

NEST i4.0

Predictive Maintenance Software

Nest i4.0 integrates your entire condition monitoring program:

- Fast visual insight into potential machinery health issues
- Allows secure worldwide access to your program's data set.
- Software augmented diagnostic and predictive analysis: based on ACOEM's 40+ years of expertise in predictive maintenance technology.
- Wireless monitoring and diagnostic using the portable FALCON analyzer or the EAGLE wireless monitoring solution.



Accurex™ Matrix

Machine diagnosis at a glance

Patent Pending Technology

- **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 3	ElectricMotor1		GearBox1	Pump1	
	1MT-NDE	2MT-DE	4GB-InN...	7PP-DE	8PP-NDE
	Green	Green	Green	Green	Green
	Red	Red	Red	Green	Green
	Green	Green	Green	Green	Green
	Red	Red	Red	Green	Green
	Green	Green	Green	Green	Green
			Yellow		
	Green	Green	Green	Green	Green
	Green	Green	Green	Green	Green

- **Accurex™ Matrix available for any machine**

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

- **Running speed detection alerts**



u1 7/20/202	ElectricMotor1		GearBox1	Pump1	
	1MT-NDE	2MT-DE	4GB-InN...	7PP-DE	8PP-NDE
	Green	Green	Green	Green	Green
	Red	Red	Red	Green	Green
	Green	Green	Green	Green	Green
	Red	Red	Red	Green	Green
	Green	Green	Green	Green	Green
			Yellow		
	Green	Green	Green	Green	Green
	Green	Green	Green	Green	Green

1-Motor-NDE
Speed not found on : 1-MT-Ax

- **Expert productivity reporting:**

- Save up to 50% on reporting time
- Can be modified manually if needed
- Accurex™ Matrix included in report



1. EXPERTISE REPORT

Description

Machina: BENCH DA3

Location: Examples

Designation:

Serial #:

Model:

Speed: Fixed

Previous Advices

Date	Oper Coord	Rotation Speed Hz
9/11/2017 5:36 PM	Fail	49.3
5/20/2017 5:45 PM	Fail	49.2

Last Advice

Health is not acceptable for a long time service.

Traceability

Author: FALCON 12777

Instrument: Sensor

Approved by: [Signature]

1/16/2020

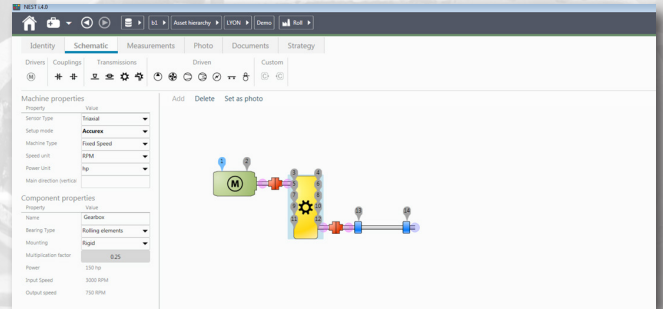
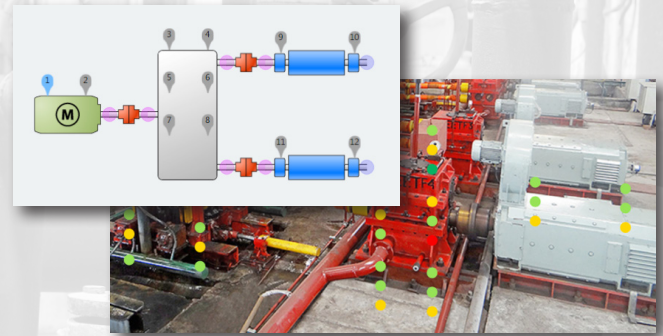
	Unbalance	Misalignment	Structural resonance	ISO	Motor ISO	Motor ISO (S/N)	Seals	Shaft misalignment	Gear wear	Cracks
Confidence	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
1-Motor-NDE	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green
2-Motor-DE	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green
3-Gear-Confidence	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
4-Gear-Box-InNDE	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green
5-Gear-Box-OutNDE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
6-Gear-Box-OutDE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
7-Pump-DE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
8-Pump-NDE	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Diagnosis: Misalignment + Structural resonance
Overall state not acceptable for the component ElectricMotor1!
Overall state not acceptable for the component GearBox1!
Far Overall state for the component Pump1!
Misalignment to be corrected Confidence***
Structural resonance to be corrected Confidence**

Machine Builder

Quick and intuitive set up: drag and drop

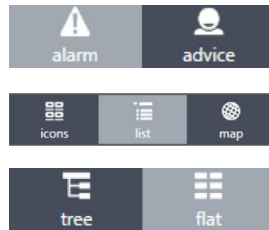
- Build complex machines with hundreds of vibration parameters in just minutes.
- Create virtually any machine using built-in or customized templates
- Compatible with Accurex™ automatic diagnostics
- Accessible to all staff levels
- Build what you will see during the analysis
- Easily add or modify 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

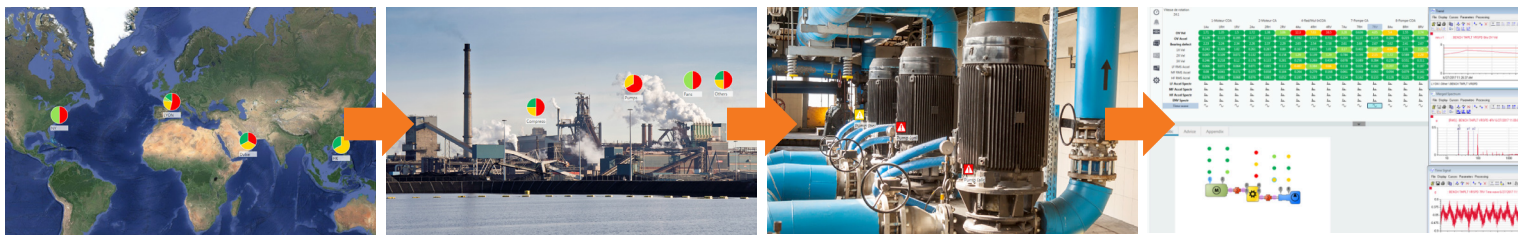
Easily browse your assets

- Show the machine according to the alarm or expert advice
- Display in icons / list / picture
- Use the Flat mode to show all assets in one view



Worldwide 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



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