PANORAMA
CONSULTING GROUP

THE 2024 TOP 10

Manufacturing ERP Systems Report

Table of Contents

Introduction

Manufacturing companies are making deeper investments in data and analytics than ever before. However, many companies still lack the insights they need to make critical business decisions.

This is where modern ERP software comes in.

It's no secret that vendors have been heavily investing in technologies, like artificial intelligence, prescriptive analytics, and IoT in recent years. Manufacturers, in particular, are eyeing this functionality, wondering if it will help provide the insights and recommendations they need to optimize their operations.
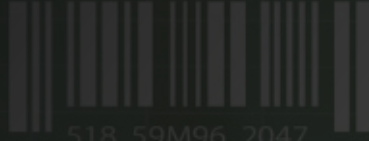
The 2024 Top 10 Manufacturing ERP Systems Report highlights the vendors that are most invested in enabling data-driven decision making. The systems in this report are already helping manufacturers act on new supply insights, leverage enhanced shop floor intelligence, and more.

2024 TOP 10

Manufacturing ERP Systems

EPICOR

Quick Facts

Headquarters:
Austin, TX

Ownership:
Private

Founded:
1972

Epicor Kinetic

Epicor Kinetic global cloud ERP is made for manufacturers and includes industry-specific solutions and composable capabilities, like APS, MES, and CPQ, which can be extended as you grow.

▶ Provides built-in industry capabilities for discrete, make-to-order manufacturers, and other manufacturing styles

▶ Enables real-time production and process monitoring

▶ Allows companies to use IoT on the shop floor to track equipment efficiency, production throughput, and energy consumption

▶ Provides governance, risk, and compliance tools for addressing legal, regulatory, and supply chain mandates

▶ Offers no/low code configurations, automation, simplified integrations, and self-service analytics – enabled by citizen developers and embedded in the ERP

▶ Infused with native automation and artificial intelligence (AI) tools for workers using both front and back-office solutions

▶ Offers flexible deployment options (public cloud, on-premises, hybrid)

IFS Cloud

IFS Cloud is an industry-focused solution tailored for large and mid-sized organizations. The solution combines Enterprise Resource Planning, Service Management, and Enterprise Asset Management capabilities.

Quick Facts

Headquarters:
Linköping, Sweden

Ownership:
Private

Founded:
1983

▶ Encompasses MES capabilities for the entire manufacturing process—from design, engineering, estimating, and configuration to operational planning, production, maintenance, delivery, and service

▶ Provides modular flexibility that includes options such as Manufacturing, Supply Chain, Finance, Projects, Procurement, HCM, CRM, and Commerce

▶ Integrates emerging technologies by incorporating digital twins, automation, augmented reality, and more

▶ Supports sustainability with capabilities such as route optimization, support of remanufacturing processes and circular economy principles, and out-of-the-box support for ESG

▶ Leverages AI and machine learning algorithms for predictive maintenance, advanced analytics, intelligent process automation, data-driven insights, and various industry-specific capabilities

Manufacturing Cloud ERP

Infor's industry-specific CloudSuites include ERP and SaaS cloud applications designed for manufacturing industries at the enterprise level and small to medium-sized businesses. Infor's CloudSuites are cloud-native and available as a service within a secure cloud environment powered by Amazon Web Services.

Quick Facts

Headquarters:
New York, NY

Ownership:
Private

Founded:
2002

▶ Designed for specific manufacturing industries like aerospace & defense, automotive, distribution, fashion, food & beverage, and industrial manufacturing

▶ Includes pre-built industry capabilities with prepackaged workflows, content, integrations, and analytics

▶ Receives new industry capabilities twice a year without cumbersome upgrades

▶ Enables hyper-scaling, automatic upgrades, and accessible apps and data

▶ Includes pre-integrated AI/ML technology that delivers accessible intelligence on enterprise efficiency, assets, forecasting, customer sales, human capital, and more

▶ Provides complete Integration Platform as a Service (iPaaS) with Robotic Process Automation (RPA) capabilities to easily connect data and business processes across any enterprise ecosystem

▶ Provides enterprise-level business intelligence, reporting, and analytics tools

Quick Facts

Headquarters:
Redmond, WA

Ownership:
Public

Founded:
1975

365 Finance/Supply Chain & Business Central

Both of these solutions include the power of the Microsoft platform, which provides integrated reporting and visualization. Business Central is a lower-cost solution that provides a faster time to value.

Finance & Supply Chain

▸ Allows multiple modes of manufacturing, including discrete, lean and project based

▸ Supports trade promotion management, advanced food safety & traceability, commodity contract management, and patron & producer payroll

▸ Includes government contracting functionality that supports DCAA, FAR, and CAS audits, cost pools, and project revenue & billing

▸ Includes Microsoft Co-Pilot, an AI powered digital assistant that assists with tasks such as data analysis in Excel documents, suggesting formulas to investigate user questions, drafting emails, and more

Business Central

▸ Includes flexible manufacturing capabilities that allow for both process and discrete manufacturing (i.e., routings, capacity planning, WIP, Production Planning, and Co/By Products)

▸ Supports landed cost tracking and cost & profitability analysis

▸ Supports trade management, including rebates, promotions, billbacks, commissions, pricing rules, and accruals

▸ Supports grower payables, including commodity contracts, pooling, settlements, harvest advances, and premiums & deductions

ORACLE
NETSUITE

NetSuite ERP

NetSuite ERP is a full suite of cloud-based ERP applications that help growing manufacturers plan, control, coordinate, and manage every aspect of their operations in one place.

▸ Provides applications for financials, supply chain management, procurement, production management, inventory & warehouse management, and human resources

▸ Includes procurement, planning, and production systems that update inventory and production data, financial reports, and outstanding orders in one place, in real-time

▸ Includes AI-powered predictive risk tools that allow planners to gain a better understanding of how actions may impact future business processes

▸ Provides visibility into all material, machinery, and labor resources involved in production

▸ Automates procure to pay processes by channeling purchases to approved suppliers with pre-negotiated contracts and providing real-time visibility into company spend and vendor performance

▸ Provides a flexible and scalable system with the ability to add functionality quickly and easily as a business grows

Quick Facts

Headquarters:
Redwood City, CA

Ownership:
Public

Founded:
1977

ORACLE®

Quick Facts

Headquarters:
Redwood City, CA

Ownership:
Public

Founded:
1977

Oracle Fusion Cloud Supply Chain & Manufacturing

Oracle Fusion Cloud is a full suite of supply chain and manufacturing applications with functionality for supply chain management, finance, human resources, and customer experience.

▶ Includes supply chain planning functionality that leverages demand data, supply constraint insights, and stakeholder input

▶ Includes embedded AI and machine learning that can identify anomalies, predict possible outcomes, and make recommendations

▶ Includes blockchain and IoT capabilities that enable issue detection, multi-tier visibility, and insights across the supply network

▶ Includes a manufacturing execution system (MES) that allows companies to manage global, mixed-mode manufacturing using built-in supply chain integration, IoT, and AI

▶ Enables companies to run simulations and use scenario planning to identify demand and supply changes and understand the environmental impact of manufacturing and end-of-life scenarios

Quick Facts

Headquarters:
Waldorf, Germany

Ownership:
Public

Founded:
1972

SAP S/4HANA

SAP S/4HANA includes ready-to-run cloud ERP software for manufacturing companies. It supports all forms of both discrete and process manufacturing in a single solution, including make to stock/repetitive, make to order, configure, and engineer to order.

▸ Includes built-In AI/ML technology with industry-specific data and process knowledge

▸ Provides functionality for R&D/Engineering, including functionality for collaborative product design, development, and configuration

▸ Include Sales & Marketing functionality for all customer-facing activities, including personalized B2B and B2C marketing, omnichannel commerce, quote to cash for configurable products, subscription-based billing, and more

▸ Allows companies to take advantage of Industry 4.0 technologies (such as the IoT, machine learning, and advanced analytics) to execute smart manufacturing processes, analyze data in real time, and integrate all systems with a cloud-based MES based on Industry 4.0

▸ Allows companies to use predictive insight to manage governance, risk and compliance, and take preventative measures against anomalies and potential risks

Emerging
ERP Vendors

Acumatica

The Cloud ERP

Acumatica provides a cloud-based ERP with micro-vertical functionality designed for small and mid-sized businesses.

Quick Facts:

Headquarters:
Kirkland, WA

Ownership:
Private

Founded:
2008

Acumatica Cloud ERP

- Provides real-time reporting, financial analyses, and forecasting capabilities
- Includes built-in artificial intelligence and machine learning that enable automation and data-driven decisions
- Includes workflows that span the full suite of business management applications
- Provides a centralized platform with open APIs for rapid integrations with other critical software
- Features a flexible architecture that allows for low-code or no-code customizations
- Provides remote collaboration capabilities

Quick Facts

Headquarters:
Austin, TX

Ownership:
Private

Founded:
1996

CETEC ERP

Cetec ERP

Cetec ERP is a web-based, fully integrated business suite for small and mid-sized manufacturers and distributors. The platform includes functionality for supply chain & inventory control, CRM & purchasing, production tracking & scheduling, quality control, and accounting & financials.

▶ Enables companies to manage detailed customer files for automated tracking of customer activity across the ERP system

▶ Allows companies to manage unlimited levels of BOMs (multi-level BOMs) directly from a quote

▶ Includes full support for the following demand scenarios: raw or finished goods distribution orders, make-to-stock, build-for-stock orders, make-to-order, engineer-to-order, configure-to-order, CPQ, and assemble-to-order

▶ Includes material requirements planning functionality that suggests buy quantities based on supply/demand forecasting and reorder point kanban levels

▶ Provides the ability to buy and sell inventory in different units of measure

▶ Allows companies to leverage modern technology and advanced automation tools such as barcode scanners, tablets, and mobile printers across the full warehouse cycle

Quick Facts:

Headquarters:
Tel Aviv, Israel

Ownership:
Private

Founded:
1986

Priority ERP

Priority ERP is a scalable, open SaaS cloud ERP platform for organizations of all sizes. It is designed for industries such as manufacturing, wholesale and distribution, electronics, healthcare, medical devices, pharmaceutical, nonprofit, construction, professional services, financial services, retail, and more.

▶ Supports an array of functionalities, including financials, CRM and sales, supply chain management, manufacturing, distribution, customer service, project management, native WMS, equipment rental, and more

▶ Includes retail ERP centralized management software that includes RMS and POS to support omnichannel operations

▶ Allows companies to make customizations using no-code intelligent workflows, form design, and the modular structure of the platform

▶ Seamlessly integrates with other systems via APIs, connectors, and embedded integrations

▶ Supports multi-company and multi-currency

▶ Provides a mobile ERP solution with a wide selection of ready-to-use mobile apps and the option for companies to define their own apps with no need for coding

▶ Includes a no-code Portal Generator which allows companies to extend functionality and accessibility by creating web portals for employees, customers, suppliers and more

Trend Alert!

Decision Intelligence Meets ERP Software

A decision intelligence platform is a digital solution that integrates enterprise-wide data points, analyzes them, and provides recommendations. These platforms also have the ability to explain recommendations, handle uncertainty, and learn from user feedback.

Many ERP vendors are incorporating decision intelligence into their platforms and integrating this with AI capabilities.

Why it Matters

Imagine the CEO of a manufacturing firm is concerned about declining sales and rising production costs. The CEO could use AI-powered decision intelligence to gather data from every corner of the business and analyze it to identify patterns and make suggestions.

For instance, the platform might use machine learning to find inefficiencies in the company's distribution network and suggest alternative routes that could reduce shipping costs.

Other manufacturing use cases include:

1. Predicting Equipment Failures

If an AI-enabled ERP system is trained on how a machine is intended to operate, it can immediately sense when something is awry. When this capability is integrated with decision intelligence, manufacturers have a reliable way of predicting maintenance needs based on performance data.

2. Improving Product Quality

Machine learning algorithms can learn from historical data to distinguish a quality product from a faulty one. This information can be leveraged into decision intelligence that empowers manufacturers to streamline visual quality checks and free up teams to focus on product development.

3. Reducing Inventory Waste

With advanced analytics, manufacturers can more accurately predict demand based on historical data. Then, they can use decision intelligence to optimize production schedules accordingly.

Conclusion

Regardless of the specific challenges you're facing in your manufacturing firm, it's likely that many of your pain points can be addressed by getting a tighter hold on the data floating throughout your organization.

The ERP systems in this report can help you do that.

However, integrating disparate data sources with an advanced analytics platform can be complex. As you begin your journey, our ERP consultants are here to help. We have experience with a variety of manufacturing software systems and can assess your unique needs to help you narrow your options.

Request a free consultation below to engage our team.

Click the Button Below to Schedule Your **Free Consultation** With an ERP Expert!

FREE CONSULTATION

About Panorama Consulting Group

Panorama Consulting Group is an independent, niche consulting firm specializing in business transformation and ERP system implementations for mid- to large-sized private- and public-sector organizations worldwide. One-hundred percent technology agnostic and independent of vendor affiliation, Panorama offers a phased, top-down strategic alignment approach and a bottom-up tactical approach, enabling each client to achieve its unique business transformation objectives by transforming its people, processes, technology, and data.

Panorama's Services

(click to learn more)

▶ ERP Selection	▶ Change Management
▶ ERP Implementation	▶ Human Capital Management
▶ ERP Contract Negotiation	▶ Business Process Management
▶ ERP University	▶ M&A Integration
▶ Digital Strategy	▶ Project Auditing & Recovery
▶ Technology Assessment	▶ Software Expert Witness

Click the Button Below to Schedule Your **Free Consultation** With an ERP Expert!

FREE CONSULTATION

(If viewing this in Adobe Acrobat, please follow these instructions to enable external links: https://helpx.adobe.com/acrobat/using/allow-or-block-links-internet.html)