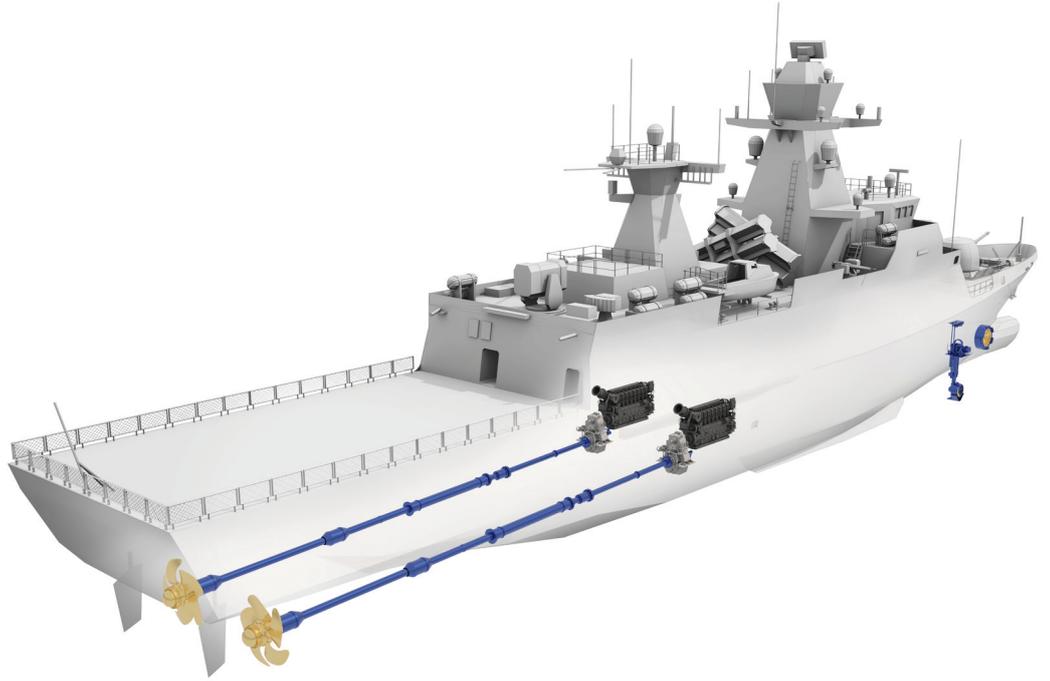




YOUR PROPULSION EXPERTS

SCHOTTEL AFTER SALES SERVICE
PREDICTIVE MAINTENANCE &
FIELD SERVICE SUPPORT



MAINTENANCE METHODS FOR NAVY AND COAST GUARD VESSELS

Servicing is done at fixed intervals and does not take into account the current wear of the parts. As a result of this, the maintenance intervals are solely provided and calculated on a long-term basis. These intervals do not include unexpected breakdowns or low system use. As a consequence of this, the aggregate costs can increase to a high level.

This directly influences the economic efficiency of the whole vessel. – A standard periodical maintenance and continuous monitoring of various azimuth thruster parameters enables the operator to detect faults in advance and take predictive maintenance measures.

FUNCTIONALITY CHECKS

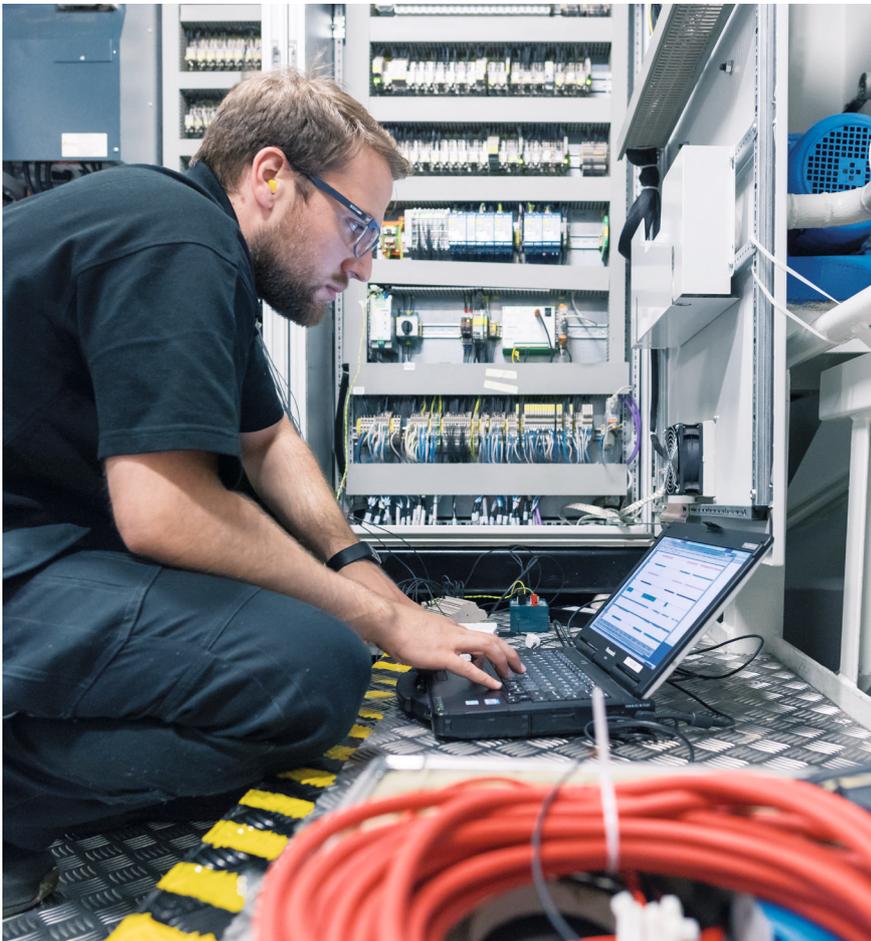
Non-invasive measuring and visual inspections of mechanical or electrical components.

Mechanical inspection

- Shaft line arrangement
- Pneumatic system
- Hydraulic systems
- Oil samples
- Vibration measurements

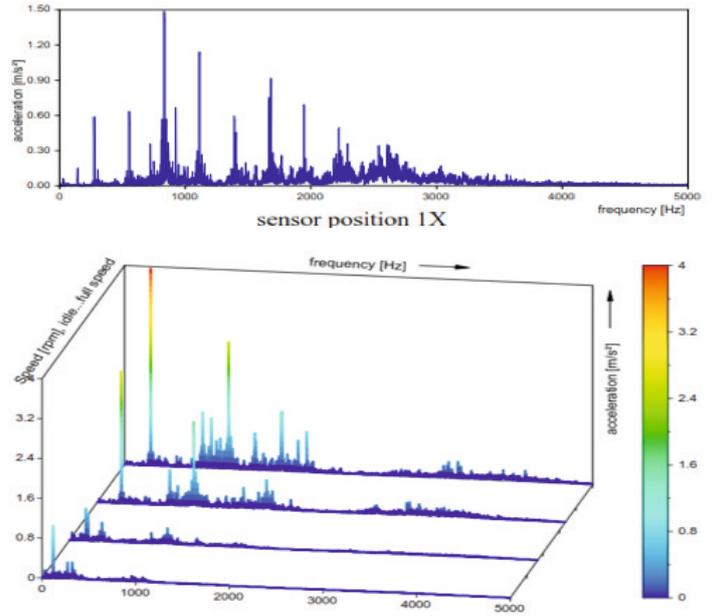
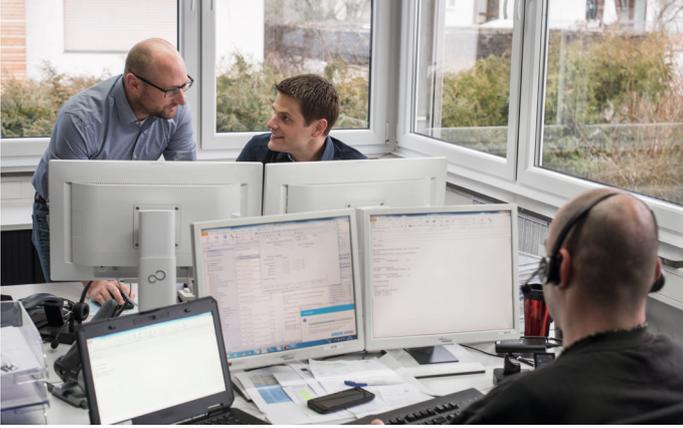
Electrical inspection

- Alarm system verification
- Control system parametrisation
- FFU & NFU
- System check



Data collection, analysis & reporting

- Status report
- Customized maintenance recommendation
- Optimized spare parts management



Analysis of rotational parts

gearsets,
bearings,
shafts,
propellers



Oil analysis

water in oil
oil temperature
external contaminants, metal
particles, cleanliness
code ISO 4406, TAN

Operational parameters



input speed, steering times,
temperatures, interface,
system pressure signals

ENHANCE RELIABILITY

Act proactively and save money in avoiding sudden downtime. Our maintenance programmes offer strategies for maintaining the reliability of equipment, thus expanding service intervals while reducing maintenance downtime.

Life-cycle cost
will decrease

Customized
maintenance plans

**Preventing
machine
damage by
early fault
detection**

Unexpected breakdowns
can be avoided

Close contact between
customer / SCHOTTEL

SCHOTTEL Your propulsion Experts

PROFESIONAL
PARTNERSHIP –
THROUGHOUT THE
VESSEL'S LIFE

As a SCHOTTEL customer you benefit from individual in-depth advice and support at all stages of a project, from planning and commissioning through to predictive maintenance.

A dense worldwide service network is ready to offer assistance and ensure the swift supply of spares parts – along with experienced SCHOTTEL technicians if required.

The name of SCHOTTEL traditionally stands for quality in engineering with over 90 years of experience in design and the precision workmanship of a family-owned enterprise. Our innovative propulsion systems are a byword for reliability and high performance and set standards in global shipping.

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