

Automated Crane Synchronization

*Precision Solutions
for Seamless Heavy
Load Handling*








Industry

Manufacturer of Overhead Cranes

Client Summary

Our client is a well-established and reputable company with a strong track record in the manufacturing and service of all types of EOT cranes and material handling systems. With a robust design and development team, the company excels at addressing specialized application challenges.

System key Points

-  Auto syncing all selected cranes. i.e. No manual operation like continuous inching to adjust individual crane.
-  Controlled & precise movement of all cranes & overall all cranes in Tandem mode during Long & Cross travels, Lift & down movements (Continuous or inching).
-  Loading the job into the container becomes easier
-  Prevents misalignment and uneven stress on the load by aligning speeds across hoists, trolleys, and cranes.
-  Automation eliminates manual corrections, enhancing reliability and reducing the risks associated with load imbalance.

Challenges

- **Cranes Synchronizing:** The customer faced difficulties in synchronizing multiple cranes during operations, struggling to maintain a consistent gap between cranes throughout the lift and movement process. This caused uneven loads and imprecise handling, leading to inefficiency and potential safety risks.
- **Critical Lifting Moments:** During critical lifting tasks, load shifts and swinging made precise movement difficult. The lack of synchronized movement could lead to accidents, misalignment, or damage to goods, especially in environments where multiple cranes were operating simultaneously.
- **Manual vs. Automated Operation:** Without an automated system, manually controlling multiple cranes introduced human error and variability.

Customer Feedback

After implementing the automated crane synchronization solution, our operations have become much smoother and more efficient. The precision in load handling has greatly improved, and the system ensures consistent movement with minimal downtime. We no longer face issues with load imbalance or manual errors, and the automated safety features provide peace of mind. It's been a game-changer for our heavy lifting processes

About Instron Technologies

With operations in Canada and India, Instron Technologies is a leader in Process Skid Plants, Digital Factory Solutions, and Test Bench Systems. Committed to sustainability, our dynamic team develops innovative solutions that not only meet critical customer challenges but also emphasize eco-friendly practices. Serving over 200 clients in more than 10 countries, we demonstrate our dedication to innovation, operational efficiency, and environmental responsibility.

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