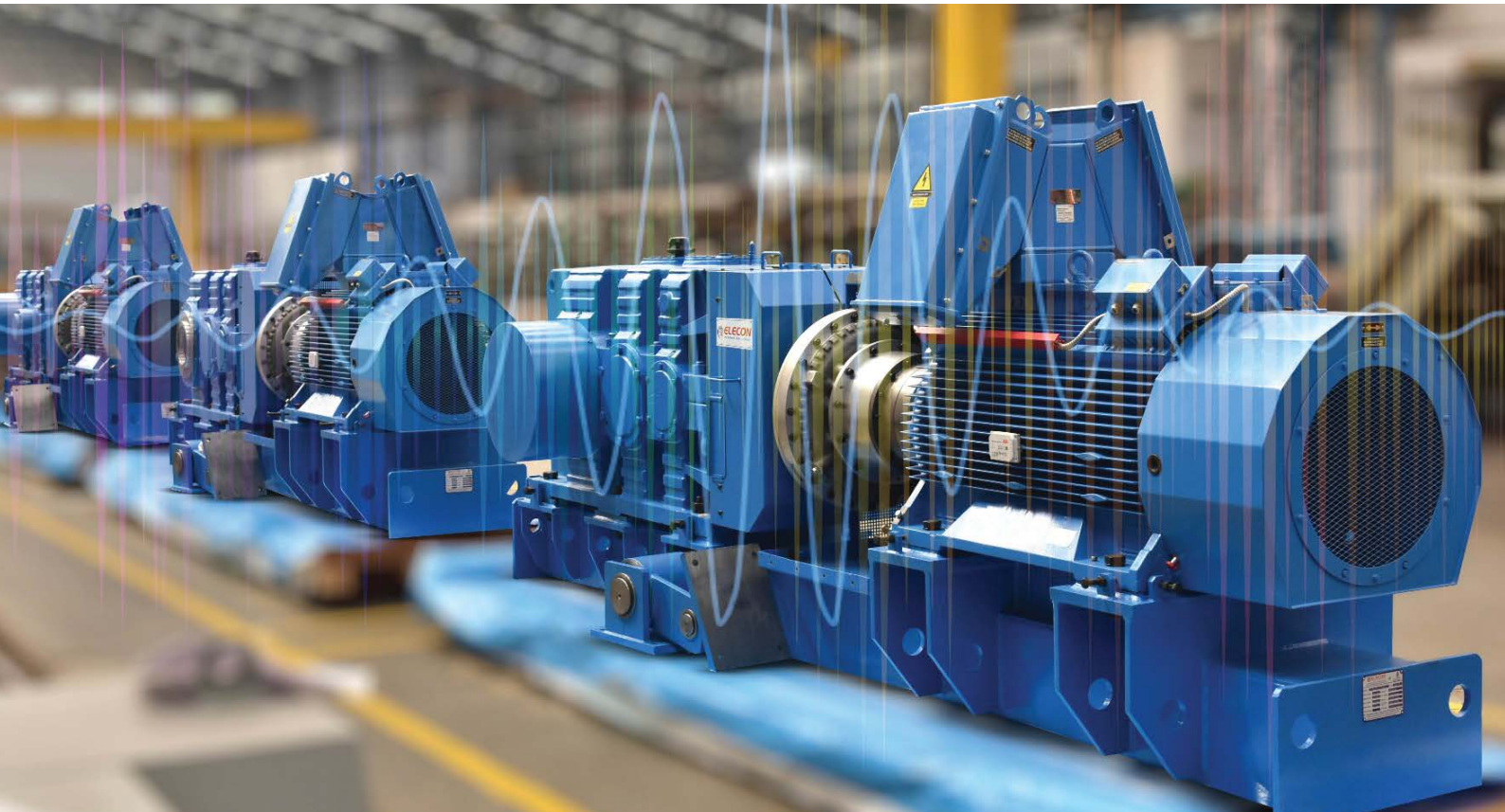


ELECON DIGITAL INTELLIGENT SERVICES

CONDITION MONITORING



Keep Your Plant Running.
Stepping Up Your Production.



226/EECL/CMS/4-2023

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Elecon Condition Monitoring System (ECMS) for Gear Unit

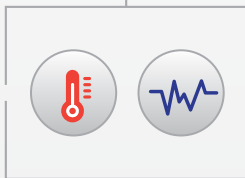
In order to detect abnormality early, the appropriate sensors are installed on the gear unit as part of our diagnostic services. Depending on the configuration, these can measure vibration, temperature, rotational speed, oil life and motor current



Option 1

ECMS-1 Diagnosis system to measure deviation in temperature & vibration from normal condition.

Standard Gear Units



ECMS-1



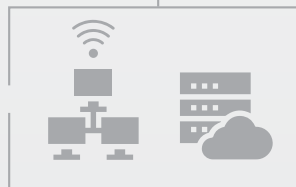
Option 2

ECMS-2 Diagnosis system to measure deviation in temperature, vibration & speed from normal condition.

Standard & Special Gear Units



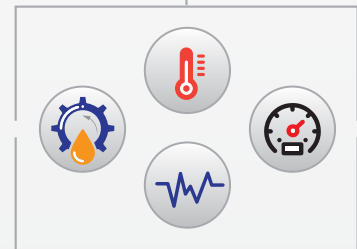
ECMS-2



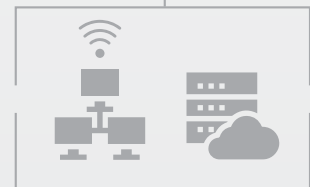
Option 3

ECMS-3 Diagnosis system to measure deviation in temperature, vibration, speed & oil life from normal condition.

Standard & Special Gear Units



ECMS-3



Note: Extra monitoring factors should be included in customised or special ECMS designs as necessary.

ECMS

Option 4

ECMS-4 Diagnosis system to measure deviation in temperature, vibration, speed, oil life & motor current from normal condition.

Standard & Special Gear Units



ECMS-4



Challenges for Industry

Manufacturing or process facilities must operate safely, reliably and with as little downtime as possible.

Targets in Industry

- ◆ Availability of the plant
- ◆ Detection, diagnosis and location of anomalies and pinpointing their causes.
- ◆ Optimization of maintenance schedule
- ◆ Purchase of spare parts just when they are needed

Solution - Intelligent and professional diagnostic system for the gearing of the future

The objective of ECMS is the increase of availability of Gearbox by means of intelligent condition monitoring, evaluation of actual condition of Gearboxes and recommendations for preventive maintenance based on knowledge of the original equipment manufacturer.

ECMS is an important step into the digital future. ECMS is helpful thru our experts to judge precise early damage in gear unit. In connection with optimized spare parts management, life cycle costs are significantly reduced and longer unit downtimes virtually eliminated.

The best condition monitoring device from Elecon could be able to foresee gearbox failure and condition during startup. Predictive and preemptive maintenance are both a part of condition-based maintenance. Predictive and preemptive maintenance both fall under the category of condition-based maintenance. It is built on predictive technologies such as RPM, temperature, oil and vibration tracking.

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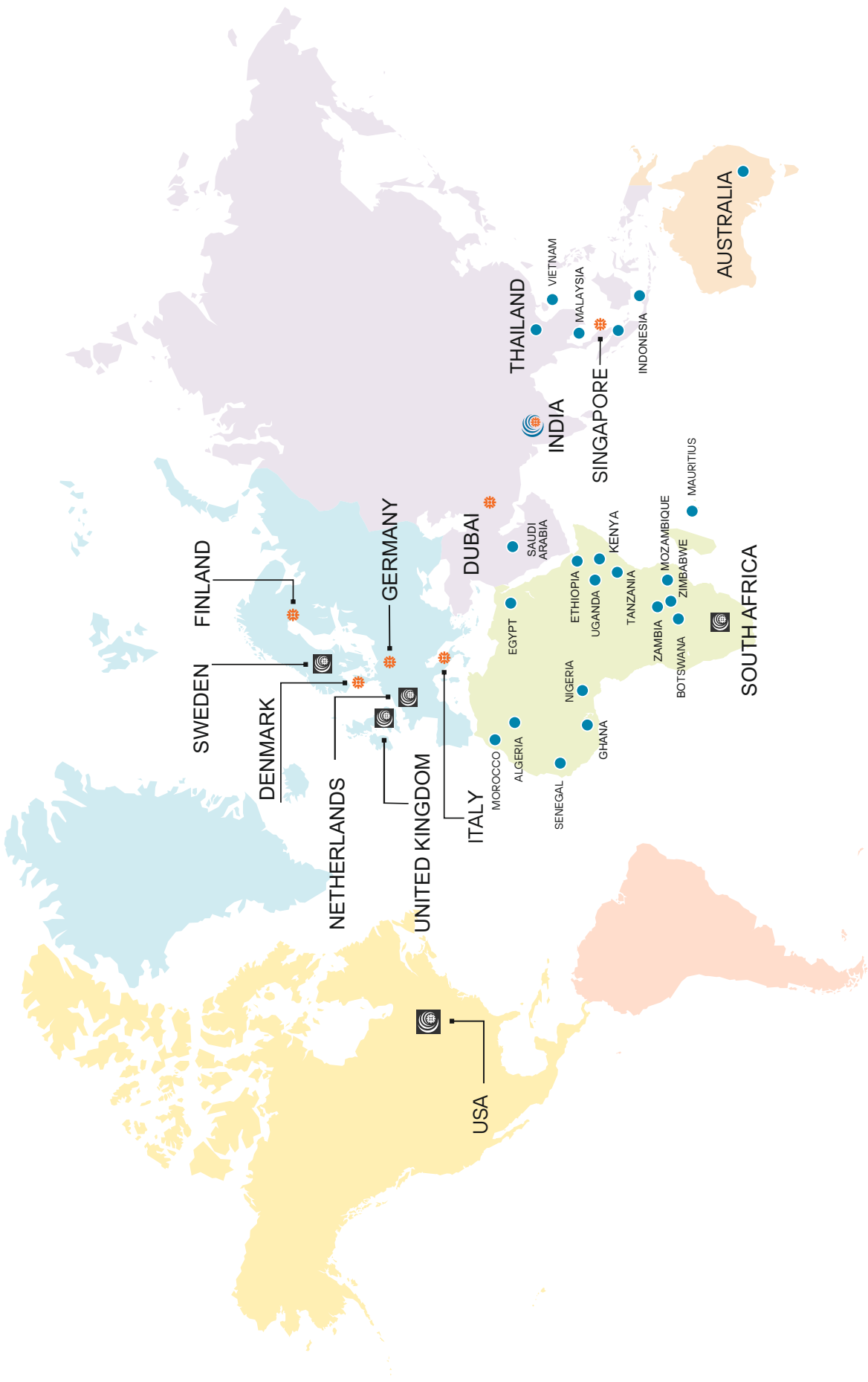
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