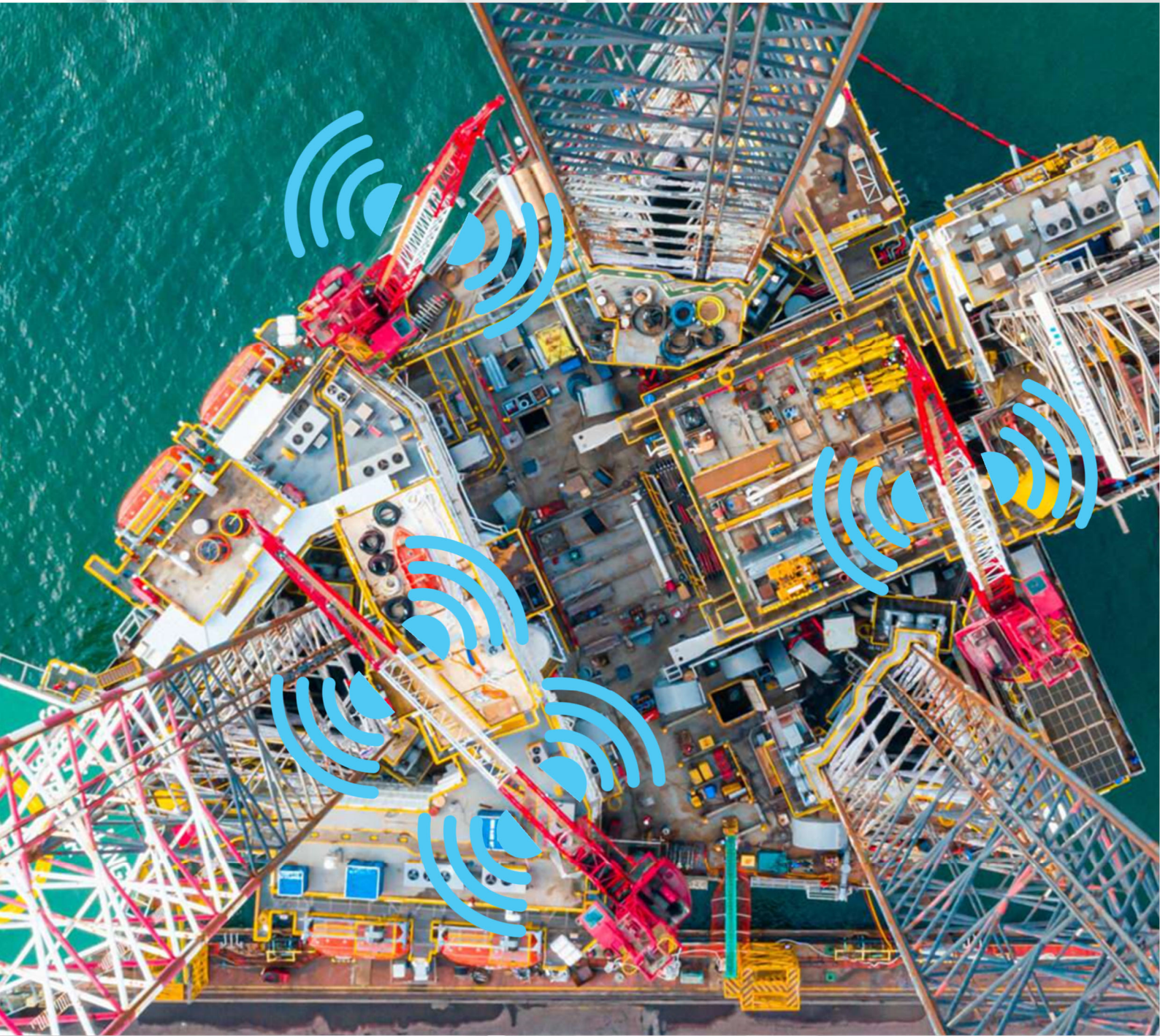


**SEA HERCULES**  
**CRANES**

# Collision Alarm System for Cranes



**Designed to Detect,  
Built to Protect.**

This innovative Collision Alarm System uses advanced sensors and real-time monitoring to warn the crane operator on possible boom collisions with surrounding objects, structures, and other cranes.

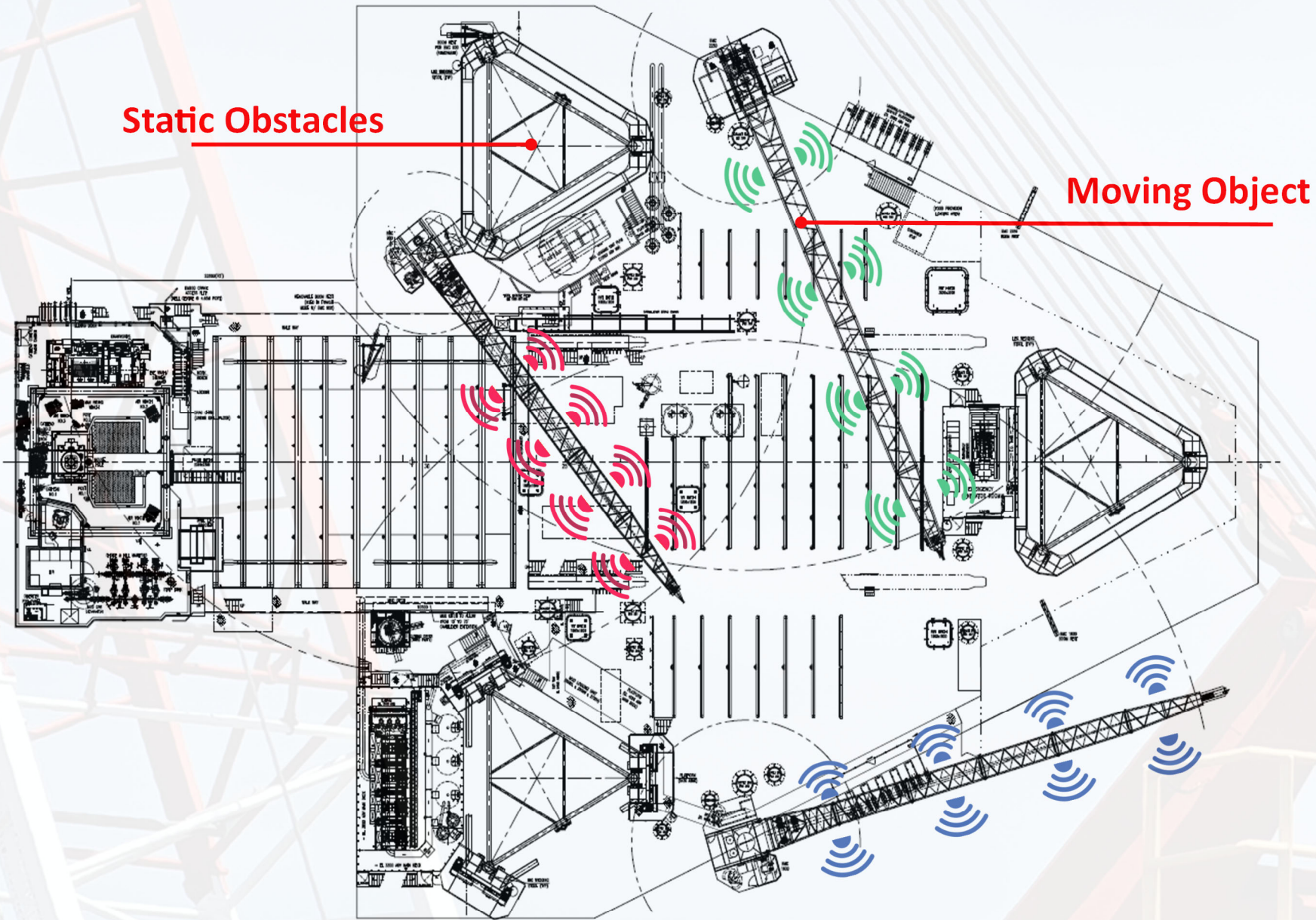
**SEA HERCULES CRANES** The system offers both **Dynamic and Static** protection to ensure the highest level of operational safety.



**Dynamic Protection** ensures that moving obstacles, such as nearby cranes, are continuously tracked.



**Static Protection** safeguards against fixed structures like jack up legs, jackcase, and scaffolding.



**RETROFITTABLE**  
Suitable for new and old cranes.

**FAST INSTALLATION**  
Installation takes 2-3 days

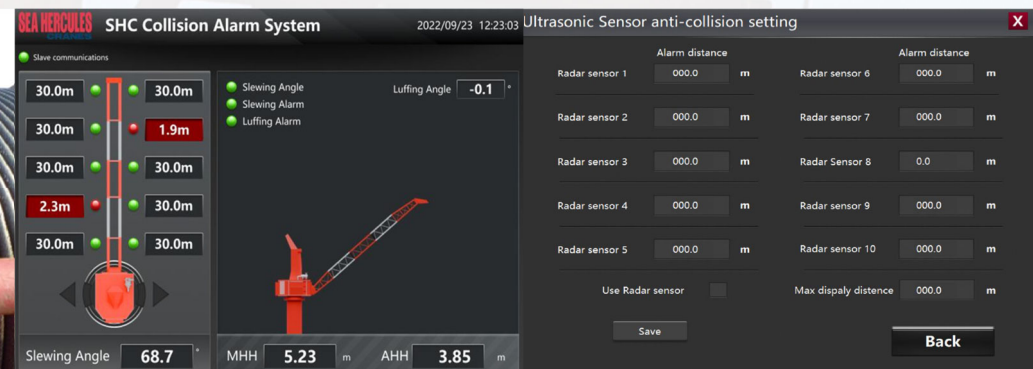
**STANDALONE**  
Will not interfere with existing system.

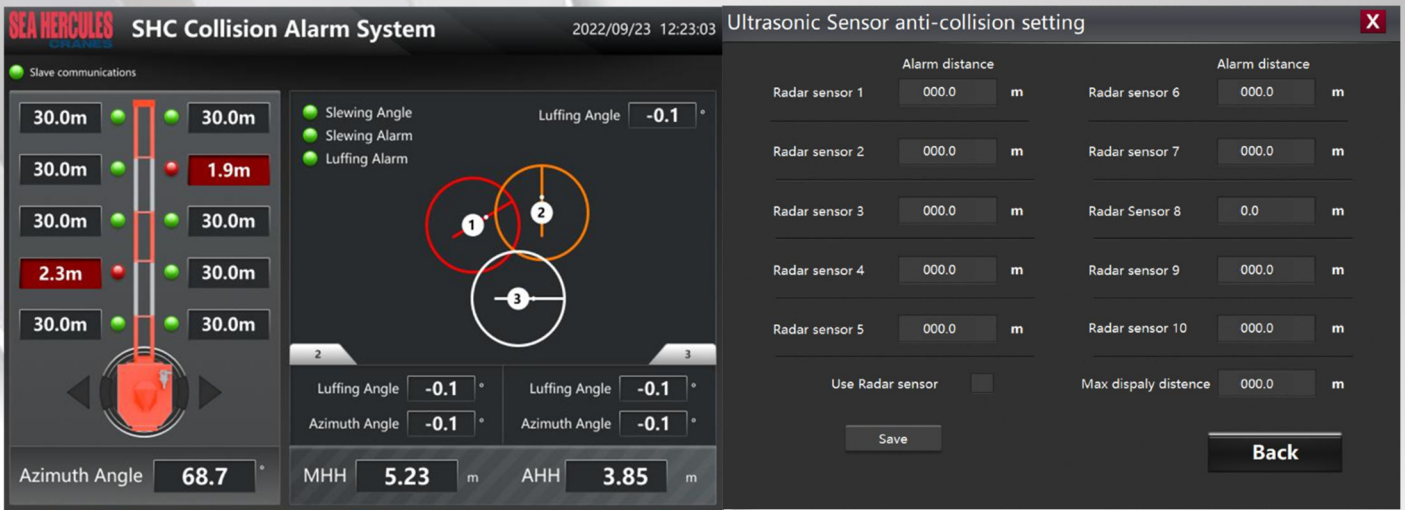
**Prevent Costly Accidents**  
**Real-Time Obstacle Detection:** Millimeter-wave radar technology actively monitors and detects obstacles, providing immediate alerts to prevent collisions. Whether it's multiple cranes operating simultaneously or a single crane at risk of colliding with fixed structures, our system significantly reduces the risk of accidents, protecting both equipment and personnel.

**Prevent Oversight and Human Error**  
**Minimize Human Mistakes:** The system provides automated alerts and real-time feedback, reducing the chances of human oversight or errors in judgment. This ensures that potential collision scenarios are addressed promptly and effectively.

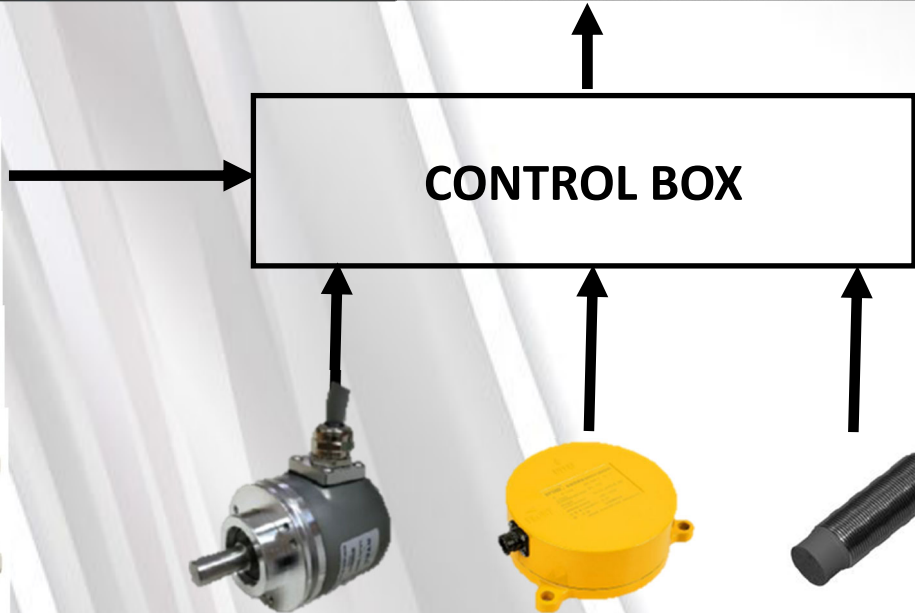
**Avoid Miscommunication:** By providing clear, real-time data and alerts, the system helps eliminate miscommunication between operators and crew members. This improves coordination and ensures that everyone is aware of potential hazards and safety protocols.

**Enhance Operational Efficiency**  
**Accurate Monitoring:** With real-time data and alarms, operators can make informed decisions quickly, enhancing the efficiency of lifting operations. The system's accurate spatial position calculations and obstacle avoidance parameters ensure seamless operations, even in complex environments.






Millimeter Wave Radar



Azimuth Sensor

Angle Sensor

Proximity Sensor

 Designed for hazardous area applications (Ex-proof)

The system features both Radar and 3D coordinate collision alarm technologies, providing comprehensive protection against potential collision risks. The radar alarm function employs radar sensors to actively detect obstacles surrounding the crane boom, continuously monitoring the distance to these objects in real time. Once the distance falls below a preset safety threshold, the system triggers an alarm to alert the operator to initiate preventative measures, effectively mitigating collision risks.

The 3D coordinate collision alarm mechanism operates by tracking key crane parameters such as boom angle, rotation, and hoisting height. These parameters are then analyzed in relation to the position of nearby obstacles. When the crane boom reaches specific angles or amplitudes that present a collision risk, the system automatically issues an alarm to alert the crane operator to adjust the crane's movement, ensuring safe operations and preventing accidents.

Subject to terms and conditions.

**Find Out What We Can Do For You.**

**Sea Hercules Cranes Pte. Ltd.**

*(Formerly known as Interseas Shipping (Private) Limited)*

No.6 Pioneer Sector 1 Singapore 628418

Tel : (+65) 68613255

Email : [marketing@seahercules.com.sg](mailto:marketing@seahercules.com.sg)



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