



STRUCTURAL STEEL MANUFACTURING • SOUTH AFRICA

CLIENT SUCCESS STORY

Modernizing Manufacturing Operations Through ERP Integration & Business Intelligence

How a business-first approach to Sage 300 ERP optimization, custom manufacturing integration, and Power BI reporting gave Unica Iron & Steel a single, trusted view of its operations — and a foundation ready for AI.

INDUSTRY	CORE PLATFORM	REPORTING
Structural Steel Manufacturing	Sage 300 ERP + Custom Module	Microsoft Power BI Dashboards



01

CLIENT OVERVIEW

Unica Iron & Steel, a South African manufacturer of structural steel products, sought to strengthen operational efficiency, improve visibility across manufacturing activities, and better integrate production with finance, inventory, and management reporting.



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BUSINESS CHALLENGE

As manufacturing complexity increased, some production processes extended beyond the standard capabilities of Sage 300 ERP. Management required better production tracking, integrated operational data, and faster reporting to support timely decisions. Manual processes and fragmented information created challenges in gaining a single view of operations.



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NIMBUS APPROACH

Nimbus Technology Solutions adopted a business-first approach, beginning with a business process assessment and enterprise architecture review. The objective was not only to enhance technology, but to align systems, processes, and reporting with strategic business goals.



04

SOLUTION DELIVERED

Nimbus optimized the Sage 300 ERP environment and designed a custom manufacturing module integrated with core ERP processes. The solution supported production planning, work orders, material consumption, production costing, inventory synchronization, and financial integration. Microsoft Power BI dashboards provided executives with interactive reporting and improved visibility into operational performance.



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TECHNOLOGY LANDSCAPE



Sage 300 ERP



Custom Manufacturing Module



Microsoft SQL Server



Microsoft Power BI



Integrated Production, Inventory & Finance Data



06

BUSINESS VALUE

- ✓ Improved visibility across manufacturing operations
- ✓ Better alignment between production and finance
- ✓ Reduced reliance on manual reporting
- ✓ Faster access to management information
- ✓ Centralized and consistent operational data
- ✓ Scalable digital platform supporting future growth



07

AI-READY FOUNDATION

Although this engagement predated the recent wave of AI adoption, the project established many of the capabilities needed for future AI initiatives: integrated data, standardized processes, trusted reporting, and centralized business information. These foundations can support future opportunities such as predictive analytics, intelligent planning, and advanced decision support.



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NIMBUS PERSPECTIVE

Successful AI initiatives begin with reliable data, integrated systems, and well-designed business processes. The Unica engagement demonstrates how ERP modernization, manufacturing integration, and business intelligence create the digital foundation for future innovation.



NIMBUS TECHNOLOGY SOLUTIONS

Business-first ERP modernization, manufacturing integration, and business intelligence.