

CASE STUDY

Reducing Cost and Complexity with EAS-i Integrated Hydraulic Technology

Construction Market | Truck-Mounted Crane Outrigger System |
Texas Hydraulics EAS-i Solution

Executive Summary

A leading truck-mounted crane manufacturer partnered with Texas Hydraulics to simplify a conventional electro-hydraulic out-down outrigger system. By integrating critical hydraulic control functions directly into the actuator, the EAS-i solution reduced hose & fitting component count, lowered assembly labor, improved serviceability, and enhanced overall system reliability.

Customer Challenge

The existing design relied on numerous hoses, fittings, remote-mounted valves, and supporting components. All of which require increased assembly time, creates additional leak paths, complicates troubleshooting, and added inventory management burdens.

Texas Hydraulics Solution

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Results at a Glance

- 12 hours assembly labor eliminated
- 39 m (130 ft) hydraulic hose eliminated
- 4 hose carriers (cat-tracks) eliminated
- 28 individual hoses reduced from 42
- 8 Fittings reduced from 44
- Control valve manifold eliminated
- Fewer leak points and improved reliability
- Faster troubleshooting and field repairs

Business Impact

The EAS-i architecture delivered measurable cost savings while improving machine performance and maintainability. By moving hydraulic intelligence closer to the actuator, the customer gained a simpler hydraulic circuit, faster assembly, reduced maintenance complexity, and greater long-term reliability.

Why EAS-i?

EAS-i technology is ideal for applications where multiple cylinders interact and require precise control, including short-jacking outrigger systems, lifting equipment, booms, synchronized motion systems, and other advanced mobile hydraulic applications.

Texas Hydraulics Advantage

Texas Hydraulics combines engineering expertise, vertically integrated manufacturing, and application-specific hydraulic design to deliver innovative solutions that reduce total system cost while improving performance in demanding operating environments.