

CASE STUDY

Crane Safety

for a Fortune 500 Global
Steel Manufacturer



Key Challenge

A leading global steel manufacturer headquartered in Europe encountered significant challenges in enhancing workforce safety across their extensive warehouse operations. Previous critical safety incidents highlighted the need for improved safety measures, particularly in crowded environments where cranes moved heavy products, creating high-risk conditions. The company aimed to ensure that no personnel were present in crane movement areas during operations to mitigate risks and prevent accidents efficiently. They sought a solution that could be integrated into a single badge to address multiple safety and operational needs.

Solution

Litum deployed a comprehensive safety solution tailored to the unique challenges of the steel manufacturer's workspace. The system included multiple sensors on each crane to enable 360-degree detection, ensuring that no personnel were present under the cranes during operations. If movement was detected, an alarm would sound to alert the crane operator. To enhance safety further, the solution featured a collision warning system to help prevent accidents involving cranes, forklifts, and personnel.

Deployment

23,000
square meter area

**The numbers indicated are as of July 2024. Expansion with the client continues.*

Features



360-Degree Detection: Sensors on each crane provide complete detection coverage, ensuring no personnel or obstacles go unnoticed



Collision Warning: Real-time alerts to mitigate potential collisions between cranes, employees, and forklifts



Exclusion Zones and Geofencing: Establishing designated safety zones to prevent unauthorized access and manage personnel movement effectively



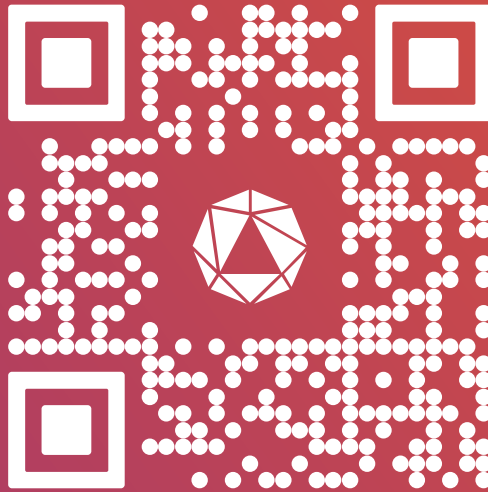
Integrated Alerts: Synchronized alerts across controllers and mobile devices for immediate and coordinated response to potential safety issues



Access Control Automation: Automated access controls for building and campus entrances to enhance security and streamline traffic flow

Results

The implementation of Litum's solution significantly enhanced workplace safety. Real-time alerts provided **comprehensive protection for employees under operational cranes**, mitigating accident risks in these vital areas. The collision warning system effectively reduced incidents involving cranes, forklifts, and personnel, promoting a safer environment. Before the solution's deployment, accident risks were notably high, but post-deployment, **workforce safety reached 100%**. Automation of access control and geolocation integration streamlined operations, saved time, and reduced administrative burdens.



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Litum's Collision Warning Solution



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