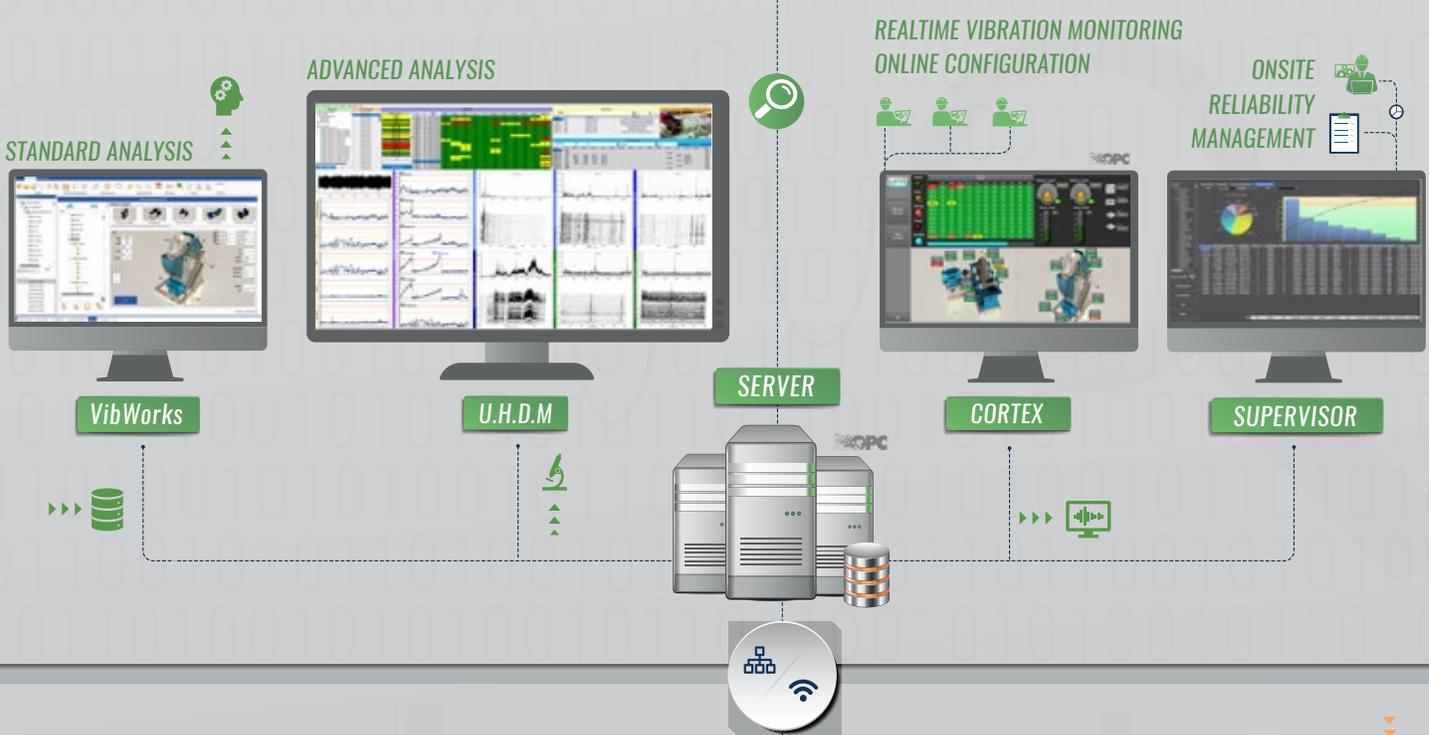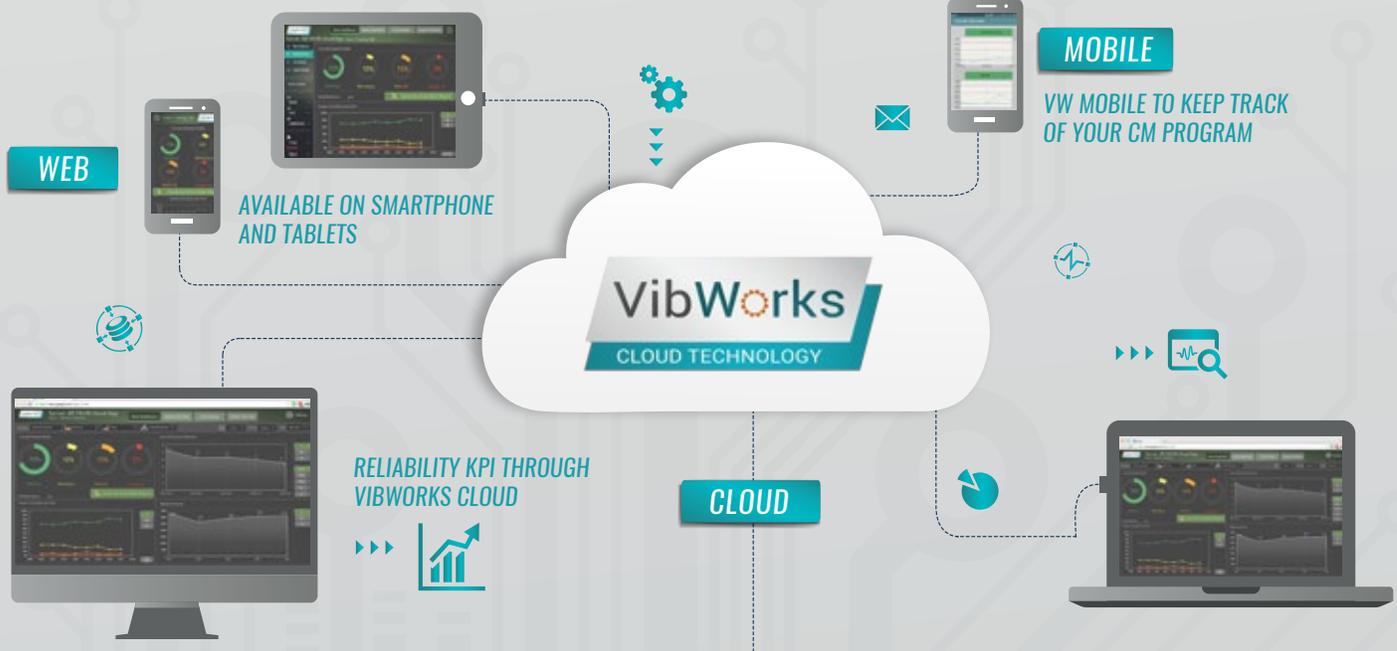
VibWorks CLOUD

ANYTIME! ANYWHERE!

Using VibWorks Cloud applications, your assets heath remains always accessible, anytime, anywhere in the world. An extraordinary management tool to keep track of your machines behavior without locking valuable resources and depriving your analysts from their instruments.

YOUR DEVICE, OUR VISION.

VibWorks Cloud applications are built to provide reliability engineers with useful features and KPI to manage their assets: Pareto charts focusing on failures distribution, Machines history, over all behavior per sector or for the entire plant... And you can achieve all this on any device you want ˝PC, tablets, Smart Phones using fast and secured webservices...

03
RELIABILITY MANAGEMENT

WEB

AVAILABLE ON SMARTPHONE AND TABLETS

MOBILE

VW MOBILE TO KEEP TRACK OF YOUR CM PROGRAM

VibWorks
CLOUD TECHNOLOGY

RELIABILITY KPI THROUGH VIBWORKS CLOUD

CLOUD

02
DATA ANALYSIS

STANDARD ANALYSIS

ADVANCED ANALYSIS

REALTIME VIBRATION MONITORING ONLINE CONFIGURATION

ONSITE RELIABILITY MANAGEMENT

VibWorks

U.H.D.M

SERVER

CORTEX

SUPERVISOR

01
DATA ACQUISITION

ON THE SAME DEVICE
• Create Machines
• Configure parameters
• Collect vibration
• Analyze
• Report

SMART ONLINE MONITORING
• All types of inputs
• Onboard Storage
• Onboard signal processing
• Industrial ruggedness

VW ANALYZER

VW COLLECTOR

VW BALANCER

CMS-Ox

CMS-Oc

OFFLINE MONITORING SOLUTIONS (VW SUITE)

ONLINE MONITORING SOLUTIONS (CMS)

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