EXAKT - What is it ...?
A decision support tool for predicting reliability and optimizing condition based maintenance.

EXAKT - What can it do ...?
Predict equipment failure. Estimate remaining useful life of equipment. Define the mix of preventive replacement & run to failure in order to:

➤ Optimize costs
➤ Optimize reliability
➤ Achieve the optimum risk/cost/reliability balance

The EXAKT BENEFITS

➤ Production Reliability – is improved and operating costs reduced by predicting failures before they occur.
➤ Zero Equipment Downtime – before the end of the production run providing operations with a high level of confidence.
➤ Accurate Maintenance Scheduling – by predicting remaining useful life.
➤ Eliminate Analysis of low-impact data – by directly relating condition variables to failure modes with statistical confidence levels.
➤ Reduction of maintenance costs – by optimizing the frequency of preventive replacements.
➤ Effective equipment & component replacement planning – through accurate prediction of remaining useful life.
➤ Accurate failure prediction – for complex equipment, by operating at the component level.
➤ Consistent & accurate prediction model – for each piece of equipment.
➤ Focused on key operating and condition variables – reducing data collection and analysis costs.
➤ Ongoing system maintenance minimized – as a self-checking analyser ensures the ongoing accuracy of statistical formulas.
➤ Results at a glance – through easy to read graphs requiring minimal training.
The EXAKT Software Snapshot

SAMPLE EXAKT RESULTS

- Maintenance cost reductions of 10 to 49% per failure mode
- 84 to 100% reduction in failures
- Consistently statistically significant confidence levels

EXAKT BASIC INPUT DATA

- Equipment and component parameters.
- Event data from the work order (data relating to events that affect the equipment, such as failures, suspensions, frequency, working age).
- Condition data – vibration, oil sampling, temperature etc...
- Failure modes.
- Preventive and failure replacement costs.

EXAKT SAMPLE OUTPUT DATA

- Optimum % balance of preventive replacement and run to failure maintenance.
- Cost impact related to current practice.
- Statistical validity of alternative models.
- Remaining useful life.
- Expected time between replacements
- Traffic light graph with a current status trend line – the equation of the variables is monitored by EXAKT, with “Replace/Don’t Replace” conclusion in the red zone indicating the need to replace immediately.

INDUSTRIES SERVED

- Any industry where asset replacement cost or equipment failures are a significant part of their operations
- Any heavy industry such as mines, steel, metals processing, chemicals, oil and gas, petrochemical, pulp and paper, large transportation (aircraft to truck and bus)
- Discrete manufacturing facilities – automotive, electrical, components, furniture, tires, plastics
- Process manufacturing – pharmaceuticals, food and beverages
- Municipal, state/provincial and federal departments, military, customs, airports
- Telecom, gas, electrical, water distribution companies
- Success Stories in Urea and Chemicals (compressors and pumps), Mining (haul trucks and shovels), Defence – (frigate diesel engines), and others

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