



How do you shorten the path between monitoring and informed action?

For more than 50 years we have been designing and manufacturing class-leading multi-parameter environmental monitoring and industrial reliability solutions. We offer our global customers a complete range of integrated measurement technologies and services, ensuring that your data is always accurate and your equipment operates with maximum efficiency.

We believe in helping you find the right balance between progress and preservation. Empowering industries, government authorities, scientists and communities to make knowledgeable decisions based on reliable data, our holistic solutions lead to operational excellence and better outcomes.

At Acoem, we create environments of possibility.

Nest Industry 4.0 Predictive Maintenance Solution

Maintenance and reliability professionals today have adopted modern online condition monitoring and protection technologies for monitoring critical machinery assets. A connected and fully-integrated plant-wide condition monitoring system offers a holistic view of the entire plant, enabling powerful predictive analytics. The unparalleled amount of data collected by such a system empowers reliability managers and proactive maintenance teams to make smarter decisions. NESTi4.0 is the next evolution in predictive maintenance strategy, helping the transition to agile and accurate real-time condition monitoring of an entire industrial facility.

NESTi4.0 Software Platform provides clear, concise and easy to understand information, for everyone involved in maintaining industrial machinery in operational conditions. NESTi4.0 is the most productive vibration analysis software available in the market. In addition to the full range of conventional analysis tools, the user is literally guided through his analysis with the help of a set of innovative tools, like: intuitive machine setup, guided analysis, and ease of access to the automated reports.

Embrace the future of condition monitoring with NESTi4.0 and its revolutionary artificial intelligence to support predictive maintenance in your digital factory.



The only predictive maintenance and diagnostic tool you will ever need

Easy Access To Big Data

Intuitive Machine Builder

Guided Analysis

Automatic Reporting

formats

Bearing Defect™ Factor Accurex™ **Evaluates** Automatic machinery DEF the roller/ball bearing health automatically diagnostics Shock Finder™ Index The color of the machine (Green, Yellow, Red) corresponds to Continously the first level grows during the bearing life 6 diagonostic and shows the urgency of the cycle Easy shock identification and 3 analysis Early fault diagnostic Results of faults detection identified are pre-filled and can be modified by Qualifies shocks automatically in the the user time waveform Open Data Platform HarmoniX™ Index Easily connect your assets health information to your ecosystem Automatically publish all measurements Full frequency high and diagnostics results available resolution merged spectrum from the matrix Quantifies harmonic Standard OPC UA families in spectra automatically and CSV export

Nest i4.0 Integrates Your Entire Monitoring Program

- · Fast visual insight into potential machinery health issues
- · Secure worldwide access to your program's data set
- · Software augmented diagnostic and predictive analysis: AI powered and based on ACOEM's 50+ years of expertise in predictive maintenance technology
- · Wireless monitoring and diagnostic using FALCON analyzer, the EAGLE wireless monitoring solution, or the MV-x real time monitoring units
- · Open data platform with standard format publication allowing easy integration in your digital factory.



Machine Health Matrix

Fast, easy identification of the health of your machines.

- · Analyze a machine's health in just one screen
- Overview of all parameters and easy drill-down to each individual parameter and point
- . Manage and access data for even the largest machines
- Full reporting capability
- · Add and customize parameters in no time
- · Direct access to waveforms and spectra
- · Easily locate and identify possible defects.



NEST i4.0 is powerful and productive tool to manage the predictive maintenance program

It can be managed even without specific vibration knowledge as it includes an automatic setup based on machine kinematic description.

In addition, ACOEM ACCUREX™ analysis method offers the possibility to get automatic diagnosis. For the vibration analyst, it is a way to save a lot of time as he/she can focus on machines which really needs to be looked at in details. This analysis is also speed up with dedicated functions:

The Health Matrix

SFx & HMx Indexes

Merged Spectrum

Shock Finder Filter

"With NESTi4.0 machine builder, it is possible to create a full reliable machine setup with a hundred of parameters in less than a minute, without any vibration expertise required"

Accurex™ Diagnostic Matrix

Machine diagnosis at a glance

Access machine diagnostics at a glance:

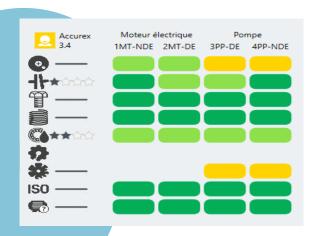
- · Know what the defects are
- · Know where the defects are located
- · Know how important they are
- · Know the confidence level

Accurex™ Matrix available for any machine

- Smart display of the Accurex™ automatic diagnostic
- Smart display of the real expert diagnostic

Expert productivity boosted by Accurex AI

 Save up to 30% additional time in your periodical Analysis thanks to the automatic consideration of your previous diagnostic



Accurex diagnosis: "No significant change since last approved advice"

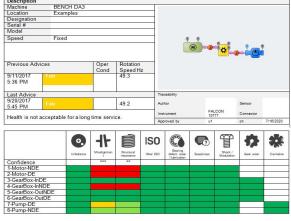
Running speed detection alerts



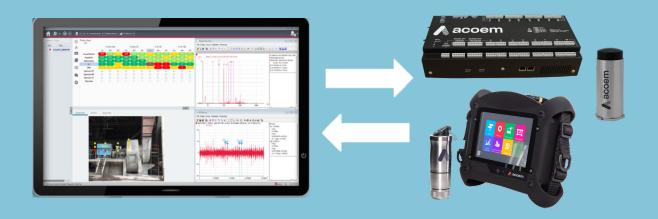
Enhanced reporting productivity

- · Save up to 50% on reporting time
- Automatic text generation from the matrix
- · Can be modified manually if needed
- Accurex™ Matrix included in report

1. EXPERTISE REPORT



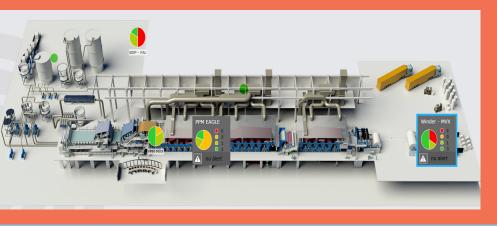
Diagnosis: Misalignment + Structural resonance
Overall state not acceptable for the component 'ElectricMotort'.
Overall state not acceptable for the component 'GarBoxt'.
Fair Overall state for the component Pumpt'.
Misalionment to be corrected Confidences."*



"Accurex™ Artificial Intelligence offers unrivalled instant automatic diagnostic capabilties. It is the result of the modelization of our 50+ years of experience through a Bayesian network, additionnally powered by machine learning on our long history of qualified diagnostics."

A secure solution, approved by customers of nuclear and military applications:

- · SSL communication encryption
- · LDAP user Authentification
- Communication with the software initiated by the IoT (Eagle, MVx)
- · Data integrity and backup tools



Easy Access To Big Data

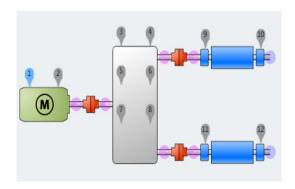
NESTi4.0 Software provides exactly that, for everyone involved in maintaining industrial machinery in operational conditions.

Intuitive and resolutely visual, it makes the assets' health condition available to staff at all responsibility levels, regardless of prior expertise. Reports are instantly accessible from anywhere around the world, via an ordinary internet connection.

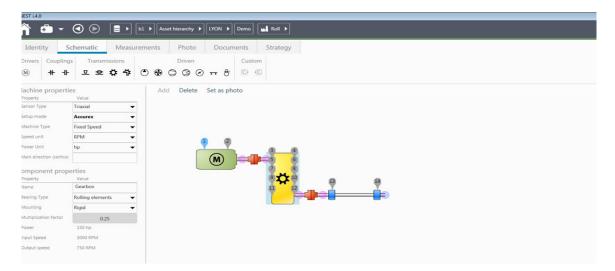
Machine Builder

Quick and intuitive set up: drag and drop

- · Build complex machines with hundreds of vibration parameters in just minutes
- · Create virtually any machine using built-in or customized templates
- Compatible with Accurex™ automatic diagnostics
- · Accessible to all staff levels
- · Build what you will see during the analysis
- Easily add or modify a parameter or signal on one of several measurement points at the same time
- · Create custom complex machines with the use of the custom component
- · Customizable: number of bearings, 1 or 2 shaft outputs, speed ratio for each shaft
- · Free component labelling.







Supervision Tool

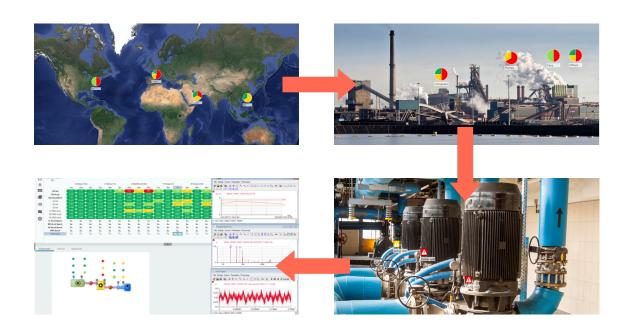
Easily browse your assets

- Show the machine according to the alarm or expert advice
- Digital display:
 Icons / list / picture
- Use the Flat mode to show all assets in one view



World-wide data center

- Display can be customized to the user's profile (analyst, reliability engineer, manager and more)
- Any place, any time login allows users to access reports via the optional NEST Dashboard.



Drill down from a global view to an individual machine



About Acoem

Creating environments of possibility

At Acoem, we create environments of possibility - helping organisations find the right balance between progress and preservation - safeguarding businesses and assets, and maximising opportunities while conserving the planet's resources. We deliver unrivalled, interoperable AI-powered sensors and ecosystems that empower our customers to make enlightened decisions based on accurate information.

Together with 150 distributors, our 800+ employees work across 27 offices, 5 manufacturing facilities and 3 R&D centres in 11 countries to provide trusted, holistic data solutions for customers worldwide.

Acoem links possibilities with protection.

For more information, please visit acoem.com



