Haskoning’s Smart Mooring Platform implemented across MSC Cruises fleet

MSC Cruises is the first cruise line to implement Haskoning’s Smart Mooring software platform across its entire global fleet of 23 vessels.

The ship-side application aims to enhance safety, precision and operational efficiency during port calls through predictive insights, the companies said.

The platform is a decision-support tool that integrates dynamic mooring analysis with localized weather forecasts. The software predicts mooring forces and vessel motions.The application provides vessels with predictive data to safely dock, manage line tensions in port, and respond dynamically to weather changes from the bridge. The system aims to reduce the risk of line or bollard failure and potential damage to equipment and infrastructure.

“We have tailored the Smart Mooring platform together with Haskoning to the specific operational needs of the eight different classes of our cruise ships,” said Ian Meachem, port operations manager at MSC Cruises.

“This provides our onboard bridge teams with actionable insights and the ability to reduce the reliance on static mooring or port-side analysis. This represents a positive step forward towards safer and smarter port operations.”

The software delivers continuous line forces monitoring based on weather predictions and local characteristics, environmental input integration, and predictive risk analysis for mooring failure or bollard overload.

“We are proud to work with MSC Cruises to bring this cutting-edge platform into active shipboard use,” said Coen Eggermont, Smart Mooring lead at Haskoning.

“We have created a solution finely tuned to the needs of cruise captains and their crew, supporting their decisions with scientific insights, with safety and efficiency being paramount at every port call.”

The platform features intuitive dashboards and alerts available from the bridge.