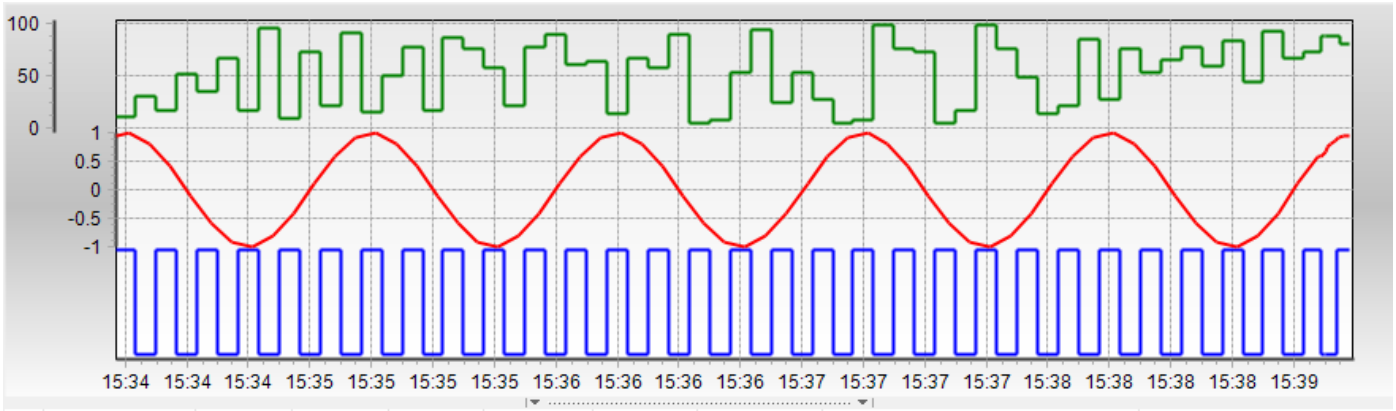
Actions when needed and not by schedule or anticipation

Our communications technologies provides limitless opportunities to monitor condition and performance of your equipment.

From anywhere you get the opportunity to constantly track the condition of your machinery, and react by actual status and not by planned schedule.



Series	Min	Max	Average	Current	Count	Std Dev	Errors
Pulse Train	0	1	0.48	1	66	0.5	No Errors
Sine	-0.99	0.99	0.08	0.95	67	0.71	No Errors
Random	4	99	55.08	81	66	30.58	No Errors

Analysis existing data

Your equipment may already have sensors and instruments installed in order to provide the necessary data basis for decisions.
Such data can be:

- Power consumption vs performance
- RPM vs performance
- Actual flow vs valve position
- Actual number valve operations
- Actual number of running hours
- Actual number of strokes
- Actual temperature

By collecting and evaluating against historical data, decision-making will constantly be improved.

Adding measuring devices

In some cases it may be convenient to add special measuring devices and connect these to the existing control system.
Such devices can be:

- Instruments for measuring vibration
- Instruments for measuring sound
- Instruments for measuring material thickness
- Instruments for measuring air quality

Summarized

This will give you the opportunity to be one step ahead of events! The cost reduction will be significant.

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Constantly track the condition of your machinery, and react by need and not by planned schedule

System monitors constantly, and you're notified only when something abnormal is about to occur

Based on current status, historical data and the trending of variables, the system will give a warning if something abnormal is about to occur or empirical values are exceeded.

By an event, you will have the basis to make the right decisions

By an alarm and through analysis of available data, accomplished a basis to make the correct decisions:

- Just an adjustment required ?
- Immediate action required ?
- An expert required ?
- Equipment replacement required ?

Our technologies

OPC UA is the data exchange standard for safe, reliable, manufacturer- and platform-independent industrial communication. It enables data exchange between products from different manufacturers and across systems.

inmation is a control vendor-independent connectivity and information management system for any industries' needs.
The system receives process data constantly, conduct a continuing analysis and alerts you when something unexpected occurs. And it provide the prescribed Key Performance Indicators.

Example HP Equipment

Maintenance schedule and recertification is done by date either its worn or not. It can be done by numbers and actual condition.

How many times has it been tested? How much volume at what rate has passed thru since last certification? What is the actual wall thickness?

Example Diesel Engine

Maintenance and vibration monitoring is done by service operator going to site at a scheduled date.

A remotely accessed diagnostics to decide status and when site visit and service is required. Then reduce costs by bringing only the right tools and the required spare parts.

Example HP Pumps

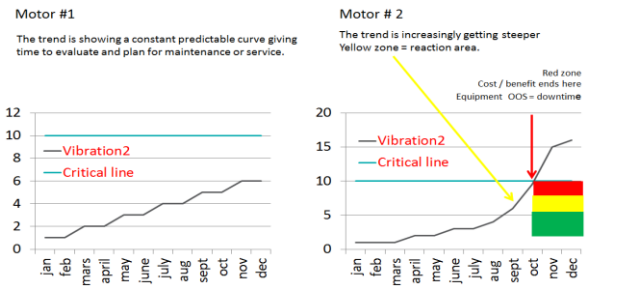
Traditionally, pumps are redressed when leaking occurs.

To reduce costs and down time, we should redress just before it starts leaking, based on his- torical number data of strokes vs volume pumped and average density and pressure.

Example Electric Motor: Vibration Monitoring

Maintenance and vibration monitoring is done by service operator going to site at scheduled date.

It can be logged continuously. Real time, weekly or monthly data log evaluation and reaction based on actual condition.



Big data are available. The task is to analyse and structure this leaving only the essential data being presented!

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