

TOP 10 MANUFACTURING ERP SOFTWARE



TOP 10 MANUFACTURING ERP SOFTWARE

1

SYSPRO

SYSPRO

2

WM Synergy

WM Synergy

3

VAI

S2K Mobile Warehouse

4

VAI

VAI Food ERP

5

WinMan

WinMan ERP Software

6

NexSys Solutions Limited

K3 SYSPRO ERP

7

DELMIAWorks

DELMIAWorks
Manufacturing ERP
(formerly IQMS)

8

Expandable Software

Expandable ERP

9

Rootstock Software

Rootstock
Manufacturing ERP

10

Barry-Wehmiller
Design Group

BW Design Group
Manufacturing ERP



HOW THESE RANKINGS WERE GENERATED

This ranking was determined using a number of factors including industry standing, public opinion of software, social media presence, and available software features relevant to the needs of a small business. This ranking should serve as a rough estimate of software suitability, and more in-depth analysis can be taken below or by using our ERP software comparison.

FIND & COMPARE ERP





MUST-HAVE MANUFACTURING ERP FEATURES

Manufacturers of all kinds use ERP systems. The ERP industry began with MRP (manufacturing requirements planning) and grew to its current state where we now have enterprise requirements planning.

Manufacturing, however, is a very broad subject. Process manufacturing can range from a bakery that produces daily batches of bread and cakes to a petroleum refinery that produces gasoline and other products running all day, every day for months without stopping.

Discrete manufacturing also can range from one company that produces a single engineered-to-order product to another that produces items in long runs that each has a single serial number.

We will look here at modules that apply to any business, and somewhere the application applies but has significant differences in use between industries.

OPERATIONS AND PRODUCTION MANAGEMENT

Operations management is the heart of a manufacturer. Products must be made that work for the customers and meet their needs. Those products must be ready based on a schedule so they arrive when the customer wants a delivery. People and material components or ingredients need to be delivered so that operations can achieve the schedule. Financial management is connected too so that cash to pay the suppliers and employees is available at the right time.

A discrete manufacturer will use a bill of materials to break out all the component parts required for production. Those materials are assembled over time based on a routing or bill of operations, and eventually, they become a finished product.

A process manufacturer mixes ingredients based on a recipe. Combining those ingredients often follows equipment and the capabilities of the machinery but there are steps that must be followed to get the desired finished products. There can be different grades of product at the end where "grade A" yield goes to certain customers and lower grades to other customers.

INVENTORY CONTROL

All manufacturers use and maintain inventory. Inventory often is the single greatest value asset for a manufacturer and it must be controlled and used optimally. They purchase materials based on forecasts or unique order requirements. Perfect inventory moves continuously until the product is completed but perfect inventory is an elusive goal. Management of inventory is necessary for both process and discrete manufacturers.

Inventory not in motion is a waste to be controlled. Inventory can become obsolete when customer demands evolve or when better materials become available. Control of obsolete and excess inventory is a constant effort. Good inventory control allows a manufacturer to dispose of unneeded inventory while it still has some value avoiding the need to scrap material with no value.

Any unnecessary material movement is also a waste. Inventory control requires that materials be kept where they can be moved to and from production with the least effort. Slotting is the term used to describe keeping materials in the optimum location.

PURCHASING AND SUPPLY CHAIN MANAGEMENT

Manufacturing runs on inventory and purchasing is at the core. This module starts with sales order and forecast demands. Then it moves from the product parent demands to the individual component demands to support those products. Next, it schedules those demands based on the production schedule and alerts the supply chain manager when the time is right to place a purchase order on a supplier.

The same module helps that manager watch that order until it arrives on the receiving dock, providing alerts as needed to prompt necessary follow up actions. It also tracks and records all the transactions. Purchasing management systems track incoming material through complex flows. An order might be placed with a distributor who, in turn, places an order on a foreign producer. That order moves from a factory in one country to another factory in another country for completion. It moves onto a ship and to port in the country where the manufacturer operates. It still needs to process through customs and transport showing up at receiving at the time needed.

Manufacturers who outsource production use purchasing management tools as well. The outsource producer needs to maintain inventory, and purchasing needs to know it is on hand or available when needed. Often components are consigned to that producer – physically moved and stored at the producer's site while still owned by the manufacturer. The producer uses jobs or work orders within their shop and the manufacturer should track progress toward completion and return of the finished work

so that the order can be checked and delivered to the customer who is waiting. That outsource producer must follow prescribed processes and quality standards and purchasing management allows that within ERP.

SALES AND ORDER MANAGEMENT

Customers place orders for products they need. Those customer purchase orders become sales orders at the manufacturer. ERP signals operations to schedule work and purchasing to order component materials needed to fulfill those customer demands. ERP also alerts sales management informing them if the order is on schedule providing an opportunity to alert the customer when there is any risk. ERP records all the transactions required with links to the sales order demand. This allows for intelligent reporting.

Sales orders can be exact repeats of previous orders or they can be unique, quoted items ordered on a one-time basis.

SUPPLIER RELATIONSHIP MANAGEMENT

SRM or supplier relationship management comes as a part of your ERP. This module is where we track requests for quotations from suppliers, and keep a rating of those quotes to enable better quote management in the future.

SRM is also an important part of a manufacturer's quality assurance system. The manufacturer requires suppliers to maintain quality standards and international certifications. Those certifications and standards are kept in SRM and alerts come whenever updates are needed.



WHY NOT CREATE YOUR OWN COMPARISON?

With our free comparison engine you can build your own side-by-side comparison of leading ERP solutions. Narrow down your shortlist using filters including:

- Software Features
- Industry
- Delivery Platform

FIND & COMPARE ERP





OVERVIEW

PRODUCT NAME

SYSPRO

WM Synergy

S2K Mobile Warehouse

VAI Food ERP

BUSINESS SECTORS

DISTRIBUTION

✗

✓

✓

✓

GOVERNMENT & NPO

✗

✗

✗

✗

MANUFACTURING

✓

✓

✓

✓

RETAIL

✗

✗

✓

✓

SERVICES

✗

✗

✓

✗

INDUSTRY

AEROSPACE & DEFENSE

✓

✓

✗

✗

AUTOMOTIVE

✓

✓

✓

✗

CHEMICAL

✓

✓

✗

✗

CONSTRUCTION	✓	✗	✗	✗
COSMETICS	✓	✓	✓	✗
ELECTRONICS	✓	✓	✓	✗
ENERGY/POWER/UTILITIES	✗	✗	✗	✗
ENGINEERING	✗	✓	✗	✗
FASHION	✗	✓	✓	✗
FINANCIAL SERVICES	✗	✗	✗	✗
FOOD & BEVERAGE	✓	✗	✓	✓
LOCAL GOVERNMENT	✗	✗	✗	✗
MEDIA	✗	✗	✗	✗
MEDICAL & HEALTHCARE	✗	✓	✗	✗
METALWORKING	✓	✓	✗	✗
OILFIELD	✗	✓	✗	✗
PACKAGING	✓	✓	✓	✗

PAINT & ADHESIVES	✓	✓	✓	✗
PHARMACEUTICAL	✓	✗	✗	✗
PLASTICS & RUBBER	✓	✓	✓	✗
PRINT & DESIGN	✗	✓	✗	✗
RENTAL	✗	✗	✗	✗
TELECOMMUNICATIONS	✗	✗	✗	✗
WOODWORKING	✓	✓	✗	✗
ERP SOFTWARE FEATURES				
BILLING	✓	✓	✓	✓
BUSINESS INTELLIGENCE/ANALYTICS	✓	✓	✓	✓
COSTING	✓	✓	✓	✓
CRM	✓	✗	✓	✓
CUSTOMER SERVICE	✗	✗	✓	✓
PRODUCT DESIGN	✗	✗	✗	✗

FINANCIALS & ACCOUNTING	✓	✓	✓	✓
HR	✗	✗	✗	✗
INVENTORY MANAGEMENT	✓	✓	✓	✓
ORDER MANAGEMENT	✓	✓	✓	✓
PLANNING & SCHEDULING	✓	✓	✓	✓
PROJECT MANAGEMENT	✗	✗	✗	✗
PURCHASING	✓	✓	✓	✓
QUALITY CONTROL	✓	✓	✓	✓
SALES	✓	✗	✓	✓
SHIPPING & DISTRIBUTION	✓	✓	✓	✓
SUPPLY CHAIN MANAGEMENT	✓	✓	✓	✓
WAREHOUSE MANAGEMENT	✓	✓	✓	✓
ASSET MANAGEMENT	✓	✓	✓	✓
DOCUMENT MANAGEMENT	✗	✓	✓	✗

CUSTOMER SUITABILITY				
ENTERPRISE (1000+ EMPLOYEES)	✗	✗	✓	✓
MEDIUM SIZE (251-1000 EMPLOYEES)	✓	✓	✓	✓
SMALL BUSINESS (1-250 EMPLOYEES)	✓	✗	✗	✗
ADDITIONAL PRODUCT INFO				
MULTI LANGUAGE	✗	✗	✓	✓
MULTI CURRENCY	✓	✗	✓	✓
CUSTOMIZABLE	✗	✗	✗	✗
MOBILE CAPABILITIES				
ANDROID APP	✗	✗	✗	✗
IOS APP	✗	✗	✗	✗
WEB APP	✗	✗	✓	✓
SYSTEM HOSTING				
CLOUD	✓	✓	✓	✓

INSTALLED ON PREMISE	✓	✗	✓	✓
REVIEWS				
REVIEW SCORE				
OTHER INFORMATION				
IMPLEMENTATION TIMEFRAME	24 weeks	4-6 Months		
PRICING	\$200 Cloud/SaaS. Pricing is based on per user, per month, per module. Bundle pricing is available. Minimum 1-year contract, billed and auto-renewed annually. License cost is per user, per module, including an initial license fee and annual license based on percentage of initial license fee.	\$4,000 per concurrent user license can be used for budgetary purposes		
TRAINING COSTS				
SUPPORT COSTS				




NexSys
Powering business growth
A K3 company



DELMI AWORKS



expandable

OVERVIEW

PRODUCT NAME

WinMan ERP Software

K3 SYSPRO ERP

DELMIAWorks Manufacturing
ERP (Formerly IQMS)

Expandable ERP

BUSINESS SECTORS

DISTRIBUTION



GOVERNMENT & NPO



MANUFACTURING



RETAIL



SERVICES



INDUSTRY

AEROSPACE & DEFENSE



AUTOMOTIVE



CHEMICAL



CONSTRUCTION	✓	✗	✗	✗
COSMETICS	✓	✗	✓	✗
ELECTRONICS	✓	✓	✗	✓
ENERGY/POWER/UTILITIES	✗	✗	✗	✗
ENGINEERING	✓	✓	✗	✗
FASHION	✗	✗	✗	✗
FINANCIAL SERVICES	✗	✗	✗	✗
FOOD & BEVERAGE	✓	✓	✓	✗
LOCAL GOVERNMENT	✗	✗	✗	✗
MEDIA	✗	✗	✗	✗
MEDICAL & HEALTHCARE	✓	✓	✗	✓
METALWORKING	✓	✓	✓	✗
OILFIELD	✓	✗	✗	✗
PACKAGING	✓	✓	✓	✗

PAINT & ADHESIVES	✓	✗	✗	✗
PHARMACEUTICAL	✓	✓	✗	✗
PLASTICS & RUBBER	✓	✓	✓	✗
PRINT & DESIGN	✗	✗	✗	✗
RENTAL	✗	✗	✗	✗
TELECOMMUNICATIONS	✗	✗	✗	✓
WOODWORKING	✓	✓	✗	✗
ERP SOFTWARE FEATURES				
BILLING	✓	✓	✓	✓
BUSINESS INTELLIGENCE/ANALYTICS	✓	✓	✓	✓
COSTING	✓	✓	✓	✓
CRM	✓	✓	✓	✓
CUSTOMER SERVICE	✓	✓	✗	✓
PRODUCT DESIGN	✓	✗	✗	✓

FINANCIALS & ACCOUNTING	✓	✓	✓	✓
HR	✓	✓	✓	✗
INVENTORY MANAGEMENT	✓	✓	✓	✓
ORDER MANAGEMENT	✓	✓	✓	✓
PLANNING & SCHEDULING	✓	✓	✓	✓
PROJECT MANAGEMENT	✓	✓	✓	✓
PURCHASING	✓	✗	✓	✓
QUALITY CONTROL	✓	✓	✓	✓
SALES	✓	✓	✓	✓
SHIPPING & DISTRIBUTION	✓	✓	✓	✓
SUPPLY CHAIN MANAGEMENT	✓	✗	✓	✓
WAREHOUSE MANAGEMENT	✓	✓	✓	✓
ASSET MANAGEMENT	✓	✓	✓	✓
DOCUMENT MANAGEMENT	✓	✓	✓	✓

CUSTOMER SUITABILITY				
ENTERPRISE (1000+ EMPLOYEES)	✓	✗	✗	✓
MEDIUM SIZE (251-1000 EMPLOYEES)	✓	✓	✓	✓
SMALL BUSINESS (1-250 EMPLOYEES)	✓	✓	✓	✓
ADDITIONAL PRODUCT INFO				
MULTI LANGUAGE	✓	✓	✓	✓
MULTI CURRENCY	✓	✓	✓	✓
CUSTOMIZABLE	✗	✗	✗	✗
MOBILE CAPABILITIES				
ANDROID APP	✗	✗	✗	✗
IOS APP	✗	✗	✗	✗
WEB APP	✓	✓	✓	✓
SYSTEM HOSTING				
CLOUD	✓	✓	✓	✓

INSTALLED ON PREMISE	✓	✓	✓	✓
REVIEWS				
REVIEW SCORE				
OTHER INFORMATION				
IMPLEMENTATION TIMEFRAME	3-6 Months			8-12 weeks
PRICING	Not Available	Not Available	\$2,900	\$250 per month
TRAINING COSTS			Dependent on selected training option	
SUPPORT COSTS			No additional fee is required for technical support. Unlimited chat, phone and email support is offered as part of the annual maintenance fee.	



OVERVIEW

PRODUCT NAME

Rootstock Manufacturing ERP

BW Design Group Manufacturing ERP

BUSINESS SECTORS

DISTRIBUTION

×

×

GOVERNMENT & NPO

×

×

MANUFACTURING

✓

✓

RETAIL

×

×

SERVICES

×

×

INDUSTRY

AEROSPACE & DEFENSE

✓

✓

AUTOMOTIVE

✓

✓

CHEMICAL

×

×

CONSTRUCTION	✓	✗
COSMETICS	✓	✓
ELECTRONICS	✓	✓
ENERGY/POWER/UTILITIES	✗	✗
ENGINEERING	✓	✓
FASHION	✓	✗
FINANCIAL SERVICES	✗	✗
FOOD & BEVERAGE	✓	✗
LOCAL GOVERNMENT	✗	✗
MEDIA	✗	✗
MEDICAL & HEALTHCARE	✓	✓
METALWORKING	✓	✓
OILFIELD	✗	✓
PACKAGING	✓	✓

PAINT & ADHESIVES	✓	✗
PHARMACEUTICAL	✓	✗
PLASTICS & RUBBER	✓	✓
PRINT & DESIGN	✓	✓
RENTAL	✗	✓
TELECOMMUNICATIONS	✗	✓
WOODWORKING	✓	✓
ERP SOFTWARE FEATURES		
BILLING	✓	✓
BUSINESS INTELLIGENCE/ANALYTICS	✓	✓
COSTING	✓	✓
CRM	✓	✓
CUSTOMER SERVICE	✓	✓
PRODUCT DESIGN	✓	✓

FINANCIALS & ACCOUNTING	✓	✓
HR	✗	✓
INVENTORY MANAGEMENT	✓	✓
ORDER MANAGEMENT	✓	✓
PLANNING & SCHEDULING	✓	✓
PROJECT MANAGEMENT	✓	✓
PURCHASING	✓	✓
QUALITY CONTROL	✓	✓
SALES	✓	✓
SHIPPING & DISTRIBUTION	✓	✓
SUPPLY CHAIN MANAGEMENT	✓	✓
WAREHOUSE MANAGEMENT	✗	✓
ASSET MANAGEMENT	✓	✓
DOCUMENT MANAGEMENT	✗	✓

CUSTOMER SUITABILITY		
ENTERPRISE (1000+ EMPLOYEES)	✓	✓
MEDIUM SIZE (251-1000 EMPLOYEES)	✓	✓
SMALL BUSINESS (1-250 EMPLOYEES)	✗	✗
ADDITIONAL PRODUCT INFO		
MULTI LANGUAGE	✓	✓
MULTI CURRENCY	✓	✓
CUSTOMIZABLE	✗	✗
MOBILE CAPABILITIES		
ANDROID APP	✗	✗
IOS APP	✗	✗
WEB APP	✓	✓
SYSTEM HOSTING		
CLOUD	✓	✓

INSTALLED ON PREMISE	<div>✗</div>	<div>✓</div>
REVIEWS		
REVIEW SCORE		
OTHER INFORMATION		
IMPLEMENTATION TIMEFRAME	3-6 Months	
PRICING	Not Available	
TRAINING COSTS		
SUPPORT COSTS		

TOP 10 MANUFACTURING ERP SOFTWARE

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