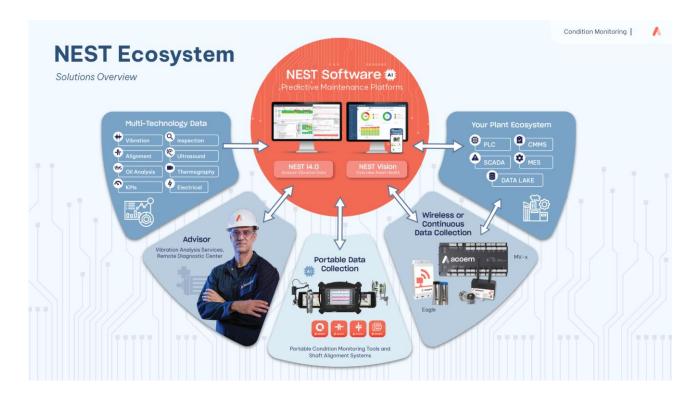
NEST Product Datasheet



MONITORING AND DIAGNOSIS OF ROTATING MACHINES

Predictive maintenance is a powerful leverage of competitiveness for all industrialists. As its benefits are now undeniable, it is involving different people within a same company, working together on the same data, but at different steps of the process.

NEST ecosystem is a powerful and productive solution to manage the predictive maintenance.



It can be used without specific vibration knowledge as it includes Accurex[™] an automatic setup based on machine kinematic description including automatic diagnosis capabilities. For the vibration specialist, it is a way to save a lot of time as he can focus on machines that really need to be looked at in details. Thanks to ACOEM Innovations: Health Matrix, Accurex[™] auto diagnostic, Accurex[™] SE prediction, SFx and HMx indexes, Merged spectrum, Shock Finder Filter ...





Main modules



MACHINE SETUP Organize the data according to locations, sub-locations, and easily define machines through the drag & drop tool that can be used according to 2 modes (Template or ACCUREX)

- Template mode: fast measurement generation using predefined templates or customized by the user.
- ACCUREX mode (Automatic diagnosis): automatic generation of the measurements required to perform automatic diagnosis with the FALCON portable data collector, MV-x on-line monitoring system or with EAGLE wireless system.



ANALYST Powerful module, with several tools to speed up your analysis and recommendations:

- The ACCUREX Matrix display
- SFx and HMx indexes
- Merged spectrum
- Shock finder filter



ROUTE SETUP Manages lists of machines used as routes to load the data collector or as filter in Analyst. Reorder machines to optimize data collection.



INSTRUMENT Manage the communication with EAGLE and MV-x online monitoring system



COLLECT Transfer route data to or from the data collector:

- direct link (USB, Ethernet, Wi-Fi)
- via Internet using intermediate files



ADMINISTRATION Manage the databases and users

General Specifications

Centralized database

<u>Multi source</u>: FALCON portable device, MV-x on-line monitoring system and SPARROW or EAGLE wireless Online sensor

Multi physical: Vibration, Process, Electrical

Architecture

Two editions are available:

- Desktop: a single installation is done on each computer with access to local data
- <u>Network</u>: data are hosted on an application server connected to the network. All users are directly
 working on the same data through a network (LAN or WAN) or Internet. It includes user management
 with access profiles.

International application

<u>Languages</u>: English, French, Simplified Chinese, Korean, Russian, Portuguese, Spanish, German, Dutch, Vietnamese, Indonesian, Japanese, Thai, Turkish, Italian, Traditional Chinese, Swedish

Units: Management of metric and imperial units. Can be adjusted at any time with user preference

User assistance

<u>Tooltip</u>: Tooltips are displayed to provide more information on functions or buttons according to the modules <u>Help menu</u>: The help menu is accessible at any time to present to the user the detailed description of functions as referred in the user manual

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Data exchange

<u>Import / Export</u>: Easily share data between several NEST databases within the same or different factories. <u>Interoperability</u> (option): publication of machines and parameters information

- machines information: global alarm status with timestamp, expert advice, diagnosis and recommendation
- parameters information: value (stored from instrument or post-processed from the software) with timestamp, thresholds, status
- Interfaces: OPC UA, CSV files and API to exchange with supply PLC, SCADA, CMMS or ERP systems

NEST Vision

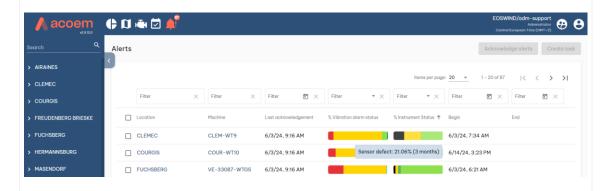
Optional feature and only with Network edition

Full web supervision module for a multi database overview with

- Cross databases displays (Enterprise, Plant, Machine) with advanced filters capabilities
- Global KPI presentation

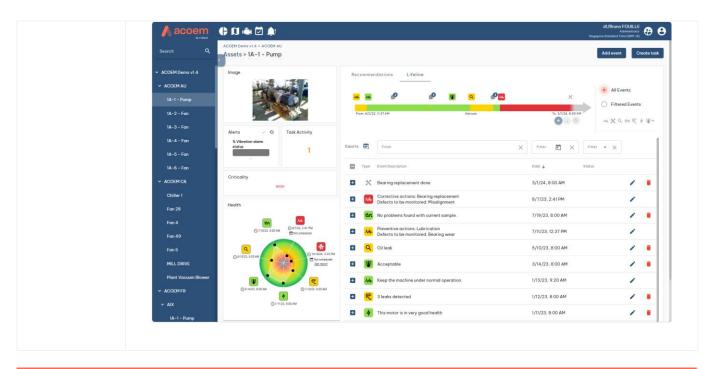


- Multi-mode (alarm, expert advice and live data) and multi-view (hierarchical, flat and map)
- Interface with Machine Defender (inbox, work orders)
- Advanced trending with alarm area for vibration, alignment and process parameters
- Alerts management with acknowledgment for machine alarms and instrument defects



- Live data display with short term trend capabilities for machines with real time monitoring (MVX)
- Multi technical data management (vibration, alignment, oil, electrical, ultrasound, thermography, inspection, maintenance action, note) with attachments
- Machine Radar view

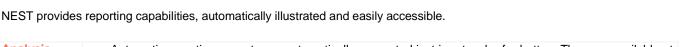




Automatic reporting capabilities

To improve maintenance planning and operations, one needs to be able to display in a very easy way:

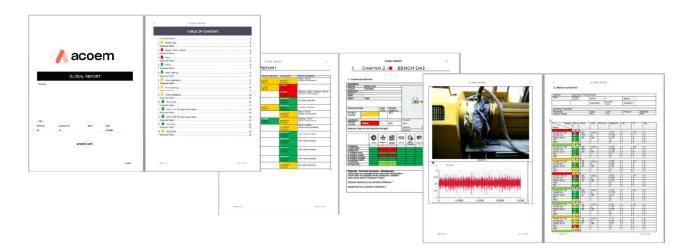
- what has been detected through predictive maintenance technologies
- what has to be done
- when it should be done



Analysis reports

- <u>Automatic reporting</u>: reports are automatically generated just in a touch of a button. They are available at any time, for a single machine or group of machines with an active table of contents.
- Selectable content: Synthesis Information, Diagnosis & Recommendation, Analysis.
- ACCUREX matrix: machine defects and their location visible at a glance
- Hide / display parameter: Advanced parameters can be hidden automatically and not be printed out
 in the reports. They remain fully available in the ANALYST module for the expert users.
- <u>Filtering and sorting</u>; machines can be easily filtered and sorted according to their name, status, advice, measurement date.
- Format: DOCX and PDF
- <u>Automatic picture insertion</u>: machine pictures, pictures attached in appendix (analysis, thermographic) or taken with FALCON data collector, are automatically printed out in the reports
- Template customization: templates of prelisted report types can be modified to adjust the content
 automatically extracted from the database. It manages the layout, including the possibility to add your own
 logo.

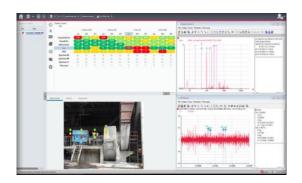




Data Presentation

NEST offers a user-friendly interface, providing an easy access to relevant information, whatever the number of machines monitored is, and whoever is using the software

Rich applicative client with advanced tools for expert analysis – NEST Analyst



Easy to use web client to consult data from any web browser – NEST Vision



Structure

- <u>Data structure</u>: within a single database, it is possible to organize machines into several locations and sub locations to have them displayed in a quick and easy format.
- <u>Data browsing tools</u>: the navigation from the top site view to the detailed analysis view and reports can be made through different ways. One or several tools are available according to the NEST module in use:
 - Classic drill-in
 - Navigation toolbar
 - Tree structure

Presentation

- <u>Location picture</u>: pictures can be added to locations and sub locations
- <u>Machine position</u>: the machine can be positioned on the location picture to provide an easy access to the machine monitoring data
- <u>Machine picture</u>: picture of the machine can be added for a better presentation of the results. If none is available, a schematic view can automatically be generated from the MACHINE SETUP module.
- Measurement point position: measurement points can be positioned on the machine picture or schematics to provide a very visual presentation of the results.



Display modes

- Map mode: display on a map or image for a navigation that is as visual and intuitive as possible
- <u>Icons</u>: display as icons for a better balance between detailed information and visual information
- <u>List</u>: display as a list, for maximum details and multiple sorting possibilities for the available information
- Tree structure: A tree structure is also available in all NEST modules



Machine information

- Bearing reference: the machine bearings can be selected from the bearing database. Bearing characteristics are then automatically imported and frequencies of interests automatically displayed in the graphic tool
- <u>Custom. Bearing</u>: the bearing database can be completed by the end user, if the bearing reference cannot be found.
- <u>File attachment</u>: documents such as drawings or other document that might be useful at the analysis step can be attached to each machine
- User notes: one can input written description notes associated to each machine.

Data mining

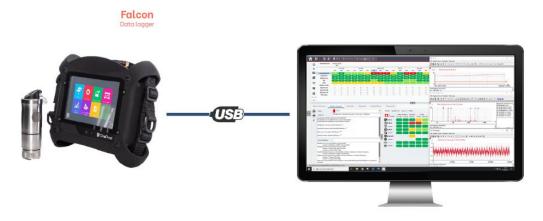
- <u>Type of information displayed</u>: the machines can be displayed according to several types of information in order to help the user quickly finding machines of interest:
 - The ADVICE view presents the machines according to the last expert advice. The 3 previous advices are also displayed
 - The ALARM view presents the machines according to their alarm status. This view also shows the number of alerts and the number of days of measurement delay.
- <u>FLAT view</u>: the FLAT view corresponds to the powerful capability of displaying a whole factory into a single
 view. It is then possible to sort and filter the machines displayed according to several criteria: name,
 measurement date, status, advice, ...
- <u>Filter on machines</u>: filters can be applied on machines from the ANALYST modules to only display given machines, with selectable filter options: alarm status, expert advice, not measured, route, machine name
- <u>Filter on measurement history</u>: filters can be automatically applied on the measurement history of a given
 machine to enable productive analysis. The applicable filters are declined according the data filters tags
 available: Expert advice, Measurement with or without signal, Operating condition, measurement trigger, N
 last days, from D1 to D2.
- Measurement history tag display: to find easily an event in the history, it listed with machine alarm status,
 the expert advice, the operating condition, the presence of signals or not, triggering information ...



• Export in csv format: general information of selected machines, overall value histories of selected machines

Portable data collection

NEST provides all features required to organize the assets into data collection routes.



The routes contain all information required to make productive and easy measurements: location pictures, machines pictures, machines and measurement points' position on the pictures...

Route	 <u>Definition of the list of machines</u>: selection of the machines contained in a route
creation	• Modification of the order of the measurement points: It is possible to rearrange the order of the
	measurement points so that they are presented automatically in the most productive way once the operator
	is in front of the machine.
	• Smart reorder: organise the route in the order it has been measured during the previous collect.
	• Split machines: As the focus is given to the measurement points, it is possible to split machines in the data
	collection process (e.g. measuring of machine A and B on the left side, before measuring machine A and
	B on the right side)
Quick launch	• Single machine: a quick launch feature is provided to send a machine to a FALCON portable data collector
	by touching a button, without pre-creating a route. It makes it very convenient for quick testing.
	• <u>Multiple machines</u> : it is possible to send several machines at once in this mode. The machines are displayed
	as individual machines and not as part of the same route.
Transfer	• <u>Direct USB connection</u> : the files are transferred to a FALCON connected directly to the computer with its
mode	USB cable
	• Local network: the files are transferred to a FALCON connected to the network with an Ethernet plug or
	through a Wi-Fi connection.
	• <u>Transfer through intermediate</u> files: the use of intermediate files allows for transferring routes through a
	USB stick, and, for example, after a transfer by e-mail
Route setup	• Automatic insertion of pictures taken with FALCON: FALCON offers the unique possibility to add route
pictures	related pictures to the machine setup. Once a picture of a machine or location is taken on the field with
	FALCON, it is automatically uploaded and stored into the NEST software when the measurement data are
	uploaded.



Route related • information

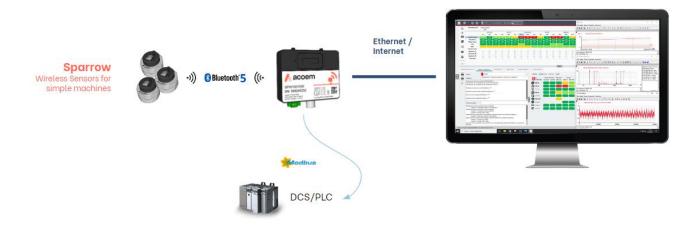
- <u>Audio note</u>: audio notes recorded on the field while measuring with FALCON are automatically uploaded to the NEST database and available to any user at the analysis step
- Written note: notes typed in the field while measuring with FALCON are automatically uploaded to the NEST database and available to any user at the analysis step. Written notes can be automatically printed in the data collection reports.
- Predefined notes: loaded in the data collector to make the input easier and faster.
- Inspection picture: inspection pictures taken in the field while measuring with FALCON are automatically
 uploaded to the NEST database, available to any user at the analysis step, and printed out automatically
 in the reports.

Off-Route management

- Machines uploading from FALCON Off-Route mode: machines are automatically created in NEST database.
- Merge Off-Route measurements with existing machines.

Wireless Sensors monitoring with SPARROW system

NEST Network Edition provides all features required to manage measurements with ACOEM wireless on-line monitoring system **SPARROW** for an entry-level monitoring of a large number of basic machines (stationary machine without gearbox) and compatible with Accurex™ Smart Exception - on ACOEM Cloud only - for automatic detection of ON/OFF machine and any changes of behaviour.



It provides vibration (1 or 3 axis) and temperature measurement. Sensors are easy-to-deploy as it eliminates the wiring for each sensor. Monitored data can be supplied to third party system through Modbus TCP.

Machine setup	 Measurement strategy Distinct periodicity for overall levels and time wave or spectrum Measurement stored on aggravating alarm status change Managed measurements 1 temperature + 1 time wave (acceleration) per axis / sensor All post processings Sensor connection; smart 3-axis sensor management based on sensor positioning
Instrument setup	Connection with gatewaysModbus output address settings
Analyst	 Alert counter: this counter shows if some changes have occurred on a machine since last Advice. It is automatically reset if an expert approves a diagnosis on the latest measurement.

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Wireless Sensors monitoring with EAGLE System

NEST Network Edition provides all features required to manage measurements with ACOEM wireless on-line monitoring system **EAGLE** for an advanced monitoring of critical machines and compatible with Accurex[™] for automatic defects detection



It provides vibration (1 or 3 axis) and temperature measurement. Sensors are easy-to-deploy as it eliminates the wiring for each sensor. Monitored data can be supplied to third party system through Modbus TCP.

Machine	Variable speed machine compatible
setup	 Management of operating conditions: 6 operating parameters (speed, power) can be used
	to define up to 20 operating conditions.
	 Indicators and alarm thresholds can be adjusted for each operating condition
	Reading of operating parameters continuously
	 Modbus TCP inputs (via gateway)
	 Monitoring strategy can be defined for each operating condition
	 Trigger mode: Periodical, On Condition or On Alarm (aggravating only)
	 Data reduction per data type – ie: Overall levels, Time signals or Spectrums
	 Measurement types per sensor (1 or 3-axis) compatible with all post processing
	 1 Temperature + Overall (velocity, acceleration), spectrum (velocity, acceleration), envelope
	spectrum (acceleration), time wave (acceleration) per axis
	 Sensor connection; smart 3-axis sensor management based on sensor positioning
Instrument	Connection with gateways + status monitoring
setup	 Modbus inputs & output address settings
Analyst	 Alert counter shows if some new alarms occurred on machines since last expert approvals

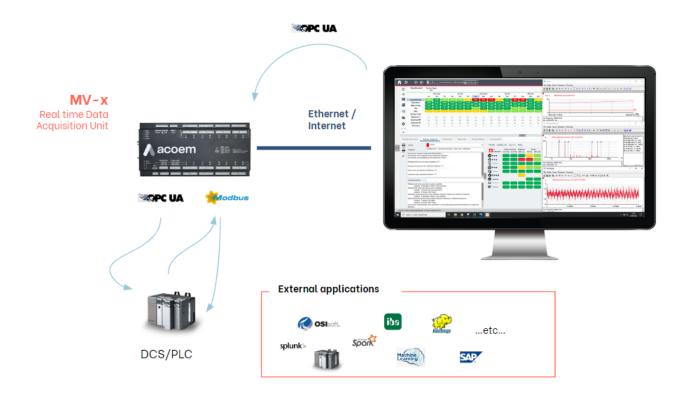
Real time monitoring with MVX

When it comes to online monitoring, if not properly configured, the amount of data to analyse could make the monitoring ineffective. NEST Network provides all features required to catch the right data at the right time and avoid false alarms.

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Monitored data can also be supplied to third party system through Modbus TCP.

Machine	Variable speed machine compatible
setup	 Management of operating conditions: 6 operating parameters (speed, power)
	can be used to define up to 20 operating conditions.
	 Indicators and alarm thresholds can be adjusted for each operating condition
	Order tracking (RSS) compatible
	 Detect all repetitive phenomena related to machine kinematics and can be used
	for a continuous monitoring - i.e. bearing fault detection
	 Revolution Synchronous Sampling for variable low speed machine
	 Dedicated to machine monitored with MVX
	 Highlight repetitive and rotational phenomena despite speed variations
	 Need a tachometer to measure rotational speed continuously
	Reading of operating parameters continuously
	 From Modbus TCP (via MVX) and/or OPC UA (via NEST) protocols
	 From MV-x analogic or logical inputs
	 Smart ON-OFF vibration parameter to detect when the machine is operating
	 Monitoring strategy can be defined for each operating condition
	 Trigger mode: Periodical, On Condition or On Alarm (aggravating only)
	 Data reduction per data type – ie: Overall levels, Time signals or Spectrums
	 Measurement types per channel compatible with all post processing
	 Input types: IEPE, AC/DC,4-20mA, tachometer, logical I/O, Modbus I/O
	 Output types: Modbus I/O, relay
	Sensor connection
Instrument setup	Connection with MVX device + status monitoring
	 Modbus inputs & output address settings

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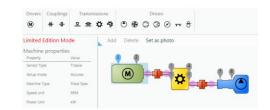
Analyst

Alert counter shows if some new alarms occurred on machines since last expert approvals

Assistance to machine setup

NEST offers all tools required to perform fast and easy measurement setup.

The FALCON automatic diagnosis capabilities, coupled to the NEST automatic measurement setup, puts vibration analysis at the grasp of anyone, but NEST also offers various productivity tools for expert users.



Automatic setup

<u>Accurex mode</u> (automatic diagnosis): The drag & drop tool allows for an easy graphic description of the machine. The measurements required to perform FALCON automatic diagnosis are then automatically generated. It is also available with EAGLE and MV-x.

<u>Accurex Smart Exception</u> (with Sparrow sensors): Simply check the box and be notified of every change in your machine's behavior without having to set any alarm thresholds.

Templates mode: The drag & drop tool allows for an easy graphic description of the machine.

- Visual Health Matrix based manual setup
- The measurement generated can be generated from one or several templates. Templates are supplied by ACOEM and can be fully adjusted by the user.
- Modification on multiple selection of parameters on a machine
- Management of measurement for accelerometer, velocimeter or proximity probes

Triaxial / uniaxial sensor: automatic management of the type of sensor

bearings, 1 or 2 outputs to connect it to other components.

Available components in the drag & drop tool

Custom component

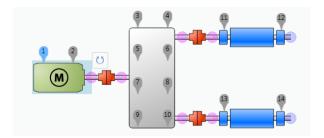
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Machine management

<u>Machine copy / paste</u>: it is very easy to create one or several machines at a time just by simple copy/paste of other machines

Import / Export: Easily share data between several NEST databases within the same or different factories



Analysis & diagnosis capabilities

When it comes to analysis and diagnosis, NEST is certainly the most productive tool on the market, featuring the unique Health matrix and ACCUREX matrix presentations.

Health Matrix

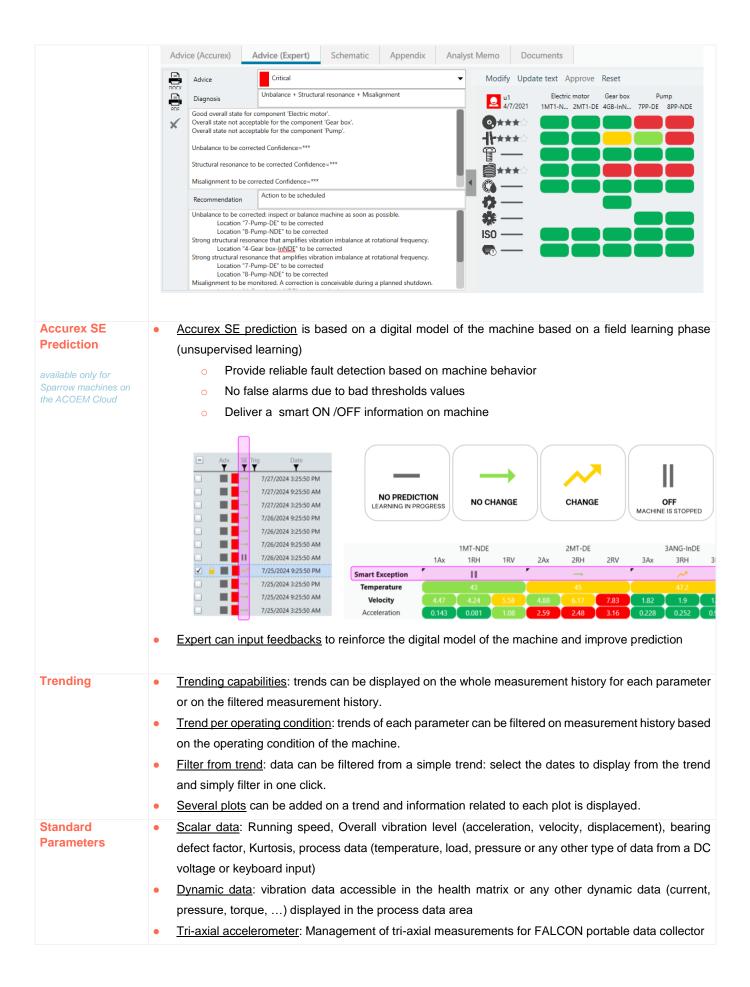
The most productive data presentation available on the market for diagnosis purposes. All monitoring and diagnosis indicators are presented into a single matrix view: Measurement locations are presented in columns and parameters in rows with their alarm status. Once alarm thresholds are adjusted, the user can know at a glance if there is a defect and where it is located on the machine.



Accurex Matrix

- Diagnosis at a glance: the ACCUREX matrix shows the machine defects and their location at a glance.
- Generate your diagnosis in few clicks: It is also more than that as it can be used by the expert to publish his own assessment and then automatically generate diagnosis and recommendations in only one click.







Signals	Spectrum, Zoom, Envelope spectrum, Time waveform, Phased spectrum, Synchronous time waveform			
ACCUREX Automatic Diagnosis	 Machine and components types: Electric motors (synchronous, asynchronous, DC), Pump, Fan Compressors (Centrifuge, Lobed), Gearbox with up to 4 stages, Bevel gearbox, Roller, Shaft Main analysed defects: Unbalance, Misalignment, Bearing and lubrication, Mounting, clearance friction, Gear defects, Cavitation Expert feedback: keep the last expert assessment if the vibration behaviour is similar. Limitations: machines with roller bearings with running speed from 120 to 12000 RPM 			
ACOEM Technology	 <u>Defect factor</u>: Indicator embedding ACOEM expertise and representative of the bearing healt condition of the machine <u>SFx</u>: Shock Finder index is based on the ACOEM Shock Finder technology. You can see at a gland the location on the machine generating shocks without the need to analyse in detail every time wave <u>HMx</u>: Harmonic index indicates if low or medium frequency spectra include significant harmon families. You can see at a glance the location on the machine generating high level of harmonic without the need to analyse in detail every spectra 			
Post-Processing	Post processings can be calculated automatically and/or manually on any measurement coming from FALCON, EAGLE, SPARROW or MVX: On FFT: Peak amplitude value; Broadband energy calculation On Envelope spectrum: Peak amplitude value; Broadband energy calculation On phased spectrum: Peak amplitude and phase values On time waveforms: Kurtosis, Statistics. Parameter combination: +, -, *, /, quadratic sum and difference, AND, OR On measurement history: Post-processing indicators can be defined at any time. NEST offers the possibility to calculate the value of this indicator on the whole measurement history, thus providing you the ability to trend it over time, even if it has never been measured before. Modification of the rotation speed: If the rotation speed was not measured, it can be modified by the expert. All post-processing can be automatically recalculated for the given measurement date, taking into account the adequate rotation speed. It is also possible to run manually the Accurex diagnosis to reprocess machines measured with FALCON, EAGLE or MVX in case of rotation speed adjustment. Relative alarms: Automatic advanced alarms can be post-processed: evolution compared to the previous date, evolution compared to baseline.			
Diagnosis- Related Features	 Expert Recommendation: Summary and free description text to be filled in by the expert, associated to a measurement control date of the machine. Expert full diagnosis: Summary and free description text to be filled in by the expert, associated to a measurement control date of the machine. Automatic screenshot attachment: Measurement and diagnosis can be illustrated by adding screenshots of the graphic tool by a touch of a button. These pictures are automatically printed out in the reports Inspection picture attachment: Inspection pictures can be attached to a control date, either manually by the user or automatically if the measurement is coming from FALCON portable data collector. These pictures are printed out automatically in the reports Audio comment: Listen to the FALCON audio comment recorded in situ 			



Expert advice tag: Once the analysis is done, the expert can tag the measurement control with his/her
advice, which will prevail on the alarm status of the machine according to the type of display selected
in NEST: EXCELLENT, GOOD, FAIR, CRITICAL. Each advice tag is represented by a different colour
code (GREEN, LIGHT GREEN, ORANGE, RED)

NEST Graphic tool

NEST graphic analysis tool offers powerful diagnosis capabilities, leaving the experts with the certainty to have all they need at hand to issue the most accurate diagnosis.

In addition to standard tools, NEST users also benefit from dedicated technology relying on years of experience in the field of vibration analysis of rotating machines

ACOEM dedicated technology

- Merged spectrum: displays for the analysis of a single plot including all spectra from a point with the best resolution (e.g., merging low frequency, middle frequency and high frequency spectra that were basically measured separately).
- Shock Finder Filter: it can be applied manually by post-processing in the NEST graphic tool. It embeds
 ACOEM expertise to highlight the presence of abnormal periodic shocks and reveals mechanical faults at
 a very early stage.
- Bode Ellipse spectrum: Patented display allowing for reliable critical speed characterization when measuring the run-up / coast-down phase with FALCON

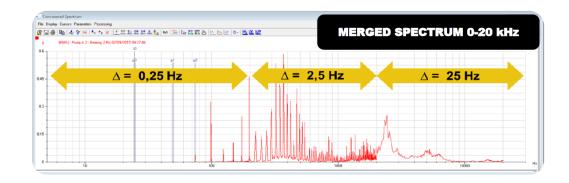
Data comparison

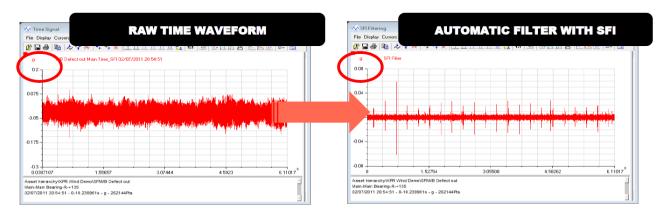
- Baseline: The baseline date can be defined by the user to facilitate the comparison with other data. It can be modified at any time, e.g., after each maintenance operation
- Superposition:
 - Manual superposition of signals from the same measurement (different measurement location) or from different measurement controls in the history
 - Automatic superposition with the baseline measurement control date
 - Automatic superposition with the previous measurement control date
 - Automatic 3D waterfall view on the measurement history
 - Quick display of single spectrum from the waterfall view

General display option

- Multiple windows: Each signal is opened in a new window. Superposition is done manually
- Frequency unit: Hz, RPM or Order
- <u>Vibration unit preferences</u>: IS or Imperial
- <u>Cursor customization</u>: Colour, thickness, texture, number of harmonics, number of sidebands, elementary displacement step
- Other settings: Background colour, X and Y gradation grid, gradation numerical format, printer margins
- <u>User notes area</u>: Possibility to add comments on any graph to be printed.







FFT

Cursors:

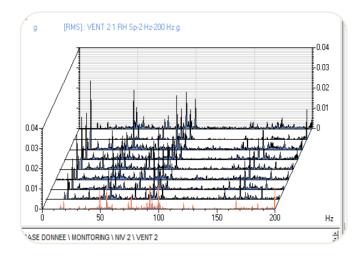
- Simple cursor with indication of frequency and amplitude in 3 units (acceleration, velocity and displacement).
- Double cursor with indication of frequency and amplitude of each pointer and their distance.
 Indication of RMS value between cursors.
- Copy/paste function to position other double cursors with the same distance.
- Sideband cursor with adjustment of the number of lines
- Copy/paste function to position other cursors with the same distance
- Multi-cursor mode (several independent single cursors on the same graph)

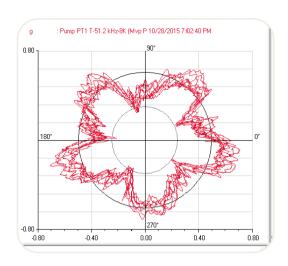
FFT Display options:

- Switch button to select the amplitude of the signal to display (automatic integration or derivation of the signal): acceleration, velocity or displacement
- Linear or logarithmic X and Y scales
- Frequency in Hz, RPM or Order
- Scales: automatic, fixed, zoom
- Amplitude in dB, EU or spectral density
- Amplitude RMS / Peak / Peak-to-Peak
- Post-processing: Cepstrum
- <u>Fault frequencies</u>: Automatic prepositioning of expected frequencies of the point or the whole machine.
 Automatic adjustment by post-processing if the rotation speed is modified.



	• <u>Bearing frequencies</u> : Automatic prepositioning of bearing characteristic frequencies. Automatic adjustment
	by post-processing if the rotation speed is modified
Time	Display options: Standard view, Circular view
waveform	Orbit post-processing:
	o 3 modes: unfiltered, harmonic (H1, H2, H3), low pass
	 Selection of time limits: manual or automatic (number of cycles)
	Filter post-processing: High pass, low pass, band pass, band cut, Shock Finder
	Auto spectrum post-processing: Automatic spectrum post-processing from the stored time waveform.
Order	Bode diagram: Selection of harmonic 1 to 10 with possible superimposition
analysis	Nyquist diagram: Selection of harmonic 1 to 10 with possible superimposition
display*	FFT display: Simple or waterfall
	 Other type of display: Position (t), Position (RPM), Polar position, Orbit (filtered or not, with or without
	position), Ellipse spectrum, Ellipse Bode diagram, Waterfall Emax, rotation speed over time
	* on measurements coming from FALCON Run Up Coast Down
Cross	Amplitude spectrum
channel analysis*	Power spectrum
analysis	Coherence function
	• 2/1 and 1/2 transfer functions, Cross-spectrum in modulus, phase, real part, imaginary part
	Display on one or two plots
	UFF export for structure analysis software
	* On measurements coming from FALCON FRF module





Data management

Compatibility •

- Portable data collectors: FALCON
- Online systems: SPARROW, EAGLE and MV-x monitoring system
- External applications : OPC UA server, SFTP server (for MVX machine only)



Backup

- Manual: A database backup makes a full copy of all data within the database
- Automatic: Database backups can be programmed, performed at a given periodicity and time and automatically exported to a selected location on the network

Data volume limitation

- Manual deletion: Measurement dates can be manually deleted from the history
- Automatic data clean-up per data type and based on a rolling schedule
- Data protection: Measurement dates of interest are automatically protected to avoid any hazardous deletion

System administration (Network edition)

Authentication

- 5 default user profiles
- Dedicated profile for instruments connection (sparrow, eagle, mvx) and for API external users
- Configurable additional profiles
- Access level can be defined per user for each database
- Possibility to use LDAP directory (only for user accounts)

Encryption

- Possibility to encrypt communication; need to use a SSL certificate not provided by ACOEM
 - between NEST clients and server
 - between ACOEM online acquisition devices and NESTi4 server

NEST Editions options

	DESKTOP	NETWORK
Multi users Collaborative solution	No	Yes
FALCON	Yes	Option
EAGLE	No	Option "Activation": 10 sensors maxi. Option "Extension": unlimited sensors Option "Accurex mode"
MV-x	No	Option "Activation": 1 device maxi. Option "Extension": unlimited device Option "Accurex mode"
SPARROW	No	Quantity of sparrow sensor (0 to)
Interoperability OPC UA client & server, CSV file export & API REST	No	Option "Activation": Overall & diagnostics Option "Extension": Overall & diagnostics + signals + quantity of external OPC UA tags
NEST Vision	No	Option "Activation", and number of Named User access