

A new universe of safety solutions.

The ship is our universe, safety is our mission



martec marine

ONE SAFETY UNIVERSE

www.martecmarine.it



An Integrated Universe of Safety Solutions

Martec Marine is your specialized partner in onboard safety engineering. We develop integrated monitoring, control and decision support systems for emergency management (fire and flooding) and critical scenarios on cruise ships, navy vessels and megayachts.

All our solutions - software, hardware, interfaces and protocols - are developed in-house ensuring continuity, consistency and reliability throughout the entire life cycle of the ship.

Martec Marine was founded as a specialized division of Martec S.p.A., an Italian company with over thirty years of experience in the design of safety systems for the naval and military sectors.

Martec Marine has grown into a group of autonomous, specialized companies working in full synergy. Martec Marine has its operational headquarters in Milan, with branch offices in Genoa and La Spezia, a subsidiary in the United States, one in France and a software house in Ivrea.

We collaborate with leading European shipyards and major cruise lines, as well as with the Italian Navy. Martec Marine represents the integration of technology, expertise and processes at the service of solutions that require high standards of reliability and contribute to the safety of people and ships.

An Italian Group with a Global Vision

Integrated Safety Engineering

Martec Marine's vision is simple yet ambitious: to be a solid, independent company capable of developing and offering proprietary distinctive solutions to the market.

We believe in an organization built around creative, passionate people who see their work as a source of value and personal fulfilment. This approach defines our corporate culture, based on the quality of our work and the pride of being part of a company that really makes a difference.

Engineering, for us, is a language centered on people. Ships evolve, risks change: safety systems must be able to evolve with them.

Where Engineering Meets Integrity

Our identity is built on six fundamental pillars:



Customer focus, long-term service

Customer satisfaction guides our every choice, their needs are our compass. We listen, we translate every need into concrete solutions, supporting the ship throughout her life cycle and building relationships based on trust, continuity, and long-term value.



Integrated and proprietary design

Hardware, software, interfaces, algorithms and protocols are developed in our laboratories and designed to work together from the outset. Systems that coordinate in a native, open, scalable and redundant architecture, designed to ensure reliability and operational continuity.



People first

For us people are at the center: in the systems we design and the culture we build. With interfaces designed to support decisions at critical moments and a company that values skills, teamwork and pride in being part of an excellence-oriented organization.



Operational reliability

Full redundancy, advanced algorithms and robust construction guarantee operational continuity in the most critical scenarios. Each system undergoes rigorous testing cycles. Our products are certified by the leading marine classification societies.



Continuous innovation

We develop solutions that evolve alongside operational needs: advanced decision support, interactive video walls, tactical tables and Explainable AI. The future of safety is built through a process of continuous improvement, iteration after iteration.



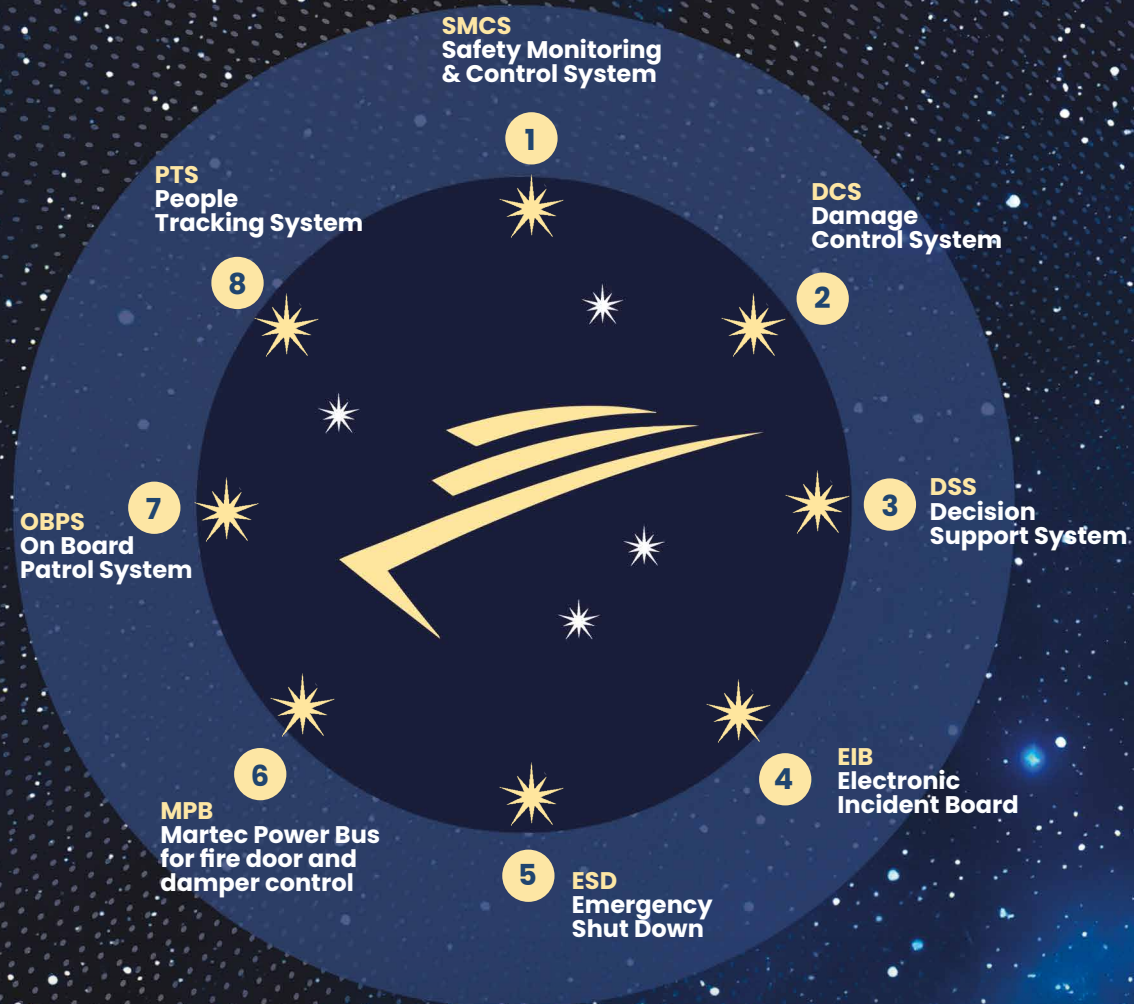
Honesty, transparency, respect, partnership

These values guide the way we work and relate to customers, people and partners. We operate with responsibility and clarity, respecting the dignity of work, the environment, and the social context in which we operate, building solid and lasting relationships based on trust.

A Connected Universe of Integrated Solutions

Martec Marine has developed its own universe of integrated solutions, a coherent constellation of systems and modules capable of working as a single intelligence:

- 1** Safety management system for cruise ships that controls and coordinates all on-board systems and supports the operator in all emergency management activities following fire and flooding.
- 2** Safety supervisor specifically designed for navy vessels: it supports damage management in every operational phase of the ship, including combat.
- 3** Computer decision support engine that assists the operator in implementing all phases of emergency management operating procedures and other critical onboard operations.
- 4** Interactive graphic tool that supports team emergency management, allowing operators to share and visualize key information in real time, by directly drawing them on ship's general arrangement plans views of SMCS/DCS.
- 5** Automatic control system that, in the event of fire, manages emergency responses by monitoring and controlling the onboard elements involved and by implementing the safe and sequential shutdown of critical machinery and processes.
- 6** Distributed bus infrastructure to control fire safety devices onboard, designed to simplify wiring, improve system scalability and ensure high operational reliability.
- 7** System dedicated to the planning, execution and supervision of onboard security patrols, supporting control and prevention activities.
- 8** System to detect and monitor crew presence in critical areas of the ship, designed to ensure high reliability and redundancy.



Every system communicates. Every system contributes to the same vision: giving the crew total control of the ship, in every condition.
This is our universe.

CRUISE

Safety for Life at Sea

On cruise ships, safety is not just a requirement: it is a vital part of the onboard experience.

Martec Marine's SMCS platform unifies alarms, incident management, decision support, critical automation, visual interfaces, video walls and mobile devices into a single, coherent architecture.

Chosen by the world's leading cruise lines, Martec Marine's SMCS has been installed on over 160 vessels and will be implemented on more than 30 newbuildings to be delivered over the next three years. Martec Marine's SMCS guarantees operational continuity, high responsiveness and complete control of the entire onboard safety ecosystem.



NAVY

Technology for Critical Missions

For Navies Vessels, technology is a strategic factor. Martec Marine's systems are designed according to NATO and MIL-STD standards, engineered to withstand the most extreme operating conditions.

The systems provide the ship's command and crew with reliable tools to react immediately and in a coordinated manner in critical scenarios to protect the objectives of the assigned mission. Technology becomes an integral part of the chain of command, far beyond a simple support function.



The Heart of Total Safety

The Safety Monitoring & Control System is the beating heart of the Martec Universe.

A system distributed on a redundant fiber-optic LAN, with advanced vectorial graphics, workstations, video walls and rugged mobile devices.

The SMCS is designed to:

- collect data from all subsystems
- present data in an integrated manner using 2D and 3D representations
- activate automatic strategies
- coordinate complex actions
- suggest procedures via DSS

The intelligence governing the ship's safety ecosystem.

The future of marine safety depends on the ability to anticipate needs.

This is why Martec Marine constantly invests in R&D:

- Certified cyber-secure architectures
- Interactive video walls and tactical tables for advanced man-machine interactions
- Decision Support Systems with integrated intelligent agents capable of interacting with the operator (Explainable AI)

Every upgrade of the SMCS platform is based on real experience at sea, analysis of operations, and continuous dialogue with customers. For us, innovation is a path of continuous evolution based on solidity and reliability.

Engineering the Future

Safety Management systems are only effective when they are understandable and easy to use in all conditions.

That's why all our interfaces — from bridge consoles to rugged tablets, tactical tables to video walls — are designed with a human-centered approach that prioritizes clarity, ergonomics and teamwork.

The operators are more than users, they are a vital component of the system: every function is designed to support their choices, reduce decision-making stress, and improve interaction among safety-team members.

Technology never replaces people: it works with them.



Technology designed around People

Experience On Board

Our expertise is forged on the open sea.

With over 200 cruise ships and navy, vessels, as well as several equipped megayachts, Martec Marine has built up a wealth of knowledge that is unique in the industry.

Every ship, every test, every procedure is a piece that feeds and enriches our universe of integrated solutions.

This is what allows us to design faster, safer, smarter systems.

From Italy to the World

Offices in Italy, a subsidiary in the United States, a subsidiary in France,
collaboration with the main European shipyards, and direct support for all
phases of the ship's life cycle: design, installation, training, and service.

Safety on board.

Martec Marine: the integrated universe of marine safety.



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