

CASE STUDY

Global Aluminium

Overview

Global Aluminium has been a trusted name in aluminium extrusion since 1996, running 11 high-capacity presses across a 50,000 TPA facility. Serving automotive, construction, aerospace, defence, and renewable energy sectors — with active exports to the USA, Europe, Australia, and Asia — the business had the scale to compete globally. What it lacked was the real-time operational visibility to do so with confidence.

Challenges

- » No real-time visibility across production lines, inventory, or shop floor activity — decisions depended on end-of-day reports.
- » Manual data entry introduced consistent errors into reports, making it difficult to trust the numbers.
- » Tracking billets, work-in-progress, and finished goods across the facility was fragmented and unreliable.
- » Production planning was reactive rather than proactive, leading to scheduling delays and missed timelines.
- » Cost tracking and profitability analysis lacked the granularity needed for informed pricing or margin management.
- » Die and tool maintenance had no digital oversight, creating unplanned downtime and quality risks.
- » Growing export operations were difficult to coordinate without a centralised system connecting sales, logistics, and dispatch.

Lighthouse ERP Solution

- » Integrated production, inventory, quality, and finance modules onto a single platform, eliminating inter-departmental silos.
- » Real-time production and inventory tracking gave floor managers and leadership instant visibility into operations.
- » Automated production planning and scheduling replaced manual processes, enabling proactive decision-making.
- » End-to-end traceability from raw billet through to finished profile, ensuring full accountability at every stage.
- » Costing and profitability visibility built into the workflow, enabling accurate margin analysis by product and customer.
- » Digital die and tool management system introduced structured maintenance schedules and reduced unplanned downtime.
- » Centralised order and dispatch management brought structure and control to export operations across multiple markets.

Business Impact at a Glance

90%+	25-30%
Production Planning Accuracy	Inventory Holding Days
8-12%	92-95%
Press Utilization	OTIF Delievery
30-40%	30-40%
Scrap & Reprocessing	Scrap & Reprocessing
95-98%	
Inventory Accuracy	

Result

- » Partnering with Lighthouse Info Systems, Global Aluminium transformed its manufacturing operations — gaining real-time visibility, stronger process control, and the kind of data-driven decision-making that was previously out of reach. Press utilisation improved, scrap rates fell, inventory became measurably more accurate, and delivery performance reached new highs. Most importantly, the team now has the confidence to act on what they see, not just what they expect.

“Lighthouse ERP gave us real-time visibility across our entire manufacturing chain. From production planning to dispatch, everything is connected now. We make better decisions, faster — and the numbers show it.”

— Operations Head, Global Aluminium

 Industry Aluminium Extrusion	 Capacity 50,000, TPA - 11 Presses
 Sector Served Auto, Construction, Aerospace, Defense	 Export Markets USA, Europe, Australia, Asia