

QA Soft

ERP with Lean

An ERP with Quality Management System and forward-thinking Industry Practices

- **Covers production and quality assurance like no one has done before.**
- **You can define production process and their interaction on any degree of complexity.**
- **Software decides product acceptance/rejection based on quality plan.**
- **Fully Integrated System, no duplication of data entry, automatically generates data entry template for next process from pending list.**

An Intelligent and Flexible ERP Solution

QASoft is an Enterprise Resource Planning (ERP) Software based on quality management system unlike regular ERP software which are developed by expanding accounting and inventory system which lacks in product quality assurance and industry specific requirements.

QASoft, unique in its design, is based on international standards on Quality Management (ISO 9000 series) and lean manufacturing practices for manufacturing and service industry to ensure efficient business process management.

QASoft is a Total Quality Assurance Software and an intelligent ERP.

QASoft covers Quality Assurance System in great detail. For example, Once inspection and testing parameters are defined for a particular product, **QASoft** decides itself, whether product has to be accepted, re-tested or rejected based on sampling and test parameters. It allows you to control nonconforming product and take corrective and preventive actions.

This is the first novel ERP product I've seen for years and I've been in electronic sales for 25 years, CRM for 14 and have recruited ERP sales and techie people for another 9 years with my head-hunter hat on.

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Business Processes

Human Resource Development
Resource Maintenance
Sales
Purchase
Inventory Management
Production Planning and Control
Calibration
Financial Processes

Customer Satisfaction
Supplier Satisfaction
Internal Customer Satisfaction Survey
Product Inspection and Testing
Nonconforming Products
Corrective and Preventive Actions
Analysis of data

CRM
Pay Roll

Available as independent and
integrated solution.

Highlights

In-depth Quality Assurance

All types of tests covered: Type test, Acceptance Test. All Types of parameters Covered: Minimum Only, Maximum Only, Both Limits, Pass-Fail, Reference Only and Exactly Equal To. Even Aging Test is also covered i.e comparing pre-aging and post-aging tests with % variation or absolute value variation.

In-depth Financial Reporting

Accounts Receivables and Accounts Payables with filter option for pre-defined credit and debit limits or limits defined for that report.

Bill to Bill status of Accounts Receivables and Accounts Payables with filter option for pre-defined limits in days or limits defined for that report or ageing between any two days.

Accounts Receivables and Accounts Payables Ageing with four user definable period such as below 30 days, 31-60 days, 61-to 90 days and above 90 days. Cash Flow: Accounts Payables, Account Receivables, Bank and Cash Book balances on single screen with filter option for pre-defined limits in days or limits defined for that report. Trading Account, Profit and Loss Account and Balance Sheet. Reverse tracking from Balance Sheet to Monthly Account Summary to Ledger to Voucher.

Production like never before

Production Flow chart of any level of complexity (with by-products or group products) can be developed.

Multiple Stores Facility

Such as Raw Material, Tools, Finished Goods. You can create "Reserved Store" to reserve material against a particular order.

Batch Inventory

BIN Card and Batch to Batch stock of all products for which batch wise inventory is maintained. It can be raw material, semi-finished or final product. Batch to Batch stock with test results to help recipe finalization or dispatch (where customer has some strict guidelines regarding test parameters).

Extensive Material Resource Planning (MRP)

MRP planning based on minimum stock requirement, reorder level & additional requirement defined by you. You can also verify stock availability after every order receipt, production completion or as desired.

Analysis of stock in various stores (warehouses) for less than, greater than or equal to, minimum, maximum, reorder level or zero balance.

Material Requirement Planning (MRP) based on orders in hand, forecasting and seasonal stock requirement.

Simple Machine Requirement Planning (MRP-2) allows you to check machine-hours required to meet the demand or fore-cast.

Season Facility

You can define multiple seasons with minimum stock, reorder level & reorder quantity.

Multi Currency Accounting

You can manage foreign currency account and enter transaction in any currency.

User Definable Taxation

You can define taxation applicable to your business and change them as and when government laws changes. Suitable for taxation of any country.

Highlights

In-depth Analysis

Analysis of transactions for any thing and every thing you can possibly think of. This applies to all types of transactions relating to accounts, purchase, sales, production, quality assurance etc. Allows you to consolidated multi-company, multi cost center reports.

Access Control (Login System)

Allows user to access only what you want them to. You can set access control at various levels and ensure that every user is viewing, adding, modifying, deleting, approving, printing, exporting only what he/she is authorized for.

Version Control Version control for product specification and bill of material. Product stock available separately for various versions of same product.

Process Status

Enabling instant reports to control activities. You can view status of various processes such as Sales, Purchasing, Production Planning, Production, Inspection and Testing, Control of nonconforming products, Corrective and Preventive actions etc.

Extensive Tracking Facility

All the data can be tracked forward / backward to enable audit and fault finding..

Extensive Search Facility

All the data can be search to find desired results.

Data Export Facility for Excel

To enable customized data search & reporting.

Data Export Facility for Delimited Text Files

Can be used to link with your existing ERP.

Report Export Facility for Word, Excel, PDF etc...

To send reports via electronic media (email)

Multiple Choice Report Formatting

To develop customized reports. For example, you can develop mailing labels in various formats or you can develop multiple formats for test certificates and select one at the time of printing.

Customer and Supplier Relationship

Customers/ Suppliers can log-on to your server to check the status of their orders /supplies, payment status etc. through web login facility or static TCP/IP connection. This can also allow auto delivery of material requirement to suppliers without purchase order.

Pharmaceutical Industry Specific Solutions



In pharma industry, recipe changes with batch to batch depending upon exact test results of the input products, In QASoft you can view batch wise stock along with test results to finalize recipe. Material Issue facility allows user to issue material more or less than standard recipe and takes exact issued quantity in account while calculating cost.

Following pharmaceutical industry specific requirements are covered:

- Batch to Batch stock of raw material with actual inspection parameters and their six sigma analysis
- Guidance on preparation of recipe based on actual available stock of raw material and semi-finished stock
- Issue of material more or less than bill--of-material or recipe. This can be determined by the customer to allow or not.
- Excess material can be issued against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Material can be returned from the shop-floor against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Semi-finished material can be diverted from one plan to other based on actual output specification.
- You can keep actual product name a secret and allow only authorized persons to view it.
- Control shelf life of products
- Controlling by-products produced at various stages or production.

Polymer Industry Specific Solutions



Polymer / Plastic industry has unique requirement of dual unit inventory where conversion factor doesn't result in correct stock. Weight and quantity ratio changes with each batch produced. QASoft allows you to enter exact dual unit figures for every production report. Same facility is available for all material transactions including purchase inward.

Following polymer industry(plastic / rubber / PVC / XLPE etc.) specific requirements are covered:

- As weight of product changes with every batch, dual unit inventory system is made in QASoft.
- You can enter actual quantity of material inward, produced in any two (pre-defined) units, for example 25 pieces and 1.2 kgs during one batch and 25 pieces and 1.32 kgs during second batch.
- Exact stock will be available and both units separately for all products.
- Issue of material more or less than bill-of-material or recipe. This can be determined by the customer to allow or not.
- Excess material can be issued against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Material can be returned from the shop-floor against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Control shelf life of products.
- Inspection requirements covers comparison of pre-ageing and post-ageing test results as per Indian, British, International or any customer specific standards.
- Controlling group products (two or more products made in a single die / process) produced at various stages or production.

Paint, Additives and Speciality Chemicals Industry Specific Solutions



In speciality chemicals Industry, same product is sold by different names to different customers, some time even to same customer. QASoft has facility to print product names as per customer requirement and also transfer stock between two products.

Following paint, additives and speciality chemicals industry specific requirements are covered:

- Batch to Batch stock of raw material with actual inspection parameters and their six sigma analysis
- Guidance on preparation of recipe based on actual available stock of raw material and semi-finished stock
- Issue of material more or less than bill--of-material or recipe. This can be determined by the customer to allow or not.
- Excess material can be issued against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Material can be returned from the shop-floor against production plan for which material is already issued. The same is taken care of while calculating production cost.
- Semi-finished material can be diverted from one plan to other based on actual output specification.
- Stock of one product can be transferred to other product, as one formulation can be sold in different names.
- You can keep actual product name a secret and allow only authorized persons to view it.
- You can define product names differently for different customers.
- Control shelf life of products.
- Controlling by-products produced at various stages or production.

Engineering Industry Specific Solutions



Some engineering products require after sales service while in some cases production sequence changes during production process i.e. Product cycle normally remains same but in some specific cases some process are not required, QASoft allows user to avoid certain processes during production planning.

Following engineering industry specific requirements are covered:

- A well defined production flow charts.
- You can plan for sub-assemblies (semi-finished products) and keep stock on floor.
- Batch wise inventory
- By-passing inspection.
- Control of scrapes, acceptance under concession.
- Sub-contracting processes of production
- Some products require after sales service for example machines and instruments. Service provision ensures contracting installation and commissioning services, annual maintenance contracts, on call services etc.
- Some engineering industries require dual unit inventory system similar to plastic industries.
- Control shelf life of products
- Controlling group products (two or more products made in a single die / process) produced at various stages or production.

Agriculture Based Industry Specific Solutions



Some businesses are seasonal, QASoft's seasons facility allows user to define different stock levels during different seasons. You can also define shelf life and re-testing requirements for products having shelf life.

Following agriculture-based industry specific requirements are covered:

- Agro-based businesses are seasonal and inventory requirements varies with seasons. You can defined minimum stock, re-order level, re-order quantity and maximum stock levels for various seasons and run material requirement planning as per applicable season.
- Control shelf life of products
- Controlling by-products produced at various stages or production.

Process Descriptions - 1

Human Resource Management

Human-Power needs continually to be competent and for that training needs shall be identified, met and verified that need and fulfilled.

Allows user to initiate training needs, enter training record and evaluate effectiveness of training program.

Effectiveness is measured by giving points on questionnaire by examiner.

Status of pending training need fulfillment and evaluation will be available.

Employee Skill Matrix can be prepared based on data to enable further training need identification and human resource development.

Meets the requirement of clause 6.2 of ISO 9001:2000.

Resource Maintenance

Machine Maintenance can be of two types, Periodic or preventive and Non-periodic such as breakdowns or planned changes in the machine. Maintenance activities are further divided in two groups: Electrical and Mechanical.

Data collection includes man-hours used, machine-hours lost, spares parts used, spares-cost, other costs and details of the activity performed.

Maintenance record is prepared against indexed list of maintenance activities enabling you to make detailed analysis and know repetitiveness of any problem.

Machine History can be seen on-screen and printed with many filter options.

Machine wise maintenance data analysis can be done to know loss in breakdown and preventive maintenance in machine-hours, maintenance man-hours, spares cost etc.

Meets the requirement of clause 6.3 and 6.4 of ISO 9001:2000.

Process Descriptions - 2

Sales

In the standard package sales activity starts from order acceptance.

An accepted order needs to be approved to be allowed to be taken for production planning or despatch of material.

CRM (customer relationship Management) is available as an stand alone software whcih can be integrated with standard software.

CRM allows monitoring of customer enquiries for product leaflets, price, quotation, monitoring quotation as well as monitoring customer communication (follow-up) with respect to enquiry and order.

Status of order, order tracking for production and despatch is available at the press of a button in the standard software while enquiry status is available in CRM.

You can create pdf files of order acceptance and send it to customer via e-mail.

You can amend the sales orders based on customer amendment (or any other reason) unless material is already delivered.

Meets the requirement of clause 7.2 of ISO 9001:2000.

Purchase

Purchase activities starts with approval of supplier. Suppliers are approved for various products. You can define suppliers product codes for approved products so that it can be printed on purchase order to enable supplier to process the order faster.

Purchase Requirements are generated through Material Resource Planning (MRP) and purchase orders are issued accordingly.

Material Requirement is also initiated through requisition.

Purchase Orders are prepared for a specific specification version of a product (product information).

Purchase Orders needs approval before sending to supplier.

You can create pdf files of purchase order and send it to supplier via e-mail.

Purchase orders can also be issued for any production process within production flow chart.

Status of purchase order with order quantity and balance quantity is always available up-to-date.

Purchase orders can be tracked to inward, inspection and payments made.

Meets the requirement of clause 7.4 of ISO 9001:2000.

Process Descriptions - 3

Inventory Management

Inventory management broadly consists of inward, issue and despatch activities.

Inventory Management is very extensive in **QASoft**. In addition to regular inventory features like receipt from supplier, from QA, floor returns, issued against planning, against requisition and for job work to supplier, **QASoft** covers receipt from customer for Job work and receipt after job work from supplier.

Also rejected materials can be taken in rejection stores or as other products. All material receipts and issues are done for specific specification revision of same product enabling separate stock availability for various specification versions of same product.

Material Requirement Planning (MRP) is also very extensive. It takes care of stock of semi-finish or intermediate goods while calculating raw material (or purchased products) requirements. MRP calculations can be exported to Excel datasheet to enable verification and validation.

Users can define which sales order, production plan, stores and season has to be taken in to account for performing MRP.

Stock can be seen any time and filtered against minimum level, re-order level to enable ordering.

Batch-wise Inventory is also available for products specified for batch inventory. BIN card is automatically prepared for such items upon inward and closed when stock is over.

Material tracking can be done forward and reverse to verify which batch of material is issued and used in production or where a particular batch is utilised.

You get Multi-Stores, Multi-Cost Center, Multi Company Stock statement on single screen.

On screen Stock analysis with respect to minimum level, Re-Order Level and maximum level.

Despatch

Despatch can be done directly or against customer order (sales order).

For Batch inventory products batch needs to be selected.

Special product selection system is provided for machine manufacturers to identify which machine is delivered.

Where warranty is applicable, warranty period can be defined, though, other wise it will directly take from product master.

Taxation in QASoft is totally use defined and it meets requirement of any country.

You can prepare Taxation Script, any time, to meet changing taxation laws without upgrading software.

Meets the requirement of clause 7.5 of ISO 9001:2000. And also requirement of Sales Tax, Value Added Tax, Central Excise, Service Tax, Custom and Other applicable laws.

Process Descriptions - 4

Production Planning and Control

Production planning is done for a product and also for various stages of production as per production sequence, where required quantity and required date at process level can be defined. Even outsourcing requirements can be defined during planning.

Production reports are entered only against planning for all the processes in production sequence.

Production system is designed based on lean manufacturing practices.

During preparation of production sequence, you need to define after which process, you will perform inspection and which process is considered final as for as inspection and testing is concerned.

In process items used in next production process are identified which control in-process material stock. Batch numbers of raw material used is also entered to cross verify with stores.

If production process requires inspection, in-process stock will be available for consumption only after inspection (inspection approval).

Quantities rejected and scraped during production (without consent of quality assurance) can be maintained and returned to stores.

You are allowed to enter production parameters under which production process is controlled. This will enable analysis and also determining correct production parameters.

Meets the requirement of clause 7.5 of ISO 9001:2000.

Service

Some engineering products require after sales service.

Product like machines require installation and commissioning, and after sales service support is provided under annual maintenance contract or on call basis.

The warranty provided on products, sometimes, vary from customer to customer or sale-to-sale. Same is true for periodic service contract. Material used during warranty or service contract may be chargeable or may be covered under the contract or warranty or may be provided by the customer from its own stores.

All such requirements are adequately looked into and a comprehensive service management system is provided in QASoft.

Calibration

Calibration data entry is in the form of a check list, which requires you to verify items in the check list on the calibration report submitted by the calibration agency.

You can perform validation of records in case instrument (or its range) is found out of calibration.

During instrument selection in product inspection reports calibration due date is displayed to ensure that non-calibrated instrument is not used in calibration.

Instruments for calibration are divided in two categories, one for instruments under control of quality assurance and other under the control of maintenance department.

Calibration due report is available separately based on responsibility for calibration.

Meets the requirement of clause 7.6 of ISO 9001:2000.

Process Descriptions - 5

Product Measurement (Quality Assurance)

Product specifications are prepared as per test specifications of the product. A Test specification may be a Pass-Fail test or may require only minimum value to define or only maximum value to define or both or it may be only for reference purpose of even exactly equal to (no tolerance).

These tests are broadly divided in type tests, acceptance tests, routine tests and optional tests. If validation between pre-aging and post-aging test is required than **QASoft** can perform this validation too, either on absolute value change basis or % value change basis.

Based on test results and sampling plan **QASoft** decides if a product / or batch is accepted or rejected or re-testing is required. Sampling plan can be linear or non-linear.

Inspection reports are entered for type tests and acceptance tests separately. For the purpose of convenience and reducing data entry routine tests, optional tests and acceptance tests and taken together. Separate data entry done for raw material, in-process and final stages.

Separate data entry facility given for inspection of maintenance items.

Inspection reports needs to be approved prior to product being accepted or rejected. No-modification allowed once inspection reports are approved.

Test Reports without decision of acceptance or rejection can also be prepared as required in case of blood testing or soil testing.

Based on inspection parameter values software decides whether to accept, reject or re-test the product.

Meets the requirement of clause 7.4.3 and 8.2.4 ISO 9001:2000.

Control of Nonconforming Products

When a inspection report with nonconforming product or batch is approved, the same is then shown a "disposition pending" for non-conforming product.

Disposition can be decided as accepted under concession, reworked, path deviated or scrapped.

You can also enter quantities reworked and OK, Accepted under concession and scrapped or diverted or rejected separately.

You should also decide, if you will take corrective and preventive actions.

OK and Accepted under concession products are taken in stores for same product and specification while scrapped or diverted products can be taken for different product or specification as defined.

Meets the requirement of clause 8.3 of ISO 9001:2000.

Corrective and Preventive Actions

To initiate corrective and preventive actions, you need to prepare an action request.

Corrections, corrective action and preventive actions can, thus, be defined against action request. Once the actions are taken, their effectiveness should be verified and status should be updated in the system.

Corrective and preventive actions can be initiated against customer feedback, internal audit, product measurement or process measurement.

Status of action request or corrective and preventive actions is available including status of verification of effectiveness of actions taken.

Meets the requirement of clause 8.5.2 and 8.5.3 of ISO 9001:2000.

Process Descriptions - 6

Satisfaction Surveys

Three types of satisfaction surveys are covered viz: customer satisfaction survey, supplier satisfaction survey and internal customer satisfaction survey (also called process measurement).

A standard questionnaire is provided in the software, which can be modified by the user, to take feedback.

Data can be analysed as per the requirement of the organization.

Meets the requirement of clause 8.2.1 and 8.2.3 of ISO 9001:2000.

Accounting

QASoft covers accounting better than your present accounting software.

You get status of payables and receivables, cash flow, stock valuation, profit and loss account, balance sheet, maintaining ledgers etc like your trusted accounting software.

In addition, **QASoft's** accounting system is multi-currency system. You can maintain foreign currency account and enter transactions in any currency.

Account Grouping and hierarchy can be modified any time. If a debtor account has credit balance **QASoft** can automatically shift that account balance in creditors column instead of showing negative balance and vice-versa.

Meets all general and specific requirements of Chartered Accountants.

Following reports are available, which distinguishes **QASoft** from other software:

1. Cash Flow: Receivables, Payables status user determinable period with Bank and Cash Balances on one screen.
2. Year - On- Year comparison
3. Multi-company, Year - On - Year Comparison
4. Expenses as a percentage of Sales
5. Current Asset and Current Liability Ratio

Comparing QASoft with Regular ERP Software.

Following table compares Product Features:

QASoft	Regular ERP Software
1. Design based on product requirements meeting applicable national and international standards	1. No consideration given to product requirements. Based on accounting requirements only.
2. Product Inspection and Testing based on Specification (with revision) and quality plan. Software decides product acceptance/Rejection/Re-Testing based on quality plan and also prompts for control of non conforming product and thereby corrective and preventive actions.	2. Do not cover inspection and testing; Some ERP allow data entry for inspection report but only to the extent to data entry without controls.
3. Instrument Calibration is Covered	3. No consideration to calibration of instrument.
4. Analysis of Product Characteristics against requirement	4. Normally not available, though some ERP has facility to develop analysis report.
5. Printing is allowed in multiple formats for example test reports can be printed in customer defined formats. You can print each and every report in multiple formats and also customize the formats.	5. Printing formats can be customized but multiple format printing feature not available.
6. Data analysis possible as per 6 sigma.	6. Feature not available.
7. Meets requirements of ISO 9001:2000	7. To some extent.
8. Inventory requirements can be defined for various business seasons such as Peak, Regular and Non- Peak etc.	8. Not Covered. Only Single season.
9. Production Process Interaction (Flow Chart) of any complexity can be defined including by-products, inspection requirement, sampling requirement etc.	9. Production process is normally defined as stores movement or material movement.
10. Forward and reverse tracking of material, processes and accounts.	10. Reverse and forward Tracking available only for accounting related issues.
11. Customer satisfaction survey, Supplier Satisfaction Survey, Internal Customer satisfaction survey covered.	11. Not Covered.
12. Machine Maintenance (Break down / Preventive) covered.	12. In some ERP's it is covered to some extent.
13. Human Resource Training need identification, Training record and training evaluation by way of examination covered.	13. Not covered.
14. Reminder system for documents of periodic renewal nature like registration under factory act. Fire policy etc.	14. Not Covered
15. After Sales Service, Reminder for service due, warranty service, chargeable service for machine manufacturers and contractors.	15. Not Covered
16. User definable taxation system. Will not require upgrade due to any changes in taxation or if new tax is introduced in future.	16. Meets current requirement. Will require upgrade if taxation system is changed or new tax is introduced.

Comparing QASoft with Regular ERP Software.

Following table compares quality of programming:

QASoft	Regular ERP Software
17. Allow you open multiple windows of same form i.e. two purchase order form windows can be opened simultaneously in add/ view/ approve or update mode and arrange them in horizontal tile/ vertical tile or cascade.	17. You can open only one window at a time.
18. Allows you to open purchase order form, sales order form, inward form or production planning or production report form simultaneously and arrange them in horizontal tile/ vertical tile or cascade.	18. You can open only one window at a time.
19. Forms are NOT screen resolution dependant. Screen will set it self as per screen resolution of the monitor. Also suitable for wide screens.	19. Normally designed for 600 X 800 screen resolution and if your screen resolution is higher small window will appear.
20. Short cut keys accessible through "ALT" key are defined in such a way that user can easily access any form/report.	20. Short cut keys accessible through "ALT" key are not defined.
21. Data entry can be restricted on holidays and weekly offs.	21. No such control available.
22. Form Labels can be customized. i.e. instead of "Product Code" you can have "Item Code" or for that matter any thing such as "PC".	22. Labels can not be changed.
23. Process Nomenclature can be changed i.e. You can change "Preventive maintenance to say Pro-active maintenance".	23. Process Nomenclature can not be changed.
24. Software has a signature module and you can attach signature requirement to any process in the software. Signature is a secondary password and report or data will not be saved until signed.	24. Not Covered
25. Designed as per international multi tire architecture norms.	25. All types of software are available in market.

Innovative Matrix Softech Pvt. Ltd.(IMSPL) is promoted Qualified Engineers, Software Professionals, Quality System Auditors having varied industrial experience in industry segments like Engineering, Wires and Cables, Textile, Rubber, Aluminum, Copper, Alloys, PVC, Chemicals, Industrial Additives, Pharmaceutical and Software.

IMSPL started its activities as Matrix Institute in Year 2000 as Management consultancy organization.

To meet the demand of customer for a quality management system software initially a quality assurance module was launched which was mainly used to generate inspection reports.

A complete ERP is then designed to include financial requirements involving Chartered Accountants, System consultants, Quality Consultants and a team of programmers.

Today, we have a dedicated team of programmers and implementation support engineers to serve International as well as Indian business needs.

QASoft is available in following editions targeted at different industry segment:

- Desktop application with client server or web hosted MS SQL Server 2005 Express as database.
- Desktop application with client server or web hosted MS SQL Server 2005 as database.
- Web based application with MS SQL Server 2005 as database.
- SaaS (Software as a Service) with MS SQL Server 2005 as database

Visit our website www.isohelpline.com for details

Product Demonstration:

For a free demonstration at your office/factory send e-mail at

Mail@isohelpline.com



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