

# Ship Performance Monitoring

Powered By  
**SmartPort**



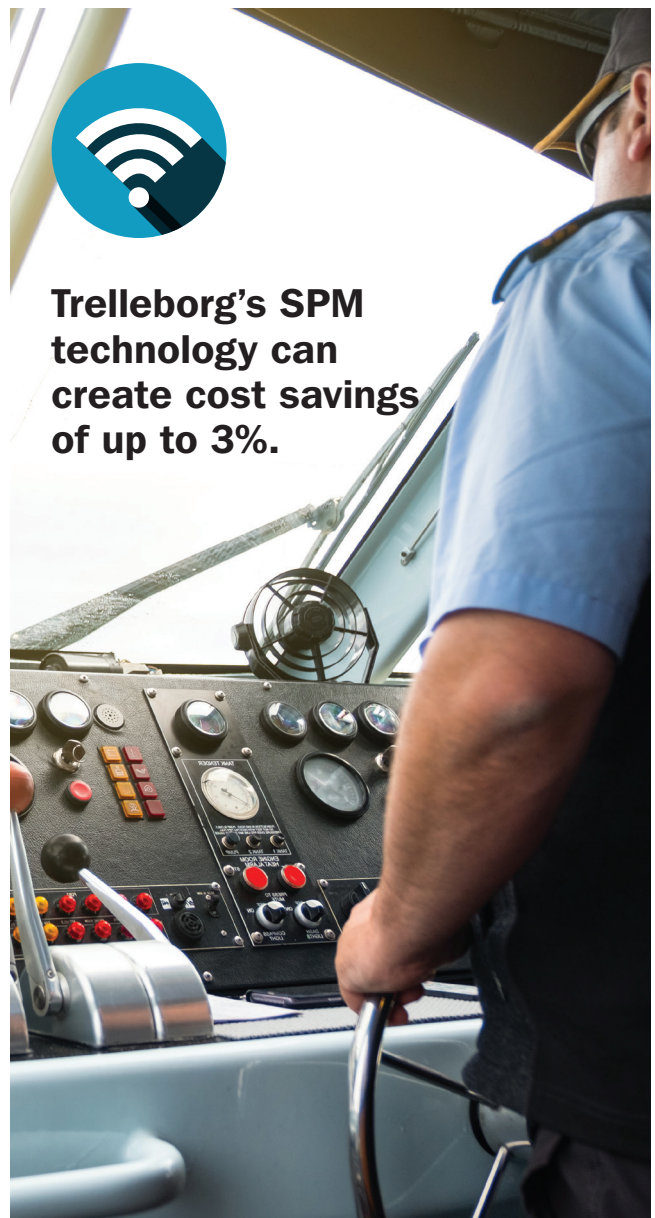
**Trelleborg's suite of ship performance monitoring products helps ship owners and crew manage and maintain ship performance over the entire voyage, maximizing efficiency and enabling significant fuel savings.**

Utilizing 30 years of experience in the vessel technology market, Trelleborg has developed a Ship Performance Monitoring System that is compliant with ISO19030 and can take over 100 key inputs from a vessel in order to help the on board and onshore staff optimize the performance of each vessel.

## **SMART SOLUTIONS, SMART PERFORMANCE**

Fuel is the single largest operational cost involved in running a vessel and fuel prices are rising dramatically. Ship owners, ship managers and charterers alike are looking to reduce costs - and minimizing fuel consumption is a critical pathway to doing so.

Ship Performance Monitoring (SPM) and Optimization systems, a key part of Trelleborg's SmartPort platform, monitor and control the performance of complex vessels such as multi-engine Ro-Ro ferries and LNGCs.



**Trelleborg's SPM technology can create cost savings of up to 3%.**

## KEY FEATURES

### A wealth of data points

Taking data inputs from fuel mass flow, shaft power, draught, trim, auxiliary machinery energy consumption and output, machinery configuration and water depth as well as manual estimates of hull fouling and fuel bunker quality, GPS, wind direction and wind speed the system continuously calculates machinery and hull efficiency.

### Controlled variables

External parameters that affect efficiency reporting can be isolated so that the base vessel efficiency in operation can be maintained by adjustment of propulsion power, mode and controllable factors such as trim.

### Repeatability and accuracy

Assured by the strain gauge technology used in Trelleborg's advanced Shaft Power Meter and fitted to over 500 ships globally.

### Complete compatibility

Modular interfaces and network capability enable the system to be configured to accept any signal, digital or analogue, and link with Discrete or Integrated Automation Systems (IAS) or Machinery Systems (MACS).

### Onboard data management

Shipboard management systems for networking, printing, data storage and data transfer to remote offices.

### Fully supported

A team of experienced service engineers and performance analysts / specialists provides installation, commissioning and in-service support worldwide. A network of experienced sales / technical agents and associates worldwide provides further support, and ongoing technical training is offered to both customers' and associates' engineers worldwide.

## TANGIBLE BENEFITS

Trelleborg's SPM technology can elicit efficiencies, reduce emissions and create cost savings of up to 3% for vessel operators through:

- Continuous calculation of ship efficiency
- Calculation of Energy Efficiency Operational Indicator
- Proactive administration of mandatory SEEMP and other company specific KPIs
- Increased vessel efficiency through continuous crew awareness of efficiency and potential for wastage
- Data transmission via Ship IT network for onshore monitoring & reporting for fleet management teams
- Data transmission to Trelleborg SmartPort Cloud for on-going analysis and trouble shooting of efficiency issues

The features of Trelleborg's SPM systems can deliver tangible ROI within months, not years.

# SmartPort by Trelleborg

SmartPort by Trelleborg powers the critical interface between ship and port, on land and at sea. Visit our website to access our case studies and white paper, plus the entire suite of SmartPort solutions.

SmartPort



Learn more  
about **SmartPort**  
solutions

### GET IN TOUCH:

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