



# Condition Monitoring

Diagnosis and Cure

know-how makes the difference

**ERIKS**

# WHY CHOOSE ERIKS?

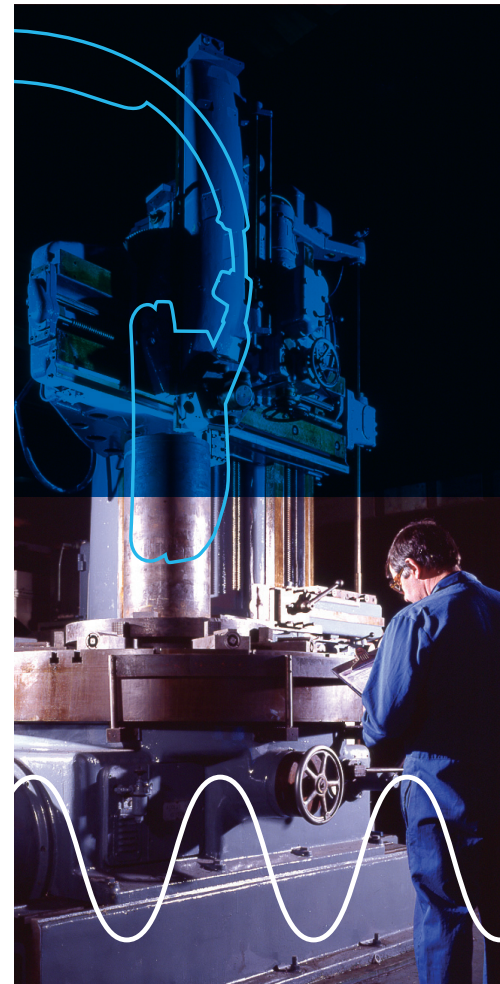
**Most Condition Monitoring reports only give you a diagnosis. But the comprehensive capabilities and holistic point-of-view of ERIKS mean a Condition Monitoring report gives you the cure too.**

ERIKS Condition Monitoring Services (CM) collects, stores, compares and analyses key variables from your machines, enabling you to assess their health. Then – if failures or deviations from the norm are detected – ERIKS' know-how comes into play, to diagnose the cause and prescribe the cure.

## **So you can make planned, proactive decisions, to:**

- Avoid catastrophic failure
- Minimise downtime
- Achieve environmental and safety compliance

In addition, once the problem has been diagnosed, ERIKS repair, replace or upgrade capability means you get a solution-neutral approach that delivers the very best value.





# WHAT MAKES ERIKS DIFFERENT?

**ERIKS offers more than Condition Monitoring expertise. You also benefit from comprehensive product knowledge covering your whole machine – from the motor to the drive chain, and from the gearbox and bearings to the lubricants and electrics.**

And if a problem is identified, you get more than just a report. You get a solution.

Having identified the problem through Condition Monitoring, ERIKS can investigate the root cause, then re-engineer, repair or replace the failing components, to eliminate the cause, prevent the failure, and even increase the component's efficiency.

As the only accredited national SKF Certified Maintenance Partner in the UK, ERIKS can also call on additional expertise to deal with problems and offer solutions for machinery beyond their usual remit, such as wind turbines.

Continual investment in new Condition Monitoring technology helps ensure that customers always receive the most accurate and timely diagnosis, enabling ERIKS to offer the most cost-effective cure.

# ADDING VALUE TO YOUR BUSINESS

**Properly conducted Condition Monitoring can actually pay for itself in repair cost savings alone – and ERIKS Condition Monitoring goes even further in the benefits it offers. In fact, CM from ERIKS adds value, not costs, to your business.**

The holistic approach and comprehensive capabilities of ERIKS means you can realise savings in many areas, turning your maintenance department from a cost centre to a profit centre.

For example, you can expect:

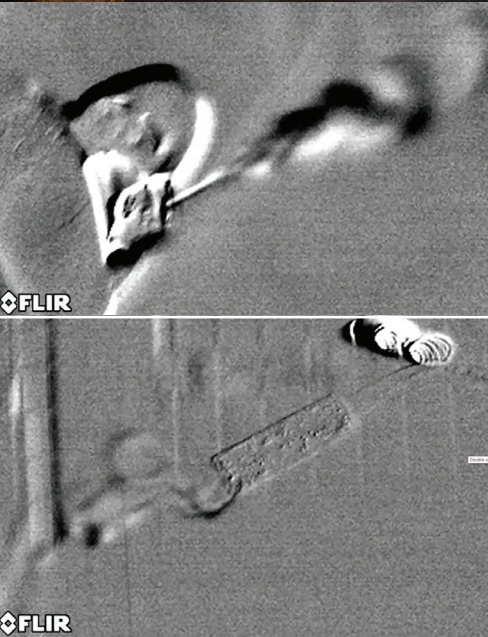
- Improved plant availability
- Increased plant uptime
- Improved productivity
- Improved production scheduling
- Increased component life
- Increased plant efficiency at higher throughputs
- Improved energy efficiency
- Improved reliability

In addition, improved root cause failure analysis can help to reduce maintenance costs by identifying the underlying problem, which can be solved before it leads to secondary damage.

# SERVICE TO THE HIGHEST STANDARDS



For your reassurance of the highest standards of service, ERIKS Condition Monitoring is provided by CM personnel trained and certified to the highest levels.



- **ISO18436 CM standard.** Every ERIKS engineer undertaking Condition Monitoring is certified to ISO18436. This international CM standard includes a Code of Ethics which includes a requirement that the CM service should never be knowingly over or undersold.
- **SKF Certified Maintenance Partner (CMP).** As the only national SKF Certified Maintenance Partner (CMP) in the UK, ERIKS can call on the knowledge and expertise of the world's leading bearing manufacturer. ERIKS delivers the CMP program as part of its broader Technical Services offering, providing customers with consultancy, supply, installation and commissioning of products, systems and processes.
- **Research and development.** ERIKS is a regular contributor to research and development into high-end CM practices, in particularly with Cranfield University School of Engineering.
- **Constant Investment in New Technology.** Be it on line surveillance systems or the latest thermographic cameras. ERIKS are always first to market with innovative products applicable to your solution.



# ALL THE SERVICES AND FACILITIES



## Expertise in:

- Electromechanical machines
- Rotating equipment
- Accurate analysis of machine data
- Heat energy surveys with cost-saving information
- Cost-avoidance SLAs
- Find and fix air leak surveys

## Capabilities:

Machine protection by

- Periodic portable monitoring
- PLC/SCADA or internet linking
- Stand-alone protection
- Permanent data collection
- Email, text and digital output alerts

## Tools and facilities:

- Latest high-resolution thermographic equipment
- Market-leading vibration analysis data collectors and software
- In-house and external oil analysis
- Ultrasound (airborne) detectors
- High-end analysis
- Small bore pipework vibration testing
- Hand/arm vibration syndrome testing
- Optical Gas imaging enabling early detection of the majority of petrochem gases as well as mains gas issues

## Equipment supported:

- Kittiwake Holroyd
- Pruftechnik
- Rockwell Automation
- Hansford sensors
- Emerson
- Monitran
- Sononics
- SKF
- C-Cubed
- Flir Systems
- Siemens
- IFM
- HMS
- And many more



# YOU NEED



## CASE STUDY

### Gas leak detected and potential explosion averted.

A customer asked ERIKS to conduct an Optical Gas Imaging (OGI) survey of their pentane gas system.

#### SITUATION

The customer was aware of a defect with their pentane gas system, but not of the nature of the defect.

#### SOLUTION

ERIKS has invested in OGI technology and has Level II OGI-certified technicians specially trained to operate the sophisticated thermographic camera. Pentane – like many other gases – is opaque at the camera's operating wavelength, enabling ERIKS to detect a pentane leak from the system.

#### SAVING

Early detection of a minor leak of an explosive gas prevented the defect worsening, with the potential for a more serious leak. This could have led to the formation of a gas cloud and the possibility of an explosion, with resulting danger to life and catastrophic loss of production. Detection also enabled the customer to comply with HSE guidelines.





**Maagtechnic AG** | Sonnentalsstrasse 8, CH-8600 Dübendorf

**T +41 (0)848 111 333**

[verkauf-ch@maagtechnic.com](mailto:verkauf-ch@maagtechnic.com)

**Maagtechnic AG** | Chemin de Mongevon 23, CH-1023 Crissier

**T +41 (0)848 111 666**

[vente-ch@maagtechnic.com](mailto:vente-ch@maagtechnic.com)

[www.maagtechnic.ch](http://www.maagtechnic.ch)

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